

Attachment 1: Questionnaire

1 Sociodemographic data

Gender [1]

- female
- male
- other

Age (please click to select) [1]

17 – 45

I have already completed training in the medical and/ or scientific field (with/ without working in the profession and total duration > 1 year). [1]

- yes
- no

Prior to this study, I have attended other university studies in the medical and/ or scientific field (at least one year). [1]

- yes
- no

I am regularly committed (voluntarily) in the field of environmental issues (BUND, university group for sustainability of the University of Ulm, etc.). [1]

- yes
- no

2 Environmental affect

Please rate the following statements (agreement on Likert-type scale from 1-6 = strongly disagree - strongly agree)

1. I am worried about the environmental conditions in which future generations will probably have to live. [2]
2. It angers me when I see that Germany is failing to meet its climate protection targets. [2]
3. I get annoyed when others try to tell me that I should live in an environmentally conscious manner. [2]
4. Climate change threatens our quality of life here in Germany as well. [2]
5. Many environmental protection associations greatly exaggerate environmental problems. [2]
6. I feel powerless, because I think that average consumers can hardly contribute as much to energy conservation compared to industries. [1]
7. I am glad when sustainable initiatives (e.g. Fridays for Future, Greenpeace, etc.) receive a lot of public attention. [1]
8. I am afraid that mankind will be increasingly confronted with environmental and climate catastrophes in the future. [1]

3 Environmental cognition

Please rate the following statements (agreement on Likert-type scale from 1-6 = strongly disagree - strongly agree)

1. Regular people can make a significant contribution to environmental protection with our consumption and mobility behavior. [4]
2. Things other than the environment or nature are more important for leading a good life. [2]
3. We should all be willing to lower our current standard of living for the sake of the environment. [2]
4. Our way of life makes us responsible for many environmental problems in other countries as well (e.g. through the exploitation of raw materials or waste export). [3]
5. Science and technology will solve many environmental problems without requiring us having to change our way of life. [3]
6. We need more economic growth in the future, even if it burdens the environment. [2]
7. We should not consume more raw materials than can be regrown. [2]
8. Each and every individual bears responsibility for leaving a livable environment for future generations. [2]

4 Environmental behavior

Please rate the following statements (agreement on Likert-type scale from 1-6 = strongly disagree - strongly agree)

1. When buying food, I pay attention to the sustainability of the products (environmental compatibility, fair working conditions) and prefer to choose those with environmental and organic labels. [3]
2. At main meals, I almost always eat meat or sausage. [2]
3. I mainly buy second-hand products (online, flea markets, etc.). [1]
4. For my everyday errands I ride a bicycle, use public transportation or walk. [2]
5. I can imagine myself getting involved in environmental protection and nature conservation. [3]
6. I turn off electronic devices completely when not in use (not in stand-by mode). [4]
7. I often fly for private travel. [1]
8. When it comes to vacation, a destination far from home (long-distance travel) is important to me. [1]

5 Seminar- and student-specific questions

I have already participated in an event on "Climate, Environment, Plastics, etc." by Kühl/ Kühl. [1]

yes
no

Please rate the following statements (agreement on Likert-type scale from 1-6 = strongly disagree - strongly agree)

1. Relatives and friends would describe me as very environmentally conscious. [3]
2. I am more motivated to get involved in environmental protection if my lecturers are active in this respect themselves. [1]
3. Stays abroad (combined with air travel) during my studies are important for me to optimize my resume. [1]
4. I know how I can personally contribute as much as possible to environmental and climate protection in my everyday life. [1]

5. I feel sufficiently informed about current facts on climate change (e.g. through the media, the university, etc.). [1]
6. If someone in my group of friends were to deny the existence of climate change, I would try to convince him/ her otherwise. [1]
7. It is important to me that my future employer pays attention to the environmental footprint of the company/ institution. [1]
8. When choosing my future job, it is important to me that I can travel to work in a climate-friendly way (public transport, bicycle). [1]

6 Additional seminar- and student-specific questions only on the posttest (°variant for the comparison group, *variant for the intervention group).

Please rate the following statements (agreement on Likert-type scale from 1-6 = strongly disagree - strongly agree)

1. I think it is good when *environmentally relevant topics* are integrated into courses. [1]
2. I think it is good when *general medical topics* are integrated into courses. [1]
3. I find the integration of *environmental topics* in a course motivating to interact with them in more depth. [1]
4. I find the integration of *general medical topics* in a course motivating to interact with them in more depth. [1]
5. I thought that the selected *general medically relevant presentation topics*°/ *environmentally relevant presentation topics** were interesting. [1]
6. Completing the *questionnaires*°/ *the integration of the environmentally relevant topics in the course** increased my awareness of environmental and climate problems. [1]
7. I know how to reduce plastic consumption in my daily laboratory routine. [1]
8. I know why plastic is a problem for health and environment. [1]
9. I feel well informed about the negative health effects caused by climate change. [1]
10. I feel well informed on the topic of organ donation. [1]
11. I feel sufficiently informed to actively participate in a discussion about Coronavirus vaccines. [1]
12. I will advocate for vaccination education in the future. [1]

7 Environmental knowledge (multiple-choice format according to type A_{pos}, one correct answer out of five possible answers)

1. How many liters of water were used on average per day and bed in germany's hospitals in 2015? [1]
 - a) 300-600
 - b) 600-900
 - c) > 1000
 - d) 100-300
 - e) < 100
2. For which component of the coronavirus does Biontech's mRNA vaccine encode? [1]
 - a) Viral envelope
 - b) Viral capsid
 - c) Attenuated virus
 - d) Entire viral genome
 - e) Spike protein

3. Which of the sources indicated causes the most primary microplastics to enter the environment? [1]
 - a) Waste and industrial companies
 - b) Fiber wear from textiles
 - c) Motor vehicle traffic
 - d) Cosmetics and personal care products
 - e) Plastic packaging
4. What are the current regulations for organ donation in Germany? [1]
 - a) Dissent solution
 - b) Extended consent solution
 - c) There is no regulation on organ donation
 - d) Decision solution
 - e) Extended dissent solution
5. For which infectious disease is vaccination compulsory for children and staff in community and health care facilities throughout Germany? [1]
 - a) Tetanus
 - b) Hepatitis B
 - c) Diphtheria
 - d) Measles
 - e) TBE
6. What percentage of emerging infectious diseases have an animal origin? [1]
 - a) 20 %
 - b) 5%
 - c) 75 %
 - d) 50 %
 - e) 97 %
7. How many projects for the development of a vaccine against COVID-19 are there worldwide, according to the World Health Organization (WHO)? [1]
 - a) 200
 - b) ca. 75
 - c) ca. 120
 - d) ca. 40
 - e) < 20
8. What was the estimated annual global plastic consumption in medical, biological and agricultural research laboratories in 2014? (in tons per year) [1]
 - a) 5,5 M
 - b) 12 M
 - c) 3 M
 - d) 0,2 M
 - e) 20 M
9. What percentage of Germany's total CO₂ emissions were caused by the healthcare sector in 2019? [1]
 - a) <2%
 - b) 9,2 %
 - c) 5,2 %
 - d) 18 %
 - e) 12,7 %

10. In which of the following products are most plasticizers used? [1]
- PET bottle
 - Yogurt pot
 - Sticking bricks
 - PVC flooring
 - T-Shirts
11. How much plastic waste was generated per person in Germany in 2019? (private, commercial and industrial plastic waste combined) [1]
- 20 kg
 - 76 kg
 - 470 kg
 - 205 kg
 - 8 kg
12. How many of the 10 hottest summers since temperature records began (in 1881) have been recorded in the last 20 years? [1]
- 3
 - 1
 - 6
 - 9
 - 4
13. What is the share of patients who have already communicated with a doctor or therapist via video consultation (as of July 2020)? [1]
- 27 %
 - 13 %
 - 2 %
 - 41 %
 - 0,2 %
14. What amount of money did the German pharmaceutical industry spend on advertising in 2019? [1]
- 5 M €
 - 7,8 B €
 - 650 M €
 - 1,5 B €
 - 20 B €
15. Out of all the medical specialists, which ones use video consultations the most? [1]
- Surgical physicians
 - Non-surgical physicians
 - General practitioners
 - Psychological-psychotherapeutic-psychiatric physicians
 - Dentists
16. How many heart attack events could be prevented annually across Germany by curbing global warming from 3 degrees to 1.5 degrees? [1]
- 1000
 - ca. 15000
 - ca. 200
 - 200000
 - < 50

17. According to the German Foundation for Organ Transplantation, which organ was most common to be donated after death in 2018? [1]
- a) Lung
 - b) Kidney
 - c) Liver
 - d) Pancreas
 - e) Heart
18. How much did pharmaceutical companies spend on medical facilities and institutions in Germany in 2019 (e.g. for supporting events and donations)? [1]
- a) ca. 118 M €
 - b) ca. 20 M €
 - c) ca. 3 M €
 - d) ca. 900 M €
 - e) ca. 50 M €
19. How many EU countries (currently 27 member states) have mandatory vaccination for at least one disease? [1]
- a) 1
 - b) 8
 - c) 19
 - d) 12
 - e) 26
20. Which region of the world is most affected by declining populations of mammals, birds, amphibians, reptiles, and fish? [1]
- a) South and Central America
 - b) Asia
 - c) Europe
 - d) North America
 - e) Africa

References

- [1] Question designed by the authors.
- [2] Rubik F, Müller R, Harnisch R, Holzhauser B, Schipperges M, Geiger S. Umweltbewusstsein in Deutschland 2018. Ergebnisse einer repräsentativen Bevölkerungsumfrage. Dessau-Roßlau (DEU): Umweltbundesamt, Bundesministerium für Umwelt, Naturschutz und Reaktorsicherheit; 2019.
- [3] Scholl G, Gossen M, Holzhauser B, Schipperges M. Mit welchen Kenngrößen kann Umweltbewusstsein heute erfasst werden? Eine Machbarkeitsstudie. Dessau-Roßlau (DEU): Umweltbundesamt, Bundesministerium für Umwelt, Naturschutz und Reaktorsicherheit; 2016.
- [4] Bundeszentrale für politische Bildung (Bpb). M 04.04 Musterfragebogen "Umweltbewusstsein und Klimaschutz in ...". Berlin: Bpb; 2007. Zugänglich unter/available from: <https://www.bpb.de/lernen/grafstat/134897/m-03-04-musterfragebogen-umweltbewusstsein-und-klimaschutz-in->