ChEHK-Q (English)





ChEHK-Q (English version)

Children's Environmental Health Knowledge Questionnaire

This scale could be used for research or clinical purposes provided the source is cited. If you use or modify this scale, please report to authors by –email to: <u>cagarcia@ujaen.es</u>

Cite as: Álvarez-García, C., Álvarez-Nieto, C., Pancorbo-Hidalgo, P. L., Sanz-Martos, S., & López-Medina, I. M. (2018). Student nurses' knowledge and skills of children's environmental health: Instrument development and psychometric analysis using item response theory. *Nurse Education Today, 69*, 113-119. <u>https://doi.org/10.1016/j.nedt.2018.07.008</u>

This questionnaire measures the overall knowledge on sustainability and climate change issues and their effects on healthcare delivery. It could be used for nursing students.

Scoring instructions

To calculate the overall knowledge score, 1 point is added for each item with a

correct answer. The following table shows the correct answer:

	True	False
1	х	
2		х
3	х	
4		Х
5		Х
6	Х	
7		Х
8	Х	
9	Х	
10		Х
11	Х	
12	х	
13		Х
14	Х	
15	Х	
16	Х	
17		Х
18	х	
19		Х
20		Х
21		Х
22	x	
23		x
24		x
25		x
26		x

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Items answered with "Don't know" are scored with 0 points. These items can be taken into account to identify areas of ignorance.

The maximum score is 26 points (Knowledge index 100%). Several indices can be calculated from the overall score:

- Knowledge index: Overall score / 26 X 100
- Ignorance index: Number of Don't know answers / 26 X 100

To categorize the knowledge level of nursing students according to the Knowledge Index, the following ranges are proposed:

- \rightarrow > 90% = excellent knowledge
- \rightarrow 89% 80% = very good knowledge
- \rightarrow 79% 60% = good knowledge
- \rightarrow 59% 40% = insufficient knowledge
- \rightarrow < 40% = poor knowledge





attitudes knowledge skills Children's Environmental Health

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Sustainability in healthcare means designing and delivering healthcare that uses resources in ways that don't prejudice future health and wellbeing.

Next, there are a series of statements about children's enviromental health. Please, read each statement carefully and tick one box, "Yes" or "No", to indicate whether you consider it correct or not according to current clinical practice guidelines. If you don't know, please tick "I don't know".

	True False I don´t know
1. The paediatric population is more susceptible to environmental threats due to their biological immaturity.	
2. The increased energy and metabolic consumption of the paediatric population protects children from environmental hazards.	
 The higher rate of cell growth during the paediatric age increases the risk of health effects caused by environmental factors. 	
 Environmental factors do not influence hormonal secretion during puberty. 	
5. Nitrogen oxide from fossil fuels in the home and tobacco smoke causes redness and burns on the skin.	
6. Particles from animals exacerbate asthma crisis.	
 Increased humidity at home improves respiratory diseases in children. 	
8. Passive smoking is associated with the development of acute leukemias in children.	
9. Childhood leukemia incidence rates are higher in the areas most exposed to radon.	st
10. Overexposure to solar ultraviolet radiations can damage the ski of adults more severely than that of children.	n
11. During childhood more than half of the expected lifetime solar ultraviolet radiation is absorbed.	

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	True False I don't know
12. Lead accumulates in the body affecting the nervous system.	
13. Chronic dietary exposure to mercury (fish and shellfish) is less toxic to children's central nervous system than to adults.	
14. Exposure to pesticides increases the risk of developing attention deficit problems in school-aged children.	
15. Children born to smoking mothers during pregnancy are at risk of lower intellectual capacity.	
16. Exposure to organic solvents during fetal development can cause learning disabilities in children.	
17. Water containing nitrates can only cause intoxication during childhood.	
18. Chlorination of water forms sub-products from the disinfection process that have been classified as carcinogenic.	
19. The major source of childhood exposure to pesticides is through ambient air.	
20. The main route of exposure to mercury is through cereal intake.	
21. Exposure to lead through diet occurs mainly through fish intake.	
22. Food colourings and preservatives are associated with central nervous system problems.	
23. Genetically modified foods cause fewer allergic reactions in children.	
24. Schools and nurseries are environmentally safe places.	
25. Children are exposed to higher concentrations of air pollutants at home than outdoors.	
26. Parks and gardens are the areas with the least environmental pollutants where children can play.	

