

Development and mixed-methods evaluation of an online animation for young people about genome sequencing

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Published version

LEWIS, Celine, SANDERSON, Saskia C., HAMMOND, Jennifer, HILL, Melissa, SEARLE, Beverly, HUNTER, Amy, PATCH, Christine and CHITTY, Lyn S. (2020). Development and mixed-methods evaluation of an online animation for young people about genome sequencing. *European Journal of Human Genetics*, 28 (7), 896-906.

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QUESTIONNAIRE 1

Some questions about you

1. Are you a:

Boy

Girl

2. How old are you?

Some questions about your understanding of genetics

3. How would you describe your understanding of genetics?

None

Some

Good

4. Have you heard of these words before?

DNA Yes No

Gene Yes No

Chromosome Yes No

Genome Yes No

Genome sequencing Yes No

5. Do you know what these words mean?

DNA Yes No

Gene Yes No

Chromosome Yes No

Genome Yes No

Genome sequencing Yes No

Read the following questions and for each one answer True, False or Don't know

	True	False	Don't know
6. Our DNA is inside our cells	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Our DNA doesn't have an effect on how our body works	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Our complete set of DNA is called our genome	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Around 1% of our genome is the same as other people's	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Our genome is more similar to our close relatives, like our mum and dad, than it is with other people's	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Genome sequencing involves looking at all the DNA in a person's genome	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. A 'glitch' in the genome (like a spelling mistake) can cause a health problem because the body isn't getting the right instructions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Genome sequencing can be done on the DNA in a blood sample	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Doctors and scientists know all there is to know about what our genome does	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. If someone with a health problem has genome sequencing, they will always find helpful information about the cause of the problem	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

QUESTIONNAIRE 2

Some questions about the animation

1. Was the animation easy or hard to understand?

Very easy

Quite easy

Quite hard

Very hard

2. The amount of information in the animation was:

Too much

Too little

The right amount

3. The length of the animation was:

Too long

Too short

The right amount

4. What did you think about the way the animation looked?

I liked it very much

I quite liked it

I didn't like it

5. Did you learn anything new?

Yes

No

Not sure

6. Would you have found this animation helpful if you were making a decision about having genome sequencing?

Yes

No

Don't know

Some questions about your understanding

7. How would you describe your understanding of genetics?

None

Some

Good

8. Have you heard of these words before?

DNA Yes No

Gene Yes No

Chromosome Yes No

Genome Yes No

Genome sequencing Yes No

9. Do you know what these words mean?

DNA Yes No

Gene Yes No

Chromosome Yes No

Genome Yes No

Genome sequencing Yes No

Read the following questions and for each one answer True, False or Don't know

	True	False	Don't know
10. Our DNA is inside our cells	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Our DNA doesn't have any effect on how our body works	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Our complete set of DNA is called our genome	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Around 1% of our genome is the same as other people's	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	True	False	Don't know
14. Our genome is more similar to our close relatives, like our mum and dad, than it is with other people's	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Genome sequencing involves looking at all the DNA in a person's genome	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. A 'glitch' in the genome (like a spelling mistake) can cause a health problem because the body isn't getting the right instructions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Genome sequencing can be done on the DNA in a blood sample	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. We know all there is to know about what our genome does	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. If someone with a health problem has genome sequencing, they will always find helpful information about the cause of the problem	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Some questions about your attitude to genome sequencing

20. Imagine you had a health problem and your doctor suggested genome sequencing to understand more about the cause of your condition. Would you want to have genome sequencing?

Yes

No

Not sure

I would want more information before I made a decision

21. I feel I understand the benefits of genome sequencing

Agree

Disagree

Not sure

22. I feel I understand the limitations of genome sequencing (what it can't do)

Agree

Disagree

Not sure

23. I feel the decision to have / not have genome sequencing would be easy for me to make

Agree

Disagree

Not sure

Think about genome sequencing and answer the questions according to how you feel

24. Genome sequencing is:

A bad thing

A good thing

Neither

25. Genome sequencing is:

Harmful

Helpful

Neither

26. Genome sequencing is:

Boring

Interesting

Neither

Finally, in your own words, let us know what you thought of the animation and if there is any other information you would have liked in it:

That is the end of the questionnaire. Thank you for taking part in this study!