

Perceived health impacts of climate change in German kindergartens and implications for skin cancer prevention: an exploratory online survey

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supplementary material SI 2:

English translation of the full questionnaire for the Online Survey "Climate change and health" in German daycare centers including item abbreviations

Full questionnaire for the online survey "Climate change and health" in German kindergartens
(English translation)

Which age groups are cared for in your institution? (several answers are possible)

from 0 to under 3 years [free text: number of children in that age group]

from 3 years to starting school [free text: number of children in that age group]

from 1st to 4th grade [free text: number of children in that age group]

What are the opening hours of your daycare center?

from [free text]

to [free text]

What kind of organization runs your daycare center?

public organization, e.g. municipality, town or city

voluntary organization, e.g. a welfare organization (AWO, Caritas, DRK...), a parish, a parents' initiative, or a gGmbH

How many inhabitants does the place have where your daycare center is located?

If you don't know the exact number, please estimate!

under 2,000

2,000 to under 5,000

5,000 to under 20,000

20,000 to under 50,000

50,000 to under 100,000

100,000 to under 500,000

more than 500,000

How old are you?

under 20 years

20-29 years

30-39 years

40-49 years

50-59 years

60 years or older

Which gender do you identify with?

male

female

divers

What is your professional role at your daycare center?

mainly work with children

work with children and in administration/management in roughly equal shares

mainly work in administration/ management

Climate change brings about several changes, e. g. longer sunshine duration, low precipitation, and an increase in average temperatures. These changes may vary strongly from region to region and are perceived differently by different people. We would like to know to what extent you feel affected or stressed by climate change in your job as a pedagogical professional.

Have you experienced any of the following stressors in your daycare center in recent years?

scale: no stress – mild stress – moderate stress – severe stress – very severe stress

UV radiation [item abbreviation: educators: burden UV]

Heat [educators: burden heat]

extreme weather [educators: burden extreme weather]

air pollution [educators: burden air pollution]

allergens [educators: burden allergens]

infectious diseases [educators: burden infections]

psychological stress [educators: burden psychological]

What feelings do you associate with climate change? Please give 1 to 5 keywords!

When I think about climate change and its consequences, I feel...

[free text]

Do the effects of climate change pose a threat to your health in your profession?

Scale: strongly disagree – disagree – partly agree – agree – strongly agree

Climate change poses a major threat to my health as educational professional.

[item abbreviation: educators: threat local]

Climate change poses a major threat to the health of educational professionals in Germany.

[educators: threat national]

Climate change poses a major threat to the health of educational professionals all over the world.

[educators: threat global]

Children sometimes react quite differently to changing conditions than adults do. What was your impression in the recent years: In which of the following areas have you observed signs of stress among the children?

scale: no stress – mild stress – moderate stress – severe stress – very severe stress

UV radiation [item abbreviation: children: burden UV]

Heat [children: burden heat]

extreme weather [children: burden extreme weather]

air pollution [children: burden air pollution]

allergens [children: burden allergens]

infectious diseases [children: burden infections]

psychological stress [children: burden psychological]

According to your estimation: does climate change pose a threat to children's health?

Scale: strongly disagree – disagree – partly agree – agree – strongly agree

Climate change poses a major threat to the health of the children in our daycare center.

[item abbreviation: children: threat local]

Climate change poses a major threat to the health of the children in Germany.

[children: threat national]

Climate change poses a major threat to the health of the children all over the world.

[children: threat global]

As a pedagogical professional, on which topics would you like more information or professional training?

scale: I would like to see more information on this topic. – I feel sufficiently informed on this topic. – This topic is not relevant for our daycare center.

UV radiation

heat

extreme weather

air pollution

allergens

infectious diseases

psychological stress through climate change

Does your daycare center already have measures in place to counteract climate change-related health risks in these areas?

If yes, which measures are you aware of that are being implemented in your daycare center?

(measures like sun sails, heat emergency plan, flood protection, ventilation filters, water checks, advice from external providers, e. g. information on TBE vaccination)

Yes, measures relating to UV radiation: [free text]

Yes, measures relating to heat: [free text]

Yes, measures relating to extreme weather: [free text]

Yes, measures relating to air pollution: [free text]

Yes, measures relating to allergens: [free text]

Yes, measures relating to infectious diseases: [free text]

Yes, measures relating to psychological stress through climate change: [free text]

No, I'm not aware of any measures.

In your daycare center, have you carried out projects (or are you currently carrying out projects) that address climate change adaptation or climate protection/sustainability?

(e. g., projects on heat protection, UV protection, wildfire risk, protection of species, garbage separation and recycling, water saving, energy saving,...)

Yes, namely: [free text]

Not yet, but we are planning to do it.

No, because: [free text]

In case you carried out such projects, where did you obtain the information and material?

(several answers are possible)

Does not apply to me.

Internet research

Tips from colleagues

Input from parents

Guidance from institution

Further training or trade fair

Advice from expert advisors

Advertising by relevant providers

other sources, namely: [free text]

Do you have any specific requests regarding the information and materials for working with the children? (e.g., regarding topics, source of information, costs, design, scope...)

No, I don't have any requests.

Yes, namely: [free text]