

Climate Change and Health Curriculum



Professor Hirotaka Onishi
M1 Student
Gulmetova Komola
08.10.22

Contents:

1. Climate Change Definition
2. Global warming controversy
3. Negative Effects of Climate Change on Human Health
4. Climate Change Curricula
5. Challenges



What do you feel when you think about climate change?



Climate change

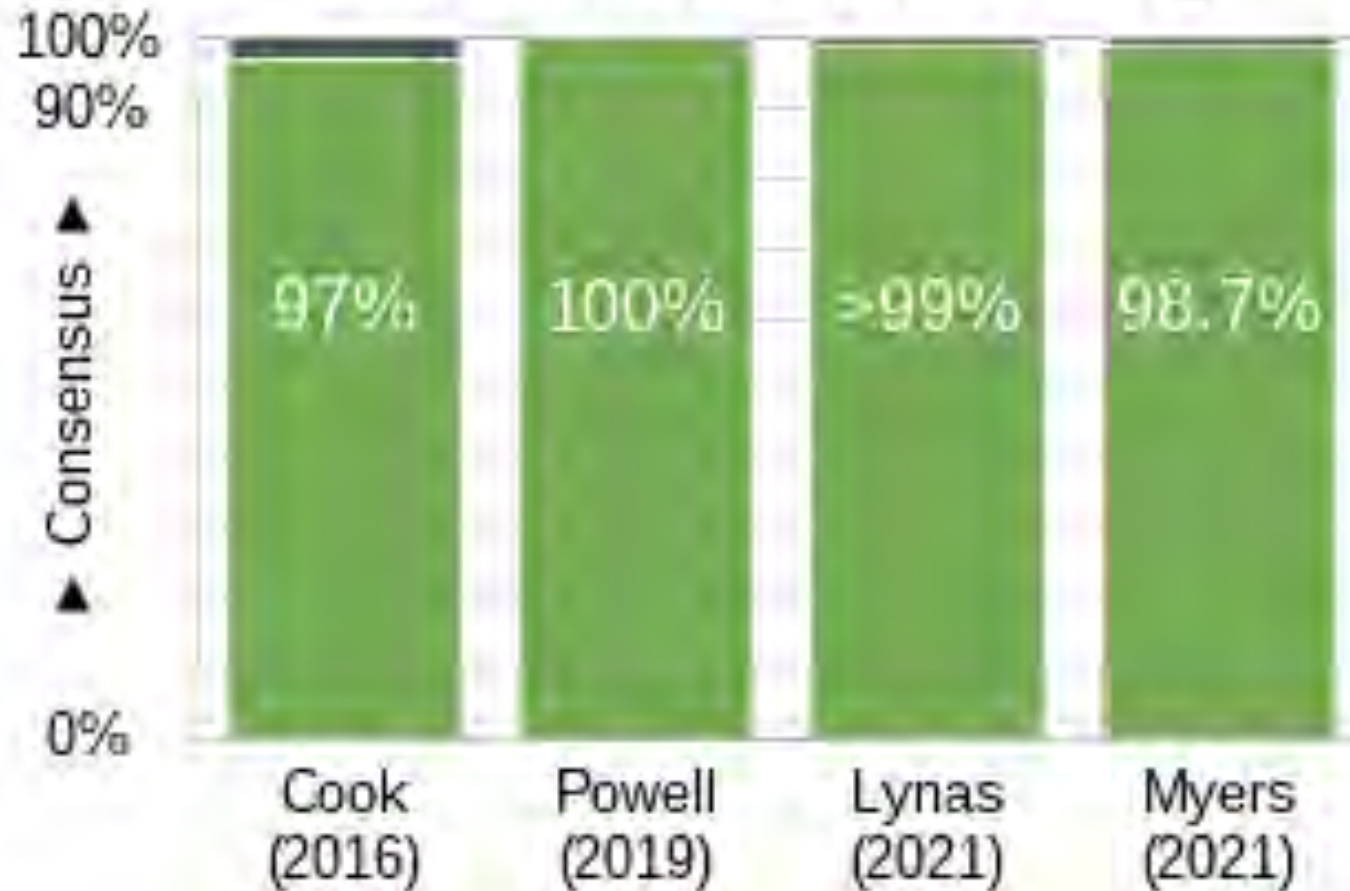
Climate change *noun* [uncountable] changes in the earth's weather, including changes in temperature, wind patterns, and rainfall, especially the increase in the temperature of the earth's atmosphere that is caused by the increase of particular gases, especially carbon dioxide (Definition of **climate change noun** from the Oxford Advanced American Dictionary)



https://www.oxfordlearnersdictionaries.com/definition/american_english/climate-change

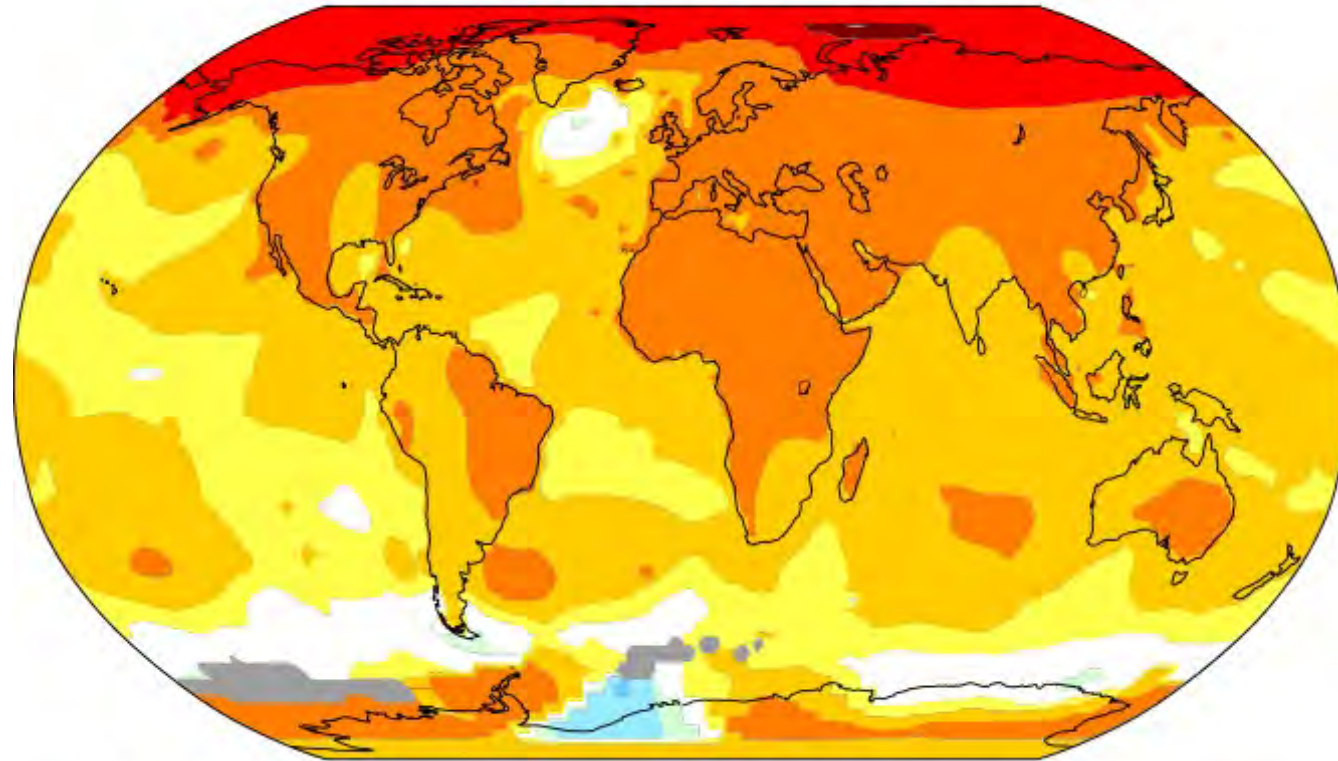
<https://climate.nasa.gov/effects/>

Academic studies of scientific consensus on human-caused global warming

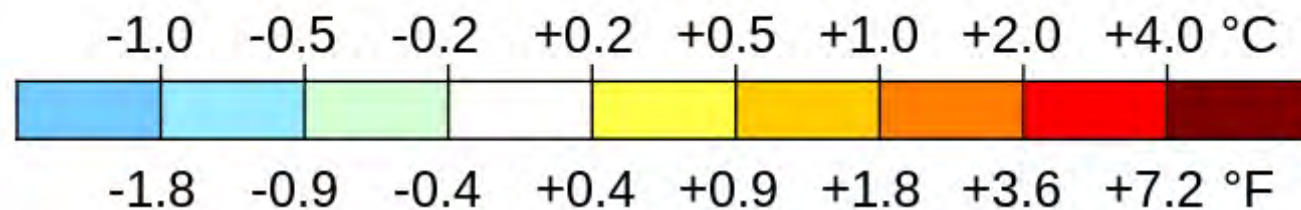


Observed temperature rise

Temperature change in the last 50 years

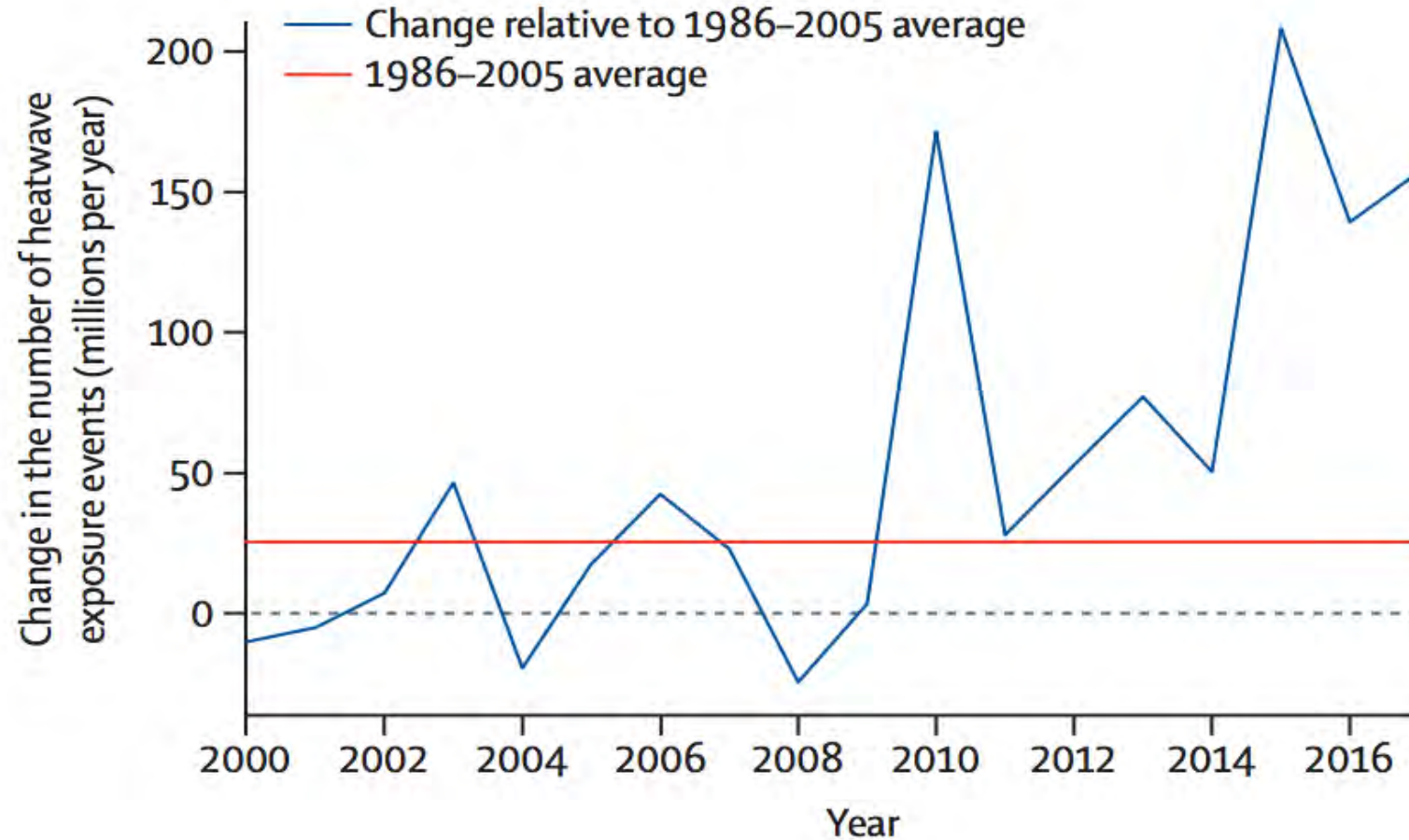


2011-2021 average vs 1956-1976 baseline





How climate affects community health - full video. YouTube.
(2019, July 9). <https://youtu.be/JywsWktvODc>



According to The Lancet Countdown on health and climate change's 2018 report, the blue line on the graph represents the variation in the number of people experiencing heatwave exposure events per year from 2010 to 2017. This is in comparison to the average number of people exposed to heatwaves between 1986 and 2005, represented by the red line.



IFMSA

International Federation of
Medical Students' Associations

2020

ACTIONS:



Accreditation Council for **2035**
Graduate Medical Education



2019

REFLECTIONS:

Despite some medical schools introducing courses on sustainability and climate change in response to the growing awareness of the issue, such initiatives remain scarce. An international survey conducted among 160 institutional members of the Global Consortium on Climate Change and Health Education revealed that only 15 respondents were medical schools. In the United States, the topic of "climate change" is notably absent from the Association of American Medical College's (AAMC's) Curriculum Inventory, which lists required and elective courses. Similarly, as of 2015, no Canadian medical school offered education on climate change, and by 2019, only three out of seventeen medical schools in Canada had appropriate climate and health education. This lack of incorporation of climate-related topics in medical education contradicts the strong advocacy for climate action from medical professional societies.

Rabin, B. M., Laney, E. B., & Philipsborn, R. P. (2020). The unique role of medical students in catalyzing climate change education. *Journal of Medical Education and Curricular Development*, 7, 238212052095765. <https://doi.org/10.1177/2382120520957653>

Why climate change should be integrated into medical education for three reasons?

- I. To equip students with the necessary skills for clinical practice in an evolving world impacted by climate change.
- II. To enhance public health awareness and eco-health literacy.
- III. To enhance current learning experiences and reinforce essential graduate qualities.



Maxwell, J., & Blashki, G. (2016). Teaching about climate change in medical education: An opportunity. *Journal of Public Health Research*, 5(1). <https://doi.org/10.4081/jphr.2016.673>