Impact of dysphagia assessment and management on risk of stroke-associated pneumonia: A systematic review

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<table>
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| Al-Khaled et al. (2016)
[26] | Prospective observational, Germany | Ischemic stroke | 12276, M age 73 ± 13, Mdn NIHSS 4 (IQR 2-9), 25.1% dysphagic | 55, 39, 4.7 and 1.5% screened within 3, 3 to < 24, 24 to ≤ 72, and >72h from admission |
| Arnold et al. (2016)
[27] | Prospective observational, Switzerland | Ischemic stroke | 570, M age 65.1 (range, 19.6-94.7), M NIHSS dysphagia 9.8 ± 7.0 vs. 4.5 ± 5.1 non-dysphagia | < 24h from admission. |
| Bray et al. (2016)
[28] | Prospective observational, UK | Ischemic and haemorrhagic stroke | 63650, M age 77 (67-85), Mdn NIHSS dysphagia 9.8 ± 7.0 vs. 4.5 ± 5.1 non-dysphagia | Mdn time < 2.9h from admission (IQR 1.3-5.7 h) |
| Hinchley et al. (2005)
[29] | Prospective observational, USA | Ischemic stroke | 2532, Ave. age (SD) 70.5 (14), M NIHSS 7.2 (CI 6.8-7.5) | Pre oral intake in 61% (95% CI, 50-72); range at individual sites 22-100% |
| Hoffmeister et al. (2013)
[33] | Prospective observational, Chile | Ischemic stroke | 677, M women age 69.8 (95% CI 68-71.6), Mdn age 69.8 (95% CI 68-71.6) | < 48h admission |
| Joundi et al. (2017)
[30] | Prospective observational, Canada | Ischemic stroke | 6677, Age 80+ y 34.0% not screened vs. 41% screened, M NIHSS 4.29 not screened vs. 7.9 screened, 47.8% dysphagic | 80.8% ≤ 72h from admission |
| Maeshima et al. (2014)
[37] | Prospective observational, Japan | Ischemic stroke | 292, M age (SD) 69.9 ± 12.2, 71.6% dysphagic | 1.7 ± 1.7 days from stroke onset |
| Odderson et al. (1995)
[33] | Prospective observational, USA | Ischemic stroke | 124, Age of dysphagic 75.2 ± 1.5 vs. 75.3 ± 1.4 non-dysphagic, 38.7% dysphagic | < 24h of admission |
| Odderson and McKenna (1993)
[36] | Prospective observational, USA | Ischemic stroke | 121, Ave. age 73.9 | < 24h of admission |
| Palli et al. (2017)
[31] | Quasi experimental, Austria | Ischemic stroke | 384, M Age 72.3±13.7, M NIHSS 3, 37.5% dysphagic. | Mdn 7h (range, 1-69) (intervention group) |
| Perry and McLaren (2000)
[32] | Quasi experimental design, UK | Acute stroke | 400, M age (SD) Pre-test 73.4 (12.6)/71.6 (13.3) Post-test, Mdn NIHSS Pre-test 7 (IQR 5-12)/Post-test 8 (IQR 4-13), % dysphagia 43.1% post-test vs. 41.6% pre test | < 24h from admission. 74.5% screened ≤ 24h in post-test vs. 57.3% pre test, p<0.001 |
| Smithard et al. (1996)
[34] | Prospective observational, UK | Acute stroke | 121, Mdn age 79 (range, 40-93), 50% dysphagic | Days 0-3, 7 |

* M (Mean)/ Mdn (Median) age not available, † NIHSS not available, ‡ % dysphagia not available