

## **Mapping age- and sex-specific HIV prevalence in adults in sub-Saharan Africa, 2000–2018**

HAEUSER, Emily, SERFES, Audrey L., CORK, Michael A., YANG, Mingyou, ABBASTABAR, Hedayat, ABHILASH, E. S., ADABI, Maryam, ADEBAYO, Oladimeji M., ADEKANMBI, Victor, ADEYINKA, Daniel Adedayo, AFZAL, Saira, AHINKORAH, Bright Opoku, AHMADI, Keivan, AHMED, Muktar Beshir, AKALU, Yonas, AKINYEMI, Rufus Olusola, AKUNNA, Chisom Joyqueenet, ALAHDAB, Fares, ALANEZI, Fahad Mashhour, ALANZI, Turki M., ALENE, Kefyalew Addis, ALHASSAN, Robert Kaba, ALIPOUR, Vahid, ALMASI-HASHIANI, Amir, ALVIS-GUZMAN, Nelson, AMEYAW, Edward Kwabena, AMINI, Saeed, AMUGSI, Dickson A., ANCUCEANU, Robert, ANVARI, Davood, APPIAH, Seth Christopher Yaw, ARABLOO, Jalal, AREMU, Olatunde, ASEMAHAGN, Mulusew A., JAFARABADI, Mohammad Asghari, AWEDEW, Atalel Fentahun, QUINTANILLA, Beatriz Paulina Ayala, AYANORE, Martin Amogre, AYNALEM, Yared Asmare, AZARI, Samad, AZENE, Zelalem Nigussie, DARSHAN, B. B., BABALOLA, Tesleem Kayode, BAIG, Atif Amin, BANACH, Maciej, BÄRNIGHAUSEN, Till Winfried, BELL, Arielle Wilder, BHAGAVATHULA, Akshaya Srikanth, BHARDWAJ, Nikha, BHARDWAJ, Pankaj, BHATTACHARYYA, Kritika, BIJANI, Ali, BITEW, Zebeay Workneh, BOHLOULI, Somayeh, BOLARINWA, Obasanjo Afolabi, BOLOOR, Archith, BOZICEVIC, Ivana, BUTT, Zahid A., CÁRDENAS, Rosario, CARVALHO, Felix, CHARAN, Jaykaran, CHATTU, Vijay Kumar, CHOWDHURY, Mohiuddin Ahsanul Kabir, CHU, Dinh-Toi, COWDEN, Richard G., DAHLAWI, Saad M. A., DAMIANI, Giovanni, DARTEH, Eugene Kofuor Maafo, DARWESH, Aso Mohammad, DAS NEVES, José, WEAVER, Nicole Davis, DE LEO, Diego, DE NEVE, Jan-Walter, DERIBE, Kebede, DEUBA, Keshab, DHARMARATNE, Samath, DIANATINASAB, Mostafa, DIAZ, Daniel, DIDARLOO, Alireza, DJALALINIA, Shirin, DOROSTKAR, Fariba, DUBLJANIN, Eleonora, DUKO, Bereket, EL TANTAWI, Maha, EL-JAAFARY, Shaimaa I., ESHRATI, Babak, ESKANDARIEH, Sharareh, EYAWO, Oghenowede, EZEONWUMELU, Ifeanyi Jude, EZZIKOURI, Sayeh, FARZADFAR, Farshad, FATTAHI, Nazir, FAUK, Nelsensius Klau, FERNANDES, Eduarda, FILIP, Irina, FISCHER, Florian, FOIGT, Nataliya A., FOROUTAN, Masoud, FUKUMOTO, Takeshi, GAD, Mohamed M., GAIDHANE, Abhay Motiramji, GEBREGIORGIS, Birhan Gebresillassie, GEBREMEDHIN, Ketema Bizuwork, GETACHER, Lemma, GHADIRI, Keyghobad, GHASHGHAE, Ahmad, GOLECHHA, Mahaveer, GUBARI, Mohammed Ibrahim Mohialdeen, GUGNANI, Harish Chander, GUIMARÃES, Rafael Alves, HAIDER, Mohammad Rifat, HAJ-MIRZAIAN, Arvin, HAMIDI, Samer, HASHI, Abdiwahab, HASSANIPOUR, Soheil, HASSANKHANI, Hadi, HAYAT, Khezar, HERTELIU, Claudiu, HO, Hung Chak,

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# Additional File 2: Supplemental Tables

Mapping age- and sex-specific HIV prevalence in adults in sub-Saharan Africa, 2000–2018

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12 Table S1: HIV seroprevalence survey data (2000–2018)

| Country      | Years   | Name                                            | Type             | Ages  | Sexes           | Age Detail    | Geographic Detail | Citation                                                                                                                                                                                                                                            | NID*   |
|--------------|---------|-------------------------------------------------|------------------|-------|-----------------|---------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Angola       | 2015-16 | Angola Demographic and Health Survey 2015-2016  | Survey microdata | 15-54 | Males & females | Disaggregated | GPS               | ICF International, Ministry of Health (Angola), National Institute of Statistics (Angola), United Nations Children's Fund (UNICEF). Angola Demographic and Health Survey 2015-2016. Fairfax, United States of America: ICF International, 2017.     | 218555 |
| Benin        | 2006    | Benin Demographic and Health Survey 2006        | Survey report    | 15-49 | Males & females | Aggregated    | Admin 1           | Macro International, Inc, National Institute of Statistics and Economic Analysis (INSAE) (Benin), National Program Against AIDS (PNLS) (Benin). Benin Demographic and Health Survey 2006. Fairfax, United States of America: ICF International.     | 18959  |
| Benin        | 2012    | Benin Demographic and Health Survey 2011-2012   | Survey report    | 15-49 | Males & females | Aggregated    | Admin 1           | ICF International, National Institute of Statistics and Economic Analysis (INSAE) (Benin), National Program Against AIDS (PNLS) (Benin). Benin Demographic and Health Survey 2011-2012. Fairfax, United States of America: ICF International, 2014. | 79839  |
| Botswana     | 2004    | Botswana AIDS Impact Survey 2004                | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Central Statistics Office (Botswana). Botswana AIDS Impact Survey 2004. Gaborone, Botswana: Statistics Botswana.                                                                                                                                    | 22114  |
| Botswana     | 2008    | Botswana AIDS Impact Survey 2008                | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Central Statistics Office (Botswana), National AIDS Coordinating Agency (Botswana). Botswana AIDS Impact Survey 2008. Gaborone, Botswana: Statistics Botswana, 2015.                                                                                | 22116  |
| Botswana     | 2013    | Botswana AIDS Impact Survey 2013                | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Ministry of Health (Botswana), National AIDS Coordinating Agency (Botswana), Statistics Botswana. Botswana AIDS Impact Survey 2013. Gaborone, Botswana: Statistics Botswana, 2015.                                                                  | 134753 |
| Burkina Faso | 2003    | Burkina Faso Demographic and Health Survey 2003 | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Macro International, Inc, National Institute of Statistics and Demography (Burkina Faso). Burkina Faso Demographic and Health Survey 2003. Fairfax, United States of America: ICF International.                                                    | 19088  |
| Burkina Faso | 2010    | Burkina Faso Demographic and Health Survey 2010 | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | ICF Macro, Ministry of Health (Burkina Faso), National Institute of Statistics and Demography (Burkina Faso).                                                                                                                                       | 19133  |

| Country  | Years   | Name                                                                                          | Type             | Ages  | Sexes           | Age Detail    | Geographic Detail | Citation                                                                                                                                                                                                                                                                                                | NID*   |
|----------|---------|-----------------------------------------------------------------------------------------------|------------------|-------|-----------------|---------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
|          |         | Health Survey 2010-2011                                                                       |                  |       |                 |               |                   | Burkina Faso Demographic and Health Survey 2010-2011. Fairfax, United States of America: ICF International.                                                                                                                                                                                             |        |
| Burundi  | 2010-11 | Burundi Demographic and Health Survey 2010-2011                                               | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Burundi Institute of Statistics and Economic Studies, ICF International, Ministry of Public Health and the Fight Against AIDS (Burundi). Burundi Demographic and Health Survey 2010-2011. Fairfax, United States of America: ICF International, 2012.                                                   | 30431  |
| Burundi  | 2016-17 | Burundi Demographic and Health Survey 2016-2017                                               | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Burundi Institute of Statistics and Economic Studies, ICF International, Ministry of Public Health and the Fight Against AIDS (Burundi). Burundi Demographic and Health Survey 2016-2017. Fairfax, United States of America: ICF International, 2018.                                                   | 286766 |
| Burundi  | 2007    | Burundi Combined HIV/AIDS/STI Behavioral Surveillance and HIV/AIDS Seroprevalence Survey 2007 | Survey report    | 15-49 | Males & females | Aggregated    | Admin 1           | National Council for the Fight Against AIDS (CNLS) (Burundi). Burundi Combined HIV/AIDS/STI Behavioral Surveillance and HIV/AIDS Seroprevalence Survey 2007.                                                                                                                                            | 335814 |
| Cameroon | 2004    | Cameroon Demographic and Health Survey 2004                                                   | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Macro International, Inc, National Institute of Statistics (Cameroon). Cameroon Demographic and Health Survey 2004. Fairfax, United States of America: ICF International.                                                                                                                               | 19211  |
| Cameroon | 2011    | Cameroon Demographic and Health Survey 2011                                                   | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | ICF International, Ministry of Economy, Planning and Regional Development (Cameroon), Ministry of Public Health (Cameroon), National Institute of Statistics (Cameroon), Pasteur Center of Cameroon. Cameroon Demographic and Health Survey 2011. Fairfax, United States of America: ICF International. | 19274  |
| Cameroon | 2018-19 | Cameroon Demographic and Health Survey 2018-2019                                              | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | ICF International, Ministry of Public Health (Cameroon), National Institute of Statistics (Cameroon). Cameroon Demographic and Health Survey 2018-2019. Fairfax, United States of America: ICF International.                                                                                           | 413167 |



| Country                          | Years   | Name                                                                 | Type             | Ages  | Sexes           | Age Detail    | Geographic Detail | Citation                                                                                                                                                                                                                                                        | NID*   |
|----------------------------------|---------|----------------------------------------------------------------------|------------------|-------|-----------------|---------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Central African Republic         | 2006    | Central African Republic Multiple Indicator Cluster Survey 2006      | Survey report    | 15-49 | Males & females | Aggregated    | Admin 1           | United Nations Children's Fund (UNICEF). Central African Republic Multiple Indicator Cluster Survey 2006. New York, United States: United Nations Children's Fund (UNICEF).                                                                                     | 2223   |
| Central African Republic         | 2010    | Central African Republic Multiple Indicator Cluster Survey 2010-2011 | Survey report    | 15-49 | Males & females | Aggregated    | Admin 1           | Central African Institute of Statistics, Economic and Social Studies (ICASEES) (Central African Republic), ICF International. Central African Republic Multiple Indicator Cluster Survey 2010-2011. Fairfax, United States of America: ICF International, 2013. | 82832  |
| Chad                             | 2014-15 | Chad Demographic and Health Survey 2014-2015                         | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | ICF International, National Institute for Statistics, Economic and Demographic Studies (INSEED) (Chad). Chad Demographic and Health Survey 2014-2015. Fairfax, United States of America: ICF International, 2016.                                               | 157025 |
| Congo                            | 2009    | Congo AIDS Indicator Survey 2009                                     | Survey microdata | 15-49 | Males & females | Disaggregated | Admin 1           | ICF Macro, National Center for Statistics and Economic Studies (Congo, Rep.). Congo AIDS Indicator Survey 2009. Fairfax, United States of America: ICF International.                                                                                           | 3133   |
| Congo                            | 2003    | HIV and AIDS Surveillance Database, Version July 2017                | Survey report    | 15-49 | Males & females | Aggregated    | Admin 1           | United States Census Bureau. HIV and AIDS Surveillance Database, Version July 2017. Washington, D.C., United States: United States Census Bureau, 2017.                                                                                                         | 313360 |
| Côte d'Ivoire                    | 2011-12 | Côte d'Ivoire Demographic and Health Survey 2011-2012                | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | ICF International, Ministry of the Fight Against AIDS (Côte d'Ivoire), National Institute of Statistics (Côte d'Ivoire). Côte d'Ivoire Demographic and Health Survey 2011-2012. Fairfax, United States of America: ICF International.                           | 18533  |
| Côte d'Ivoire                    | 2005    | Côte d'Ivoire AIDS Indicator Survey 2005                             | Survey microdata | 15-49 | Males & females | Disaggregated | Admin >1          | CDC Retro-CI, Ministry of the Fight Against AIDS (Côte d'Ivoire), National Institute of Statistics (Côte d'Ivoire), ORC Macro. Côte d'Ivoire AIDS Indicator Survey 2005. Fairfax, United States of America: ICF International.                                  | 56148  |
| Democratic Republic of the Congo | 2007    | Democratic Republic of the Congo Demographic and Health Survey 2007  | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Macro International, Inc, Ministry of Planning (Congo, DR). Democratic Republic of the Congo Demographic and Health Survey 2007. Fairfax, United States of America: ICF International.                                                                          | 19381  |

| Country                          | Years   | Name                                                                     | Type             | Ages  | Sexes           | Age Detail    | Geographic Detail | Citation                                                                                                                                                                                                                                                                                                                                     | NID*   |
|----------------------------------|---------|--------------------------------------------------------------------------|------------------|-------|-----------------|---------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Democratic Republic of the Congo | 2013-14 | Democratic Republic of the Congo Demographic and Health Survey 2013-2014 | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | ICF International, Ministry of Planning and Monitoring Implementation of the Revolution of Modernity (Congo, DR), Ministry of Public Health (Congo, DR), National Institute of Statistics (Congo, DR). Democratic Republic of the Congo Demographic and Health Survey 2013-2014. Fairfax, United States of America: ICF International, 2014. | 76878  |
| Equatorial Guinea                | 2011    | Equatorial Guinea Demographic and Health Survey 2011                     | Survey report    | 15-49 | Males & females | Aggregated    | Admin 1           | ICF International, Ministry of Health and Social Welfare (Equatorial Guinea), Ministry of Planning, Economic Development and Public Investment (Equatorial Guinea). Equatorial Guinea Demographic and Health Survey 2011. Fairfax, United States of America: ICF International, 2012.                                                        | 76884  |
| Eritrea                          | 2010    | Eritrea Population and Health Survey 2010                                | Survey report    | 15-49 | Males & females | Aggregated    | Admin 1           | Kenya Medical Research Institute (KEMRI), National Statistics Office (Eritrea), The Fafo Research Foundation. Eritrea Population and Health Survey 2010.                                                                                                                                                                                     | 249999 |
| Eswatini                         | 2006-07 | Swaziland Demographic and Health Survey 2006-2007                        | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Central Statistical Office (Swaziland), Macro International, Inc. Swaziland Demographic and Health Survey 2006-2007. Fairfax, United States of America: ICF International.                                                                                                                                                                   | 20829  |
| Eswatini                         | 2017    | Swaziland HIV Incidence Measurement Survey 2 2016-2017                   | Survey microdata | 15-59 | Males & females | Disaggregated | Admin 1           | Government of the Kingdom of Eswatini. Swaziland HIV Incidence Measurement Survey 2 (SHIMS2) 2016-2017. Final Report. Mbabane: Government of the Kingdom of Eswatini; April 2019.                                                                                                                                                            | 415531 |
| Ethiopia                         | 2005    | Ethiopia Demographic and Health Survey 2005                              | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Macro International, Inc, Population and Housing Census Commissions Office (PHCCO). Ethiopia Demographic and Health Survey 2005. Fairfax, United States of America: ICF International.                                                                                                                                                       | 19557  |
| Ethiopia                         | 2011-12 | Ethiopia Demographic and Health Survey 2010-2011                         | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Central Statistical Agency (Ethiopia), ICF Macro, Ministry of Health (Ethiopia). Ethiopia Demographic and Health Survey 2010-2011. Fairfax, United States of America: ICF International.                                                                                                                                                     | 21301  |
| Ethiopia                         | 2016    | Ethiopia Demographic and Health Survey 2016                              | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Central Statistical Agency (Ethiopia), ICF International. Ethiopia Demographic and Health Survey 2016. Fairfax, United States of America: ICF International, 2017.                                                                                                                                                                           | 218568 |

| Country | Years | Name                                      | Type             | Ages  | Sexes           | Age Detail    | Geographic Detail | Citation                                                                                                                                                                                                                                                             | NID*   |
|---------|-------|-------------------------------------------|------------------|-------|-----------------|---------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
|         |       | Health Survey 2016                        |                  |       |                 |               |                   |                                                                                                                                                                                                                                                                      |        |
| Gabon   | 2012  | Gabon Demographic and Health Survey 2012  | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | General Directorate of Statistics (Gabon), ICF International, Ministry of Economy, Employment and Sustainable Development (Gabon), Ministry of Health (Gabon). Gabon Demographic and Health Survey 2012. Fairfax, United States of America: ICF International, 2013. | 76706  |
| Gambia  | 2013  | Gambia Demographic and Health Survey 2013 | Survey microdata | 15-59 | Males & females | Disaggregated | Admin 2           | Gambia Bureau of Statistics (GBOS), ICF International, Ministry of Health and Social Welfare (The Gambia). Gambia Demographic and Health Survey 2013. Fairfax, United States of America: ICF International, 2015.                                                    | 77384  |
| Ghana   | 2003  | Ghana Demographic and Health Survey 2003  | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Ghana Statistical Service, Macro International, Inc. Ghana Demographic and Health Survey 2003. Fairfax, United States of America: ICF International.                                                                                                                 | 19627  |
| Ghana   | 2014  | Ghana Demographic and Health Survey 2014  | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Ghana Health Service, Ghana Statistical Service, ICF International. Ghana Demographic and Health Survey 2014. Fairfax, United States of America: ICF International, 2016.                                                                                            | 157027 |
| Guinea  | 2005  | Guinea Demographic and Health Survey 2005 | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Macro International, Inc, National Statistics Directorate (Guinea). Guinea Demographic and Health Survey 2005. Fairfax, United States of America: ICF International.                                                                                                 | 19683  |
| Guinea  | 2012  | Guinea Demographic and Health Survey 2012 | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | ICF Macro, Ministry of Health and Public Hygiene (Guinea), National Institute of Statistics (Guinea). Guinea Demographic and Health Survey 2012. Fairfax, United States of America: ICF International.                                                               | 69761  |
| Guinea  | 2018  | Guinea Demographic and Health Survey 2018 | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Ministry of Health (Guinea), Ministry of Planning and Economic Development (Guinea), National Institute of Statistics (Guinea). Guinea Demographic and Health Survey 2018. Fairfax, United States of America: ICF International, 2019.                               | 396957 |
| Kenya   | 2003  | Kenya Demographic and                     | Survey microdata | 15-54 | Males & females | Disaggregated | GPS               | Centers for Disease Control and Prevention (CDC), Central Bureau of Statistics (Kenya), Macro International, Inc,                                                                                                                                                    | 20145  |

| Country | Years   | Name                                            | Type             | Ages  | Sexes           | Age Detail    | Geographic Detail | Citation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NID*   |
|---------|---------|-------------------------------------------------|------------------|-------|-----------------|---------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
|         |         | Health Survey 2003                              |                  |       |                 |               |                   | Ministry of Health (Kenya), National Council for Population and Development (Kenya). Kenya Demographic and Health Survey 2003. Fairfax, United States of America: ICF International.                                                                                                                                                                                                                                                                                                                                                                                                                      |        |
| Kenya   | 2008-09 | Kenya Demographic and Health Survey 2008-2009   | Survey microdata | 15-54 | Males & females | Disaggregated | GPS               | ICF Macro, Kenya Medical Research Institute (KEMRI), Kenya National Bureau of Statistics, Ministry of Public Health and Sanitation (Kenya), National AIDS and STI Control Programme (NASCOP) (Kenya), National Aids Control Council (NACC), National Coordinating Agency for Population and Development (Kenya). Kenya Demographic and Health Survey 2008-2009. Fairfax, United States of America: ICF International.                                                                                                                                                                                     | 21365  |
| Kenya   | 2007    | Kenya AIDS Indicator Survey 2007                | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Centers for Disease Control and Prevention (CDC), Kenya Medical Research Institute (KEMRI), Kenya National Bureau of Statistics, Ministry of Public Health and Sanitation (Kenya), National AIDS Control Council (Kenya), National AIDS and STI Control Programme (NASCOP) (Kenya), National Coordinating Agency for Population and Development (Kenya), National Public Health Laboratory Services, Ministry of Public Health and Sanitation (Kenya), United States Agency for International Development (USAID). Kenya AIDS Indicator Survey 2007. Nairobi, Kenya: Kenya National Bureau of Statistics. | 133219 |
| Kenya   | 2013    | Kenya AIDS Indicator Survey 2012-2013           | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Kenya National Bureau of Statistics, Ministry of Devolution and Planning (Kenya), Ministry of Health (Kenya), National AIDS and STI Control Programme (NASCOP) (Kenya). Kenya AIDS Indicator Survey 2012-2013. Nairobi, Kenya: Kenya National Bureau of Statistics.                                                                                                                                                                                                                                                                                                                                       | 133304 |
| Lesotho | 2004-05 | Lesotho Demographic and Health Survey 2004-2005 | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Bureau of Statistics (Lesotho), Macro International, Inc, Ministry of Health and Social Welfare (Lesotho). Lesotho Demographic and Health Survey 2004-2005. Fairfax, United States of America: ICF International.                                                                                                                                                                                                                                                                                                                                                                                         | 20167  |
| Lesotho | 2009-10 | Lesotho Demographic and                         | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | ICF Macro, Ministry of Health and Social Welfare (Lesotho). Lesotho Demographic and Health Survey 2009-2010. Fairfax, United States of America: ICF International.                                                                                                                                                                                                                                                                                                                                                                                                                                        | 21382  |

| Country | Years   | Name                                                     | Type             | Ages  | Sexes           | Age Detail    | Geographic Detail | Citation                                                                                                                                                                                                                                                                                                            | NID*   |
|---------|---------|----------------------------------------------------------|------------------|-------|-----------------|---------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
|         |         | Health Survey 2009-2010                                  |                  |       |                 |               |                   |                                                                                                                                                                                                                                                                                                                     |        |
| Lesotho | 2014    | Lesotho Demographic and Health Survey 2014               | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | ICF International, Ministry of Health and Social Welfare (Lesotho). Lesotho Demographic and Health Survey 2014. Fairfax, United States of America: ICF International.                                                                                                                                               | 157058 |
| Lesotho | 2017    | Lesotho Population-based HIV Impact Assessment 2016-2017 | Survey report    | 15-49 | Males & females | Aggregated    | Admin 1           | Ministry of Health, Lesotho, Centers for Disease Control and Prevention (CDC), and ICAP at Columbia University. Lesotho Population-based HIV Impact Assessment (LePHIA) 2016-2017: Final Report. Maseru, Lesotho, Atlanta, Georgia, and New York, New York, USA: Ministry of Health, CDC, and ICAP, September 2019. | 327582 |
| Liberia | 2006-07 | Liberia Demographic and Health Survey 2006-2007          | Survey microdata | 15-49 | Males & females | Disaggregated | GPS               | Liberia Institute for Statistics and Geo-information Services (LISGIS), Macro International, Inc. Liberia Demographic and Health Survey 2006-2007. Fairfax, United States of America: ICF International.                                                                                                            | 20191  |
| Liberia | 2013    | Liberia Demographic and Health Survey 2013               | Survey microdata | 15-49 | Males & females | Disaggregated | GPS               | ICF International, Liberia Institute for Statistics and Geo-information Services (LISGIS), National AIDS and STI Control Program (NACP), Ministry of Health and Social Welfare (Liberia). Liberia Demographic and Health Survey 2013. Fairfax, United States of America: ICF International.                         | 77385  |
| Malawi  | 2004-05 | Malawi Demographic and Health Survey 2004-2005           | Survey microdata | 15-54 | Males & females | Disaggregated | GPS               | Macro International, Inc, National Statistical Office of Malawi. Malawi Demographic and Health Survey 2004-2005. Fairfax, United States of America: ICF International.                                                                                                                                              | 20263  |
| Malawi  | 2010    | Malawi Demographic and Health Survey 2010                | Survey microdata | 15-54 | Males & females | Disaggregated | GPS               | ICF Macro, National Statistical Office of Malawi. Malawi Demographic and Health Survey 2010. Fairfax, United States of America: ICF International.                                                                                                                                                                  | 21393  |
| Malawi  | 2015-16 | Malawi Demographic and Health Survey 2015-2016           | Survey microdata | 15-54 | Males & females | Disaggregated | GPS               | Emory University and Centers for Disease Control & Prevention Collaboration, ICF International, Ministry of Health (Malawi), National Statistical Office of Malawi. Malawi Demographic and Health Survey 2015-2016. Fairfax, United States of America: ICF International, 2017.                                     | 218581 |

| Country    | Years   | Name                                                    | Type             | Ages  | Sexes           | Age Detail    | Geographic Detail | Citation                                                                                                                                                                                                                                                                                                     | NID*   |
|------------|---------|---------------------------------------------------------|------------------|-------|-----------------|---------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Malawi     | 2015-16 | Malawi Population-based HIV Impact Assessment 2015-2016 | Survey microdata | 15-59 | Males & females | Disaggregated | Admin >1          | Ministry of Health, Malawi, Centers for Disease Control and Prevention (CDC), and ICAP at Columbia University. Malawi Population-based HIV Impact Assessment (MPHIA) 2015-16: First Report. Lilongwe, Malawi, Atlanta, Georgia and New York, New York, USA: Ministry of Health, CDC and ICAP. December 2016. | 287629 |
| Mali       | 2006    | Mali Demographic and Health Survey 2006                 | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Macro International, Inc, Ministry of Health (Mali), National Directorate of Statistics and Informatics (DNSI) (Mali). Mali Demographic and Health Survey 2006. Fairfax, United States of America: ICF International.                                                                                        | 20274  |
| Mali       | 2001    | Mali Demographic and Health Survey 2001                 | Survey microdata | 15-59 | Males & females | Disaggregated | Admin 1, GPS      | Macro International, Inc, National Directorate of Statistics and Informatics (DNSI) (Mali), Planning and Statistics Unit, Ministry of Health (Mali). Mali Demographic and Health Survey 2001. Fairfax, United States of America: ICF International.                                                          | 20315  |
| Mali       | 2012-13 | Mali Demographic and Health Survey 2012-2013            | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | ICF International, INFO-STAT (Mali), Ministry of Health (Mali), National Institute of Statistics (INSTAT) (Mali), Planning and Statistics Unit, Ministry of Health (Mali). Mali Demographic and Health Survey 2012-2013. Fairfax, United States of America: ICF International, 2014.                         | 77388  |
| Mozambique | 2009    | Mozambique AIDS Indicator Survey 2009                   | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | ICF Macro, Ministry of Health (Mozambique), National Institute of Statistics (INE) (Mozambique). Mozambique AIDS Indicator Survey 2009. Fairfax, United States of America: ICF International, 2010.                                                                                                          | 8906   |
| Mozambique | 2015    | Mozambique AIDS Indicator Survey 2015                   | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Centers for Disease Control and Prevention (CDC), ICF International, Ministry of Health (Mozambique), National Institute of Health (Mozambique), National Institute of Statistics (INE) (Mozambique). Mozambique AIDS Indicator Survey 2015. Fairfax, United States of America: ICF International, 2018.     | 157060 |
| Namibia    | 2013    | Namibia Demographic and Health Survey 2013              | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | ICF International, Ministry of Health and Social Services (Namibia), Namibia Institute of Pathology, Namibia Statistics Agency. Namibia Demographic and Health Survey 2013. Fairfax, United States of America: ICF International.                                                                            | 150382 |



| Country | Years   | Name                                                           | Type             | Ages  | Sexes           | Age Detail    | Geographic Detail | Citation                                                                                                                                                                                                | NID*   |
|---------|---------|----------------------------------------------------------------|------------------|-------|-----------------|---------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Namibia | 2017    | Namibia Population-based HIV Impact Assessment 2017            | Survey report    | 15-49 | Males & females | Aggregated    | Admin 1           | Ministry of Health and Social Services (MoHSS), Namibia. Namibia Population-based HIV Impact Assessment (NAMPHIA) 2017: Final Report. Windhoek: MoHSS, Namibia; November, 2019.                         | 359089 |
| Namibia | 2006-09 | Namibia - Khomas Windhoek Okambilibili HIV Endline Survey 2009 | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Aulagnier M, Janssens W, De Beer I, van Rooy G, Gaeb E, Hesp C, van der Gaag J, Rinke de Wit TF. Namibia - Khomas Windhoek Okambilibili HIV Endline Survey 2009.                                        | 425256 |
| Niger   | 2006    | Niger Demographic and Health Survey 2006                       | Survey microdata | 15-59 | Males & females | Disaggregated | Admin 1           | Department of Statistics and National Accounts (Niger), Macro International, Inc. Niger Demographic and Health Survey 2006. Fairfax, United States of America: ICF International.                       | 20499  |
| Niger   | 2012    | Niger Demographic and Health Survey 2012                       | Survey microdata | 15-59 | Males & females | Disaggregated | Admin 1           | ICF International, Ministry of Public Health (Niger), National Institute of Statistics (Niger). Niger Demographic and Health Survey 2012. Fairfax, United States of America: ICF International.         | 74393  |
| Nigeria | 2018    | Nigeria HIV/AIDS Indicator and Impact Survey 2018              | Survey report    | 15-59 | Males & females | Disaggregated | Admin 1           | Federal Ministry of Health (Nigeria), Government of Nigeria, National Agency for the Control of AIDS (NACA) (Nigeria), University of Maryland. Nigeria HIV/AIDS Indicator and Impact Survey 2018.       | 399235 |
| Rwanda  | 2005    | Rwanda Demographic and Health Survey 2005                      | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Macro International, Inc, National Institute of Statistics of Rwanda. Rwanda Demographic and Health Survey 2005. Fairfax, United States of America: ICF International.                                  | 20740  |
| Rwanda  | 2010-11 | Rwanda Demographic and Health Survey 2010-2011                 | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | ICF Macro, Ministry of Health (Rwanda), National Institute of Statistics of Rwanda. Rwanda Demographic and Health Survey 2010-2011. Fairfax, United States of America: ICF International.               | 56040  |
| Rwanda  | 2014-15 | Rwanda Demographic and Health Survey 2014-2015                 | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | ICF International, Ministry of Health (Rwanda), National Institute of Statistics of Rwanda. Rwanda Demographic and Health Survey 2014-2015. Fairfax, United States of America: ICF International, 2016. | 157063 |

| Country      | Years   | Name                                                            | Type             | Ages  | Sexes           | Age Detail    | Geographic Detail | Citation                                                                                                                                                                                                                                                                                         | NID*   |
|--------------|---------|-----------------------------------------------------------------|------------------|-------|-----------------|---------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Rwanda       | 2013    | Rwanda AIDS Indicator and HIV Incidence Survey 2013             | Survey report    | 15-59 | Males & females | Aggregated    | Admin 1           | Ministry of Health (Rwanda), Rwanda Biomedical Center (RBC). Rwanda AIDS Indicator and HIV Incidence Survey 2013.                                                                                                                                                                                | 343466 |
| Senegal      | 2005    | Senegal Demographic and Health Survey 2005                      | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Ministry of Health and Prevention (Senegal), Research Center for Human Development (Senegal). Senegal Demographic and Health Survey 2005. Fairfax, United States of America: ICF International.                                                                                                  | 26855  |
| Senegal      | 2010-11 | Senegal Demographic and Health Survey 2010-2011                 | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Center for Research in Human Development (CRDH), Cheikh Anta Diop University, Hospital Aristide Le Dantec, ICF Macro, National Agency of Statistics and Demography (Senegal). Senegal Demographic and Health Survey 2010-2011. Fairfax, United States of America: ICF International.             | 56063  |
| Senegal      | 2017    | Senegal Continuous Demographic and Health Survey 2017           | Survey microdata | 15-59 | Males & females | Disaggregated | Admin 1           | ICF International, Ministry of Health and Social Action (Senegal), National Agency of Statistics and Demography (Senegal), Unit for the Fight Against Malnutrition (Senegal). Senegal Continuous Demographic and Health Survey 2017. Fairfax, United States of America: ICF International, 2018. | 353526 |
| Sierra Leone | 2008    | Sierra Leone Demographic and Health Survey 2008                 | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Macro International, Inc, Statistics Sierra Leone. Sierra Leone Demographic and Health Survey 2008. Fairfax, United States of America: ICF International.                                                                                                                                        | 21258  |
| Sierra Leone | 2013    | Sierra Leone Demographic and Health Survey 2013                 | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | ICF International, Ministry of Health and Sanitation (Sierra Leone), Statistics Sierra Leone. Sierra Leone Demographic and Health Survey 2013. Fairfax, United States of America: ICF International, 2014.                                                                                       | 131467 |
| South Africa | 2003-16 | South Africa - ACDIS Health and Demographic Surveillance System | Survey microdata | 15-59 | Males & females | Disaggregated | Admin <1          | Africa Centre for Population Studies and Reproductive Health, INDEPTH, South African Medical Research Council, University of Kwazulu-Natal. South Africa - ACDIS Health and Demographic Surveillance System.                                                                                     | 11780  |
| South Africa | 2002    | South Africa HIV/AIDS Behavioral Risks,                         | Survey microdata | 15-59 | Males & females | Disaggregated | Admin 3           | Center for AIDS Development, Research and Evaluation (CADRE) (South Africa), Department of Social Development (South Africa), Family Health International, Geospace                                                                                                                              | 12102  |

| Country      | Years   | Name                                                                                         | Type             | Ages  | Sexes           | Age Detail    | Geographic Detail | Citation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NID*   |
|--------------|---------|----------------------------------------------------------------------------------------------|------------------|-------|-----------------|---------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
|              |         | Sero-Status, and Mass Media Impact Survey 2002                                               |                  |       |                 |               |                   | International (South Africa), Human Sciences Research Council, Joint United Nations Program on HIV/AIDS (UNAIDS), Medical University of Southern Africa (MEDUNSA), National Agency for AIDS Research (ANRS) (France), National Health Laboratory Service (NHLS) (South Africa), South African Medical Research Council, University of Natal, Wits Health Consortium. South Africa HIV/AIDS Behavioral Risks, Sero-Status, and Mass Media Impact Survey 2002. Pretoria, South Africa: Human Sciences Research Council, 2011. |        |
| South Africa | 2016    | South Africa Demographic and Health Survey 2016                                              | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Department of Health (South Africa), ICF International, South African Medical Research Council, Statistics South Africa. South Africa Demographic and Health Survey 2016. Fairfax, United States of America: ICF International, 2019.                                                                                                                                                                                                                                                                                       | 157064 |
| South Africa | 2008-09 | South Africa National HIV Prevalence, Incidence, Behavior and Communication Survey 2008-2009 | Survey microdata | 15-59 | Males & females | Disaggregated | Admin 5, GPS      | Center for AIDS Development, Research and Evaluation (CADRE) (South Africa), Geospace International (South Africa), Global Clinical and Viral Laboratory (South Africa), Human Sciences Research Council, Maphume Research Services, National Institute for Communicable Diseases (South Africa), South African Medical Research Council. South Africa National HIV Prevalence, Incidence, Behavior and Communication Survey 2008-2009. Pretoria, South Africa: Human Sciences Research Council, 2014.                      | 228102 |
| South Africa | 2005    | South Africa National HIV Prevalence, Incidence, Behavior and Communication Survey 2004-2005 | Survey microdata | 15-59 | Males & females | Disaggregated | Admin 3           | Center for AIDS Development, Research and Evaluation (CADRE) (South Africa), Centers for Disease Control and Prevention (CDC), Global Clinical and Viral Laboratory (South Africa), Human Sciences Research Council, Maphume Research Services, National Institute for Communicable Diseases (South Africa). South Africa National HIV Prevalence, Incidence, Behavior and Communication Survey 2004-2005. Pretoria, South Africa: Human Sciences Research Council, 2011.                                                   | 313074 |
| South Africa | 2011-12 | South Africa National HIV Prevalence,                                                        | Survey microdata | 15-59 | Males & females | Disaggregated | Admin 5, GPS      | Centers for Disease Control and Prevention (CDC), Global Clinical and Viral Laboratory (South Africa), Human Sciences Research Council, National Institute for                                                                                                                                                                                                                                                                                                                                                              | 313076 |

| Country  | Years   | Name                                                     | Type             | Ages  | Sexes           | Age Detail    | Geographic Detail | Citation                                                                                                                                                                                                                                                                                                                   | NID*   |
|----------|---------|----------------------------------------------------------|------------------|-------|-----------------|---------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
|          |         | Incidence, and Behavior Survey 2011-2012                 |                  |       |                 |               |                   | Communicable Diseases (South Africa), South African Medical Research Council, University of Cape Town. South Africa National HIV Prevalence, Incidence, and Behavior Survey 2011-2012. Pretoria, South Africa: Human Sciences Research Council, 2016.                                                                      |        |
| Tanzania | 2003-04 | Tanzania AIDS Indicator Survey 2003-2004                 | Survey microdata | 15-49 | Males & females | Disaggregated | GPS               | National Bureau of Statistics (Tanzania), ORC Macro, Tanzania Commission for AIDS (TACAIDS). Tanzania AIDS Indicator Survey 2003-2004. Fairfax, United States of America: ICF International.                                                                                                                               | 12630  |
| Tanzania | 2007-08 | Tanzania HIV/AIDS and Malaria Indicator Survey 2007-2008 | Survey microdata | 15-49 | Males & females | Disaggregated | GPS               | Macro International, Inc, National Bureau of Statistics (Tanzania), Office of the Chief Government Statistician (OCGS) (Zanzibar), Tanzania Commission for AIDS (TACAIDS), Zanzibar AIDS Commission (ZAC). Tanzania HIV/AIDS and Malaria Indicator Survey 2007-2008. Fairfax, United States of America: ICF International. | 12644  |
| Tanzania | 2011-12 | Tanzania AIDS Indicator Survey 2011-2012                 | Survey microdata | 15-49 | Males & females | Disaggregated | GPS               | ICF International, National Bureau of Statistics (Tanzania), Office of the Chief Government Statistician (OCGS) (Zanzibar), Tanzania Commission for AIDS (TACAIDS), Zanzibar AIDS Commission (ZAC). Tanzania AIDS Indicator Survey 2011-2012. Fairfax, United States of America: ICF International, 2013.                  | 77395  |
| Tanzania | 2017    | Tanzania HIV Impact Survey 2016-2017                     | Survey microdata | 15-59 | Males & females | Disaggregated | Admin 1           | Tanzania Commission for AIDS (TACAIDS), Zanzibar AIDS Commission (ZAC). Tanzania HIV Impact Survey(THIS) 2016-2017: Final Report. Dar es Salaam, Tanzania. December 2018.                                                                                                                                                  | 327591 |
| Togo     | 2013-14 | Togo Demographic and Health Survey 2013-2014             | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Directorate General of Statistics and National Accounts (Togo), ICF International, Ministry of Health (Togo), Ministry of Planning, Development and Zoning (Togo). Togo Demographic and Health Survey 2013-2014. Fairfax, United States of America: ICF International, 2015.                                               | 77515  |
| Uganda   | 2004-05 | Uganda AIDS Indicator Survey 2004-2005                   | Survey microdata | 15-59 | Males & females | Disaggregated | Admin 1           | Division of Reproductive Health, Centers for Disease Control and Prevention (CDC), Ministry of Health (Uganda). Uganda AIDS Indicator Survey 2004-2005.                                                                                                                                                                    | 13084  |

| Country | Years   | Name                                                    | Type             | Ages  | Sexes           | Age Detail    | Geographic Detail | Citation                                                                                                                                                                                                                                                                                                     | NID*   |
|---------|---------|---------------------------------------------------------|------------------|-------|-----------------|---------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Uganda  | 2011    | Uganda AIDS Indicator Survey 2011                       | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Centers for Disease Control and Prevention (CDC), ICF Macro, Ministry of Health (Uganda), Uganda Bureau of Statistics, Uganda Virus Research Institute. Uganda AIDS Indicator Survey 2011. Fairfax, United States of America: ICF International.                                                             | 55973  |
| Uganda  | 2016    | Uganda Population-based HIV Impact Assessment 2016-2017 | Survey report    | 15-49 | Males & females | Aggregated    | Admin 1           | Ministry of Health, Uganda. Uganda Population-based HIV Impact Assessment (UPHIA) 2016-2017: Final Report. Kampala: Ministry of Health; July, 2019.                                                                                                                                                          | 327593 |
| Zambia  | 2002    | Zambia Demographic and Health Survey 2001-2002          | Survey microdata | 15-59 | Males & females | Disaggregated | Admin 1           | Central Board of Health (Zambia), Central Statistical Office (Zambia), Macro International, Inc. Zambia Demographic and Health Survey 2001-2002. Fairfax, United States of America: ICF International.                                                                                                       | 21102  |
| Zambia  | 2007    | Zambia Demographic and Health Survey 2007               | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Central Statistical Office (Zambia), Macro International, Inc. Zambia Demographic and Health Survey 2007. Fairfax, United States of America: ICF International.                                                                                                                                              | 21117  |
| Zambia  | 2013-14 | Zambia Demographic and Health Survey 2013-2014          | Survey microdata | 15-59 | Males & females | Disaggregated | GPS               | Central Statistical Office (Zambia), ICF International, Ministry of Health (Zambia), Tropical Diseases Research Centre, University Teaching Hospital (Zambia), University of Zambia. Zambia Demographic and Health Survey 2013-2014. Fairfax, United States of America: ICF International.                   | 77516  |
| Zambia  | 2016    | Zambia Population-based HIV Impact Assessment 2016      | Survey microdata | 15-59 | Males & females | Disaggregated | Admin 2           | Ministry of Health, Zambia, Centers for Disease Control and Prevention (CDC), and ICAP at Columbia University. Zambia Population-based HIV Impact Assessment (ZAMPHIA) 2015-16: First Report. Lusaka, Zambia, Atlanta, Georgia and New York, New York, USA: Ministry of Health, CDC and ICAP. December 2016. | 287630 |
| Zambia  | 2018    | Zambia Demographic and Health Survey 2018-2019          | Survey microdata | 15-59 | Males & females | Disaggregated | Admin 1           | Central Statistical Office (Zambia), ICF International, Ministry of Health (Zambia), University Teaching Hospital (Zambia), University of Zambia. Zambia Demographic and Health Survey 2018-2019. Fairfax, United States of America: ICF International, 2020.                                                | 411301 |

| Country  | Years   | Name                                                                   | Type             | Ages  | Sexes           | Age Detail    | Geographic Detail | Citation                                                                                                                                                                                                                                                                                                                                  | NID*   |
|----------|---------|------------------------------------------------------------------------|------------------|-------|-----------------|---------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Zimbabwe | 2005-06 | Zimbabwe Demographic and Health Survey 2005-2006                       | Survey microdata | 15-54 | Males & females | Disaggregated | GPS               | Central Statistical Office (Zimbabwe), Macro International, Inc. Zimbabwe Demographic and Health Survey 2005-2006. Fairfax, United States of America: ICF International.                                                                                                                                                                  | 21163  |
| Zimbabwe | 2010-11 | Zimbabwe Demographic and Health Survey 2010-2011                       | Survey microdata | 15-54 | Males & females | Disaggregated | GPS               | ICF Macro, Zimbabwe National Statistics Agency. Zimbabwe Demographic and Health Survey 2010-2011. Calverton, United States of America: ICF Macro, 2012.                                                                                                                                                                                   | 55992  |
| Zimbabwe | 2015    | Zimbabwe Demographic and Health Survey 2015                            | Survey microdata | 15-54 | Males & females | Disaggregated | GPS               | ICF International, National Microbiology Reference Laboratory, Harare Central Hospital (NMRL) (Zimbabwe), Zimbabwe National Statistics Agency. Zimbabwe Demographic and Health Survey 2015. Fairfax, United States of America: ICF International, 2016.                                                                                   | 157066 |
| Zimbabwe | 2016    | Zimbabwe Population-based HIV Impact Assessment 2015-2016              | Survey report    | 15-49 | Males & females | Aggregated    | Admin 1           | Ministry of Health and Child Care (MOHCC), Zimbabwe, Centers for Disease Control and Prevention (CDC), and ICAP at Columbia University. Zimbabwe Population-based HIV Impact Assessment (ZIMPHIA) 2015-16: First Report. Harare, Zimbabwe, Atlanta, Georgia and New York, New York, USA: Ministry of Health, CDC and ICAP. December 2016. | 287631 |
| Zimbabwe | 2005    | Zimbabwe - Chimanimani Behavioral Risks and HIV Serostatus Survey 2005 | Survey report    | 15-24 | Males & females | Aggregated    | Admin 2           | Biomedical Research and Training Institute (Zimbabwe), Human Sciences Research Council, National Institute of Health Research, Ministry of Health and Child Welfare (NIHR) (Zimbabwe), Zimbabwe Central Statistics Office. Zimbabwe - Chimanimani Behavioral Risks and HIV Serostatus Survey 2005.                                        | 333662 |

\*NID = Data source unique identifier in the Global Health Data Exchange (<http://ghdx.healthdata.org/>). Additional information about each data sources is available via the GHDx, including information about the data provider and links to where the data can be accessed or requested (where available). NIDs can be entered in the search bar to retrieve the record for a particular source.

17 Table S2: ANC sentinel surveillance data (2000–2018)

| Country  | Years                              | Source                                                                    | Geographic Detail | Citation                                                                                                                                                                                                                                                                              | NID*   |
|----------|------------------------------------|---------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Angola   | 2001-02                            | HIV Prevalence Among Women Attending Antenatal Care by Province 1985-2002 | GPS               | Angola Prevalence of HIV, Hepatitis B, and Syphilis, and HIV Prevalence Among Women Attending Antenatal Care, Personal Communication with K. Stanecki and D. Serrano. [Unpublished].                                                                                                  | 347096 |
| Angola   | 2002                               | Presentation of HIV Surveillance Information and CAP Survey               | GPS               | Serrano D, National AIDS Control Program, Ministry of Health (PNLS) (Angola). Presentation of HIV Surveillance Information and CAP Survey.                                                                                                                                            | 347109 |
| Angola   | 2004-05, 2007, 2009, 2011, 2013    | UNAIDS Spectrum - National HIV Estimates 2019                             | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                                       | 415978 |
| Benin    | 2000-17                            | UNAIDS Spectrum - National HIV Estimates 2019                             | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                                       | 415978 |
| Botswana | 2000-03, 2005-07, 2009, 2011, 2015 | UNAIDS Spectrum - National HIV Estimates 2019                             | Admin 2, GPS      | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                                       | 415978 |
| Botswana | 2001-03                            | Botswana HIV Sentinel Survey 2003                                         | Admin 2           | Botswana AIDS/STD Unit, Botswana Harvard AIDS Institute Partnership (BHP), Centers for Disease Control and Prevention (CDC), Government of Botswana, National AIDS Coordinating Agency (Botswana), World Health Organization (WHO). Botswana HIV Sentinel Survey 2003.                | 347264 |
| Botswana | 2000                               | Botswana HIV Sentinel Survey 2000                                         | Admin 2           | Botswana AIDS/STD Unit, Centers for Disease Control and Prevention (CDC), Government of Botswana, National AIDS Coordinating Agency (Botswana), World Health Organization (WHO). Botswana HIV Sentinel Survey 2000.                                                                   | 347350 |
| Botswana | 2005                               | Botswana HIV Sentinel Survey 2005                                         | Admin 2           | Botswana Harvard AIDS Institute Partnership (BHP), Centers for Disease Control and Prevention (CDC), Department of AIDS Prevention and Care, Ministry of Health (Botswana), Joint United Nations Program on HIV/AIDS (UNAIDS), Ministry of Local Government (Botswana), National AIDS | 347307 |



| Country      | Years                              | Source                                                                | Geographic Detail | Citation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NID*   |
|--------------|------------------------------------|-----------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
|              |                                    |                                                                       |                   | Coordinating Agency (Botswana), National Health Laboratory (NHL) (Botswana), World Health Organization (WHO). Botswana HIV Sentinel Survey 2005.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |
| Botswana     | 2007                               | Botswana HIV ANC Sentinel Survey 2007                                 | Admin 2           | African Comprehensive HIV/AIDS Partnerships (ACHAP), Botswana Harvard AIDS Institute Partnership (BHP), Centers for Disease Control and Prevention (CDC), Central Statistics Office (Botswana), Department of AIDS Prevention and Care, Ministry of Health (Botswana), Department of Local Government Service Management (DLGSM) (Botswana), Government of Botswana, Health Statistics Unit, Ministry of Health (Botswana), Joint United Nations Program on HIV/AIDS (UNAIDS), Ministry of Local Government (Botswana), National AIDS Coordinating Agency (Botswana), National Health Laboratory (NHL) (Botswana), World Health Organization (WHO). Botswana HIV ANC Sentinel Survey 2007. | 347145 |
| Burkina Faso | 2000-17                            | UNAIDS Spectrum - National HIV Estimates 2019                         | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 415978 |
| Burundi      | 2000-10, 2015, 2017                | UNAIDS Spectrum - National HIV Estimates 2019                         | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 415978 |
| Burundi      | 2002                               | Burundi Annual HIV/AIDS/STIs Epidemiological Surveillance Report 2002 | GPS               | Ministry of Public Health (Burundi), National AIDS and STDs Program (Burundi). Burundi Annual HIV/AIDS/STIs Epidemiological Surveillance Report 2002. Burundi: National AIDS and STDs Program (Burundi), 2002.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 352105 |
| Cameroon     | 2000, 2002, 2007, 2009, 2012, 2016 | UNAIDS Spectrum - National HIV Estimates 2019                         | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 415978 |
| Cameroon     | 2002                               | Cameroon National HIV Serosurvey 2002                                 | GPS               | Ministry of Public Health (Cameroon), National AIDS Control Committee (Cameroon). Cameroon National HIV Serosurvey 2002.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 352128 |

| Country                  | Years                        | Source                                                                                                            | Geographic Detail | Citation                                                                                                                                                                                                                                               | NID*   |
|--------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Cameroon                 | 2016                         | UNAIDS Spectrum - National HIV Estimates 2017                                                                     | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2017. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2017.                                                                        | 317607 |
| Central African Republic | 2000, 2002, 2006, 2011, 2015 | UNAIDS Spectrum - National HIV Estimates 2019                                                                     | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                        | 415978 |
| Chad                     | 2002-03, 2009-11, 2013-14    | UNAIDS Spectrum - National HIV Estimates 2019                                                                     | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                        | 415978 |
| Chad                     | 2000, 2002-03                | UNAIDS Spectrum - National HIV Estimates 2016                                                                     | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2016. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS).                                                                              | 306517 |
| Chad                     | 2000                         | Chad HIV Prevalence Among Women in ANC Per Sentinel Site 2000                                                     | GPS               | Ministry of Public Health (Chad). Chad HIV Prevalence Among Women in ANC Per Sentinel Site 2000.                                                                                                                                                       | 356793 |
| Chad                     | 2002                         | Chad Annual Report of Epidemiology Service Activities 2002, Epidemiological Surveillance of Second Generation HIV | GPS               | Ministry of Public Health (Chad), National AIDS/STI Program (PNLS) (Chad). Chad Annual Report of Epidemiology Service Activities 2002, Epidemiological Surveillance of Second Generation HIV. N'Djamena, Chad: Ministry of Public Health (Chad), 2003. | 354940 |
| Chad                     | 2002-03, 2011, 2013-14       | UNAIDS Spectrum - National HIV Estimates 2018                                                                     | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2018. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                        | 365412 |
| Congo                    | 2002, 2005-06, 2011          | UNAIDS Spectrum - National HIV Estimates 2019                                                                     | Admin 1, Admin 2  | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                        | 415978 |
| Côte d'Ivoire            | 2000-02, 2004-05, 2008, 2017 | UNAIDS Spectrum - National HIV Estimates 2018                                                                     | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2018. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                        | 365412 |

| Country                          | Years                                                   | Source                                                          | Geographic Detail | Citation                                                                                                                                                                                                                                                                                                             | NID*   |
|----------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Côte d'Ivoire                    | 2000-02,<br>2004-05,<br>2008,<br>2017-18                | UNAIDS Spectrum - National HIV Estimates 2019                   | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                                                                      | 415978 |
| Côte d'Ivoire                    | 2001                                                    | UNAIDS Spectrum - National HIV Estimates 2017                   | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2017. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2017.                                                                                                                                      | 317607 |
| Côte d'Ivoire                    | 2005, 2008                                              | UNAIDS Spectrum - National HIV Estimates 2016                   | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2016. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS).                                                                                                                                            | 306517 |
| Democratic Republic of the Congo | 2000,<br>2003-09,<br>2011-13,<br>2015, 2017             | UNAIDS Spectrum - National HIV Estimates 2019                   | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                                                                      | 415978 |
| Djibouti                         | 2002,<br>2006-10,<br>2013-14                            | UNAIDS Spectrum - National HIV Estimates 2019                   | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                                                                      | 415978 |
| Equatorial Guinea                | 2008                                                    | Equatorial Guinea HIV Seroprevalence Survey 2008                | Admin 1           | Castroverde Laboratory (Equatorial Guinea), Institute of Health Carlos III (Spain), Ministry of Science and Innovation (Spain), Reference Center for Endemic Control (CRCE) (Equatorial Guinea), Spanish Agency for International Development Cooperation (AECID). Equatorial Guinea HIV Seroprevalence Survey 2008. | 355263 |
| Eritrea                          | 2003,<br>2005, 2007,<br>2009,<br>2011-13,<br>2015, 2017 | UNAIDS Spectrum - National HIV Estimates 2019                   | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                                                                      | 415978 |
| Eritrea                          | 2003                                                    | Eritrea HIV Sentinel Surveillance Survey 2003                   | GPS               | Ministry of Health (Eritrea). Eritrea HIV Sentinel Surveillance Survey 2003.                                                                                                                                                                                                                                         | 355283 |
| Eritrea                          | 2003                                                    | Eritrea HIV Prevalence by Health Unit, Site, and Zone 1999-2003 | GPS               | Ministry of Health (Eritrea). Eritrea HIV Prevalence by Health Unit, Site, and Zone 1999-2003.                                                                                                                                                                                                                       | 355296 |

| Country  | Years                                          | Source                                                                           | Geographic Detail | Citation                                                                                                                                                                                                                             | NID*   |
|----------|------------------------------------------------|----------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Eritrea  | 2003, 2005, 2007                               | Eritrea HIV and Syphilis Sentinel Surveillance Survey in ANC Attendee Women 2007 | GPS               | Ministry of Health (Eritrea). Eritrea HIV and Syphilis Sentinel Surveillance Survey in ANC Attendee Women 2007.                                                                                                                      | 143203 |
| Eritrea  | 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2018 | UNAIDS Spectrum - National HIV Estimates 2018                                    | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2018. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                      | 365412 |
| Eswatini | 2000, 2002, 2004, 2006, 2008, 2010             | UNAIDS Spectrum - National HIV Estimates 2018                                    | Admin 1, GPS      | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2018. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                      | 365412 |
| Ethiopia | 2001-03, 2005, 2007, 2009, 2012, 2014, 2016    | UNAIDS Spectrum - National HIV Estimates 2018                                    | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2018. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                      | 365412 |
| Ethiopia | 2001-03                                        | AIDS in Ethiopia: Fifth Report                                                   | GPS               | Centers for Disease Control and Prevention (CDC), Ministry of Health (Ethiopia). AIDS in Ethiopia: Fifth Report. Addis Ababa, Ethiopia: Ministry of Health (Ethiopia), 2004.                                                         | 316592 |
| Ethiopia | 2005                                           | AIDS in Ethiopia: Sixth Report                                                   | GPS               | Federal HIV/AIDS Prevention and Control Office (Ethiopia), Ministry of Health (Ethiopia), President's Emergency Plan for AIDS Relief (PEPFAR). AIDS in Ethiopia: Sixth Report. Addis Ababa, Ethiopia: Ministry of Health (Ethiopia). | 143235 |
| Ethiopia | 2007, 2009                                     | Ethiopia Antenatal Care Sentinel HIV Surveillance 2009                           | GPS               | Centers for Disease Control and Prevention (CDC), Ethiopian Health and Nutrition Research Center (EHNRI). Ethiopia Antenatal Care Sentinel HIV Surveillance 2009.                                                                    | 355394 |
| Gabon    | 2001-03, 2007, 2009                            | UNAIDS Spectrum - National HIV Estimates 2019                                    | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                      | 415978 |
| Gabon    | 2001                                           | Gabon HIV/AIDS Incidence, Prevalence, and Mortality 2001-2003                    | GPS               | National AIDS Control Program (Gabon). Gabon HIV/AIDS Incidence, Prevalence, and Mortality 2001-2003. 2003.                                                                                                                          | 355441 |
| Gambia   | 2001-08, 2011-12, 2014, 2016-17                | UNAIDS Spectrum - National HIV Estimates 2019                                    | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                      | 415978 |

| Country | Years                        | Source                                        | Geographic Detail | Citation                                                                                                                                                                                                                              | NID*   |
|---------|------------------------------|-----------------------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Ghana   | 2000-18                      | UNAIDS Spectrum - National HIV Estimates 2019 | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                       | 415978 |
| Ghana   | 2000                         | Ghana HIV Sentinel Survey 2000                | GPS               | Ministry of Health (Ghana), National AIDS Control Program (NACP) (Ghana), National Public Health and Reference Laboratory (NHPRL) (Ghana). Ghana HIV Sentinel Survey 2000.                                                            | 355496 |
| Ghana   | 2001                         | Ghana HIV Sentinel Survey 2001                | GPS               | Ministry of Health (Ghana), National AIDS Control Program (NACP) (Ghana), National Public Health and Reference Laboratory (NHPRL) (Ghana). Ghana HIV Sentinel Survey 2001.                                                            | 355494 |
| Ghana   | 2003                         | Ghana HIV Sentinel Survey 2003                | GPS               | Ghana Health Service, National AIDS Control Program (NACP) (Ghana), National Public Health and Reference Laboratory (NHPRL) (Ghana), Noguchi Memorial Institute for Medical Research (NMIMR) (Ghana). Ghana HIV Sentinel Survey 2003. | 355475 |
| Ghana   | 2005                         | Ghana HIV Sentinel Survey 2005                | GPS               | Ghana Health Service, National AIDS Control Program (NACP) (Ghana), National Public Health and Reference Laboratory (NHPRL) (Ghana), Noguchi Memorial Institute for Medical Research (NMIMR) (Ghana). Ghana HIV Sentinel Survey 2005. | 355473 |
| Ghana   | 2006                         | Ghana HIV Sentinel Survey 2006                | GPS               | Ghana Health Service, National AIDS Control Program (NACP) (Ghana), National Public Health and Reference Laboratory (NHPRL) (Ghana), Noguchi Memorial Institute for Medical Research (NMIMR) (Ghana). Ghana HIV Sentinel Survey 2006. | 355458 |
| Guinea  | 2001, 2004, 2008, 2015, 2018 | UNAIDS Spectrum - National HIV Estimates 2019 | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                       | 415978 |
| Guinea  | 2015                         | UNAIDS Spectrum - National HIV Estimates 2016 | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2016. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS).                                                             | 306517 |

| Country       | Years                                          | Source                                        | Geographic Detail | Citation                                                                                                                                                                                                                                                                                                                          | NID*   |
|---------------|------------------------------------------------|-----------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Guinea-Bissau | 2000-05, 2010, 2014                            | UNAIDS Spectrum - National HIV Estimates 2019 | Admin 2           | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                                                                                   | 415978 |
| Kenya         | 2000-11                                        | UNAIDS Spectrum - National HIV Estimates 2018 | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2018. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                                                                                   | 365412 |
| Kenya         | 2010                                           | Kenya ANC HIV Sentinel Survey 2010            | GPS               | Kenya Medical Research Institute (KEMRI), National AIDS and STI Control Programme (NASCOP) (Kenya), National HIV Reference Laboratory (NHRL) (Kenya), National Public Health Laboratory Services, Ministry of Public Health and Sanitation (Kenya), World Health Organization (WHO). Kenya ANC HIV Sentinel Survey 2010.          | 355605 |
| Kenya         | 2011                                           | Kenya ANC HIV Sentinel Survey 2011            | GPS               | Kenya Medical Research Institute (KEMRI), National AIDS and STI Control Programme (NASCOP) (Kenya), National HIV Reference Laboratory (NHRL) (Kenya), National Public Health Laboratory Services, Ministry of Public Health and Sanitation (Kenya), World Health Organization (WHO). Kenya ANC HIV Sentinel Survey 2011.          | 355607 |
| Lesotho       | 2000, 2003, 2005, 2009, 2011, 2013, 2016, 2018 | UNAIDS Spectrum - National HIV Estimates 2019 | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                                                                                   | 415978 |
| Liberia       | 2006-08, 2011, 2013, 2017                      | UNAIDS Spectrum - National HIV Estimates 2019 | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                                                                                   | 415978 |
| Liberia       | 2007-08                                        | Liberia HIV Sentinel Survey 2008              | GPS               | Global Fund to Fight Aids Tuberculosis and Malaria (GFATM), National AIDS and STI Control Program (NACP), Ministry of Health and Social Welfare (Liberia), National Public Health Reference Laboratory (Liberia), United Nations Development Programme (UNDP), World Health Organization (WHO). Liberia HIV Sentinel Survey 2008. | 355669 |

| Country    | Years                        | Source                                                                                                                      | Geographic Detail | Citation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NID*   |
|------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Madagascar | 2003                         | Madagascar Towards Knowledge of its Epidemic: Analysis of the Epidemiological Profile and Determinants of the HIV Infection | GPS               | Executive Secretariat of the National Committee for the Fight against HIV/AIDS (SE CNLS) (Madagascar), Joint United Nations Program on HIV/AIDS (UNAIDS), United States Agency for International Development (USAID), World Bank, World Health Organization (WHO). Madagascar Towards Knowledge of its Epidemic: Analysis of the Epidemiological Profile and Determinants of the HIV Infection. Antananarivo, Madagascar: Executive Secretariat of the National Committee for the Fight against HIV/AIDS (SE CNLS) (Madagascar), 2008. | 355675 |
| Madagascar | 2005                         | Madagascar Biological Surveillance Survey 2005                                                                              | GPS               | Centers for Disease Control and Prevention (CDC), French Cooperation, Joint United Nations Program on HIV/AIDS (UNAIDS), Ministry of Health and Family Planning (Madagascar), National Institute of Public and Community Health (INSPC) (Madagascar), Pasteur Institute of Madagascar (IPM), United Nations Children's Fund (UNICEF), United States Agency for International Development (USAID), World Health Organization (WHO). Madagascar Biological Surveillance Survey 2005.                                                     | 355671 |
| Madagascar | 2005, 2007, 2010-18          | UNAIDS Spectrum - National HIV Estimates 2019                                                                               | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                                                                                                                                                                                                                                                                                        | 415978 |
| Malawi     | 2003                         | Malawi HIV and Syphilis Sentinel Surveillance of Antenatal Clinic Attendees 2003                                            | GPS               | Ministry of Health (Malawi), National AIDS Commission (Malawi). Malawi HIV and Syphilis Sentinel Surveillance of Antenatal Clinic Attendees 2003.                                                                                                                                                                                                                                                                                                                                                                                      | 157140 |
| Malawi     | 2001, 2003, 2005, 2007, 2010 | UNAIDS Spectrum - National HIV Estimates 2019                                                                               | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                                                                                                                                                                                                                                                                                        | 415978 |
| Malawi     | 2001                         | HIV/AIDS in Malawi: 2003 Estimates and Implications                                                                         | GPS               | Ministry of Health and Population (Malawi), National AIDS Commission (Malawi). HIV/AIDS in Malawi: 2003 Estimates and Implications. Lilongwe, Malawi: National AIDS Commission (Malawi).                                                                                                                                                                                                                                                                                                                                               | 355677 |

| Country    | Years                                                   | Source                                                                 | Geographic Detail | Citation                                                                                                                                                                                                                                                                          | NID*   |
|------------|---------------------------------------------------------|------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Malawi     | 2007                                                    | Malawi HIV and Syphilis Sero-Survey of Antenatal Clinic Attendees 2007 | GPS               | Ministry of Health (Malawi), National AIDS Commission (Malawi). Malawi HIV and Syphilis Sero-Survey of Antenatal Clinic Attendees 2007.                                                                                                                                           | 157132 |
| Mali       | 2002-03, 2005, 2007, 2009, 2012                         | UNAIDS Spectrum - National HIV Estimates 2019                          | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                                   | 415978 |
| Mali       | 2007                                                    | Mali HIV and Syphilis Sentinel Surveillance Survey 2007                | GPS               | Centers for Disease Control and Prevention (CDC), INFO-STAT (Mali), Ministry of Health (Mali), National Institute of Public Health Research (INRSP) (Mali), Sectoral Committee for the Fight Against AIDS (CSLS) (Mali). Mali HIV and Syphilis Sentinel Surveillance Survey 2007. | 355931 |
| Mozambique | 2000-02, 2004, 2007, 2009, 2011                         | UNAIDS Spectrum - National HIV Estimates 2019                          | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                                   | 415978 |
| Namibia    | 2000, 2002, 2004, 2006, 2008, 2010, 2012, 2014, 2016-17 | UNAIDS Spectrum - National HIV Estimates 2019                          | Admin 2, GPS      | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                                   | 415978 |
| Namibia    | 2000, 2002, 2004, 2006, 2008, 2010, 2012, 2014, 2016    | UNAIDS Spectrum - National HIV Estimates 2017                          | GPS, Admin 2      | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2017. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2017.                                                                                                   | 317607 |
| Namibia    | 2000                                                    | Namibia Epidemiological Report on HIV/AIDS for the Year 2000           | Admin 2           | National AIDS Coordination Program (Namibia). Namibia Epidemiological Report on HIV/AIDS for the Year 2000. Namibia: National AIDS Coordination Program (Namibia), 2001.                                                                                                          | 356159 |
| Namibia    | 2002                                                    | Namibia National HIV Sentinel Survey 2002                              | Admin 2, GPS      | Ministry of Health and Social Services (Namibia), Namibia Institute of Pathology, National AIDS Coordination Program (Namibia). Namibia National HIV Sentinel Survey 2002.                                                                                                        | 356248 |
| Namibia    | 2014, 2016                                              | UNAIDS Spectrum - National HIV Estimates 2018                          | GPS, Admin 2      | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2018. Geneva,                                                                                                                                                                         | 365412 |



| Country | Years                                 | Source                                                            | Geographic Detail | Citation                                                                                                                                                                        | NID*   |
|---------|---------------------------------------|-------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
|         |                                       |                                                                   |                   | Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                                           |        |
| Niger   | 2000, 2009, 2012, 2014                | UNAIDS Spectrum - National HIV Estimates 2019                     | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018. | 415978 |
| Niger   | 2000                                  | Niger HIV Epidemiological Surveillance Report 2001                | GPS               | National Program for the Fight Against AIDS/STDs (PNLS/MST) (Niger). Niger HIV Epidemiological Surveillance Report 2001.                                                        | 356296 |
| Nigeria | 2000-03, 2005, 2008, 2010, 2014, 2017 | UNAIDS Spectrum - National HIV Estimates 2019                     | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018. | 415978 |
| Nigeria | 2003                                  | Nigeria National HIV Seroprevalence Sentinel Survey 2003          | GPS               | Federal Ministry of Health (Nigeria). Nigeria National HIV Seroprevalence Sentinel Survey 2003.                                                                                 | 152886 |
| Nigeria | 2003, 2005, 2008, 2010, 2014          | UNAIDS Spectrum - National HIV Estimates 2018                     | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2018. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018. | 365412 |
| Nigeria | 2005                                  | Nigeria National HIV/Syphilis Seroprevalence Sentinel Survey 2005 | GPS               | Federal Ministry of Health (Nigeria). Nigeria National HIV/Syphilis Seroprevalence Sentinel Survey 2005.                                                                        | 138348 |
| Nigeria | 2005, 2008, 2010                      | Nigeria National HIV Seroprevalence Sentinel Survey 2010          | GPS               | Federal Ministry of Health (Nigeria). Nigeria National HIV Seroprevalence Sentinel Survey 2010.                                                                                 | 152887 |
| Rwanda  | 2002-03, 2005, 2007, 2011, 2013       | UNAIDS Spectrum - National HIV Estimates 2019                     | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018. | 415978 |
| Rwanda  | 2002-03, 2005, 2007, 2011, 2013       | UNAIDS Spectrum - National HIV Estimates 2016                     | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2016. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS).       | 306517 |
| Rwanda  | 2002                                  | Rwanda HIV Sentinel Surveillance Survey 2002                      | GPS               | Centers for Disease Control and Prevention (CDC), IMPACT Rwanda, Ministry of Health (Rwanda). Rwanda HIV Sentinel Surveillance Survey 2002.                                     | 356349 |

| Country      | Years                           | Source                                                                                                                | Geographic Detail         | Citation                                                                                                                                                                                                                                                                                                | NID*   |
|--------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Senegal      | 2000-01                         | Senegal HIV Prevalence in Men and Pregnant Women by Region 1989-2002                                                  | Admin 1, GPS              | Ministry of Health and Prevention (Senegal). Senegal HIV Prevalence in Men and Pregnant Women by Region 1989-2002.                                                                                                                                                                                      | 356379 |
| Senegal      | 2000-07, 2009, 2011, 2014, 2018 | UNAIDS Spectrum - National HIV Estimates 2019                                                                         | Admin 1, GPS              | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                                                         | 415978 |
| Senegal      | 2002                            | Senegal Sero-Epidemiological Bulletin on HIV Surveillance No. 10, July 2003                                           | Admin 1, GPS              | Ministry of Health and Prevention (Senegal), National Council for the Fight Against AIDS (Senegal). Senegal Sero-Epidemiological Bulletin on HIV Surveillance No. 10, July 2003. Dakar, Senegal: National Council for the Fight Against AIDS (Senegal), 2003.                                           | 356380 |
| Senegal      | 2005-07                         | Senegal Epidemiological Bulletin on Sentinel Surveillance of HIV and Syphilis in Pregnant Women No. 13, November 2008 | Admin 1                   | Ministry of Health and Prevention (Senegal), National Council for the Fight Against AIDS (Senegal). Senegal Epidemiological Bulletin on Sentinel Surveillance of HIV and Syphilis in Pregnant Women No. 13, November 2008. Dakar, Senegal: National Council for the Fight Against AIDS (Senegal), 2008. | 356395 |
| Sierra Leone | 2003, 2006-08, 2010, 2018       | UNAIDS Spectrum - National HIV Estimates 2019                                                                         | GPS                       | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                                                         | 415978 |
| Sierra Leone | 2015                            | UNAIDS Spectrum - National HIV Estimates 2016                                                                         | GPS                       | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2016. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS).                                                                                                                               | 306517 |
| Somalia      | 2004, 2007, 2010-12, 2014, 2016 | UNAIDS Spectrum - National HIV Estimates 2019                                                                         | GPS                       | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                                                         | 415978 |
| South Africa | 2000-14                         | UNAIDS Spectrum - National HIV Estimates 2017                                                                         | Admin 1, Admin 2, Admin 3 | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2017. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2017.                                                                                                                         | 317607 |

| Country      | Years                                    | Source                                                                           | Geographic Detail | Citation                                                                                                                                                                                                                                                                                                                                                                                                               | NID*   |
|--------------|------------------------------------------|----------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| South Africa | 2006-08                                  | South Africa National Antenatal Sentinel HIV and Syphilis Prevalence Survey 2008 | Admin 2, Admin 3  | Department of Health (South Africa). South Africa National Antenatal Sentinel HIV and Syphilis Prevalence Survey 2008.                                                                                                                                                                                                                                                                                                 | 356401 |
| South Sudan  | 2007, 2009, 2012                         | UNAIDS Spectrum - National HIV Estimates 2016                                    | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2016. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS).                                                                                                                                                                                                                                              | 306517 |
| South Sudan  | 2007, 2009, 2012, 2017                   | UNAIDS Spectrum - National HIV Estimates 2019                                    | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                                                                                                                                                                        | 415978 |
| Sudan        | 2004-05, 2007, 2009-10                   | UNAIDS Spectrum - National HIV Estimates 2019                                    | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                                                                                                                                                                        | 415978 |
| Uganda       | 2000-05, 2007, 2009-12, 2014, 2016, 2018 | UNAIDS Spectrum - National HIV Estimates 2019                                    | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                                                                                                                                                                        | 415978 |
| Uganda       | 2000-01, 2003-07, 2009                   | Uganda HIV/AIDS Epidemiological Surveillance Report 2010                         | GPS               | Centers for Disease Control and Prevention (CDC), Medical Research Council (Uganda), Ministry of Health (Uganda), National Institute of Health (Italy), Rakai Health Sciences Program (Uganda), STD/AIDS Control Program, Ministry of Health (Uganda), Uganda Virus Research Institute. Uganda HIV/AIDS Epidemiological Surveillance Report 2010. Uganda: STD/AIDS Control Program, Ministry of Health (Uganda), 2010. | 321955 |
| Uganda       | 2005-07                                  | Uganda HIV/AIDS Epidemiological Surveillance Report 2005-2007                    | GPS               | Centers for Disease Control and Prevention (CDC), Joint United Nations Program on HIV/AIDS (UNAIDS), Medical Research Council (Uganda), Ministry of Health (Uganda), National Institute of Health (Italy), Rakai Health Sciences Program (Uganda), STD/AIDS Control Program, Ministry of Health (Uganda), Uganda AIDS Commission, Uganda Virus Research Institute, United States Agency for International              | 356783 |

| Country  | Years                                       | Source                                                                | Geographic Detail | Citation                                                                                                                                                                                                                                                              | NID*   |
|----------|---------------------------------------------|-----------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
|          |                                             |                                                                       |                   | Development (USAID), World Health Organization (WHO). Uganda HIV/AIDS Epidemiological Surveillance Report 2005-2007. Uganda: STD/AIDS Control Program, Ministry of Health (Uganda), 2009.                                                                             |        |
| Tanzania | 2000-03, 2005, 2008, 2010-11, 2014, 2017-18 | UNAIDS Spectrum - National HIV Estimates 2019                         | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                       | 415978 |
| Tanzania | 2000, 2005, 2008-09, 2011, 2017             | UNAIDS Spectrum - National HIV Estimates 2018                         | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2018. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                       | 365412 |
| Tanzania | 2000-01, 2003, 2005, 2008, 2011             | UNAIDS Spectrum - National HIV Estimates 2017                         | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2017. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2017.                                                                                       | 317607 |
| Togo     | 2001, 2003-04, 2006-11, 2014, 2016          | UNAIDS Spectrum - National HIV Estimates 2019                         | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                       | 415978 |
| Togo     | 2011                                        | Togo National HIV and Syphilis Sentinel Surveillance Survey 2011-2012 | GPS               | Directorate General of Health (DGS) (Togo), Joint United Nations Program on HIV/AIDS (UNAIDS), National Program for the Fight Against HIV/AIDS (PNLS) (Togo), World Health Organization (WHO). Togo National HIV and Syphilis Sentinel Surveillance Survey 2011-2012. | 356774 |
| Zambia   | 2002, 2004, 2006, 2008, 2011, 2018          | UNAIDS Spectrum - National HIV Estimates 2019                         | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                       | 415978 |
| Zimbabwe | 2000-02, 2004, 2006, 2009, 2012, 2016       | UNAIDS Spectrum - National HIV Estimates 2019                         | GPS               | Joint United Nations Program on HIV/AIDS (UNAIDS). UNAIDS Spectrum - National HIV Estimates 2019. Geneva, Switzerland: Joint United Nations Program on HIV/AIDS (UNAIDS), 2018.                                                                                       | 415978 |

## 19 Table S3: HIV and covariates surveys excluded from this analysis

| Country       | Year(s) | Name                                                           | Citation                                                                                                                                                                                                                                                                                                                                          | Excluded from  | Rationale                                                          |
|---------------|---------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------|
| Burundi       | 2002    | Burundi National HIV Infection Seroprevalence Survey 2001      | Training Center for Medical and Infectious Diseases (CEFORMI) (Burundi). Burundi National HIV Infection Seroprevalence Survey 2001.                                                                                                                                                                                                               | HIV Prevalence | This survey report did not include sex and age disaggregated data. |
| Cameroon      | 2017    | Cameroon Population-based HIV Impact Assessment 2017-2018      | Ministry of Health, Cameroon, Centers for Disease Control and Prevention (CDC), and ICAP at Columbia University. Cameroon Population-based HIV Impact Assessment (CAMPRIA) 2017-18: Summary Sheet. Yaoundé, Cameroon, Atlanta, Georgia and New York, New York, USA: Ministry of Health, CDC and ICAP. July 2018.                                  | HIV Prevalence | This survey report did not include sex and age disaggregated data. |
| Chad          | 2005    | Chad National HIV/AIDS Seroprevalence Survey 2005              | Conseil Santé (France), National Institute for Statistics, Economic and Demographic Studies (INSEED) (Chad). Chad National HIV/AIDS Seroprevalence Survey 2005.                                                                                                                                                                                   | HIV Prevalence | This survey report did not include sex and age disaggregated data. |
| Côte d'Ivoire | 2017    | Côte d'Ivoire Population-based HIV Impact Assessment 2017-2018 | Ministry of Health and Public Hygiene, Cote d'Ivoire, Centers for Disease Control and Prevention (CDC), and ICAP at Columbia University. Cote d'Ivoire Population-based HIV Impact Assessment (CIPRIA) 2017-18: Summary Sheet. Abidjan, Cote d'Ivoire, Atlanta, Georgia and New York, New York, USA: Ministry of Health, CDC and ICAP. July 2018. | HIV Prevalence | This survey report did not include sex and age disaggregated data. |

| Country       | Year(s)   | Name                                                                                     | Citation                                                                                                                                                                                                                                                                                                                    | Excluded from  | Rationale                                                          |
|---------------|-----------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------|
| Eswatini      | 2011      | Swaziland HIV Incidence Measurement Survey (SHIMS): Descriptive Data Tables, August 2014 | Centers for Disease Control and Prevention (CDC), ICAP, Columbia University Mailman School of Public Health, Ministry of Health (Swaziland). Swaziland HIV Incidence Measurement Survey (SHIMS): Descriptive Data Tables, August 2014. New York, New York: ICAP, Columbia University Mailman School of Public Health, 2014. | HIV Prevalence | This survey report did not include sex and age disaggregated data. |
| Ethiopia      | 2017-2018 | Ethiopia Population-based HIV Impact Assessment 2017-2018                                | Centers for Disease Control and Prevention (CDC), Central Statistical Agency (Ethiopia), Ethiopian Public Health Institute (EPHI), Government of Ethiopia, ICAP, Columbia University Mailman School of Public Health, Ministry of Health (Ethiopia). Ethiopia Population-Based HIV Impact Assessment 2017-2018.             | HIV Prevalence | This survey report only covered urban areas.                       |
| Guinea-Bissau | 2010      | Guinea-Bissau HIV Prevalence Survey 2010                                                 | Institute of Hygiene and Tropical Medicine, Nova University of Lisbon (Portugal), National Institute of Public Health (INASA) (Guinea-Bissau). Guinea-Bissau HIV Prevalence Survey 2010.                                                                                                                                    | HIV Prevalence | This survey report did not include sex and age disaggregated data. |

| Country      | Year(s)    | Name                                                                        | Citation                                                                                                                                                                                                                                                                                                                                                              | Excluded from  | Rationale                                                                              |
|--------------|------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------|
| Nigeria      | 2018       | Nigeria HIV/AIDS Indicator and Impact Survey 2018                           | Federal Ministry of Health (Nigeria), Government of Nigeria, National Agency for the Control of AIDS (NACA) (Nigeria), University of Maryland. Nigeria HIV/AIDS Indicator and Impact Survey 2018.                                                                                                                                                                     | HIV Prevalence | This survey report did not include sex and age disaggregated data at a granular level. |
| Nigeria      | 2007, 2012 | Nigeria National HIV/AIDS and Reproductive Health Survey                    | Federal Ministry of Health (Nigeria), National Agency for the Control of AIDS (NACA) (Nigeria), National Bureau of Statistics (Nigeria), National Population Commission (NPC), Nigerian Institute of Medical Research, Society for Family Health (Nigeria), University College Hospital, Ibadan. Nigeria National HIV/AIDS and Reproductive Health Survey 2007, 2012. | HIV Prevalence | These surveys provided low data quality and data validation issues.                    |
| Sierra Leone | 2002       | Sierra Leone HIV/AIDS Seroprevalence and Behavioral Risk Factor Survey 2002 | Centers for Disease Control and Prevention (CDC), Government of Sierra Leone, World Bank. Sierra Leone HIV/AIDS Seroprevalence and Behavioral Risk Factor Survey 2002.                                                                                                                                                                                                | HIV Prevalence | This survey report did not include sex and age disaggregated data.<br>.                |
| Sierra Leone | 2005       | Sierra Leone National Population-based HIV Seroprevalence Survey 2005       | Ministry of Health and Sanitation (Sierra Leone), National HIV/AIDS Secretariat (NAS) (Sierra Leone), Nimba Research and Consulting (NiRC) (Ghana), Statistics Sierra Leone. Sierra Leone National Population-Based HIV Seroprevalence Survey 2005.                                                                                                                   | HIV Prevalence | This survey report did not include sex and age disaggregated data.                     |

| Country                                                                                                                                                                          | Year(s)             | Name                                                                                    | Citation                                                                                                                                                                                                                                                                         | Excluded from  | Rationale                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| South Africa                                                                                                                                                                     | 2017                | South Africa National HIV Prevalence, Incidence, Behavior and Communication Survey 2017 | Centers for Disease Control and Prevention (CDC), Human Sciences Research Council, National Institute for Communicable Diseases (South Africa), South African Medical Research Council. South Africa National HIV Prevalence, Incidence, Behavior and Communication Survey 2017. | HIV Prevalence | This survey report did not include sex and age disaggregated data.                                                                                                                                     |
| All countries (Burkina Faso, Chad, Comoros, Congo, Côte d'Ivoire, Ethiopia, Ghana, Kenya, Malawi, Mali, Mauritania, Namibia, Senegal, South Africa, Swaziland, Zambia, Zimbabwe) | All years (2002-04) | World Health Surveys (WHS)                                                              | World Health Organization (WHO). Geneva, Switzerland: World Health Organization (WHO), 2005.                                                                                                                                                                                     | All covariates | Geographic patterns of cluster locations in available microdata are inconsistent with reported maps. Additionally, estimates were considered outliers compared to other surveys in the same countries. |
| Benin                                                                                                                                                                            | 2009                | Benin Household Living Conditions Survey                                                | Benin Household Living Conditions Survey 2009.                                                                                                                                                                                                                                   | 'in union'     | Estimates for 'in union' were implausibly high compared to estimates from other surveys (2006 and 2011 DHS).                                                                                           |
| Botswana                                                                                                                                                                         | 2001 and 2004       | Botswana AIDS Impact Surveys                                                            | Central Statistics Office (Botswana), Ministry of Health (Botswana). Botswana AIDS Impact Survey 2001. Gaborone, Botswana: Statistics Botswana.                                                                                                                                  | 'partner away' | These surveys did not ask the 'partner away' question for respondents who had previously indicated they were living with a partner                                                                     |



| Country      | Year(s) | Name                                     | Citation                                                                                                                                                                                                                                                | Excluded from     | Rationale                                                                                                                                                                                                                                     |
|--------------|---------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |         |                                          | Central Statistics Office (Botswana). Botswana AIDS Impact Survey 2004. Gaborone, Botswana: Statistics Botswana.                                                                                                                                        |                   | and survey estimates were implausibly low compared to estimates from the same survey series in later years (2008 and 2013).                                                                                                                   |
| Burkina Faso | 2005    | Burkina Faso CWIQ Survey                 | National Institute of Statistics and Demography (Burkina Faso), World Bank. Burkina Faso Core Welfare Indicators Questionnaire Survey 2005. Ouagadougou, Burkina Faso: National Institute of Statistics and Demography (Burkina Faso)                   | 'in union'        | Implausibly low estimates as compared to DHS 2005                                                                                                                                                                                             |
| Burundi      | 2005    | Multiple Indicator Cluster Survey (MICS) | United Nations Children's Fund (UNICEF), Burundi Institute of Statistics and Economic Studies, United Nations Population Fund (UNFPA). Burundi Multiple Indicator Cluster Survey 2005. New York, United States: United Nations Children's Fund (UNICEF) | 'in union'        | Implausibly low estimates as compared to other surveys                                                                                                                                                                                        |
| Cameroon     | 2006    | Multiple Indicator Cluster Survey (MICS) | United Nations Children's Fund (UNICEF), National Institute of Statistics (Cameroon). Cameroon Multiple Indicator Cluster Survey 2006. New York, United States: United Nations Children's Fund (UNICEF).                                                | 'had intercourse' | Estimates for 'had intercourse' were implausibly lower than estimates from other surveys (2004 DHS and 2011 DHS) and, in comparison with published reports for this survey, it appears missing responses were marked as false values for this |

| Country                          | Year(s)                                | Name                                                     | Citation                                                                                                                                                                                                                                                                                                                                                                                     | Excluded from     | Rationale                                                                                                                                                      |
|----------------------------------|----------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                  |                                        |                                                          |                                                                                                                                                                                                                                                                                                                                                                                              |                   | indicator in reports with no explanation.                                                                                                                      |
| Central African Republic         | 2000                                   | Multiple Indicator Cluster Survey (MICS)                 | Division of Statistics and Economic Studies (Central African Republic), Ministry of Economy, Planning and International Cooperation (Central African Republic), United Nations Children's Fund (UNICEF). Central African Republic Multiple Indicator Cluster Survey 2000. New York, United States: United Nations Children's Fund (UNICEF)                                                   | 'in union'        | Implausibly low estimates as compared to other surveys in later years.                                                                                         |
| Democratic Republic of the Congo | 2013-14, 2014, 2015, 2015-16, and 2016 | Performance, Monitoring, and Accountability Survey (PMA) | Performance Monitoring and Accountability 2020 (PMA2020) Project, University of Kinshasa School of Public Health, Tulane University School of Public Health and Tropical Medicine. 2013, 2014, 2015, 2016. Democratic Republic of the Congo. Baltimore, MD: PMA2020, Bill & Melinda Gates Institute for Population and Reproductive Health, Johns Hopkins Bloomberg School of Public Health. | 'in union'        | Estimates for 'in union' were implausibly high compared to estimates from other surveys (2001 and 2010 MICS, 2007 and 2013-2014 DHS).                          |
| Ghana                            | 2007-08                                | Multiple Indicator Cluster Survey (MICS)                 | Ghana Statistical Service, Ministry of Health (Ghana), United Nations Children's Fund (UNICEF). Ghana District Multiple Indicator Cluster Survey 2007-2008.                                                                                                                                                                                                                                  | 'had intercourse' | Survey data had zero explicit 'never had intercourse' responses, so survey estimates are implausibly low compared to estimates from other surveys (2003, 2008, |

| Country | Year(s)   | Name                                                                               | Citation                                                                                                                                                                                                                                 | Excluded from | Rationale                                                                                                                 |
|---------|-----------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------|
|         |           |                                                                                    |                                                                                                                                                                                                                                          |               | and 2014 DHS and 2006 MICS).                                                                                              |
| Kenya   | 2005-2006 | Kenya Integrated HH Budget Survey                                                  | Kenya National Bureau of Statistics. Kenya Integrated Household Budget Survey Tabular Data 2005-2006. Nairobi, Kenya: Kenya National Bureau of Statistics.                                                                               | 'in union'    | Implausibly low estimates as compared to other surveys.                                                                   |
| Kenya   | 2015      | STEPS Noncommunicable Disease Risk Factors Survey                                  | Kenya National Bureau of Statistics, Ministry of Health (Kenya), World Health Organization (WHO). Kenya STEPS Noncommunicable Disease Risk Factors Survey 2015.                                                                          | 'in union'    | Estimates for 'in union' were implausibly high compared to estimates from other surveys (2008 DHS and 2014 and 2015 PMA). |
| Malawi  | 2013      | Malawi Integrated HH Survey                                                        | National Statistical Office of Malawi. Malawi Integrated Household Survey 2013 (IHS3 - Year: 2). Dataset downloaded from [ <a href="http://go.worldbank.org/NOXNI9YDS0">http://go.worldbank.org/NOXNI9YDS0</a> ] on [September 15, 2015] | 'in union'    | Implausibly low estimates as compared to other surveys in neighbouring years.                                             |
| Mali    | 2014-15   | Living Standards Measurement Study – Integrated Survey on Agriculture (LSMS – ISA) | Ministry of Rural Development (Mali), National Institute of Statistics (INSTAT) (Mali), World Bank. Mali Agricultural Integrated Economic Survey 2014-2015. Washington DC, United States: World Bank.                                    | 'in union'    | Estimates for 'in union' were implausibly low compared to other surveys (2012 DHS, 2015 MICS, and 2015 MIS).              |
| Namibia | 2009-2010 | Namibia Household Income and Expenditure Survey                                    | Namibia Statistics Agency. Namibia Household Income and Expenditure Survey 2009-2010. Windhoek, Namibia: Namibia Statistics Agency.                                                                                                      | 'in union'    | Estimates for 'in union' were implausibly low compared to other surveys (2006 and 2013 DHS).                              |

| Country      | Year(s)       | Name                                                 | Citation                                                                                                                                                                                                                                                                                                                                   | Excluded from                                                                                               | Rationale                                                                                                                                  |
|--------------|---------------|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Nigeria      | 2007 and 2012 | National HIV/AIDS and Reproductive Health Survey     | Federal Ministry of Health (Nigeria), National Bureau of Statistics (Nigeria), National Population Commission (NPC), Society for Family Health (Nigeria), University College Hospital, Ibadan. Nigeria National HIV/AIDS and Reproductive Health Surveys 2007 and 2012.                                                                    | 'male circumcision', 'sti symptoms', 'had intercourse', 'multiple partners-men', multiple partners – women' | Estimates for 'male circumcision' were implausibly lower than estimates from other survey series (2008 DHS, 2013 DHS, and 2016-2017 MICS). |
| Nigeria      | 2008-10       | Living Standards Survey                              | National Bureau of Statistics (Nigeria). Nigeria Living Standards Survey 2008-2010. Abuja, Nigeria: National Bureau of Statistics (Nigeria).                                                                                                                                                                                               | 'male circumcision'                                                                                         | Estimates for 'male circumcision' were implausibly lower than estimates from other survey series (2008 DHS, 2013 DHS, and 2016-2017 MICS). |
| Nigeria      | 2012-2013     | Nigeria General HH Survey                            | National Bureau of Statistics (Nigeria). Nigeria General Household Survey 2012-2013. Washington DC, United States: World Bank                                                                                                                                                                                                              | 'in union'                                                                                                  | Implausibly low estimates as compared to other surveys in neighbouring years.                                                              |
| South Africa | All years     | International Social Science Survey Programme (ISSP) | ISSP Research Group (2009): International Social Survey Programme: Leisure Time and Sports - ISSP 2007. GESIS Data Archive, Cologne. ZA4850 Data file version 2.0.0, doi:10.4231/1.10079.<br><br>ISSP Research Group (2008): International Social Survey Programme: Role of Government IV - ISSP 2006. GESIS Data Archive, Cologne. ZA4700 | 'in union'                                                                                                  | Estimates for 'in union' were consistently low for this survey series compared to all other surveys in country.                            |

| Country | Year(s) | Name | Citation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Excluded from | Rationale |
|---------|---------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------|
|         |         |      | <p>Data file Version 1.0.0, doi:10.4232/1.4700.</p> <p>ISSP Research Group (2012): International Social Survey Programme: Religion III - ISSP 2008. GESIS Data Archive, Cologne. ZA4950 Data file Version 2.2.0, doi:10.4232/1.11334.</p> <p>ISSP Research Group (2017): International Social Survey Programme: Social Inequality IV - ISSP 2009. GESIS Data Archive, Cologne. ZA5400 Data file Version 4.0.0, doi:10.4232/1.12777.</p> <p>ISSP Research Group (2012): International Social Survey Programme: Environment III - ISSP 2010. GESIS Data Archive, Cologne. ZA5500 Data file Version 2.0.0, doi:10.4232/1.11418.</p> <p>ISSP Research Group (2016): International Social Survey Programme: Family and Changing Gender Roles IV - ISSP 2012. GESIS Data Archive, Cologne. ZA5900 Data file Version 4.0.0, doi:10.4232/1.12661.</p> <p>ISSP Research Group (2012): International Social Survey Programme: Citizenship - ISSP 2004. GESIS Data Archive, Cologne. ZA3950 Data file Version 1.3.0, doi:10.4232/1.11372.</p> |               |           |

| Country | Year(s) | Name                                                                                       | Citation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Excluded from | Rationale                                                                                              |
|---------|---------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------------------------------|
|         |         |                                                                                            | <p>ISSP Research Group (2013):<br/>International Social Survey Programme:<br/>Work Orientation III - ISSP 2005. GESIS<br/>Data Archive, Cologne. ZA4350 Data<br/>file Version 2.0.0, doi:10.4232/1.11648.</p> <p>ISSP Research Group (2015):<br/>International Social Survey Programme:<br/>National Identity III - ISSP 2013. GESIS<br/>Data Archive, Cologne. ZA5950 Data<br/>file Version 2.0.0, doi:10.4232/1.12312.</p> <p>ISSP Research Group (2016):<br/>International Social Survey Programme:<br/>Citizenship II - ISSP 2014. GESIS Data<br/>Archive, Cologne. ZA6670 Data file<br/>Version 2.0.0, doi:10.4232/1.12590.</p> |               |                                                                                                        |
| Uganda  | 2009-10 | Uganda Living Standards Measurement Survey – Integrated Survey on Agriculture (LSMS – ISA) | Uganda Bureau of Statistics. Uganda Living Standards Measurement Survey - Integrated Survey on Agriculture 2009-2010. Washington DC, United States: World Bank.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 'in union'    | Estimates for 'in union' were implausibly low compared to other surveys (2006 and 2011 DHS, 2011 AIS). |

21 Table S4: Sources for pre-existing covariates

| Covariate                                             | Temporal resolution | Source                                                                                           | Reference                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Travel time to nearest settlement >50,000 inhabitants | Static              | Malaria Atlas Project, Big Data Institute, Nuffield Department of Medicine, University of Oxford | Weiss, D. J. et al. A global map of travel time to cities to assess inequalities in accessibility in 2015. <i>Nature</i> 533, 333-336 (2018).                                                                                                                                                                                                                                            |
| Night-time lights                                     | Annual, 2000-13     | NOAA DMSP                                                                                        | P Savory et al. Intercalibration and Gaussian Process Modeling of Nighttime Lights Imagery for Measuring Urbanization Trends in Africa 2000–2013. <i>Remote Sens.</i> 9 (2017).                                                                                                                                                                                                          |
| Urbanicity                                            | Annual, 2000-16     | European Commission/ GHS                                                                         | Pesaresi, M. et al. Operating procedure for the production of the Global Human Settlement Layer from Landsat data of the epochs 1975, 1990, 2000, and 2014. Publications Office of the European Union (2016).                                                                                                                                                                            |
| Malaria incidence                                     | Annual, 2000-17     | Malaria Atlas Project                                                                            | Bhatt, S. et al. The effect of malaria control on <i>Plasmodium falciparum</i> in Africa between 2000 and 2015. <i>Nature</i> 526, 207–211 (2015).                                                                                                                                                                                                                                       |
| Population                                            | Annual, 2000-18     | WorldPop                                                                                         | Lloyd, C. T. et al. Global spatio-temporally harmonised datasets for producing high-resolution gridded population distribution datasets, Big Earth Data, DOI: 10.1080/20964471.2019.1625151 (2019).<br><br>World Pop. Get data. Available at: <a href="http://www.worldpop.org.uk/data/get_data/">http://www.worldpop.org.uk/data/get_data/</a> . (Accessed: 3 <sup>rd</sup> March 2020) |

22

23 Table S5: HIV covariate survey data (2000–2018)

| Country | Years | Name                                                     | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                   | NID    |
|---------|-------|----------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Angola  | 2001  | Angola Multiple Indicator Cluster Survey 2001            | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | National Institute of Statistics (Angola), United Nations Children's Fund (UNICEF). Angola Multiple Indicator Cluster Survey 2001. New York, United States of America: United Nations Children's Fund (UNICEF).            | 687    |
| Angola  | 2006  | Angola Core Welfare Indicators Questionnaire Survey 2005 | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | National Institute of Statistics (Angola). Angola Core Welfare Indicators Questionnaire Survey 2005. Luanda, Angola: National Institute of Statistics (Angola).                                                            | 151566 |
| Angola  | 2011  | Angola Core Welfare Indicators Questionnaire Survey 2011 | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Ministry of Planning and Territorial Development (Angola), National Institute of Statistics (Angola). Angola Core Welfare Indicators Questionnaire Survey 2011. Luanda, Angola: National Institute of Statistics (Angola). | 151568 |



| Country | Years   | Name                                           | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                        | NID    |
|---------|---------|------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Angola  | 2015-16 | Angola Demographic and Health Survey 2015-2016 | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF International, Ministry of Health (Angola), National Institute of Statistics (Angola), United Nations Children's Fund (UNICEF). Angola Demographic and Health Survey 2015-2016. Fairfax, United States of America: ICF International, 2017. | 218555 |
| Benin   | 2001    | Benin Demographic and Health Survey 2001       | Survey microdata | GPS               |                   |              | X               | X            |                  |                                   | X                                   |          | National Institute of Statistics and Economic Analysis (INSAE) (Benin), ORC Macro. Benin Demographic and Health Survey 2001. Fairfax, United States of America: ICF International.                                                              | 18950  |
| Benin   | 2006    | Benin Demographic and Health Survey 2006       | Survey microdata | Admin 1           | X                 | X            | X               | X            | X                | X                                 |                                     | X        | Macro International, Inc, National Institute of Statistics and Economic Analysis (INSAE) (Benin), National Program Against AIDS (PNLS) (Benin). Benin Demographic and Health Survey 2006. Fairfax, United States of America: ICF International. | 18959  |

| Country | Years   | Name                                                                     | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                        | NID    |
|---------|---------|--------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Benin   | 2011-12 | Benin Demographic and Health Survey 2011-2012                            | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF International, National Institute of Statistics and Economic Analysis (INSAE) (Benin), National Program Against AIDS (PNLS) (Benin). Benin Demographic and Health Survey 2011-2012. Fairfax, United States of America: ICF International, 2014.                                                                                             | 79839  |
| Benin   | 2012    | Benin Integrated Modular Survey on Household Living Conditions 2011-2012 | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Danish International Development Agency (DANIDA), German Society for International Cooperation (GIZ), National Institute of Statistics and Economic Analysis (INSAE) (Benin). Benin Integrated Modular Survey on Household Living Conditions 2011-2012. Cotonou, Benin: National Institute of Statistics and Economic Analysis (INSAE) (Benin). | 151805 |
| Benin   | 2014    | Benin Multiple Indicator Cluster Survey 2014                             | Survey microdata | Admin 1           | X                 |              | X               |              | X                | X                                 | X                                   | X        | National Institute of Statistics and Economic Analysis (INSAE) (Benin), United Nations Children's Fund (UNICEF). Benin Multiple Indicator Cluster Survey 2014. New York, United States of America: United Nations Children's Fund (UNICEF), 2017.                                                                                               | 206075 |

| Country  | Years   | Name                                            | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                                                                  | NID    |
|----------|---------|-------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Benin    | 2017-18 | Benin Demographic and Health Survey 2017-2018   | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Hubert Koutoukou Maga National University Hospital Center (CNHU-HKM)(Benin), ICF International, National Institute of Statistics and Economic Analysis (INSAE) (Benin), National Malaria Control Program, Ministry of Health (Benin), Permanent Secretariat of the Food Council and Nutrition (SP-CAN)(Benin). Benin Demographic and Health Survey 2017-2018. Fairfax, United States of America: ICF International, 2018. | 218565 |
| Botswana | 2000    | Botswana Multiple Indicator Cluster Survey 2000 | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Central Statistics Office (Botswana), United Nations Children's Fund (UNICEF). Botswana Multiple Indicator Cluster Survey 2000. New York, United States of America: United Nations Children's Fund (UNICEF), 2015.                                                                                                                                                                                                        | 1404   |
| Botswana | 2001    | Botswana AIDS Impact Survey 2001                | Survey microdata | Admin 2, Admin <1 | X                 | X            | X               |              | X                |                                   |                                     | X        | Central Statistics Office (Botswana), Ministry of Health (Botswana). Botswana AIDS Impact Survey 2001. Gaborone, Botswana: Statistics Botswana.                                                                                                                                                                                                                                                                           | 22112  |

| Country  | Years   | Name                                    | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                             | NID   |
|----------|---------|-----------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Botswana | 2004    | Botswana AIDS Impact Survey 2004        | Survey microdata | GPS               | X                 | X            | X               |              | X                | X                                 | X                                   | X        | Central Statistics Office (Botswana). Botswana AIDS Impact Survey 2004. Gaborone, Botswana: Statistics Botswana.                                                     | 22114 |
| Botswana | 2007-08 | Botswana Family Health Survey 2007-2008 | Survey microdata | Admin 3, GPS      |                   |              | X               |              |                  |                                   |                                     | X        | Central Statistics Office (Botswana). Botswana Family Health Survey 2007-2008. Gaborone, Botswana: Central Statistics Office (Botswana), 2009.                       | 22125 |
| Botswana | 2008    | Botswana AIDS Impact Survey 2008        | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Central Statistics Office (Botswana), National AIDS Coordinating Agency (Botswana). Botswana AIDS Impact Survey 2008. Gaborone, Botswana: Statistics Botswana, 2015. | 22116 |

| Country      | Years | Name                                                           | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                               | NID    |
|--------------|-------|----------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Botswana     | 2010  | Botswana Core Welfare Indicators Survey 2009-2010              | Survey microdata | Admin 3, GPS      |                   |              |                 |              |                  |                                   |                                     | X        | Central Statistics Office (Botswana). Botswana Core Welfare Indicators Survey 2009-2010.                                                                                                                                               | 151536 |
| Botswana     | 2013  | Botswana AIDS Impact Survey 2013                               | Survey microdata | GPS               | X                 | X            | X               |              | X                | X                                 | X                                   | X        | Ministry of Health (Botswana), National AIDS Coordinating Agency (Botswana), Statistics Botswana. Botswana AIDS Impact Survey 2013. Gaborone, Botswana: Statistics Botswana, 2015.                                                     | 134753 |
| Burkina Faso | 2003  | Burkina Faso Core Welfare Indicators Questionnaire Survey 2003 | Survey microdata | Admin 3, GPS      |                   |              |                 |              |                  |                                   |                                     | X        | National Institute of Statistics and Demography (Burkina Faso), World Bank. Burkina Faso Core Welfare Indicators Questionnaire Survey 2003. Ouagadougou, Burkina Faso: National Institute of Statistics and Demography (Burkina Faso). | 1855   |

| Country      | Years | Name                                                           | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                   | NID   |
|--------------|-------|----------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Burkina Faso | 2003  | Burkina Faso Demographic and Health Survey 2003                | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Macro International, Inc, National Institute of Statistics and Demography (Burkina Faso). Burkina Faso Demographic and Health Survey 2003. Fairfax, United States of America: ICF International.                                           | 19088 |
| Burkina Faso | 2006  | Burkina Faso Multiple Indicator Cluster Survey 2006            | Survey microdata | GPS               |                   |              | X               |              |                  |                                   | X                                   |          | National Institute of Statistics and Demography (Burkina Faso), United Nations Children's Fund (UNICEF). Burkina Faso Multiple Indicator Cluster Survey 2006. New York, United States of America: United Nations Children's Fund (UNICEF). | 1927  |
| Burkina Faso | 2007  | Burkina Faso Core Welfare Indicators Questionnaire Survey 2007 | Survey microdata | Admin 3, GPS      |                   |              |                 |              |                  |                                   |                                     | X        | National Institute of Statistics and Demography (INSD). Burkina Faso Core Welfare Indicators Questionnaire Survey 2007. Ouagadougou, Burkina Faso: National Institute of Statistics and Demography (INSD), 2008.                           | 18499 |

| Country      | Years | Name                                                                             | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                                                       | NID    |
|--------------|-------|----------------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Burkina Faso | 2010  | Burkina Faso Demographic and Health Survey 2010-2011                             | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF Macro, Ministry of Health (Burkina Faso), National Institute of Statistics and Demography (Burkina Faso). Burkina Faso Demographic and Health Survey 2010-2011. Fairfax, United States of America: ICF International.                                                                                                                                                                                      | 19133  |
| Burkina Faso | 2014  | Burkina Faso Malaria Indicator Survey 2014                                       | Survey microdata | GPS               |                   |              |                 |              |                  |                                   |                                     | X        | ICF International, National Center for Research and Training on Malaria (CNRFP) (Burkina Faso), National Institute of Statistics and Demography (Burkina Faso), National Program for the Fight Against Malaria (PNLP) (Burkina Faso). Burkina Faso Malaria Indicator Survey 2014. Fairfax, United States of America: ICF International, 2015.                                                                  | 188785 |
| Burkina Faso | 2014  | Burkina Faso Performance Monitoring and Accountability 2020 Survey, Round 1 2014 | Survey microdata | Admin 1           |                   |              | X               | X            |                  |                                   |                                     | X        | Institut Supérieur des Sciences de la Population, Université Joseph Ki-Zerbo, Ouagadougou, Burkina Faso, and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey Round 1, PMA2014/Burkina Faso-R1. 2014. Ouagadougou, Burkina Faso and Baltimore, Maryland, USA. | 257044 |

| Country      | Years | Name                                                                                  | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                                                       | NID    |
|--------------|-------|---------------------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Burkina Faso | 2015  | Burkina Faso Performance Monitoring and Accountability 2020 Survey, Round 2 2015      | Survey microdata | Admin 1           |                   |              | X               | X            |                  |                                   |                                     | X        | Institut Supérieur des Sciences de la Population, Université Joseph Ki-Zerbo, Ouagadougou, Burkina Faso, and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey Round 2, PMA2015/Burkina Faso-R2. 2015. Ouagadougou, Burkina Faso and Baltimore, Maryland, USA. | 257045 |
| Burkina Faso | 2016  | Burkina Faso Performance Monitoring and Accountability 2020 Survey, Round 3 2016      | Survey microdata | Admin 1           |                   |              | X               | X            |                  |                                   |                                     | X        | Institut Supérieur des Sciences de la Population, Université Joseph Ki-Zerbo, Ouagadougou, Burkina Faso, and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey Round 3, PMA2016/Burkina Faso-R3. 2016. Ouagadougou, Burkina Faso and Baltimore, Maryland, USA. | 285993 |
| Burkina Faso | 2016  | Burkina Faso Performance Monitoring and Accountability 2020 Survey, Round 4 2016-2017 | Survey microdata | Admin 1           |                   |              | X               | X            |                  |                                   |                                     | X        | Institut Supérieur des Sciences de la Population, Université Joseph Ki-Zerbo, Ouagadougou, Burkina Faso, and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey Round 4, PMA2016/Burkina Faso-R4. 2016. Ouagadougou, Burkina Faso and Baltimore, Maryland, USA. | 307751 |



| Country      | Years | Name                                                                                  | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                                                       | NID    |
|--------------|-------|---------------------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Burkina Faso | 2018  | Burkina Faso Performance Monitoring and Accountability 2020 Survey, Round 6 2018-2019 | Survey microdata | Admin 1           |                   |              | X               |              |                  |                                   |                                     | X        | Institut Supérieur des Sciences de la Population, Université Joseph Ki-Zerbo, Ouagadougou, Burkina Faso, and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey Round 6, PMA2018/Burkina Faso-R6. 2018. Ouagadougou, Burkina Faso and Baltimore, Maryland, USA. | 407829 |
| Burundi      | 2000  | Burundi Multiple Indicator Cluster Survey 2000                                        | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Burundi Institute of Statistics and Economic Studies, United Nations Children's Fund (UNICEF). Burundi Multiple Indicator Cluster Survey 2000. New York, United States: United Nations Children's Fund (UNICEF).                                                                                                                                                                                               | 1994   |
| Burundi      | 2005  | Burundi Multiple Indicator Cluster Survey 2005                                        | Survey microdata | Admin 3           |                   |              | X               |              | X                | X                                 |                                     |          | United Nations Children's Fund (UNICEF), Burundi Institute of Statistics and Economic Studies, United Nations Population Fund (UNFPA). Burundi Multiple Indicator Cluster Survey 2005. New York, United States: United Nations Children's Fund (UNICEF).                                                                                                                                                       | 1981   |

| Country  | Years   | Name                                            | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                              | NID    |
|----------|---------|-------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Burundi  | 2010-11 | Burundi Demographic and Health Survey 2010-2011 | Survey microdata | GPS               | X                 | X            | X               |              | X                | X                                 | X                                   | X        | Burundi Institute of Statistics and Economic Studies, ICF International, Ministry of Public Health and the Fight Against AIDS (Burundi). Burundi Demographic and Health Survey 2010-2011. Fairfax, United States of America: ICF International, 2012.                 | 30431  |
| Burundi  | 2016-17 | Burundi Demographic and Health Survey 2016-2017 | Survey microdata | GPS               | X                 | X            | X               |              | X                | X                                 | X                                   | X        | Burundi Institute of Statistics and Economic Studies, ICF International, Ministry of Public Health and the Fight Against AIDS (Burundi). Burundi Demographic and Health Survey 2016-2017. Fairfax, United States of America: ICF International, 2018.                 | 286766 |
| Cameroon | 2000    | Cameroon Multiple Indicator Cluster Survey 2000 | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Directorate of Statistics and National Accounts, Ministry of Economics and Finance (Cameroon), United Nations Children's Fund (UNICEF). Cameroon Multiple Indicator Cluster Survey 2000. New York, United States of America: United Nations Children's Fund (UNICEF). | 2053   |

| Country  | Years | Name                                            | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                              | NID   |
|----------|-------|-------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Cameroon | 2001  | Cameroon Household Survey 2001                  | Survey microdata | Admin 1, Admin 7  |                   |              |                 |              |                  |                                   |                                     | X        | National Institute of Statistics (Cameroon), Directorate of Statistics and National Accounts, Ministry of Economics and Finance (Cameroon), AFRISTAT. Cameroon Household Survey 2001. Yaounde, Cameroon: National Institute of Statistics (Cameroon). | 2039  |
| Cameroon | 2004  | Cameroon Demographic and Health Survey 2004     | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Macro International, Inc, National Institute of Statistics (Cameroon). Cameroon Demographic and Health Survey 2004. Fairfax, United States of America: ICF International.                                                                             | 19211 |
| Cameroon | 2006  | Cameroon Multiple Indicator Cluster Survey 2006 | Survey microdata | Admin 1, Admin 3  |                   |              |                 |              |                  |                                   | X                                   | X        | United Nations Children's Fund (UNICEF), National Institute of Statistics (Cameroon). Cameroon Multiple Indicator Cluster Survey 2006. New York, United States: United Nations Children's Fund (UNICEF).                                              | 2063  |

| Country                  | Years | Name                                                            | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                | NID    |
|--------------------------|-------|-----------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Cameroon                 | 2011  | Cameroon Demographic and Health Survey 2011                     | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF International, Ministry of Economy, Planning and Regional Development (Cameroon), Ministry of Public Health (Cameroon), National Institute of Statistics (Cameroon), Pasteur Center of Cameroon. Cameroon Demographic and Health Survey 2011. Fairfax, United States of America: ICF International. | 19274  |
| Cameroon                 | 2014  | Cameroon Multiple Indicator Cluster Survey 2014                 | Survey microdata | Admin 1, Admin 3  |                   |              | X               |              | X                | X                                 | X                                   | X        | Ministry of Public Health (Cameroon), National Institute of Statistics (Cameroon), United Nations Children's Fund (UNICEF). Cameroon Multiple Indicator Cluster Survey 2014. New York, United States of America: United Nations Children's Fund (UNICEF), 2017.                                         | 244455 |
| Central African Republic | 2006  | Central African Republic Multiple Indicator Cluster Survey 2006 | Survey microdata | Admin 1           | X                 |              | X               |              | X                | X                                 | X                                   | X        | United Nations Children's Fund (UNICEF). Central African Republic Multiple Indicator Cluster Survey 2006. New York, United States: United Nations Children's Fund (UNICEF).                                                                                                                             | 2223   |

| Country                  | Years | Name                                                                 | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                        | NID   |
|--------------------------|-------|----------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Central African Republic | 2010  | Central African Republic Multiple Indicator Cluster Survey 2010-2011 | Survey microdata | Admin 1           |                   |              | X               |              | X                | X                                 | X                                   | X        | Central African Institute of Statistics, Economic and Social Studies (ICASEES) (Central African Republic), ICF International. Central African Republic Multiple Indicator Cluster Survey 2010-2011. Fairfax, United States of America: ICF International, 2013. | 82832 |
| Chad                     | 2000  | Chad Multiple Indicator Cluster Survey 2000                          | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | United Nations Children's Fund (UNICEF), Census Bureau (Chad), National Institute of Statistical, Economic and Demographic Studies (Chad). Chad Multiple Indicator Cluster Survey 2000. New York, United States: United Nations Children's Fund (UNICEF).       | 2244  |
| Chad                     | 2004  | Chad Demographic and Health Survey 2004                              | Survey microdata | Admin 1           | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Macro International, Inc, National Institute for Statistics, Economic and Demographic Studies (INSEED) (Chad). Chad Demographic and Health Survey 2004. Fairfax, United States of America: ICF International.                                                   | 19315 |

| Country | Years   | Name                                           | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                           | NID    |
|---------|---------|------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Chad    | 2010    | Chad Multiple Indicator Cluster Survey 2010    | Survey microdata | Admin 2           |                   |              | X               |              |                  |                                   | X                                   |          | Ministry of Planning, Economy, and International Cooperation (Chad), National Institute for Statistics, Economic and Demographic Studies (INSEED) (Chad), United Nations Children's Fund (UNICEF). Chad Multiple Indicator Cluster Survey 2010. New York, United States of America: United Nations Children's Fund (UNICEF), 2014. | 76701  |
| Chad    | 2014-15 | Chad Demographic and Health Survey 2014-2015   | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF International, National Institute for Statistics, Economic and Demographic Studies (INSEED) (Chad). Chad Demographic and Health Survey 2014-2015. Fairfax, United States of America: ICF International, 2016.                                                                                                                  | 157025 |
| Comoros | 2000    | Comoros Multiple Indicator Cluster Survey 2000 | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | United Nations Development Programme (UNDP), United Nations Children's Fund (UNICEF). Comoros Multiple Indicator Cluster Survey 2000. New York, United States: United Nations Children's Fund (UNICEF).                                                                                                                            | 3114   |

| Country | Years | Name                                            | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                     | NID   |
|---------|-------|-------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Comoros | 2012  | Comoros Demographic and Health Survey 2012-2013 | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | General Directorate of Statistics and Forecasting (Comoros), ICF International. Comoros Demographic and Health Survey 2012-2013. Fairfax, United States of America: ICF International.       | 76850 |
| Congo   | 2005  | Congo Demographic and Health Survey 2005        | Survey microdata | Admin 1           |                   | X            | X               | X            | X                | X                                 | X                                   | X        | Macro International, Inc, National Center for Statistics and Economic Studies (Congo, Rep.). Congo Demographic and Health Survey 2005. Fairfax, United States of America: ICF International. | 19391 |
| Congo   | 2009  | Congo AIDS Indicator Survey 2009                | Survey microdata | Admin 1           | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF Macro, National Center for Statistics and Economic Studies (Congo, Rep.). Congo AIDS Indicator Survey 2009. Fairfax, United States of America: ICF International.                        | 3133  |

| Country       | Years   | Name                                                 | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                             | NID    |
|---------------|---------|------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Congo         | 2011    | Congo Demographic and Health Survey 2011-2012        | Survey microdata | Admin 1           | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF International, Ministry of Health (Congo, Rep.), National Center for Statistics and Economic Studies (Congo, Rep.). Congo Demographic and Health Survey 2011-2012. Fairfax, United States of America: ICF International.                                                                                         | 56151  |
| Congo         | 2014-15 | Congo Multiple Indicator Cluster Survey 2014-2015    | Survey microdata | Admin 1           | X                 |              |                 |              |                  |                                   |                                     |          | National Institute of Statistics (INS) (Congo, Rep.), United Nations Children's Fund (UNICEF). Congo Multiple Indicator Cluster Survey 2014-2015. New York, United States of America: United Nations Children's Fund (UNICEF), 2018.                                                                                 | 234733 |
| Côte d'Ivoire | 2000    | Côte d'Ivoire Multiple Indicator Cluster Survey 2000 | Survey microdata | Admin >1          |                   |              |                 |              |                  |                                   |                                     | X        | National School for Statistics and Economics Applied (ENSEA), United Nations Children's Fund (UNICEF), United Nations Educational, Scientific and Cultural Organization (UNESCO). Côte d'Ivoire Multiple Indicator Cluster Survey 2000. New York, United States of America: United Nations Children's Fund (UNICEF). | 26444  |



| Country       | Years   | Name                                                  | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                              | NID    |
|---------------|---------|-------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Côte d'Ivoire | 2005    | Côte d'Ivoire AIDS Indicator Survey 2005              | Survey microdata | Admin >1          | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | CDC Retro-CI, Ministry of the Fight Against AIDS (Côte d'Ivoire), National Institute of Statistics (Côte d'Ivoire), ORC Macro. Côte d'Ivoire AIDS Indicator Survey 2005. Fairfax, United States of America: ICF International.        | 56148  |
| Côte d'Ivoire | 2011-12 | Côte d'Ivoire Demographic and Health Survey 2011-2012 | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF International, Ministry of the Fight Against AIDS (Côte d'Ivoire), National Institute of Statistics (Côte d'Ivoire). Côte d'Ivoire Demographic and Health Survey 2011-2012. Fairfax, United States of America: ICF International. | 18533  |
| Côte d'Ivoire | 2016    | Cote d'Ivoire Multiple Indicator Cluster Survey 2016  | Survey microdata | Admin >1          |                   |              | X               |              | X                | X                                 | X                                   | X        | National Institute of Statistics (Côte d'Ivoire), United Nations Children's Fund (UNICEF). Cote d'Ivoire Multiple Indicator Cluster Survey 2016. New York, United States of America: United Nations Children's Fund (UNICEF), 2018.   | 218611 |

| Country                          | Years | Name                                                                              | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NID    |
|----------------------------------|-------|-----------------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Côte d'Ivoire                    | 2018  | Cote d'Ivoire Performance Monitoring and Accountability 2020 Survey, Round 2 2018 | Survey microdata | Admin 2           |                   |              | X               |              |                  |                                   |                                     | X        | Institut National de la Statistique de la Côte d'Ivoire (INS-Côte d'Ivoire), La Direction de Coordination du Programme National de Santé de la Mère et de l'Enfant (DC-PNSME), and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 2, PMA2018/Cote d'Ivoire-R2. 2018. Abidjan, Cote d'Ivoire and Baltimore, Maryland, USA. | 398717 |
| Democratic Republic of the Congo | 2001  | Democratic Republic of the Congo Multiple Indicator Cluster Survey 2001           | Survey microdata | Admin 1           |                   |              | X               |              |                  |                                   |                                     | X        | Ministry of Planning and Reconstruction (Congo, DR), United Nations Children's Fund (UNICEF). Congo, DR Multiple Indicator Cluster Survey 2001. New York, United States: United Nations Children's Fund (UNICEF).                                                                                                                                                                                                                                                                  | 3161   |
| Democratic Republic of the Congo | 2007  | Democratic Republic of the Congo Demographic and Health Survey 2007               | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Macro International, Inc, Ministry of Planning (Congo, DR). Democratic Republic of the Congo Demographic and Health Survey 2007. Fairfax, United States of America: ICF International.                                                                                                                                                                                                                                                                                             | 19381  |

| Country                          | Years   | Name                                                                                                                 | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                    | NID    |
|----------------------------------|---------|----------------------------------------------------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Democratic Republic of the Congo | 2010    | Democratic Republic of the Congo Multiple Indicator Cluster Survey 2010                                              | Survey microdata | GPS               |                   |              | X               |              |                  |                                   | X                                   |          | National Statistical Institute (Congo, DR), Ministry of Planning (Congo, DR), United Nations Children's Fund (UNICEF). Congo, DR Multiple Indicator Cluster Survey 2010. New York, United States: United Nations Children's Fund (UNICEF).                                                                                                                                  | 26998  |
| Democratic Republic of the Congo | 2013    | Democratic Republic of the Congo - Kinshasa Performance Monitoring and Accountability 2020 Survey, Round 1 2013-2014 | Survey microdata | Admin 1           |                   |              | X               | X            |                  |                                   |                                     |          | Tulane University School of Public Health, University of Kinshasa School of Public Health and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 1, PMA2013/DRC-R1 (Kinshasa). 2013. DRC and Baltimore, Maryland, USA. | 257822 |
| Democratic Republic of the Congo | 2013-14 | Democratic Republic of the Congo Demographic and Health Survey 2013-2014                                             | Survey microdata | GPS               |                   | X            | X               | X            | X                | X                                 | X                                   | X        | ICF International, Ministry of Planning and Monitoring Implementation of the Revolution of Modernity (Congo, DR), Ministry of Public Health (Congo, DR), National Institute of Statistics (Congo, DR). Democratic Republic of the Congo Demographic and Health Survey 2013-2014. Fairfax, United States of America: ICF International, 2014.                                | 76878  |

| Country                          | Years | Name                                                                                                                                   | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                                              | NID    |
|----------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Democratic Republic of the Congo | 2014  | Democratic Republic of the Congo - Kinshasa Performance Monitoring and Accountability 2020 Survey, Round 2 2014                        | Survey microdata | GPS               |                   |              | X               | X            |                  |                                   |                                     |          | Tulane University School of Public Health, University of Kinshasa School of Public Health and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 2, PMA2014/DRC-R2 (Kinshasa). 2014. Kinshasa, DRC and Baltimore, Maryland, USA.                 | 257823 |
| Democratic Republic of the Congo | 2015  | Democratic Republic of the Congo - Kinshasa Performance Monitoring and Accountability 2020 Survey, Round 3 2015                        | Survey microdata | GPS               |                   |              | X               | X            |                  |                                   |                                     |          | Tulane University School of Public Health, University of Kinshasa School of Public Health and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 3, PMA2015/DRC-R3 (Kinshasa). 2015. Kinshasa, DRC and Baltimore, Maryland, USA.                 | 257826 |
| Democratic Republic of the Congo | 2015  | Democratic Republic of the Congo - Kinshasa and Kongo Central Performance Monitoring and Accountability 2020 Survey, Round 4 2015-2016 | Survey microdata | GPS               |                   |              | X               | X            |                  |                                   |                                     |          | Tulane University School of Public Health, University of Kinshasa School of Public Health and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 4, PMA2015/DRC-R4 (Kinshasa & Kongo Central). 2015. Kinshasa, DRC and Baltimore, Maryland, USA. | 286019 |

| Country                          | Years | Name                                                                                                                              | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                                              | NID    |
|----------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Democratic Republic of the Congo | 2016  | Democratic Republic of the Congo - Kinshasa and Kongo Central Performance Monitoring and Accountability 2020 Survey, Round 5 2016 | Survey microdata | GPS               |                   |              | X               | X            |                  |                                   |                                     |          | Tulane University School of Public Health, University of Kinshasa School of Public Health and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 5, PMA2016/DRC-R5 (Kinshasa & Kongo Central). 2016. Kinshasa, DRC and Baltimore, Maryland, USA. | 286054 |
| Equatorial Guinea                | 2000  | Equatorial Guinea Multiple Indicator Cluster Survey 2000                                                                          | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Ministry of Planning, Economic Development and Public Investment (Equatorial Guinea), United Nations Children's Fund (UNICEF). Equatorial Guinea Multiple Indicator Cluster Survey 2000. New York, United States of America: United Nations Children's Fund (UNICEF).                                                                                                                                 | 3655   |
| Eritrea                          | 2002  | Eritrea Demographic and Health Survey 2002                                                                                        | Survey microdata | Admin 1           |                   |              | X               | X            |                  |                                   |                                     | X        | Macro International, Inc, National Statistics and Evaluation Office (Eritrea). Eritrea Demographic and Health Survey 2002. Fairfax, United States of America: ICF International.                                                                                                                                                                                                                      | 19539  |

| Country  | Years   | Name                                              | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                        | NID    |
|----------|---------|---------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Eritrea  | 2010    | Eritrea Population and Health Survey 2010         | Survey report    | Admin 1           | X                 |              |                 |              |                  |                                   |                                     |          | Kenya Medical Research Institute (KEMRI), National Statistics Office (Eritrea), The Fafo Research Foundation. Eritrea Population and Health Survey 2010.                                                        | 249999 |
| Eswatini | 2000    | Swaziland Multiple Indicator Cluster Survey 2000  | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Central Statistical Office (Swaziland), United Nations Children's Fund (UNICEF). Swaziland Multiple Indicator Cluster Survey 2000. New York, United States of America: United Nations Children's Fund (UNICEF). | 12320  |
| Eswatini | 2006-07 | Swaziland Demographic and Health Survey 2006-2007 | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Central Statistical Office (Swaziland), Macro International, Inc. Swaziland Demographic and Health Survey 2006-2007. Fairfax, United States of America: ICF International.                                      | 20829  |

| Country  | Years | Name                                                   | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NID    |
|----------|-------|--------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Eswatini | 2010  | Swaziland Multiple Indicator Cluster Survey 2010       | Survey microdata | Admin 1           | X                 | X            | X               |              | X                | X                                 | X                                   | X        | Central Statistical Office (Swaziland), United Nations Children's Fund (UNICEF). Swaziland Multiple Indicator Cluster Survey 2010. New York, United States of America: United Nations Children's Fund (UNICEF).                                                                                                                                                                                                                                                                                                                                                        | 30325  |
| Eswatini | 2014  | Swaziland Multiple Indicator Cluster Survey 2014       | Survey microdata | Admin 1           | X                 |              | X               |              | X                | X                                 | X                                   | X        | Central Statistical Office (Swaziland), United Nations Children's Fund (UNICEF), United Nations Educational, Scientific and Cultural Organization (UNESCO), United Nations Population Fund (UNFPA). Swaziland Multiple Indicator Cluster Survey 2014. New York, United States of America: United Nations Children's Fund (UNICEF), 2016.                                                                                                                                                                                                                               | 200707 |
| Eswatini | 2017  | Swaziland HIV Incidence Measurement Survey 2 2016-2017 | Survey microdata | Admin 1           | X                 |              | X               |              | X                | X                                 | X                                   | X        | Centers for Disease Control and Prevention (CDC), Central Statistical Office (Swaziland), Environmental Health Department, Ministry of Health (Swaziland), Health Promotion Unit (Swaziland), ICAP, Columbia University Mailman School of Public Health, Ministry of Health (Swaziland), National Emergency Response Council on HIV and AIDS (NERCHA) (Swaziland), Swaziland Health Laboratory Services, Ministry of Health (SHLS), Swaziland Health Research (SHR), Swaziland National AIDS Programme (SNAP). Swaziland HIV Incidence Measurement Survey 2 2016-2017. | 415531 |

| Country  | Years | Name                                          | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                               | NID   |
|----------|-------|-----------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Ethiopia | 2000  | Ethiopia Demographic and Health Survey 2000   | Survey microdata | GPS               |                   |              | X               | X            | X                | X                                 | X                                   | X        | Central Statistical Agency (Ethiopia), ORC Macro. Ethiopia Demographic and Health Survey 2000. Calverton, United States of America: ORC Macro, 2001.                                   | 19571 |
| Ethiopia | 2004  | Ethiopia Rural Socioeconomic Survey 2011-2012 | Survey microdata | GPS               |                   |              |                 |              |                  |                                   |                                     | X        | Central Statistical Agency (Ethiopia), World Bank. Ethiopia Rural Socioeconomic Survey 2011-2012. Washington DC, United States of America: World Bank.                                 | 93848 |
| Ethiopia | 2005  | Ethiopia Demographic and Health Survey 2005   | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Macro International, Inc, Population and Housing Census Commissions Office (PHCCO). Ethiopia Demographic and Health Survey 2005. Fairfax, United States of America: ICF International. | 19557 |



| Country  | Years   | Name                                             | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                 | NID    |
|----------|---------|--------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Ethiopia | 2006-07 | Ethiopia Socioeconomic Survey 2013-2014          | Survey microdata | GPS               |                   |              |                 |              |                  |                                   |                                     | X        | Central Statistical Agency (Ethiopia), World Bank. Ethiopia Socioeconomic Survey 2013-2014. Washington DC, United States of America: World Bank, 2015.                                   | 235215 |
| Ethiopia | 2008    | Ethiopia Socioeconomic Survey 2015-2016          | Survey microdata | GPS               |                   |              |                 |              |                  |                                   |                                     | X        | Central Statistical Agency (Ethiopia), World Bank. Ethiopia Socioeconomic Survey 2015-2016. Washington DC, United States of America: World Bank, 2015.                                   | 286657 |
| Ethiopia | 2010-11 | Ethiopia Demographic and Health Survey 2010-2011 | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Central Statistical Agency (Ethiopia), ICF Macro, Ministry of Health (Ethiopia). Ethiopia Demographic and Health Survey 2010-2011. Fairfax, United States of America: ICF International. | 21301  |

| Country  | Years | Name                                                                         | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                        | NID    |
|----------|-------|------------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Ethiopia | 2014  | Ethiopia Performance Monitoring and Accountability 2020 Survey, Round 1 2014 | Survey microdata | Admin 1           |                   |              | X               | X            |                  |                                   |                                     | X        | Addis Ababa University School of Public Health and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 1, PMA2014/Ethiopia-R1. 2014. Ethiopia and Baltimore, Maryland, USA. | 153503 |
| Ethiopia | 2014  | Ethiopia Performance Monitoring and Accountability 2020 Survey, Round 2 2014 | Survey microdata | Admin 1           |                   |              | X               | X            |                  |                                   |                                     | X        | Addis Ababa University School of Public Health and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 2, PMA2014/Ethiopia-R2. 2014. Ethiopia and Baltimore, Maryland, USA. | 256175 |
| Ethiopia | 2015  | Ethiopia Performance Monitoring and Accountability 2020 Survey, Round 3 2015 | Survey microdata | Admin 1           |                   |              | X               | X            |                  |                                   |                                     | X        | Addis Ababa University School of Public Health and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 3, PMA2015/Ethiopia-R3. 2015. Ethiopia and Baltimore, Maryland, USA. | 256176 |

| Country  | Years | Name                                                                         | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                                                                                        | NID    |
|----------|-------|------------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Ethiopia | 2016  | Ethiopia Demographic and Health Survey 2016                                  | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Central Statistical Agency (Ethiopia), ICF International. Ethiopia Demographic and Health Survey 2016. Fairfax, United States of America: ICF International, 2017.                                                                                                                                                                                                                                                                              | 218568 |
| Ethiopia | 2016  | Ethiopia Performance Monitoring and Accountability 2020 Survey, Round 4 2016 | Survey microdata | Admin 1           |                   |              | X               | X            |                  |                                   |                                     | X        | Addis Ababa University School of Public Health and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 4, PMA2016/Ethiopia-R4. 2016. Ethiopia and Baltimore, Maryland, USA. PMA2020) Survey round 3, PMA2016/Burkina Faso-R3. 2016. Ouagadougou, Burkina Faso and Baltimore, Maryland, USA. | 285891 |
| Ethiopia | 2017  | Ethiopia Performance Monitoring and Accountability 2020 Survey, Round 5 2017 | Survey microdata | Admin 1           |                   |              | X               | X            |                  |                                   |                                     | X        | Addis Ababa University School of Public Health and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 5, PMA2017/Ethiopia-R5. 2017. Ethiopia and Baltimore, Maryland, USA.                                                                                                                 | 347050 |

| Country  | Years | Name                                                                         | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                        | NID    |
|----------|-------|------------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Ethiopia | 2018  | Ethiopia Performance Monitoring and Accountability 2020 Survey, Round 6 2018 | Survey microdata | GPS               |                   |              | X               |              |                  |                                   |                                     | X        | Addis Ababa University School of Public Health and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 6, PMA2018/Ethiopia-R6. 2018. Ethiopia and Baltimore, Maryland, USA. | 398720 |
| Gabon    | 2000  | Gabon Demographic and Health Survey 2000-2001                                | Survey microdata | Admin 2           |                   |              | X               | X            | X                |                                   |                                     | X        | General Directorate of Statistics and Economic Studies (Gabon), Macro International, Inc. Gabon Demographic and Health Survey 2000-2001. Fairfax, United States of America: ICF International.                                                                                                                                  | 19579  |
| Gabon    | 2012  | Gabon Demographic and Health Survey 2012                                     | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | General Directorate of Statistics (Gabon), ICF International, Ministry of Economy, Employment and Sustainable Development (Gabon), Ministry of Health (Gabon). Gabon Demographic and Health Survey 2012. Fairfax, United States of America: ICF International, 2013.                                                            | 76706  |

| Country | Years | Name                                          | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                          | NID   |
|---------|-------|-----------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Gambia  | 2000  | Gambia Multiple Indicator Cluster Survey 2000 | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Central Statistics Department (Gambia), United Nations Children's Fund (UNICEF). Gambia Multiple Indicator Cluster Survey 2000. New York, United States: United Nations Children's Fund (UNICEF).                 | 3922  |
| Gambia  | 2010  | Gambia Multiple Indicator Cluster Survey 2010 | Survey microdata | Admin 1           |                   |              | X               |              |                  |                                   | X                                   |          | Gambia Bureau of Statistics (GBOS), United Nations Children's Fund (UNICEF). Gambia Multiple Indicator Cluster Survey 2010. New York, United States of America: United Nations Children's Fund (UNICEF), 2018.    | 91506 |
| Gambia  | 2013  | Gambia Demographic and Health Survey 2013     | Survey microdata | Admin 2           |                   | X            | X               | X            | X                | X                                 | X                                   | X        | Gambia Bureau of Statistics (GBOS), ICF International, Ministry of Health and Social Welfare (The Gambia). Gambia Demographic and Health Survey 2013. Fairfax, United States of America: ICF International, 2015. | 77384 |

| Country | Years | Name                                          | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                 | NID    |
|---------|-------|-----------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Gambia  | 2018  | Gambia Multiple Indicator Cluster Survey 2018 | Survey microdata | Admin 1           |                   |              | X               |              | X                |                                   |                                     | X        | Gambia Bureau of Statistics (GBOS), United Nations Children's Fund (UNICEF). Gambia Multiple Indicator Cluster Survey 2018. New York, United States of America: United Nations Children's Fund (UNICEF), 2019.           | 424884 |
| Ghana   | 2003  | Ghana Demographic and Health Survey 2003      | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Ghana Statistical Service, Macro International, Inc. Ghana Demographic and Health Survey 2003. Fairfax, United States of America: ICF International.                                                                     | 19627  |
| Ghana   | 2006  | Ghana Multiple Indicator Cluster Survey 2006  | Survey microdata | Admin 1           |                   |              | X               |              | X                | X                                 | X                                   | X        | Ministry of Health (MOH) (Ghana), Ghana Statistical Service and United Nations Children's Fund (UNICEF). Ghana Multiple Indicator Cluster Survey 2006. New York, United States: United Nations Children's Fund (UNICEF). | 4694   |

| Country | Years | Name                                                      | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                                                                                                | NID   |
|---------|-------|-----------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Ghana   | 2008  | Ghana Demographic and Health Survey 2008                  | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Ghana Statistical Service, Macro International, Inc, Ministry of Health (Ghana). Ghana Demographic and Health Survey 2008. Fairfax, United States of America: ICF International.                                                                                                                                                                                                                                                                        | 21188 |
| Ghana   | 2010  | Ghana - Accra Multiple Indicator Cluster Survey 2010-2011 | Survey microdata | GPS               |                   |              | X               |              | X                | X                                 | X                                   | X        | Institute of Statistical, Social and Economic Research, University of Ghana, United Nations Children's Fund (UNICEF). Ghana - Accra Multiple Indicator Cluster Survey 2010-2011. New York, United States of America: United Nations Children's Fund (UNICEF), 2014.                                                                                                                                                                                     | 56241 |
| Ghana   | 2011  | Ghana Multiple Indicator Cluster Survey 2011              | Survey microdata | GPS               |                   |              | X               |              | X                | X                                 | X                                   | X        | Centers for Disease Control and Prevention (CDC), Ghana Statistical Service, Government of Japan, ICF Macro, Ministry of Health (Ghana), Navrongo Health Research Centre, United Nations Children's Fund (UNICEF), United Nations Population Fund (UNFPA), United States Agency for International Development (USAID). Ghana Multiple Indicator Cluster Survey 2011. New York, United States of America: United Nations Children's Fund (UNICEF), 2013. | 63993 |

| Country | Years | Name                                                                      | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                       | NID    |
|---------|-------|---------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Ghana   | 2013  | Ghana Living Standards Measurement Survey 2012-2013                       | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Ghana Statistical Service, World Bank. Ghana Living Standards Measurement Survey 2012-2013. Accra, Ghana: Ghana Statistical Service.                                                                                                                                                                                                           | 165101 |
| Ghana   | 2013  | Ghana Performance Monitoring and Accountability 2020 Survey, Round 1 2013 | Survey microdata | Admin 1           |                   |              | X               | X            |                  |                                   |                                     | X        | Kwame Nkrumah University of Science & Technology School of Medicine and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 1, PMA2013/Ghana-R1. 2013. Ghana and Baltimore, Maryland, USA. | 197904 |
| Ghana   | 2014  | Ghana Demographic and Health Survey 2014                                  | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Ghana Health Service, Ghana Statistical Service, ICF International. Ghana Demographic and Health Survey 2014. Fairfax, United States of America: ICF International, 2016.                                                                                                                                                                      | 157027 |



| Country | Years | Name                                                                      | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NID    |
|---------|-------|---------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Ghana   | 2014  | Ghana Performance Monitoring and Accountability 2020 Survey, Round 2 2014 | Survey microdata | Admin 1           |                   |              | X               | X            |                  |                                   |                                     | X        | Kwame Nkrumah University of Science & Technology School of Medicine and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 2, PMA2014/Ghana-R2. 2014. Ghana and Baltimore, Maryland, USA.                                                                                                                                                                               | 256241 |
| Ghana   | 2014  | Ghana Performance Monitoring and Accountability 2020 Survey, Round 3 2014 | Survey microdata | Admin 1           |                   |              | X               | X            |                  |                                   |                                     | X        | Kwame Nkrumah University of Science & Technology School of Medicine and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 3, PMA2014/Ghana-R3. 2014. Ghana and Baltimore, Maryland, USA.                                                                                                                                                                               | 256243 |
| Ghana   | 2015  | Ghana Performance Monitoring and Accountability 2020 Survey, Round 4 2015 | Survey microdata | Admin 1           |                   |              | X               | X            |                  |                                   |                                     | X        | Bill and Melinda Gates Institute for Population and Reproductive Health, Johns Hopkins Bloomberg School of Public Health, Ghana Health Service, Ghana Statistical Service, Kwame Nkrumah University of Science and Technology (KNUST), University for Development Studies (Ghana). Ghana Performance Monitoring and Accountability 2020 Survey, Round 4 2015. Baltimore, United States of America: Bill and Melinda Gates Institute for Population and Reproductive Health, Johns Hopkins Bloomberg School of Public Health. | 256244 |

| Country | Years | Name                                                                      | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                       | NID    |
|---------|-------|---------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Ghana   | 2016  | Ghana Performance Monitoring and Accountability 2020 Survey, Round 5 2016 | Survey microdata | Admin 1           |                   |              | X               | X            |                  |                                   |                                     | X        | Kwame Nkrumah University of Science & Technology School of Medicine and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 5, PMA2016/Ghana-R5. 2016. Ghana and Baltimore, Maryland, USA. | 286146 |
| Ghana   | 2017  | Ghana Special Demographic and Health Survey 2017                          | Survey microdata | GPS               |                   |              |                 | X            |                  |                                   |                                     |          | Ghana Health Service, Ghana Statistical Service, ICF International. Ghana Special Demographic and Health Survey 2017. Fairfax, United States of America: ICF International, 2018.                                                                                                                                                              | 218572 |
| Guinea  | 2005  | Guinea Demographic and Health Survey 2005                                 | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Macro International, Inc, National Statistics Directorate (Guinea). Guinea Demographic and Health Survey 2005. Fairfax, United States of America: ICF International.                                                                                                                                                                           | 19683  |

| Country | Years | Name                                          | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                              | NID    |
|---------|-------|-----------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Guinea  | 2012  | Guinea Demographic and Health Survey 2012     | Survey microdata | GPS               |                   | X            | X               | X            | X                | X                                 | X                                   | X        | ICF Macro, Ministry of Health and Public Hygiene (Guinea), National Institute of Statistics (Guinea). Guinea Demographic and Health Survey 2012. Fairfax, United States of America: ICF International.                                                                                                                | 69761  |
| Guinea  | 2016  | Guinea Multiple Indicator Cluster Survey 2016 | Survey microdata | Admin 1           |                   |              | X               |              |                  |                                   | X                                   |          | National Institute of Public Health (NPHI) (Guinea), National Institute of Statistics (Guinea), National Malaria Control Program (Guinea), United Nations Children's Fund (UNICEF). Guinea Multiple Indicator Cluster Survey 2016. New York, United States of America: United Nations Children's Fund (UNICEF), 2018. | 303458 |
| Guinea  | 2018  | Guinea Demographic and Health Survey 2018     | Survey microdata | GPS               |                   | X            | X               | X            | X                | X                                 | X                                   | X        | Ministry of Health (Guinea), Ministry of Planning and Economic Development (Guinea), National Institute of Statistics (Guinea). Guinea Demographic and Health Survey 2018. Fairfax, United States of America: ICF International, 2019.                                                                                | 396957 |

| Country       | Years | Name                                                 | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                         | NID    |
|---------------|-------|------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Guinea-Bissau | 2006  | Guinea-Bissau Multiple Indicator Cluster Survey 2006 | Survey microdata | Admin 1           |                   |              | X               |              |                  |                                   | X                                   |          | United Nations Children's Fund (UNICEF), Government of Guinea-Bissau. Guinea-Bissau Multiple Indicator Cluster Survey 2006. New York, United States: United Nations Children's Fund (UNICEF).                                    | 4818   |
| Guinea-Bissau | 2014  | Guinea-Bissau Multiple Indicator Cluster Survey 2014 | Survey microdata | Admin 1           | X                 |              | X               |              | X                | X                                 | X                                   | X        | National Statistics Institute (Guinea-Bissau), United Nations Children's Fund (UNICEF). Guinea-Bissau Multiple Indicator Cluster Survey 2014. New York, United States of America: United Nations Children's Fund (UNICEF), 2016. | 174049 |
| Kenya         | 2000  | Kenya Multiple Indicator Cluster Survey 2000         | Survey microdata | GPS               |                   |              |                 |              |                  |                                   |                                     | X        | Central Bureau of Statistics (Kenya), United Nations Children's Fund (UNICEF). Kenya Multiple Indicator Cluster Survey 2000. New York, United States: United Nations Children's Fund (UNICEF).                                   | 7387   |

| Country | Years | Name                                                           | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NID    |
|---------|-------|----------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Kenya   | 2003  | Kenya Demographic and Health Survey 2003                       | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Centers for Disease Control and Prevention (CDC), Central Bureau of Statistics (Kenya), Macro International, Inc, Ministry of Health (Kenya), National Council for Population and Development (Kenya). Kenya Demographic and Health Survey 2003. Fairfax, United States of America: ICF International.                                                                                                                                                                                                                                                                                                    | 20145  |
| Kenya   | 2007  | Kenya AIDS Indicator Survey 2007                               | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Centers for Disease Control and Prevention (CDC), Kenya Medical Research Institute (KEMRI), Kenya National Bureau of Statistics, Ministry of Public Health and Sanitation (Kenya), National AIDS Control Council (Kenya), National AIDS and STI Control Programme (NASCOP) (Kenya), National Coordinating Agency for Population and Development (Kenya), National Public Health Laboratory Services, Ministry of Public Health and Sanitation (Kenya), United States Agency for International Development (USAID). Kenya AIDS Indicator Survey 2007. Nairobi, Kenya: Kenya National Bureau of Statistics. | 133219 |
| Kenya   | 2007  | Kenya Household Health Expenditure and Utilization Survey 2007 | Survey microdata | Admin 2           |                   |              |                 |              |                  |                                   |                                     | X        | Abt Associates Inc., Kenya National Bureau of Statistics, Ministry of Health (Kenya). Kenya Household Health Expenditure and Utilization Survey 2007. Nairobi, Kenya: Kenya National Bureau of Statistics.                                                                                                                                                                                                                                                                                                                                                                                                | 157635 |

| Country | Years   | Name                                                           | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                                                              | NID    |
|---------|---------|----------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Kenya   | 2008-09 | Kenya Demographic and Health Survey 2008-2009                  | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF Macro, Kenya Medical Research Institute (KEMRI), Kenya National Bureau of Statistics, Ministry of Public Health and Sanitation (Kenya), National AIDS and STI Control Programme (NASCOP) (Kenya), National Aids Control Council (NACC), National Coordinating Agency for Population and Development (Kenya). Kenya Demographic and Health Survey 2008-2009. Fairfax, United States of America: ICF International. | 21365  |
| Kenya   | 2009    | Kenya - Coast Multiple Indicator Cluster Survey 2009           | Survey microdata | Admin 3           |                   |              | X               |              |                  |                                   | X                                   |          | Kenya National Bureau of Statistics, United Nations Children's Fund (UNICEF). Kenya - Coast Multiple Indicator Cluster Survey 2009. New York, United States of America: United Nations Children's Fund (UNICEF), 2014.                                                                                                                                                                                                | 56420  |
| Kenya   | 2011    | Kenya - Nyanza Province Multiple Indicator Cluster Survey 2011 | Survey microdata | GPS               |                   |              | X               |              |                  |                                   | X                                   |          | Kenya National Bureau of Statistics, United Nations Children's Fund (UNICEF). Kenya - Nyanza Province Multiple Indicator Cluster Survey 2011. Nairobi, Kenya: Kenya National Bureau of Statistics.                                                                                                                                                                                                                    | 135416 |

| Country | Years   | Name                                                        | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                | NID    |
|---------|---------|-------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Kenya   | 2013    | Kenya AIDS Indicator Survey 2012-2013                       | Survey microdata | GPS               | X                 | X            | X               | X            |                  | X                                 | X                                   | X        | Kenya National Bureau of Statistics, Ministry of Devolution and Planning (Kenya), Ministry of Health (Kenya), National AIDS and STI Control Programme (NASCOP) (Kenya). Kenya AIDS Indicator Survey 2012-2013. Nairobi, Kenya: Kenya National Bureau of Statistics.                                     | 133304 |
| Kenya   | 2013-14 | Kenya - Bungoma County Multiple Indicator Survey 2013-2014  | Survey microdata | GPS               |                   |              | X               |              |                  |                                   |                                     |          | Kenya National Bureau of Statistics, Population Studies and Research Institute, University of Nairobi (Kenya), United Nations Children's Fund (UNICEF). Kenya - Bungoma County Multiple Indicator Survey 2013-2014. New York, United States of America: United Nations Children's Fund (UNICEF), 2015.  | 203654 |
| Kenya   | 2013-14 | Kenya - Kakamega County Multiple Indicator Survey 2013-2014 | Survey microdata | GPS               |                   |              | X               |              |                  |                                   | X                                   |          | Kenya National Bureau of Statistics, Population Studies and Research Institute, University of Nairobi (Kenya), United Nations Children's Fund (UNICEF). Kenya - Kakamega County Multiple Indicator Survey 2013-2014. New York, United States of America: United Nations Children's Fund (UNICEF), 2015. | 203663 |

| Country | Years   | Name                                                                      | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                              | NID    |
|---------|---------|---------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Kenya   | 2013-14 | Kenya - Turkana County Multiple Indicator Survey 2013-2014                | Survey microdata | GPS               |                   |              | X               |              |                  |                                   | X                                   |          | Kenya National Bureau of Statistics, Population Studies and Research Institute, University of Nairobi (Kenya), United Nations Children's Fund (UNICEF). Kenya - Turkana County Multiple Indicator Survey 2013-2014. New York, United States of America: United Nations Children's Fund (UNICEF), 2015.                                | 203664 |
| Kenya   | 2014    | Kenya Demographic and Health Survey 2014                                  | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF International, Kenya Medical Research Institute (KEMRI), Kenya National Bureau of Statistics, Ministry of Health (Kenya), National AIDS Control Council (Kenya), National Council for Population and Development (Kenya). Kenya Demographic and Health Survey 2014. Fairfax, United States of America: ICF International.         | 157057 |
| Kenya   | 2014    | Kenya Performance Monitoring and Accountability 2020 Survey, Round 1 2014 | Survey microdata | Admin 2           |                   |              | X               | X            |                  |                                   |                                     | X        | International Centre for Reproductive Health Kenya (ICRHK) and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 1, PMA2014/Kenya-R1. 2014. Kenya and Baltimore, Maryland, USA. | 197910 |



| Country | Years | Name                                                                      | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NID    |
|---------|-------|---------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Kenya   | 2014  | Kenya Performance Monitoring and Accountability 2020 Survey, Round 2 2014 | Survey microdata | Admin 2           |                   |              | X               | X            |                  |                                   |                                     | X        | Bill and Melinda Gates Institute for Population and Reproductive Health, Johns Hopkins Bloomberg School of Public Health, International Center for Reproductive Health (Kenya), Kenya National Bureau of Statistics, Ministry of Health (Kenya), National Council for Population and Development (Kenya). Kenya Performance Monitoring and Accountability 2020 Survey, Round 2 2014. Baltimore, United States of America: Johns Hopkins Bloomberg School of Public Health. | 256338 |
| Kenya   | 2015  | Kenya Performance Monitoring and Accountability 2020 Survey, Round 3 2015 | Survey microdata | Admin 2           |                   |              | X               | X            |                  |                                   |                                     | X        | International Centre for Reproductive Health Kenya (ICRHK) and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 3, PMA2015/Kenya-R3. 2015. Kenya and Baltimore, Maryland, USA.                                                                                                                                      | 256365 |
| Kenya   | 2015  | Kenya Performance Monitoring and Accountability 2020 Survey, Round 4 2015 | Survey microdata | Admin 2           |                   |              | X               | X            |                  |                                   |                                     | X        | International Centre for Reproductive Health Kenya (ICRHK) and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 4, PMA2015/Kenya-R4. 2015. Kenya and Baltimore, Maryland, USA.                                                                                                                                      | 256366 |

| Country | Years | Name                                                                      | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                              | NID    |
|---------|-------|---------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Kenya   | 2016  | Kenya Performance Monitoring and Accountability 2020 Survey, Round 5 2016 | Survey microdata | Admin 2           |                   |              | X               | X            |                  |                                   |                                     | X        | International Centre for Reproductive Health Kenya (ICRHK) and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 5, PMA2016/Kenya-R5. 2016. Kenya and Baltimore, Maryland, USA. | 347047 |
| Kenya   | 2017  | Kenya Performance Monitoring and Accountability 2020 Survey, Round 6 2017 | Survey microdata | Admin 1           |                   |              | X               |              |                  |                                   |                                     |          | International Centre for Reproductive Health Kenya (ICRHK) and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 5, PMA2016/Kenya-R5. 2016. Kenya and Baltimore, Maryland, USA. | 374949 |
| Kenya   | 2018  | Kenya Performance Monitoring and Accountability 2020 Survey, Round 7 2018 | Survey microdata | Admin 1           |                   |              | X               |              |                  |                                   |                                     | X        | International Centre for Reproductive Health Kenya (ICRHK) and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey Round 7, PMA2018/Kenya-R7. 2018. Kenya and Baltimore, Maryland, USA. | 407837 |

| Country | Years   | Name                                            | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                          | NID   |
|---------|---------|-------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Lesotho | 2000    | Lesotho Multiple Indicator Cluster Survey 2000  | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Bureau of Statistics (Lesotho), United Nations Children's Fund (UNICEF). Lesotho Multiple Indicator Cluster Survey 2000. New York, United States of America: United Nations Children's Fund (UNICEF).             | 7721  |
| Lesotho | 2004-05 | Lesotho Demographic and Health Survey 2004-2005 | Survey microdata | GPS               | X                 | X            | X               | X            |                  | X                                 | X                                   | X        | Bureau of Statistics (Lesotho), Macro International, Inc, Ministry of Health and Social Welfare (Lesotho). Lesotho Demographic and Health Survey 2004-2005. Fairfax, United States of America: ICF International. | 20167 |
| Lesotho | 2009-10 | Lesotho Demographic and Health Survey 2009-2010 | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF Macro, Ministry of Health and Social Welfare (Lesotho). Lesotho Demographic and Health Survey 2009-2010. Fairfax, United States of America: ICF International.                                                | 21382 |

| Country | Years   | Name                                            | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                    | NID    |
|---------|---------|-------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Lesotho | 2014    | Lesotho Demographic and Health Survey 2014      | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF International, Ministry of Health and Social Welfare (Lesotho). Lesotho Demographic and Health Survey 2014. Fairfax, United States of America: ICF International.                                       | 157058 |
| Lesotho | 2018    | Lesotho Multiple Indicator Cluster Survey 2018  | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Bureau of Statistics (Lesotho), United Nations Children's Fund (UNICEF). Lesotho Multiple Indicator Cluster Survey 2018. New York, United States of America: United Nations Children's Fund (UNICEF), 2019. | 427778 |
| Liberia | 2006-07 | Liberia Demographic and Health Survey 2006-2007 | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Liberia Institute for Statistics and Geo-information Services (LISGIS), Macro International, Inc. Liberia Demographic and Health Survey 2006-2007. Fairfax, United States of America: ICF International.    | 20191  |

| Country    | Years   | Name                                               | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                    | NID   |
|------------|---------|----------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Liberia    | 2013    | Liberia Demographic and Health Survey 2013         | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF International, Liberia Institute for Statistics and Geo-information Services (LISGIS), National AIDS and STI Control Program (NACP), Ministry of Health and Social Welfare (Liberia). Liberia Demographic and Health Survey 2013. Fairfax, United States of America: ICF International. | 77385 |
| Madagascar | 2000    | Madagascar Multiple Indicator Cluster Survey 2000  | Survey microdata | Admin 1           |                   |              | X               |              |                  |                                   |                                     |          | National Institute of Statistics (Madagascar), United Nations Children's Fund (UNICEF). Madagascar Multiple Indicator Cluster Survey 2000. New York, United States of America: United Nations Children's Fund (UNICEF).                                                                     | 27020 |
| Madagascar | 2003-04 | Madagascar Demographic and Health Survey 2003-2004 | Survey microdata | Admin 2           | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Macro International, Inc, National Institute of Statistics (Madagascar). Madagascar Demographic and Health Survey 2003-2004. Fairfax, United States of America: ICF International.                                                                                                          | 20223 |

| Country    | Years   | Name                                                      | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                              | NID    |
|------------|---------|-----------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Madagascar | 2008-09 | Madagascar Demographic and Health Survey 2008-2009        | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF Macro, National Institute of Statistics (Madagascar). Madagascar Demographic and Health Survey 2008-2009. Fairfax, United States of America: ICF International.                                                                   | 21409  |
| Madagascar | 2012    | Madagascar - South Multiple Indicator Cluster Survey 2012 | Survey microdata | GPS               |                   |              | X               |              |                  |                                   | X                                   |          | National Institute of Statistics (Madagascar), United Nations Children's Fund (UNICEF). Madagascar - South Multiple Indicator Cluster Survey 2012. New York, United States of America: United Nations Children's Fund (UNICEF), 2015. | 125594 |
| Madagascar | 2018    | Madagascar Multiple Indicator Cluster Survey 2018         | Survey microdata | GPS               |                   |              | X               |              | X                |                                   |                                     | X        | National Institute of Statistics (Madagascar), United Nations Children's Fund (UNICEF). Madagascar Multiple Indicator Cluster Survey 2018. 2019.                                                                                      | 399853 |

| Country | Years   | Name                                           | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                       | NID   |
|---------|---------|------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Malawi  | 2000    | Malawi Demographic and Health Survey 2000      | Survey microdata | GPS               |                   | X            | X               | X            | X                | X                                 | X                                   | X        | Macro International, Inc, National Statistical Office of Malawi. Malawi Demographic and Health Survey 2000. Fairfax, United States of America: ICF International.                              | 20252 |
| Malawi  | 2004-05 | Malawi Demographic and Health Survey 2004-2005 | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Macro International, Inc, National Statistical Office of Malawi. Malawi Demographic and Health Survey 2004-2005. Fairfax, United States of America: ICF International.                         | 20263 |
| Malawi  | 2006    | Malawi Multiple Indicator Cluster Survey 2006  | Survey microdata | Admin 2           |                   |              | X               |              | X                | X                                 | X                                   | X        | United Nations Children's Fund (UNICEF), National Statistics Office (Malawi). Malawi Multiple Indicator Cluster Survey 2006. New York, United States: United Nations Children's Fund (UNICEF). | 7919  |

| Country | Years   | Name                                               | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                        | NID    |
|---------|---------|----------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Malawi  | 2010    | Malawi Demographic and Health Survey 2010          | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF Macro, National Statistical Office of Malawi. Malawi Demographic and Health Survey 2010. Fairfax, United States of America: ICF International.                                                                                                                              | 21393  |
| Malawi  | 2013-14 | Malawi Multiple Indicator Cluster Survey 2013-2014 | Survey microdata | Admin 2           | X                 |              | X               |              | X                | X                                 | X                                   | X        | National Statistical Office of Malawi, United Nations Children's Fund (UNICEF). Malawi Multiple Indicator Cluster Survey 2013-2014. New York, United States of America: United Nations Children's Fund (UNICEF), 2015.                                                          | 161662 |
| Malawi  | 2015-16 | Malawi Demographic and Health Survey 2015-2016     | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Emory University and Centers for Disease Control & Prevention Collaboration, ICF International, Ministry of Health (Malawi), National Statistical Office of Malawi. Malawi Demographic and Health Survey 2015-2016. Fairfax, United States of America: ICF International, 2017. | 218581 |



| Country | Years   | Name                                                    | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                     | NID    |
|---------|---------|---------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Malawi  | 2015-16 | Malawi Population-based HIV Impact Assessment 2015-2016 | Survey microdata | Admin >1          | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Ministry of Health, Malawi, Centers for Disease Control and Prevention (CDC), and ICAP at Columbia University. Malawi Population-based HIV Impact Assessment (MPHIA) 2015-16: First Report. Lilongwe, Malawi, Atlanta, Georgia and New York, New York, USA: Ministry of Health, CDC and ICAP. December 2016. | 287629 |
| Malawi  | 2016-17 | Malawi Integrated Household Survey 2016-2017            | Survey microdata | Admin 2           |                   |              |                 |              |                  |                                   |                                     | X        | National Statistical Office. Malawi - Fourth Integrated Household Survey 2016-2017, Ref. MWI_2016_IHS-IV_v02_M. Dataset downloaded from [http://microdata.worldbank.org/index.php/catalog/2936] on [December 18, 2017].                                                                                      | 327852 |
| Mali    | 2001    | Mali Demographic and Health Survey 2001                 | Survey microdata | GPS               |                   | X            | X               | X            | X                | X                                 | X                                   | X        | Macro International, Inc, National Directorate of Statistics and Informatics (DNSI) (Mali), Planning and Statistics Unit, Ministry of Health (Mali). Mali Demographic and Health Survey 2001. Fairfax, United States of America: ICF International.                                                          | 20315  |

| Country | Years   | Name                                             | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                             | NID    |
|---------|---------|--------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Mali    | 2006    | Mali Demographic and Health Survey 2006          | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Macro International, Inc, Ministry of Health (Mali), National Directorate of Statistics and Informatics (DNSI) (Mali). Mali Demographic and Health Survey 2006. Fairfax, United States of America: ICF International.                                                                | 20274  |
| Mali    | 2009-10 | Mali Multiple Indicator Cluster Survey 2009-2010 | Survey microdata | Admin 2           |                   |              | X               |              |                  |                                   | X                                   |          | Ministry of Health (Mali), National Institute of Statistics (INSTAT) (Mali), United Nations Children's Fund (UNICEF). Mali Multiple Indicator Cluster Survey 2009-2010. New York, United States of America: United Nations Children's Fund (UNICEF), 2017.                           | 270627 |
| Mali    | 2012-13 | Mali Demographic and Health Survey 2012-2013     | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF International, INFO-STAT (Mali), Ministry of Health (Mali), National Institute of Statistics (INSTAT) (Mali), Planning and Statistics Unit, Ministry of Health (Mali). Mali Demographic and Health Survey 2012-2013. Fairfax, United States of America: ICF International, 2014. | 77388  |

| Country | Years | Name                                        | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                 | NID    |
|---------|-------|---------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Mali    | 2015  | Mali Malaria Indicator Survey 2015          | Survey microdata | GPS               |                   |              |                 |              |                  |                                   |                                     | X        | ICF International, INFO-STAT (Mali), Ministry of Health and Public Hygiene (Mali), National Institute of Public Health Research (INRSP) (Mali), National Institute of Statistics (INSTAT) (Mali), National Program for the Fight Against Malaria (Mali). Mali Malaria Indicator Survey 2015. Fairfax, United States of America: ICF International, 2016. | 218587 |
| Mali    | 2015  | Mali Multiple Indicator Cluster Survey 2015 | Survey microdata | Admin 1           |                   |              | X               |              | X                | X                                 | X                                   | X        | Ministry of Health (Mali), Ministry of Planning (Mali), National Institute of Statistics (INSTAT) (Mali), United Nations Children's Fund (UNICEF). Mali Multiple Indicator Cluster Survey 2015. New York, United States of America: United Nations Children's Fund (UNICEF), 2017.                                                                       | 248224 |
| Mali    | 2018  | Mali Demographic and Health Survey 2018     | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF International, National Institute of Statistics (INSTAT) (Mali). Mali Demographic and Health Survey 2018. Fairfax, United States of America: ICF International, 2019.                                                                                                                                                                                | 398033 |

| Country    | Years   | Name                                               | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                   | NID    |
|------------|---------|----------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Mauritania | 2000-01 | Mauritania Demographic and Health Survey 2000-2001 | Survey microdata | Admin 1           |                   |              | X               | X            |                  | X                                 |                                     | X        | Macro International, Inc, National Office of Statistics (Mauritania). Mauritania Demographic and Health Survey 2000-2001. Fairfax, United States of America: ICF International.                                            | 20322  |
| Mauritania | 2011    | Mauritania Multiple Indicator Cluster Survey 2011  | Survey microdata | Admin 3           |                   |              |                 |              |                  |                                   |                                     | X        | National Office of Statistics (Mauritania), United Nations Children's Fund (UNICEF). Mauritania Multiple Indicator Cluster Survey 2011. New York, United States of America: United Nations Children's Fund (UNICEF), 2015. | 152783 |
| Mauritania | 2015    | Mauritania Multiple Indicator Cluster Survey 2015  | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | National Office of Statistics (Mauritania), United Nations Children's Fund (UNICEF). Mauritania Multiple Indicator Cluster Survey 2015. New York, United States of America: United Nations Children's Fund (UNICEF), 2018. | 267343 |

| Country    | Years | Name                                                   | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                | NID   |
|------------|-------|--------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Mozambique | 2001  | Mozambique Young Adult Reproductive Health Survey 2001 | Survey microdata | Admin 1           |                   |              | X               |              |                  |                                   |                                     |          | Mozambique National Institute of Statistics, Division of Reproductive Health-Centers for Disease Control and Prevention (CDC). (2003) Mozambique Young Adult Reproductive Health Survey 2001. Atlanta, United States: Centers for Disease Control and Prevention (CDC). | 27519 |
| Mozambique | 2003  | Mozambique Demographic and Health Survey 2003-2004     | Survey microdata | Admin 1           | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Macro International, Inc, National Institute of Statistics (INE) (Mozambique). Mozambique Demographic and Health Survey 2003-2004. Fairfax, United States of America: ICF International.                                                                                | 20394 |
| Mozambique | 2008  | Mozambique Multiple Indicator Cluster Survey 2008-2009 | Survey microdata | Admin 5, GPS      |                   |              | X               |              |                  |                                   |                                     |          | United Nations Children's Fund (UNICEF), National Statistics Institute (Mozambique). Mozambique Multiple Indicator Cluster Survey 2008-2009. New York, United States: United Nations Children's Fund (UNICEF).                                                          | 27031 |

| Country    | Years | Name                                          | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                 | NID    |
|------------|-------|-----------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Mozambique | 2009  | Mozambique AIDS Indicator Survey 2009         | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF Macro, Ministry of Health (Mozambique), National Institute of Statistics (INE) (Mozambique). Mozambique AIDS Indicator Survey 2009. Fairfax, United States of America: ICF International, 2010.                                                                                                      | 8906   |
| Mozambique | 2011  | Mozambique Demographic and Health Survey 2011 | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF Macro, Manhica Health Research Center (CISM), Ministry of Health (Mozambique), National Institute of Statistics (INE) (Mozambique). Mozambique Demographic and Health Survey 2011. Fairfax, United States of America: ICF International.                                                             | 55975  |
| Mozambique | 2015  | Mozambique AIDS Indicator Survey 2015         | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Centers for Disease Control and Prevention (CDC), ICF International, Ministry of Health (Mozambique), National Institute of Health (Mozambique), National Institute of Statistics (INE) (Mozambique). Mozambique AIDS Indicator Survey 2015. Fairfax, United States of America: ICF International, 2018. | 157060 |

| Country | Years   | Name                                            | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                          | NID    |
|---------|---------|-------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Namibia | 2000    | Namibia Demographic and Health Survey 2000      | Survey microdata | GPS               |                   |              | X               | X            | X                | X                                 | X                                   | X        | Macro International, Inc, Ministry of Health and Social Services (Namibia), National Planning Commission (Namibia). Namibia Demographic and Health Survey 2000. Fairfax, United States of America: ICF International.             | 20417  |
| Namibia | 2006-07 | Namibia Demographic and Health Survey 2006-2007 | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Macro International, Inc, Ministry of Health and Social Services (Namibia). Namibia Demographic and Health Survey 2006-2007. Fairfax, United States of America: ICF International.                                                | 20428  |
| Namibia | 2013    | Namibia Demographic and Health Survey 2013      | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF International, Ministry of Health and Social Services (Namibia), Namibia Institute of Pathology, Namibia Statistics Agency. Namibia Demographic and Health Survey 2013. Fairfax, United States of America: ICF International. | 150382 |

| Country | Years | Name                                         | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                           | NID   |
|---------|-------|----------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Niger   | 2000  | Niger Multiple Indicator Cluster Survey 2000 | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Government of Niger, Macro International, Inc, United Nations Children's Fund (UNICEF). Niger Multiple Indicator Cluster Survey 2000. New York, United States of America: United Nations Children's Fund (UNICEF). | 9439  |
| Niger   | 2006  | Niger Demographic and Health Survey 2006     | Survey microdata | Admin 1           | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Department of Statistics and National Accounts (Niger), Macro International, Inc. Niger Demographic and Health Survey 2006. Fairfax, United States of America: ICF International.                                  | 20499 |
| Niger   | 2012  | Niger Demographic and Health Survey 2012     | Survey microdata | Admin 1           |                   | X            | X               | X            | X                | X                                 | X                                   | X        | ICF International, Ministry of Public Health (Niger), National Institute of Statistics (Niger). Niger Demographic and Health Survey 2012. Fairfax, United States of America: ICF International.                    | 74393 |



| Country | Years | Name                                                                               | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                          | NID    |
|---------|-------|------------------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Niger   | 2015  | Niger - Niamey Performance Monitoring and Accountability 2020 Survey, Round 1 2015 | Survey microdata | Admin 1           |                   |              | X               | X            |                  |                                   |                                     | X        | Niger/Niamey Institut National de la Statistique (National Institute of Statistics) and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 1, PMA2015/Niger-R1 (Niamey). 2015. Niamey, Niger and Baltimore, Maryland, USA.   | 256177 |
| Niger   | 2016  | Niger Performance Monitoring and Accountability 2020 Survey, Round 2 2016          | Survey microdata | Admin 1           |                   |              | X               | X            |                  |                                   |                                     | X        | Niger/Niamey Institut National de la Statistique (National Institute of Statistics) and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 2, PMA2016/Niger-R2 (National). 2016. Niamey, Niger and Baltimore, Maryland, USA. | 286052 |
| Niger   | 2018  | Niger - Niamey Performance Monitoring and Accountability 2020 Survey, Round 5 2018 | Survey microdata | GPS               |                   |              | X               |              |                  |                                   |                                     | X        | Niger/Niamey Institut National de la Statistique (National Institute of Statistics) and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 5, PMA2018/Niger-R5 (Niamey). 2018. Niamey, Niger and Baltimore, Maryland, USA.   | 398719 |

| Country | Years | Name                                                      | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                   | NID   |
|---------|-------|-----------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Nigeria | 2003  | Nigeria Demographic and Health Survey 2003                | Survey microdata | GPS               |                   | X            | X               | X            | X                | X                                 | X                                   | X        | Department for International Development (DFID) (United Kingdom), National Population Commission of Nigeria, ORC Macro, United Nations Children's Fund (UNICEF), United Nations Population Fund (UNFPA). Nigeria Demographic and Health Survey 2003. Fairfax, United States of America: ICF International. | 20567 |
| Nigeria | 2004  | Nigeria Living Standards Survey 2003-2004                 | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Federal Office of Statistics (Nigeria). Nigeria Living Standards Survey 2003-2004.                                                                                                                                                                                                                         | 25006 |
| Nigeria | 2006  | Nigeria Core Welfare Indicators Questionnaire Survey 2006 | Survey microdata | Admin 1           | X                 |              |                 |              |                  |                                   |                                     | X        | National Bureau of Statistics (Nigeria). Nigeria Core Welfare Indicators Questionnaire Survey 2006. Abuja, Nigeria: National Bureau of Statistics (Nigeria).                                                                                                                                               | 9522  |

| Country | Years | Name                                                          | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                        | NID    |
|---------|-------|---------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Nigeria | 2007  | Nigeria Multiple Indicator Cluster Survey 2007                | Survey microdata | Admin 1           |                   |              | X               |              |                  |                                   | X                                   |          | United Nations Children's Fund (UNICEF), National Bureau of Statistics (Nigeria). Nigeria Multiple Indicator Cluster Survey 2007. New York, United States: United Nations Children's Fund (UNICEF).                                                                                                                                                             | 9516   |
| Nigeria | 2007  | Nigeria National HIV/AIDS and Reproductive Health Survey 2007 | Survey microdata | Admin 1           |                   | X            | X               |              |                  | X                                 | X                                   | X        | Federal Ministry of Health (Nigeria), National Agency for the Control of AIDS (NACA) (Nigeria), National Bureau of Statistics (Nigeria), National Population Commission (NPC), Nigerian Institute of Medical Research, Society for Family Health (Nigeria), University College Hospital, Ibadan. Nigeria National HIV/AIDS and Reproductive Health Survey 2007. | 325046 |
| Nigeria | 2008  | Nigeria Demographic and Health Survey 2008                    | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Macro International, Inc, National Population Commission of Nigeria. Nigeria Demographic and Health Survey 2008. Fairfax, United States of America: ICF International, 2009.                                                                                                                                                                                    | 21433  |

| Country | Years | Name                                          | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                       | NID    |
|---------|-------|-----------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Nigeria | 2008  | Nigeria General Household Survey 2008 - IPUMS | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | National Bureau of Statistics (Nigeria), Minnesota Population Center. Nigeria General Household Survey 2008 from the Integrated Public Use Microdata Series, International: [Machine-readable database]. Minneapolis: University of Minnesota. | 151313 |
| Nigeria | 2009  | Nigeria General Household Survey 2009 - IPUMS | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | National Bureau of Statistics (Nigeria), Minnesota Population Center. Nigeria General Household Survey 2009 from the Integrated Public Use Microdata Series, International: [Machine-readable database]. Minneapolis: University of Minnesota. | 151314 |
| Nigeria | 2009  | Nigeria Living Standards Survey 2008-2010     | Survey microdata | Admin 1, Admin 2  |                   |              |                 |              |                  |                                   |                                     | X        | National Bureau of Statistics (Nigeria). Nigeria Living Standards Survey 2008-2010. Abuja, Nigeria: National Bureau of Statistics (Nigeria).                                                                                                   | 151719 |

| Country | Years | Name                                               | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                            | NID    |
|---------|-------|----------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Nigeria | 2010  | Nigeria General Household Survey 2010 - IPUMS      | Survey microdata | Admin 2           |                   |              |                 |              |                  |                                   |                                     | X        | National Bureau of Statistics (Nigeria), Minnesota Population Center. Nigeria General Household Survey 2010 from the Integrated Public Use Microdata Series, International: [Machine-readable database]. Minneapolis: University of Minnesota.      | 151315 |
| Nigeria | 2011  | Nigeria General Household Survey 2010-2011 - IPUMS | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | National Bureau of Statistics (Nigeria), Minnesota Population Center. Nigeria General Household Survey 2010-2011 from the Integrated Public Use Microdata Series, International: [Machine-readable database]. Minneapolis: University of Minnesota. | 151317 |
| Nigeria | 2011  | Nigeria Multiple Indicator Cluster Survey 2011     | Survey microdata | Admin 1           |                   |              | X               |              |                  |                                   | X                                   |          | National Bureau of Statistics (Nigeria), United Nations Children's Fund (UNICEF). Nigeria Multiple Indicator Cluster Survey 2011. New York, United States of America: United Nations Children's Fund (UNICEF), 2013.                                | 76703  |

| Country | Years | Name                                                                                           | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NID    |
|---------|-------|------------------------------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Nigeria | 2012  | Nigeria National HIV/AIDS and Reproductive Health Survey 2012                                  | Survey microdata | Admin 2           |                   | X            | X               |              |                  | X                                 | X                                   | X        | Expanded Social Marketing Project in Nigeria (ESMPIN), Federal Ministry of Health (Nigeria), Joint United Nations Program on HIV/AIDS (UNAIDS), National Population Commission (NPC), Society for Family Health (Nigeria), University College Hospital, Ibadan, World Health Organization (WHO). Nigeria National HIV/AIDS and Reproductive Health Survey 2012.                                                                                                                                                                                                   | 324443 |
| Nigeria | 2013  | Nigeria Demographic and Health Survey 2013                                                     | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF International, National Population Commission of Nigeria. Nigeria Demographic and Health Survey 2013. Fairfax, United States of America: ICF International.                                                                                                                                                                                                                                                                                                                                                                                                   | 77390  |
| Nigeria | 2014  | Nigeria - Kaduna and Lagos Performance Monitoring and Accountability 2020 Survey, Round 1 2014 | Survey microdata | Admin 1           |                   |              | X               | X            |                  |                                   |                                     | X        | Centre for Population and Reproductive Health (CPRH), University of Ibadan; Centre for Research, Evaluation Resources and Development (CRERD); Population and Reproductive Health Program (PRHP), Obafemi Awolowo University (OAU); Bayero University Kano (BUK); and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 1, PMA2014/Nigeria-R1 (Kaduna & Lagos). 2014. Nigeria and Baltimore, Maryland, USA. | 256263 |

| Country | Years   | Name                                                                                                      | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                                               | NID    |
|---------|---------|-----------------------------------------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Nigeria | 2015    | Nigeria - Kaduna and Lagos Performance Monitoring and Accountability 2020 Survey, Round 2 2015            | Survey microdata | Admin 1           |                   |              | X               | X            |                  |                                   |                                     | X        | Centre for Research, Evaluation Resources and Development (CERD), Bayero University Kano (BUK), and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 2, PMA2015/Nigeria-R2 (Kaduna & Lagos). 2015. Nigeria and Baltimore, Maryland, USA         | 256268 |
| Nigeria | 2016    | Nigeria Performance Monitoring and Accountability 2020 Survey, Round 3 2016                               | Survey microdata | Admin 1           |                   |              | X               |              |                  |                                   |                                     | X        | Centre for Research, Evaluation Resources and Development (CERD), Bayero University Kano (BUK), and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 3, PMA2016/Nigeria-R3 (National). 2016. Nigeria and Baltimore, Maryland, USA.              | 286022 |
| Nigeria | 2016-17 | Nigeria Multiple Indicator Cluster Survey with National Immunization Coverage Survey Supplement 2016-2017 | Survey microdata | GPS               | X                 |              | X               |              | X                | X                                 | X                                   | X        | National Agency for the Control of AIDS (Nigeria), National Bureau of Statistics (Nigeria), National Primary Health Care Development Agency (NPHCDA) (Nigeria), United Nations Children's Fund (UNICEF). Nigeria Multiple Indicator Cluster Survey with National Immunization Coverage Survey Supplement 2016-2017. New York, United States of America: United Nations Children's Fund (UNICEF), 2018. | 218613 |

| Country | Years | Name                                                                        | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                                   | NID    |
|---------|-------|-----------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Nigeria | 2018  | Nigeria Demographic and Health Survey 2018                                  | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Federal Ministry of Health (Nigeria), ICF International, National Population Commission (NPC). Nigeria Demographic and Health Survey 2018. Fairfax, United States of America: ICF International, 2019.                                                                                                                                                                                     | 408484 |
| Nigeria | 2018  | Nigeria Performance Monitoring and Accountability 2020 Survey, Round 5 2018 | Survey microdata | Admin 1           |                   |              | X               |              |                  |                                   |                                     | X        | Centre for Research, Evaluation Resources and Development (CRERD), Bayero University Kano (BUK), and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 5, PMA2018/Nigeria-R5 (National). 2018. Nigeria and Baltimore, Maryland, USA. | 394679 |
| Rwanda  | 2000  | Rwanda Demographic and Health Survey 2000                                   | Survey microdata | Admin 1           |                   | X            | X               |              | X                | X                                 | X                                   | X        | Macro International, Inc, National Office of Population (Rwanda). Rwanda Demographic and Health Survey 2000. Fairfax, United States of America: ICF International.                                                                                                                                                                                                                         | 20722  |



| Country | Years   | Name                                                   | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                         | NID   |
|---------|---------|--------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Rwanda  | 2000    | Rwanda Multiple Indicator Cluster Survey 2000          | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Department of Statistics (Rwanda), United Nations Children's Fund (UNICEF). Rwanda Multiple Indicator Cluster Survey 2000. New York, United States: United Nations Children's Fund (UNICEF).                     | 26930 |
| Rwanda  | 2005    | Rwanda Demographic and Health Survey 2005              | Survey microdata | GPS               | X                 | X            | X               |              | X                | X                                 | X                                   | X        | Macro International, Inc, National Institute of Statistics of Rwanda. Rwanda Demographic and Health Survey 2005. Fairfax, United States of America: ICF International.                                           | 20740 |
| Rwanda  | 2007-08 | Rwanda Interim Demographic and Health Survey 2007-2008 | Survey microdata | GPS               | X                 |              |                 |              |                  |                                   |                                     | X        | Macro International, Inc, Ministry of Health (Rwanda), National Institute of Statistics of Rwanda. Rwanda Interim Demographic and Health Survey 2007-2008. Fairfax, United States of America: ICF International. | 21222 |

| Country | Years   | Name                                                           | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                   | NID    |
|---------|---------|----------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Rwanda  | 2010-11 | Rwanda Demographic and Health Survey 2010-2011                 | Survey microdata | GPS               | X                 | X            | X               |              | X                | X                                 | X                                   | X        | ICF Macro, Ministry of Health (Rwanda), National Institute of Statistics of Rwanda. Rwanda Demographic and Health Survey 2010-2011. Fairfax, United States of America: ICF International.                                                                                                                                                                                  | 56040  |
| Rwanda  | 2011    | Rwanda Integrated Household Living Conditions Survey 2010-2011 | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | National Institute of Statistics of Rwanda. Rwanda Integrated Household Living Conditions Survey 2010-2011. Kigali, Rwanda: National Institute of Statistics of Rwanda.                                                                                                                                                                                                    | 151437 |
| Rwanda  | 2011    | Rwanda Special Demographic and Health Survey 2011              | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | ICF International, Joint United Nations Program on HIV/AIDS (UNAIDS), National Institute of Statistics of Rwanda, Rwanda Biomedical Center/Institute of HIV/AIDS, Disease Control and Prevention Department, School of Public Health, University of Rwanda. Rwanda Special Demographic and Health Survey 2011. Fairfax, United States of America: ICF International, 2012. | 56426  |

| Country               | Years   | Name                                                         | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                      | NID    |
|-----------------------|---------|--------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Rwanda                | 2014-15 | Rwanda Demographic and Health Survey 2014-2015               | Survey microdata | GPS               | X                 | X            | X               |              | X                | X                                 | X                                   | X        | ICF International, Ministry of Health (Rwanda), National Institute of Statistics of Rwanda. Rwanda Demographic and Health Survey 2014-2015. Fairfax, United States of America: ICF International, 2016.                                       | 157063 |
| Rwanda                | 2017    | Rwanda Malaria Indicator Survey 2017                         | Survey microdata | Admin 2           |                   |              |                 |              |                  |                                   |                                     | X        | ICF International, Ministry of Health (Rwanda), Rwanda Biomedical Center (RBC). Rwanda Malaria Indicator Survey 2017. Fairfax, United States of America: ICF International, 2018.                                                             | 350836 |
| Sao Tome and Principe | 2000    | Sao Tome and Principe Multiple Indicator Cluster Survey 2000 | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | National Institute of Statistics (Sao Tome and Principe), United Nations Children's Fund (UNICEF). Sao Tome and Principe Multiple Indicator Cluster Survey 2000. New York, United States of America: United Nations Children's Fund (UNICEF). | 27055  |

| Country               | Years | Name                                                          | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                                                                                            | NID    |
|-----------------------|-------|---------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Sao Tome and Principe | 2008  | Sao Tome and Principe Demographic and Health Survey 2008-2009 | Survey microdata | Admin 2           |                   | X            | X               | X            | X                | X                                 | X                                   | X        | ICF Macro, Ministry of Health (Sao Tome and Principe), National Institute of Statistics (Sao Tome and Principe). Sao Tome and Principe Demographic and Health Survey 2008-2009. Fairfax, United States of America: ICF International.                                                                                                                                                                                                               | 26866  |
| Sao Tome and Principe | 2014  | Sao Tome and Principe Multiple Indicator Cluster Survey 2014  | Survey microdata | Admin 2           | X                 | X            |                 |              | X                | X                                 | X                                   | X        | Global Fund to Fight Aids Tuberculosis and Malaria (GFATM), ICF International, National Center for Endemic Diseases (CNE) (Sao Tome and Principe), National Institute of Statistics (Sao Tome and Principe), United Nations Children's Fund (UNICEF), United Nations Development Programme (UNDP). Sao Tome and Principe Multiple Indicator Cluster Survey 2014. New York, United States of America: United Nations Children's Fund (UNICEF), 2016. | 214640 |
| Senegal               | 2000  | Senegal Multiple Indicator Cluster Survey 2000                | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Directorate of Forecasting and Statistics, Ministry of the Economy, Finance and Planning (Senegal), Ministry of Economy and Finance (Senegal), United Nations Children's Fund (UNICEF). Senegal Multiple Indicator Cluster Survey 2000. New York, United States of America: United Nations Children's Fund (UNICEF).                                                                                                                                | 27044  |

| Country | Years   | Name                                                       | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                             | NID    |
|---------|---------|------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Senegal | 2005    | Senegal Demographic and Health Survey 2005                 | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Ministry of Health and Prevention (Senegal), Research Center for Human Development (Senegal). Senegal Demographic and Health Survey 2005. Fairfax, United States of America: ICF International.                                                                                      | 26855  |
| Senegal | 2010-11 | Senegal Demographic and Health Survey 2010-2011            | Survey microdata | GPS               |                   | X            | X               | X            | X                | X                                 | X                                   | X        | Center for Research in Human Development (CRDH), Cheikh Anta Diop University, Hospital Aristide Le Dantec, ICF Macro, National Agency of Statistics and Demography (Senegal). Senegal Demographic and Health Survey 2010-2011. Fairfax, United States of America: ICF International. | 56063  |
| Senegal | 2012-13 | Senegal Continuous Demographic and Health Survey 2012-2013 | Survey microdata | GPS               |                   |              | X               | X            |                  |                                   | X                                   | X        | ICF International, Ministry of Health and Social Action (Senegal), National Agency of Statistics and Demography (Senegal). Senegal Continuous Demographic and Health Survey 2012-2013. Fairfax, United States of America: ICF International.                                         | 111432 |

| Country | Years | Name                                                              | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                               | NID    |
|---------|-------|-------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Senegal | 2014  | Senegal Continuous Demographic and Health Survey 2014             | Survey microdata | GPS               |                   | X            | X               | X            | X                | X                                 | X                                   | X        | Cheikh Anta Diop University, ICF International, National Agency of Statistics and Demography (Senegal). Senegal Continuous Demographic and Health Survey 2014. Fairfax, United States of America: ICF International.                                   | 191270 |
| Senegal | 2015  | Senegal - Dakar Urban Multiple Indicator Cluster Survey 2015-2016 | Survey microdata | Admin 2           |                   |              | X               |              | X                | X                                 | X                                   | X        | National Agency of Statistics and Demography (Senegal), United Nations Children's Fund (UNICEF). Senegal - Dakar Urban Multiple Indicator Cluster Survey 2015-2016. New York, United States of America: United Nations Children's Fund (UNICEF), 2018. | 287639 |
| Senegal | 2015  | Senegal Continuous Demographic and Health Survey 2015             | Survey microdata | GPS               |                   | X            | X               | X            | X                | X                                 | X                                   | X        | Cheikh Anta Diop University, ICF International, National Agency of Statistics and Demography (Senegal). Senegal Continuous Demographic and Health Survey 2015. Fairfax, United States of America: ICF International, 2016.                             | 218592 |

| Country | Years | Name                                                  | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                       | NID    |
|---------|-------|-------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Senegal | 2015  | Senegal Global Adult Tobacco Survey 2015              | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Centers for Disease Control and Prevention (CDC), Johns Hopkins Bloomberg School of Public Health, Ministry of Health and Social Action (Senegal), National Agency of Statistics and Demography (Senegal), Research Triangle Institute, Inc. (RTI), World Health Organization (WHO). Senegal Global Adult Tobacco Survey 2015. | 237375 |
| Senegal | 2016  | Senegal Continuous Demographic and Health Survey 2016 | Survey microdata | GPS               |                   | X            | X               | X            | X                | X                                 | X                                   | X        | ICF International, Ministry of Health and Social Action (Senegal), National Agency of Statistics and Demography (Senegal). Senegal Continuous Demographic and Health Survey 2016. Fairfax, United States of America: ICF International, 2017.                                                                                  | 286772 |
| Senegal | 2017  | Senegal Continuous Demographic and Health Survey 2017 | Survey microdata | Admin 1           |                   | X            | X               | X            | X                | X                                 | X                                   | X        | ICF International, Ministry of Health and Social Action (Senegal), National Agency of Statistics and Demography (Senegal), Unit for the Fight Against Malnutrition (Senegal). Senegal Continuous Demographic and Health Survey 2017. Fairfax, United States of America: ICF International, 2018.                               | 353526 |

| Country      | Years | Name                                                | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                             | NID   |
|--------------|-------|-----------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Sierra Leone | 2000  | Sierra Leone Multiple Indicator Cluster Survey 2000 | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Central Statistics Office (Sierra Leone), United Nations Children's Fund (UNICEF). Sierra Leone Multiple Indicator Cluster Survey 2000. New York, United States of America: United Nations Children's Fund (UNICEF). | 11639 |
| Sierra Leone | 2005  | Sierra Leone Multiple Indicator Cluster Survey 2005 | Survey microdata | Admin 2           |                   |              | X               |              |                  |                                   | X                                   |          | United Nations Children's Fund (UNICEF), Statistics Sierra Leone. Sierra Leone Multiple Indicator Cluster Survey 2005. New York, United States: United Nations Children's Fund (UNICEF).                             | 11649 |
| Sierra Leone | 2008  | Sierra Leone Demographic and Health Survey 2008     | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Macro International, Inc, Statistics Sierra Leone. Sierra Leone Demographic and Health Survey 2008. Fairfax, United States of America: ICF International.                                                            | 21258 |



| Country      | Years | Name                                                | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                   | NID    |
|--------------|-------|-----------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Sierra Leone | 2010  | Sierra Leone Multiple Indicator Cluster Survey 2010 | Survey microdata | Admin 2           |                   |              | X               |              |                  |                                   | X                                   |          | Statistics Sierra Leone, United Nations Children's Fund (UNICEF). Sierra Leone Multiple Indicator Cluster Survey 2010. New York, United States of America: United Nations Children's Fund (UNICEF).        | 76700  |
| Sierra Leone | 2013  | Sierra Leone Demographic and Health Survey 2013     | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF International, Ministry of Health and Sanitation (Sierra Leone), Statistics Sierra Leone. Sierra Leone Demographic and Health Survey 2013. Fairfax, United States of America: ICF International, 2014. | 131467 |
| Sierra Leone | 2014  | Sierra Leone Labor Force Survey 2014                | Survey microdata | Admin 2           |                   |              |                 |              |                  |                                   |                                     | X        | German Society for International Cooperation (GIZ), International Labour Organization (ILO), Statistics Sierra Leone, World Bank. Sierra Leone Labor Force Survey 2014.                                    | 286094 |

| Country      | Years | Name                                                                                   | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NID    |
|--------------|-------|----------------------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| South Africa | 2002  | South Africa - Agincourt Integrated Family Survey 2002                                 | Survey microdata | Admin 4           |                   |              |                 |              |                  |                                   |                                     | X        | Case, A. 2003. Agincourt Integrated Family Survey 2002. [dataset] Version 1. Cape Town: DataFirst [distributor].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 135825 |
| South Africa | 2002  | South Africa General Household Survey 2002                                             | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Statistics South Africa. South Africa General Household Survey 2002. Pretoria, South Africa: Statistics South Africa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 115481 |
| South Africa | 2002  | South Africa HIV/AIDS Behavioral Risks, Sero-Status, and Mass Media Impact Survey 2002 | Survey microdata | Admin 3           | X                 |              | X               |              | X                | X                                 | X                                   | X        | Center for AIDS Development, Research and Evaluation (CADRE) (South Africa), Department of Social Development (South Africa), Family Health International, Geospace International (South Africa), Human Sciences Research Council, Joint United Nations Program on HIV/AIDS (UNAIDS), Medical University of Southern Africa (MEDUNSA), National Agency for AIDS Research (ANRS) (France), National Health Laboratory Service (NHLS) (South Africa), South African Medical Research Council, University of Natal, Wits Health Consortium. South Africa HIV/AIDS Behavioral Risks, Sero-Status, and Mass Media Impact Survey 2002. Pretoria, South Africa: Human Sciences Research Council, 2011. | 12102  |

| Country      | Years | Name                                       | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                              | NID   |
|--------------|-------|--------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------|-------|
| South Africa | 2003  | South Africa General Household Survey 2003 | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Statistics South Africa. South Africa General Household Survey 2003. Pretoria, South Africa: Statistics South Africa. | 11787 |
| South Africa | 2004  | South Africa General Household Survey 2004 | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Statistics South Africa. South Africa General Household Survey 2004. Pretoria, South Africa: Statistics South Africa. | 11788 |
| South Africa | 2005  | South Africa General Household Survey 2005 | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Statistics South Africa. South Africa General Household Survey 2005. Pretoria, South Africa: Statistics South Africa. | 11789 |

| Country      | Years | Name                                                                                         | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NID    |
|--------------|-------|----------------------------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| South Africa | 2005  | South Africa National HIV Prevalence, Incidence, Behavior and Communication Survey 2004-2005 | Survey microdata | Admin 3           |                   |              | X               |              | X                | X                                 | X                                   | X        | Center for AIDS Development, Research and Evaluation (CADRE) (South Africa), Centers for Disease Control and Prevention (CDC), Global Clinical and Viral Laboratory (South Africa), Human Sciences Research Council, Maphume Research Services, National Institute for Communicable Diseases (South Africa). South Africa National HIV Prevalence, Incidence, Behavior and Communication Survey 2004-2005. Pretoria, South Africa: Human Sciences Research Council, 2011. | 313074 |
| South Africa | 2006  | South Africa General Household Survey 2006                                                   | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Statistics South Africa. South Africa General Household Survey 2006. Pretoria, South Africa: Statistics South Africa.                                                                                                                                                                                                                                                                                                                                                     | 115486 |
| South Africa | 2007  | South Africa General Household Survey 2007                                                   | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Statistics South Africa. South Africa General Household Survey 2007. Cape Town, South Africa: DataFirst.                                                                                                                                                                                                                                                                                                                                                                  | 11790  |

| Country      | Years   | Name                                                                                         | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NID    |
|--------------|---------|----------------------------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| South Africa | 2008    | South Africa General Household Survey 2008                                                   | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Statistics South Africa. South Africa General Household Survey 2008. Pretoria, South Africa: Statistics South Africa.                                                                                                                                                                                                                                                                                                                                                                                  | 115488 |
| South Africa | 2008-09 | South Africa National HIV Prevalence, Incidence, Behavior and Communication Survey 2008-2009 | Survey microdata | Admin 5, GPS      | X                 | X            | X               |              | X                | X                                 | X                                   | X        | Center for AIDS Development, Research and Evaluation (CADRE) (South Africa), Geospace International (South Africa), Global Clinical and Viral Laboratory (South Africa), Human Sciences Research Council, Maphume Research Services, National Institute for Communicable Diseases (South Africa), South African Medical Research Council. South Africa National HIV Prevalence, Incidence, Behavior and Communication Survey 2008-2009. Pretoria, South Africa: Human Sciences Research Council, 2014. | 228102 |
| South Africa | 2009    | South Africa General Household Survey 2009                                                   | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Statistics South Africa. South Africa General Household Survey 2009. Pretoria, South Africa: Statistics South Africa.                                                                                                                                                                                                                                                                                                                                                                                  | 115489 |

| Country      | Years   | Name                                                                           | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                                                             | NID    |
|--------------|---------|--------------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| South Africa | 2009    | South Africa Living Conditions Survey 2008-2009                                | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Statistics South Africa. South Africa Living Conditions Survey 2008-2009. Pretoria, South Africa: Statistics South Africa.                                                                                                                                                                                                                                                                                           | 152021 |
| South Africa | 2010-11 | South Africa National Income Dynamics Study - Wave 2 2010-2011                 | Survey microdata | Admin 1, Admin 2, |                   |              |                 |              |                  |                                   |                                     | X        | Southern Africa Labour and Development Research Unit. National Income Dynamics Study 2010-2011, Wave 2. Version 1.0. Cape Town: Southern Africa Labour and Development Research Unit [producer], 2012. Cape Town: DataFirst [distributor], 2013.                                                                                                                                                                     | 133731 |
| South Africa | 2011-12 | South Africa National HIV Prevalence, Incidence, and Behavior Survey 2011-2012 | Survey microdata | Admin 5, GPS      | X                 |              | X               |              | X                | X                                 | X                                   | X        | Centers for Disease Control and Prevention (CDC), Global Clinical and Viral Laboratory (South Africa), Human Sciences Research Council, National Institute for Communicable Diseases (South Africa), South African Medical Research Council, University of Cape Town. South Africa National HIV Prevalence, Incidence, and Behavior Survey 2011-2012. Pretoria, South Africa: Human Sciences Research Council, 2016. | 313076 |

| Country      | Years | Name                                            | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                     | NID    |
|--------------|-------|-------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| South Africa | 2013  | South Africa General Household Survey 2013      | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Statistics South Africa. General Household Survey 2013 [dataset]. Version 1. Pretoria. Statistics South Africa [producer], 2014. Cape Town. DataFirst [distributor], 2014.10.25828/a704-wm31 | 238483 |
| South Africa | 2014  | South Africa General Household Survey 2014      | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Statistics South Africa. South Africa General Household Survey 2014. Cape Town, South Africa: DataFirst, 2015.                                                                               | 238485 |
| South Africa | 2015  | South Africa Living Conditions Survey 2014-2015 | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Statistics South Africa. South Africa Living Conditions Survey 2014-2015. Pretoria, South Africa: Statistics South Africa.                                                                   | 317239 |

| Country      | Years | Name                                            | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                              | NID    |
|--------------|-------|-------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| South Africa | 2016  | South Africa Community Survey 2016              | Survey microdata | Admin 3           |                   |              |                 |              |                  |                                   |                                     | X        | Statistics South Africa. South Africa Community Survey 2016. Pretoria, South Africa: Statistics South Africa, 2016.                                                                                                                   | 280803 |
| South Africa | 2016  | South Africa Demographic and Health Survey 2016 | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Department of Health (South Africa), ICF International, South African Medical Research Council, Statistics South Africa. South Africa Demographic and Health Survey 2016. Fairfax, United States of America: ICF International, 2019. | 157064 |
| South Africa | 2016  | South Africa General Household Survey 2016      | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Statistics South Africa. South Africa General Household Survey 2016. Cape Town, South Africa: DataFirst, 2015.                                                                                                                        | 317089 |



| Country     | Years | Name                                                 | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                               | NID    |
|-------------|-------|------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| South Sudan | 2010  | Sudan - South Multiple Indicator Cluster Survey 2010 | Survey microdata | Admin 1           |                   |              | X               |              |                  |                                   | X                                   | X        | Central Bureau of Statistics (Sudan), Federal Ministry of Health (Sudan), Government of Sudan, Ministry of Health (South Sudan), Southern Sudan Centre for Census, Statistics and Evaluation. Sudan - South Multiple Indicator Cluster Survey 2010. New York, United States of America: United Nations Children's Fund (UNICEF), 2015. | 32189  |
| Sudan       | 2000  | Sudan Multiple Indicator Cluster Survey 2000         | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Central Bureau of Statistics (Sudan), Federal Ministry of Health (Sudan), United Nations Children's Fund (UNICEF). Sudan Multiple Indicator Cluster Survey 2000. New York, United States of America: United Nations Children's Fund (UNICEF).                                                                                          | 12243  |
| Sudan       | 2010  | Sudan - North Multiple Indicator Cluster Survey 2010 | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Central Bureau of Statistics (Sudan), Ministry of Health (South Sudan). Sudan - North Multiple Indicator Cluster Survey 2010. New York, United States of America: United Nations Children's Fund (UNICEF), 2015.                                                                                                                       | 153643 |

| Country | Years | Name                                        | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                  | NID   |
|---------|-------|---------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Togo    | 2000  | Togo Multiple Indicator Cluster Survey 2000 | Survey microdata | Admin 1, Admin 2  |                   |              |                 |              |                  |                                   |                                     | X        | United Nations Children's Fund (UNICEF). Togo Multiple Indicator Cluster Survey 2000. New York, United States of America: United Nations Children's Fund (UNICEF).                                                        | 12886 |
| Togo    | 2006  | Togo Multiple Indicator Cluster Survey 2006 | Survey microdata | Admin 1           |                   |              | X               |              |                  |                                   | X                                   |          | Directorate General of Statistics and National Accounting (Togo), United Nations Children's Fund (UNICEF). Togo Multiple Indicator Cluster Survey 2006. New York, United States: United Nations Children's Fund (UNICEF). | 12896 |
| Togo    | 2010  | Togo Multiple Indicator Cluster Survey 2010 | Survey microdata | Admin 1           |                   |              | X               |              | X                | X                                 | X                                   | X        | Directorate General of Statistics and National Accounting (Togo), United Nations Children's Fund (UNICEF). Togo Multiple Indicator Cluster Survey 2010. New York, United States: United Nations Children's Fund (UNICEF). | 40021 |

| Country | Years   | Name                                           | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                          | NID    |
|---------|---------|------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Togo    | 2013-14 | Togo Demographic and Health Survey 2013-2014   | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Directorate General of Statistics and National Accounts (Togo), ICF International, Ministry of Health (Togo), Ministry of Planning, Development and Zoning (Togo). Togo Demographic and Health Survey 2013-2014. Fairfax, United States of America: ICF International, 2015.                                                      | 77515  |
| Togo    | 2017    | Togo Malaria Indicator Survey 2017             | Survey microdata | GPS               |                   |              |                 |              |                  |                                   |                                     | X        | ICF International, National Institute of Hygiene, Ministry of Health (Togo), National Institute of Statistics and Economic and Demographic Studies (INSEED) (Togo), National Program to Fight Malaria, Ministry of Health (Togo). Togo Malaria Indicator Survey 2017. Fairfax, United States of America: ICF International, 2018. | 359318 |
| Uganda  | 2000-01 | Uganda Demographic and Health Survey 2000-2001 | Survey microdata | GPS               |                   | X            | X               | X            | X                | X                                 | X                                   | X        | Macro International, Inc, Uganda Bureau of Statistics. Uganda Demographic and Health Survey 2000-2001. Fairfax, United States of America: ICF International.                                                                                                                                                                      | 20993  |

| Country | Years   | Name                                         | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                | NID   |
|---------|---------|----------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Uganda  | 2004    | Uganda National Service Delivery Survey 2004 | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Ministry of Public Service (Uganda), Uganda Bureau of Statistics. Uganda National Service Delivery Survey 2004. OpenMicroData.                          | 13114 |
| Uganda  | 2004-05 | Uganda AIDS Indicator Survey 2004-2005       | Survey microdata | Admin 1           | X                 | X            | X               |              |                  | X                                 | X                                   | X        | Division of Reproductive Health, Centers for Disease Control and Prevention (CDC), Ministry of Health (Uganda). Uganda AIDS Indicator Survey 2004-2005. | 13084 |
| Uganda  | 2006    | Uganda Demographic and Health Survey 2006    | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Macro International, Inc, Uganda Bureau of Statistics. Uganda Demographic and Health Survey 2006. Fairfax, United States of America: ICF International. | 21014 |

| Country | Years | Name                                         | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                         | NID   |
|---------|-------|----------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Uganda  | 2008  | Uganda National Service Delivery Survey 2008 | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Ministry of Public Service (Uganda), Uganda Bureau of Statistics. Uganda National Service Delivery Survey 2008.                                                                                                                                  | 93320 |
| Uganda  | 2011  | Uganda AIDS Indicator Survey 2011            | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Centers for Disease Control and Prevention (CDC), ICF Macro, Ministry of Health (Uganda), Uganda Bureau of Statistics, Uganda Virus Research Institute. Uganda AIDS Indicator Survey 2011. Fairfax, United States of America: ICF International. | 55973 |
| Uganda  | 2011  | Uganda Demographic and Health Survey 2011    | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF Macro, Uganda Bureau of Statistics. Uganda Demographic and Health Survey 2011. Fairfax, United States of America: ICF International.                                                                                                         | 56021 |

| Country | Years | Name                                                                       | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                    | NID    |
|---------|-------|----------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Uganda  | 2013  | Uganda National Household Survey 2012-2013                                 | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Uganda Bureau of Statistics. Uganda National Household Survey 2012-2013. Kampala, Uganda: Uganda Bureau of Statistics.                                                                                                                                                                                                                                      | 165406 |
| Uganda  | 2014  | Uganda Performance Monitoring and Accountability 2020 Survey, Round 1 2014 | Survey microdata | Admin 1           |                   |              | X               | X            |                  |                                   |                                     | X        | Makerere University, School of Public Health at the College of Health Sciences and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 1, PMA2014/Uganda-R1. 2014. Uganda and Baltimore, Maryland, USA. | 256199 |
| Uganda  | 2015  | Uganda Performance Monitoring and Accountability 2020 Survey, Round 2 2015 | Survey microdata | Admin 1           |                   |              | X               | X            |                  |                                   |                                     | X        | Makerere University, School of Public Health at the College of Health Sciences and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 2, PMA2015/Uganda-R2. 2015. Uganda and Baltimore, Maryland, USA. | 256200 |

| Country | Years | Name                                                                       | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                    | NID    |
|---------|-------|----------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Uganda  | 2015  | Uganda Performance Monitoring and Accountability 2020 Survey, Round 3 2015 | Survey microdata | Admin 1           |                   |              | X               | X            |                  |                                   |                                     | X        | Makerere University, School of Public Health at the College of Health Sciences and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 3, PMA2015/Uganda-R3. 2015. Uganda and Baltimore, Maryland, USA. | 256201 |
| Uganda  | 2016  | Uganda Demographic and Health Survey 2016                                  | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF International, Uganda Bureau of Statistics. Uganda Demographic and Health Survey 2016. Fairfax, United States of America: ICF International, 2018.                                                                                                                                                                                                      | 286780 |
| Uganda  | 2016  | Uganda Performance Monitoring and Accountability 2020 Survey, Round 4 2016 | Survey microdata | Admin 1           |                   |              | X               | X            |                  |                                   |                                     | X        | Makerere University, School of Public Health at the College of Health Sciences and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 4, PMA2016/Uganda-R4. 2016. Uganda and Baltimore, Maryland, USA. | 285893 |

| Country | Years | Name                                                                       | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                    | NID    |
|---------|-------|----------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Uganda  | 2016  | Uganda Population-based HIV Impact Assessment 2016-2017                    | Survey report    | Admin 1           | X                 |              |                 |              |                  |                                   |                                     |          | Centers for Disease Control and Prevention (CDC), ICAP, Columbia University Mailman School of Public Health, Joint United Nations Program on HIV/AIDS (UNAIDS), Ministry of Health (Uganda), Uganda Bureau of Statistics, Uganda Virus Research Institute, World Health Organization (WHO). Uganda Population-Based HIV Impact Assessment 2016-2017.        | 327593 |
| Uganda  | 2017  | Uganda Performance Monitoring and Accountability 2020 Survey, Round 5 2017 | Survey microdata | Admin >1          |                   |              | X               | X            |                  |                                   |                                     | X        | Makerere University, School of Public Health at the College of Health Sciences and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 5, PMA2017/Uganda-R5. 2017. Uganda and Baltimore, Maryland, USA. | 347043 |
| Uganda  | 2018  | Uganda Performance Monitoring and Accountability 2020 Survey, Round 6 2018 | Survey microdata | Admin 1           |                   |              | X               |              |                  |                                   |                                     | X        | Makerere University, School of Public Health at the College of Health Sciences and The Bill & Melinda Gates Institute for Population and Reproductive Health at The Johns Hopkins Bloomberg School of Public Health. Performance Monitoring and Accountability 2020 (PMA2020) Survey round 6, PMA2018/Uganda-R6. 2018. Uganda and Baltimore, Maryland, USA. | 398722 |



| Country                     | Years   | Name                                                                   | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                         | NID   |
|-----------------------------|---------|------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| United Republic of Tanzania | 2001    | Tanzania Household Budget Survey 2000-2001                             | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | National Bureau of Statistics (Tanzania), Oxford Policy Management. Tanzania Household Budget Survey 2000-2001. Dar es Salaam, Tanzania: National Bureau of Statistics (Tanzania).                                                                                               | 31740 |
| United Republic of Tanzania | 2003-04 | Tanzania AIDS Indicator Survey 2003-2004                               | Survey microdata | GPS               | X                 | X            | X               |              | X                | X                                 | X                                   | X        | National Bureau of Statistics (Tanzania), ORC Macro, Tanzania Commission for AIDS (TACAIDS). Tanzania AIDS Indicator Survey 2003-2004. Fairfax, United States of America: ICF International.                                                                                     | 12630 |
| United Republic of Tanzania | 2004    | Tanzania - Shinyanga Core Welfare Indicators Questionnaire Survey 2004 | Survey microdata | Admin 2           |                   |              |                 |              |                  |                                   |                                     | X        | Economic Development Initiatives (EDI), National Bureau of Statistics (Tanzania), Institute of Finance Management (Tanzania), World Bank (WB). Tanzania - Shinyanga Core Welfare Indicators Questionnaire Survey 2004. Bukoba, Tanzania: Economic Development Initiatives (EDI). | 31786 |

| Country                     | Years   | Name                                                            | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                            | NID   |
|-----------------------------|---------|-----------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| United Republic of Tanzania | 2004-05 | Tanzania Demographic and Health Survey 2004-2005                | Survey microdata | Admin 1           | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Macro International, Inc, National Bureau of Statistics (Tanzania). Tanzania Demographic and Health Survey 2004-2005. Fairfax, United States of America: ICF International.         | 20875 |
| United Republic of Tanzania | 2005    | Tanzania Core Welfare Indicators Questionnaire Survey 2005      | Survey microdata | Admin 2           |                   |              |                 |              |                  |                                   |                                     | X        | Economic Development Initiatives (EDI), World Bank (WB). Tanzania Core Welfare Indicators Questionnaire Survey 2005. Bukoba, Tanzania: Economic Development Initiatives (EDI).      | 31797 |
| United Republic of Tanzania | 2006-07 | Tanzania Core Welfare Indicators Questionnaire Survey 2006-2007 | Survey microdata | Admin 2           |                   |              |                 |              |                  |                                   |                                     | X        | Economic Development Initiatives (EDI), World Bank (WB). Tanzania Core Welfare Indicators Questionnaire Survey 2006-2007. Bukoba, Tanzania: Economic Development Initiatives (EDI). | 31831 |

| Country                     | Years   | Name                                                     | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                   | NID   |
|-----------------------------|---------|----------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| United Republic of Tanzania | 2007    | Tanzania Household Budget Survey 2007                    | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | National Bureau of Statistics (Tanzania). Tanzania Household Budget Survey 2007. Dar es Salaam, Tanzania: National Bureau of Statistics (Tanzania).                                                                                                                                                                        | 31887 |
| United Republic of Tanzania | 2007-08 | Tanzania HIV/AIDS and Malaria Indicator Survey 2007-2008 | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Macro International, Inc, National Bureau of Statistics (Tanzania), Office of the Chief Government Statistician (OCGS) (Zanzibar), Tanzania Commission for AIDS (TACAIDS), Zanzibar AIDS Commission (ZAC). Tanzania HIV/AIDS and Malaria Indicator Survey 2007-2008. Fairfax, United States of America: ICF International. | 12644 |
| United Republic of Tanzania | 2009-10 | Tanzania Demographic and Health Survey 2009-2010         | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF Macro, National Bureau of Statistics (Tanzania). Tanzania Demographic and Health Survey 2009-2010. Fairfax, United States of America: ICF International.                                                                                                                                                               | 21331 |

| Country                     | Years   | Name                                       | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                  | NID    |
|-----------------------------|---------|--------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| United Republic of Tanzania | 2011-12 | Tanzania AIDS Indicator Survey 2011-2012   | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF International, National Bureau of Statistics (Tanzania), Office of the Chief Government Statistician (OCGS) (Zanzibar), Tanzania Commission for AIDS (TACAIDS), Zanzibar AIDS Commission (ZAC). Tanzania AIDS Indicator Survey 2011-2012. Fairfax, United States of America: ICF International, 2013. | 77395  |
| United Republic of Tanzania | 2012    | Tanzania Household Budget Survey 2011-2012 | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | National Bureau of Statistics (Tanzania). Tanzania Household Budget Survey 2011-2012. Dar es Salaam, Tanzania: National Bureau of Statistics (Tanzania), 2014.                                                                                                                                            | 243012 |
| United Republic of Tanzania | 2015    | Tanzania National Panel Survey 2014-2016   | Survey microdata | GPS               |                   |              |                 |              |                  |                                   |                                     | X        | National Bureau of Statistics (Tanzania), World Bank. Tanzania National Panel Survey 2014-2016. Washington DC, United States of America: World Bank.                                                                                                                                                      | 311265 |

| Country                     | Years   | Name                                             | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NID    |
|-----------------------------|---------|--------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| United Republic of Tanzania | 2015-16 | Tanzania Demographic and Health Survey 2015-2016 | Survey microdata | GPS               | X                 |              | X               | X            | X                |                                   |                                     | X        | ICF International, Ministry of Health (Zanzibar), Ministry of Health, Community Development, Gender, Elderly and Children (MoHCDEC) (Tanzania), National Bureau of Statistics (Tanzania), Office of the Chief Government Statistician (OCGS) (Zanzibar). Tanzania Demographic and Health Survey 2015-2016. Fairfax, United States of America: ICF International, 2016.                                                                                                                                                                                                                                                                                                       | 218593 |
| United Republic of Tanzania | 2017    | Tanzania HIV Impact Survey 2016-2017             | Survey microdata | Admin 1           | X                 |              |                 |              |                  |                                   |                                     |          | Centers for Disease Control and Prevention (CDC), ICAP, Columbia University Mailman School of Public Health, Ministry of Health (Zanzibar), Ministry of Health, Community Development, Gender, Elderly and Children (MoHCDEC) (Tanzania), National AIDS Control Program (NACP) (Tanzania), National Bureau of Statistics (Tanzania), National Health Laboratory Quality Assurance and Training Centre (NHLQATC) (Tanzania), Office of the Chief Government Statistician (OCGS) (Zanzibar), Tanzania Commission for AIDS (TACAIDS), Zanzibar AIDS Commission (ZAC), Zanzibar Integrated HIV, Tuberculosis and Leprosy Program (ZIHTLP). Tanzania HIV Impact Survey 2016-2017. | 327591 |
| Zambia                      | 2000    | Zambia Sexual Behavior Survey 2000               | Survey microdata | Admin 2           | X                 | X            | X               | X            |                  | X                                 | X                                   | X        | Central Board of Health (Zambia), Central Statistical Office (Zambia), MEASURE Evaluation Project, Carolina Population Center, University of North Carolina, University of Zambia, Zambian National AIDS Council. Zambia Sexual Behavior Survey 2000. Lusaka, Zambia: Central Statistical Office (Zambia).                                                                                                                                                                                                                                                                                                                                                                   | 27924  |

| Country | Years   | Name                                                 | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                             | NID   |
|---------|---------|------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Zambia  | 2001-02 | Zambia Demographic and Health Survey 2001-2002       | Survey microdata | Admin 2           |                   | X            | X               | X            | X                | X                                 | X                                   | X        | Central Board of Health (Zambia), Central Statistical Office (Zambia), Macro International, Inc. Zambia Demographic and Health Survey 2001-2002. Fairfax, United States of America: ICF International.                                                                               | 21102 |
| Zambia  | 2003    | Zambia Living Conditions Monitoring Survey 2002-2003 | Survey microdata | Admin 2           |                   |              |                 |              |                  |                                   |                                     | X        | Central Statistical Office (Zambia). Zambia Living Conditions Monitoring Survey 2002-2003. Lusaka, Zambia: Central Statistical Office (Zambia).                                                                                                                                      | 14027 |
| Zambia  | 2003    | Zambia Sexual Behavior Survey 2003                   | Survey microdata | Admin 2           | X                 | X            | X               | X            |                  |                                   |                                     | X        | Central Board of Health (Zambia), Central Statistical Office (Zambia), MEASURE Evaluation Project, Carolina Population Center, University of North Carolina, Zambian National AIDS Council. Zambia Sexual Behavior Survey 2003. Lusaka, Zambia: Central Statistical Office (Zambia). | 27952 |

| Country | Years | Name                                                     | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                                                                             | NID   |
|---------|-------|----------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Zambia  | 2005  | Zambia Sexual Behavior Survey 2005                       | Survey microdata | Admin 2           | X                 | X            | X               | X            |                  | X                                 | X                                   | X        | Central Statistical Office (Zambia), Department for International Development (DFID) (United Kingdom), Family Health International, MEASURE Evaluation Project, Carolina Population Center, University of North Carolina, Ministry of Health (Zambia), University of Zambia, Zambian National AIDS Council. Zambia Sexual Behavior Survey 2005. Lusaka, Zambia: Central Statistical Office (Zambia). | 27987 |
| Zambia  | 2007  | Zambia Demographic and Health Survey 2007                | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Central Statistical Office (Zambia), Macro International, Inc. Zambia Demographic and Health Survey 2007. Fairfax, United States of America: ICF International.                                                                                                                                                                                                                                      | 21117 |
| Zambia  | 2008  | Zambia Global Fund Household Health Coverage Survey 2008 | Survey microdata | Admin 3           |                   |              | X               | X            |                  |                                   |                                     |          | Central Statistical Office (Zambia). Zambia Global Fund Household Health Coverage Survey 2008. Lusaka, Zambia: Central Statistical Office (Zambia).                                                                                                                                                                                                                                                  | 26702 |

| Country | Years   | Name                                            | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                   | NID   |
|---------|---------|-------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Zambia  | 2009    | Zambia Sexual Behavior Survey 2009              | Survey microdata | Admin 2           | X                 | X            | X               | X            |                  | X                                 | X                                   | X        | Central Statistical Office (Zambia), MEASURE Evaluation Project, Carolina Population Center, University of North Carolina, Ministry of Health (Zambia), University of Zambia, Zambian National AIDS Council. Zambia Sexual Behavior Survey 2009.                                           | 59339 |
| Zambia  | 2010    | Zambia Living Conditions Monitoring Survey 2010 | Survey microdata | Admin 3           |                   |              |                 |              |                  |                                   |                                     | X        | Central Statistical Office (Zambia). Zambia Living Conditions Monitoring Survey 2010.                                                                                                                                                                                                      | 58660 |
| Zambia  | 2013-14 | Zambia Demographic and Health Survey 2013-2014  | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Central Statistical Office (Zambia), ICF International, Ministry of Health (Zambia), Tropical Diseases Research Centre, University Teaching Hospital (Zambia), University of Zambia. Zambia Demographic and Health Survey 2013-2014. Fairfax, United States of America: ICF International. | 77516 |



| Country  | Years   | Name                                                                   | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                     | NID    |
|----------|---------|------------------------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Zambia   | 2016    | Zambia Population-based HIV Impact Assessment 2016                     | Survey microdata | Admin 2           | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Ministry of Health, Zambia, Centers for Disease Control and Prevention (CDC), and ICAP at Columbia University. Zambia Population-based HIV Impact Assessment (ZAMPHIA) 2015-16: First Report. Lusaka, Zambia, Atlanta, Georgia and New York, New York, USA: Ministry of Health, CDC and ICAP. December 2016. | 287630 |
| Zimbabwe | 2005    | Zimbabwe - Chimanimani Behavioral Risks and HIV Serostatus Survey 2005 | Survey report    | Admin 2           | X                 |              |                 |              |                  |                                   |                                     |          | Biomedical Research and Training Institute (Zimbabwe), Human Sciences Research Council, National Institute of Health Research, Ministry of Health and Child Welfare (NIHR) (Zimbabwe), Zimbabwe Central Statistics Office. Zimbabwe - Chimanimani Behavioral Risks and HIV Serostatus Survey 2005.           | 333662 |
| Zimbabwe | 2005-06 | Zimbabwe Demographic and Health Survey 2005-2006                       | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | Central Statistical Office (Zimbabwe), Macro International, Inc. Zimbabwe Demographic and Health Survey 2005-2006. Fairfax, United States of America: ICF International.                                                                                                                                     | 21163  |

| Country  | Years   | Name                                               | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                          | NID    |
|----------|---------|----------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Zimbabwe | 2009    | Zimbabwe Multiple Indicator Monitoring Survey 2009 | Survey microdata | Admin 1           |                   |              |                 |              |                  |                                   |                                     | X        | Central Statistical Office (Zimbabwe). Zimbabwe Multiple Indicator Monitoring Survey 2009. New York, United States of America: United Nations Children's Fund (UNICEF).                                           | 35493  |
| Zimbabwe | 2010-11 | Zimbabwe Demographic and Health Survey 2010-2011   | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF Macro, Zimbabwe National Statistics Agency. Zimbabwe Demographic and Health Survey 2010-2011. Calverton, United States of America: ICF Macro, 2012.                                                           | 55992  |
| Zimbabwe | 2014    | Zimbabwe Multiple Indicator Cluster Survey 2014    | Survey microdata | Admin 1           | X                 |              | X               |              | X                | X                                 | X                                   | X        | United Nations Children's Fund (UNICEF), Zimbabwe National Statistics Agency. Zimbabwe Multiple Indicator Cluster Survey 2014. New York, United States of America: United Nations Children's Fund (UNICEF), 2015. | 152720 |

| Country  | Years | Name                                                      | Type             | Geographic Detail | Male Circumcision | STI Symptoms | Had Intercourse | Partner Away | Condom Last Time | Multiple Partners in Year (Males) | Multiple Partners in Year (Females) | In Union | Citation                                                                                                                                                                                                                                                                                                                                  | NID    |
|----------|-------|-----------------------------------------------------------|------------------|-------------------|-------------------|--------------|-----------------|--------------|------------------|-----------------------------------|-------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Zimbabwe | 2015  | Zimbabwe Demographic and Health Survey 2015               | Survey microdata | GPS               | X                 | X            | X               | X            | X                | X                                 | X                                   | X        | ICF International, National Microbiology Reference Laboratory, Harare Central Hospital (NMRL) (Zimbabwe), Zimbabwe National Statistics Agency. Zimbabwe Demographic and Health Survey 2015. Fairfax, United States of America: ICF International, 2016.                                                                                   | 157066 |
| Zimbabwe | 2016  | Zimbabwe Population-based HIV Impact Assessment 2015-2016 | Survey report    | Admin 1           | X                 |              |                 |              |                  |                                   |                                     |          | Ministry of Health and Child Care (MOHCC), Zimbabwe, Centers for Disease Control and Prevention (CDC), and ICAP at Columbia University. Zimbabwe Population-based HIV Impact Assessment (ZIMPHIA) 2015-16: First Report. Harare, Zimbabwe, Atlanta, Georgia and New York, New York, USA: Ministry of Health, CDC and ICAP. December 2016. | 287631 |

25 Table S6: Fitted model parameters

|                                | Central sub-Saharan Africa      |                                 |                                 | Eastern sub-Saharan Africa      |                                 |                                 | Southern sub-Saharan Africa     |                                 |                                 | Western sub-Saharan Africa      |                                 |                                 |
|--------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Parameter                      | 0.025 <sup>th</sup><br>quantile | 0.500 <sup>th</sup><br>quantile | 0.975 <sup>th</sup><br>quantile | 0.025 <sup>th</sup><br>quantile | 0.500 <sup>th</sup><br>quantile | 0.975 <sup>th</sup><br>quantile | 0.025 <sup>th</sup><br>quantile | 0.500 <sup>th</sup><br>quantile | 0.975 <sup>th</sup><br>quantile | 0.025 <sup>th</sup><br>quantile | 0.500 <sup>th</sup><br>quantile | 0.975 <sup>th</sup><br>quantile |
| $\beta_0$                      | 0.253685                        | 0.515121                        | 0.770286                        | -0.53288                        | -0.50422                        | -0.47701                        | -0.14979                        | -0.10188                        | -0.05592                        | -0.15705                        | -0.03732                        | 0.078244                        |
| $\beta_1$ (GAM)                | -0.02418                        | 0.008061                        | 0.041656                        | -0.02213                        | 0.007645                        | 0.037226                        | -0.16251                        | -0.12408                        | -0.08363                        | 0.060003                        | 0.092049                        | 0.126741                        |
| $\beta_1$ (BRT)                | 1.403007                        | 1.482141                        | 1.559645                        | 1.315374                        | 1.33394                         | 1.351832                        | 1.800981                        | 1.83124                         | 1.860829                        | 1.219898                        | 1.267047                        | 1.310912                        |
| $\beta_1$ (Lasso)              | -0.35894                        | -0.2707                         | -0.18163                        | -0.06546                        | -0.03467                        | -0.00289                        | -0.39136                        | -0.34116                        | -0.28706                        | -0.19268                        | -0.1486                         | -0.10299                        |
| $\beta_2$                      | 0.451629                        | 0.498326                        | 0.542133                        | 0.098234                        | 0.112439                        | 0.125856                        | 0.254796                        | 0.266349                        | 0.277243                        | 0.380631                        | 0.407404                        | 0.432713                        |
| $\rho_{\text{time}}$ for $Z_1$ | 0.883892                        | 0.908635                        | 0.928452                        | 0.897637                        | 0.906859                        | 0.915387                        | 0.895411                        | 0.910193                        | 0.923208                        | 0.932207                        | 0.942362                        | 0.951111                        |
| $\rho_{\text{time}}$ for $Z_2$ | 0.865307                        | 0.920794                        | 0.95215                         | 0.965366                        | 0.978747                        | 0.986807                        | 0.961727                        | 0.975977                        | 0.984737                        | 0.953252                        | 0.972237                        | 0.983287                        |
| $\rho_{\text{age}}$ for $Z_2$  | 0.716841                        | 0.827258                        | 0.901701                        | 0.746117                        | 0.822233                        | 0.884198                        | 0.637884                        | 0.738138                        | 0.816578                        | 0.714179                        | 0.812046                        | 0.881451                        |
| $\rho_{\text{sex}}$ for $Z_2$  | 0.533708                        | 0.74552                         | 0.87028                         | 0.610472                        | 0.741752                        | 0.838326                        | 0.583274                        | 0.709504                        | 0.804087                        | 0.527538                        | 0.704386                        | 0.828723                        |
| Variance<br>for $\epsilon_i$   | 0.048589                        | 0.055504                        | 0.062965                        | 0.057004                        | 0.059642                        | 0.062256                        | 0.013574                        | 0.014608                        | 0.015661                        | 0.103492                        | 0.108788                        | 0.114034                        |
| Variance<br>for $Z_1$          | 0.176178                        | 0.227678                        | 0.287913                        | 0.283422                        | 0.310762                        | 0.33768                         | 0.104448                        | 0.123508                        | 0.143115                        | 0.188747                        | 0.224224                        | 0.261827                        |
| Variance<br>for $Z_2$          | 0.190976                        | 0.329295                        | 0.561731                        | 0.277958                        | 0.46078                         | 0.755944                        | 0.306212                        | 0.489873                        | 0.77307                         | 0.208818                        | 0.346227                        | 0.567555                        |
| Variance<br>for $Z_3$          | 0.043876                        | 0.094688                        | 0.212505                        | 0.576524                        | 0.912741                        | 1.475894                        | 0.026892                        | 0.051968                        | 0.101989                        | 0.115152                        | 0.182138                        | 0.291149                        |
| $\rho_{\text{age}}$ for $Z_3$  | 0.654685                        | 0.838997                        | 0.930165                        | 0.985394                        | 0.991968                        | 0.995635                        | 0.602617                        | 0.797226                        | 0.903595                        | 0.804755                        | 0.884715                        | 0.933775                        |
| Range for<br>$Z_1$             | 0.071699                        | 0.083626                        | 0.097649                        | 0.026409                        | 0.028002                        | 0.029697                        | 0.042837                        | 0.04682                         | 0.051193                        | 0.046778                        | 0.051456                        | 0.056636                        |
| Variance<br>for $U_{s[i]}$     | 0.091564                        | 0.11615                         | 0.146341                        | 0.171158                        | 0.190925                        | 0.212143                        | 0.054512                        | 0.064978                        | 0.076985                        | 0.100137                        | 0.112816                        | 0.126748                        |