

Planetary Health Education and Capacity Building For Healthcare Professionals



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What is Planetary Health (PH)

Planetary health is a scientific field and global movement focused on understanding and quantifying the growing **human health impacts** of **anthropogenic global environmental change**, and **developing solutions** that will allow humanity and the natural systems we depend on to thrive now and in the future.



**PLANETARY
HEALTH
ALLIANCE**

For any change or solution, it needs **Great Transition**
same for Planetary Health

- **To foster collaboration** across disciplines, borders, and generations
- **To convene and empower** the next generation of planetary health leaders
- **To educate and disseminate** the latest in planetary health science, innovation, and inspiration













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PLANETARY HEALTH EDUCATION

Global Context-Current Opportunities, Gaps
and Future Directions

Planetary Health Education and Capacity Building for Healthcare Professionals in a Global Context: Current Opportunities, Gaps and Future Directions

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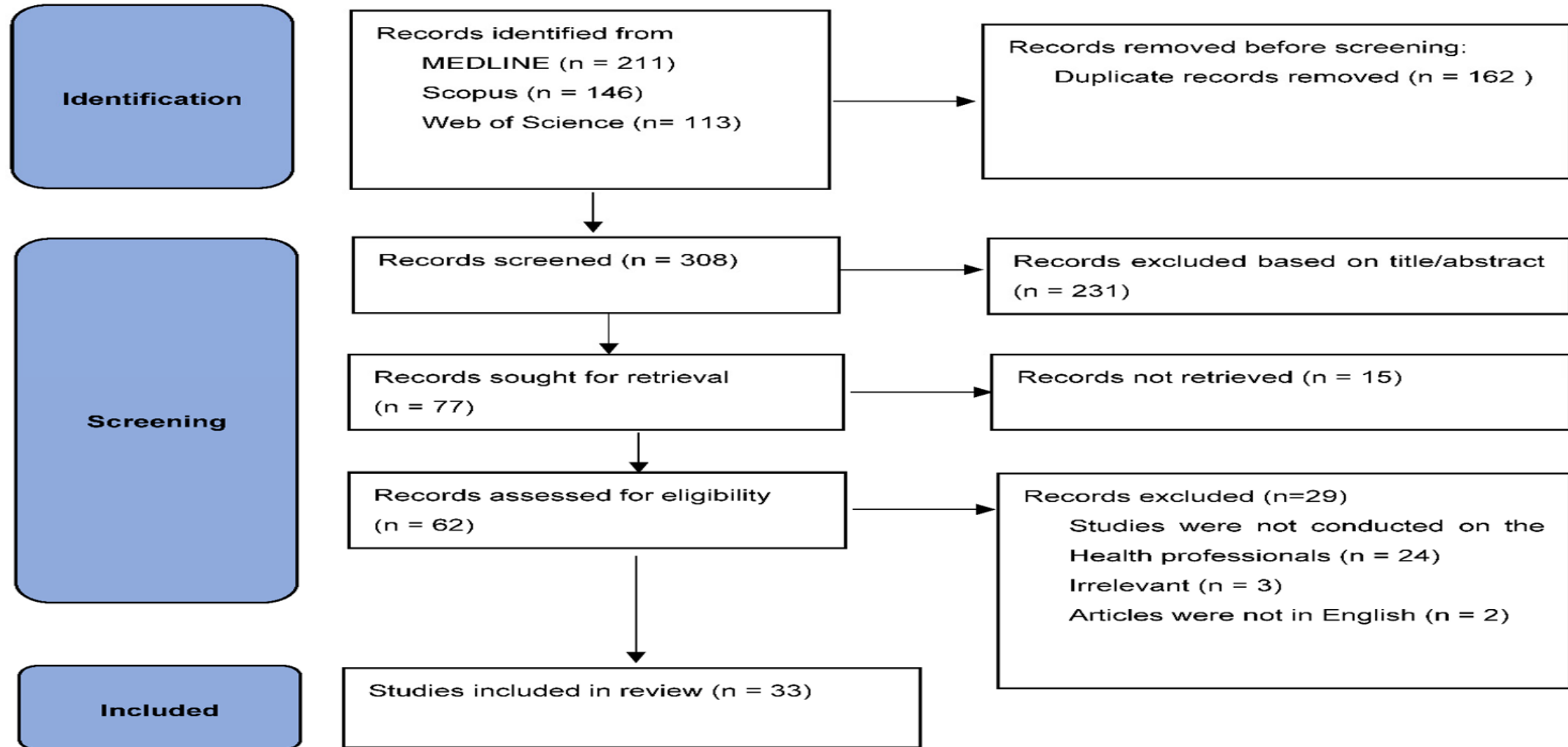
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Our screened publications on PH Education



Publication year	Article type/ Study design	Region/Country Focus	Target group/profession
2020	Case study	Canada	Medical Students
2021	Medical education	Northern Ireland	Medical Students
2021	Consensus statement	Global	Medical students
2020	Observational study	Global	Medical Students
2020	Correspondence	Canada	Medical students
2021	Editorial	UK	Medical Students
2021	Cohort study	Global	Medical Students
2020	Perspective paper	USA	Medical Students
2020	Editorial	Australia	Medical Students
2020	Perspective paper	UK	Medical students
2022	Mixed method study	Australia	Medical professionals
2022	Mixed method study	Australia and New Zealand	Public health and medical graduates
2022	Opinion	Global	Doctors and medical students
2022	Comment	Global	Medical professionals
2018	Perspective paper	USA	Nurses
2019	Perspective paper	Global	Nurses
2017	Perspective paper	Global	Nurses
2020	Scoping review	Global	Nurses
2017	Review article	USA	Nurses
2018	Review article	Global	Nurses
2020	Perspective paper	Global	Global health education
2015	Delphi approach	UK	Faculty development
2019	Commentary	UK, EU and USA	Case studies on clinical settings
2020	Qualitative study	USA	Faculty development
2020	Perspective paper	USA	Faculty development
2020	Commentary	Global	Faculty development
2021	Commentary	Global	Educators, Leaders, Mentors
2020	cross-sectional study	Global	Health institutions
2020	Perspective paper	Global	Food and nutrition education
2020	Review article	Global	Community health workers
2021	Editorial	Sweden, Germany, New Zealand, Ireland and USA	Physiotherapists
2020	Perspective paper	Global	Physiotherapists
2021	Commentary	Global	Pharmacist

Available Opportunities we identified

Few core initiatives:

- Clinicians for Planetary Health (C₄PH)
- Planetary Health Report Card(PHRC)
- PH regional hubs & campus ambassadors
- PH curriculum development and advocacy
- Environmental Physiotherapy Agenda 2023
- Environmental Stewardship in Nursing: Introducing the “WE ACT–PLEASE” Framework

Few key resources:

- AMEE Consensus Statement: Planetary health and education for sustainable healthcare
- Network of ‘Education for Sustainable Healthcare’
- PH online community
- Global anthology of case studies with teaching guides (June 2020)
- PH textbook & open-access curricula directory (August 2020)
- Climatizing the internal medicine residency curriculum: A practical guide for integrating the topic of climate and health into resident education
- Policy statement of the American Medical Association- Global Climate Change and Human Health
- The Planetary Health Education Framework by PHA

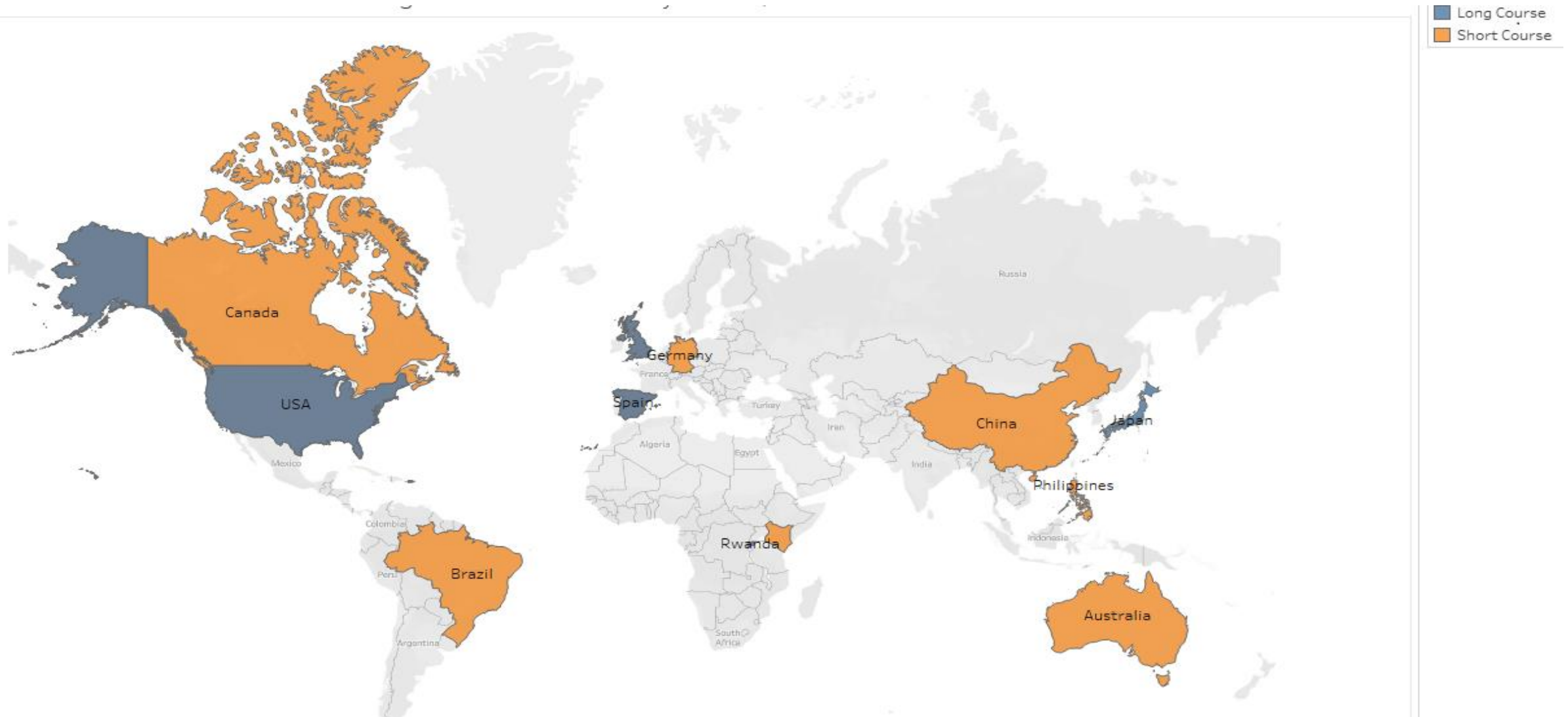
Available short courses on PH for HCPs

Recommended Courses	Institutions/Platform	Course Type	Duration	Language
Biological Systems and Planetary Health	University of the Philippines Los Baños	Online academic course	14 weeks	English
Health Impacts of Climate Change	Yale School of Public Health	Online certificate program	18 weeks	English
Planet to People's School for Human and Environmental Health	Teachable/Planet to People	Online short course	1 week	English
Planetary Health: Health of Humanity and the Planet in the Anthropocene	Humboldt University of Berlin	Project tutorial course	180 h	German
Population Health Environment short course	PHE Learning Lab at Pathfinder International and the University of Nairobi	Short course	12 weeks	English
The Health Effects of Climate Change	Harvard University: (edX course)	Online short course	7 weeks	English
Climate Change and Health: From Science to Action Specialization	Coursera, Yale University	Online course	3 months	English
Changements climatiques et santé: prévenir, soigner et s'adapter.	Insitut National de Santé Publique du Québec/Quebec's National Institute of Public Health	Massive open online course (MOOC)	6 weeks	French
Climate change and health	Iiversity	MOOC	6 weeks	English
The Impact of Climate Change on Public Health	Future Learn	Online course	4 weeks	English
Global Health Diplomacy Course	Coursera, Stony Brook University	Online short course	30 h	English
Food, Sustainability and Planetary Health	The University of Sydney	Unit of study course	16 weeks	English

Available long courses on PH for HCPs

Available Courses	Institutions	Type of Course	Duration	Language
Planetary Health Postdoctoral Fellowship	London School of Hygiene and Tropical Medicine	Postdoctoral fellowship program	2 years	English
UCGHI GloCal Health Fellowship	University of California	Postdoctoral fellowship	12 months	English
One Health: A Transdisciplinary Approach	George Mason University	Part of PhD program	1 semester	English
MSc in Global Challenges	University of Edinburgh	MSc certificate course	3–6 years	English
Master's degree in Planetary Health	Open University of Catalonia (UOC) and ISGlobal	Master's certificate course	1–2 years	Castellà, Català
MSc Environment and Human Health	University of Exeter	Master's program	1–3 years	English
Global and Planetary Health Concepts	Portland State University School of Public Health	Graduate course	1 year	English
Master of Public Health in Global Health, Planetary Health curriculum	Tokyo Medical and Dental University	Graduate course	2 years	English
Master of Science in Global Health Delivery	University of Global Health Equity	Graduate course	1 year	English
Master of Planetary Health	ISGlobal Barcelona Institute for Global Health, University of Barcelona	Online graduate course	9 months	Catalan/Spanish
MPH One Health	Mel and Enid Zuckerman College of Public Health, The University of Arizona	Graduate course	2 years	English
Global Challenges (Planetary Health) BASc	Brunel University London	Undergraduate course	3–4 years	English
Planetary Health minor	Dominican University of California	Undergraduate course	1 year	English

Geographic distribution of courses on PH for HCPs



The Major Gaps we observed

Key gaps in inclusion-

- Fewer or no engagement of allied health professions except medical students and nurses (e.g. Clinical psychology, speech and language therapy, occupational or physiotherapy, medical assistants, dentistry, CHWs, midwifery, local and indigenous professions such as Ayurvedic, Homeopathy, traditional healers)
- Challenging Integration of PH education into so many specialized clinical curricula
- Institutional and national political bureaucracy
- Poor internal integration and little external cohesion in medical education

Profound inequality across disciplines-

- Colonial distribution of initiatives and thoughts
- Unfair resource allocation
- Variable perception and awareness among HCPs
- Poor policy and governance in global south
- Inadequate public engagement with clinicians regarding 'Planetary Wellbeing'

‘Apart from success stories, there is a noticeable lack of knowledge and resource equity between the Global South and North. The majority of the available PH courses and discussions of curriculum development, presented in this article, have emerged from high-income countries’ -Asaduzzaman *et al* 2022

‘Similar previous concepts, such as One Health, have been developed with an inequitable focus on animal health whilst neglecting the public health and environmental perspective’ -Lerner, H. *et al* ; Front. Vet. Sci. 2017



THE WAYS FORWARD

The Future Directions should focus :

DECOLONIZATION



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Recommendations

Focusing on-

- Faculty development
- Public and professional awareness
- Dedicated network building of motivated HCP leaders and regional hubs with a strong political agenda

Involvement of-

- Students and trainees in development and implementation of curricula
- Civil societies, politicians and professional bodies e.g. Medical/Dental associations

Implementation of-

- Patient-oriented PH management (e.g. Basic course for all general practitioners around the globe)
- Universal planetary health module for all healthcare professionals

Thank you!

If you'd like to continue the conversation,
please contact at

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