

Waipapa
Taumata Rau
**University
of Auckland**

Research ethics preparedness: Lessons for the next pandemic

8 Dec 2025

⇒ AABHL



Susan Bull

Epidemic Ethics

<https://epidemicethics.tghn.org/>



EPIDEMIC ETHICS

Research, Preparedness & Response

Mission: develop a credible, reliable, timely, and accessible global community which provides high-quality advice, support, resources, and capacity strengthening to help respond to ethical issues as they arise and to support ethical decision-making in the context of public health emergencies.

Key objectives:

- To support the identification and evaluation of ethical issues arising in policy development, practice, and research.
- To help leverage, coordinate and support real-time, contextual ethical decision-making in public health emergencies.
- To build capacity globally and locally to embed ethics in public health preparedness and response to public health emergencies.
- To conduct empirical and normative research that addresses ethical issues from outbreaks and emergencies outbreaks and promotes preparedness for future public health emergencies.
- To support the work of the WHO Emergencies Programme and WHO R&D Blueprint for Action to Prevent Epidemics.

Led by Katherine Littler – WHO Health Ethics and Governance Unit

Seminars – rapid responses & global perspectives

<https://epidemicethics.tghn.org/seminars/>

The image displays a collage of promotional cards for seminars organized by PHEPREN (the Global Forum on Bioethics in Research and Practice) and GFBR (the Global Forum on Bioethics in Research and Practice). Each card features the PHEPREN logo, a title, a brief description, and a 'Get the latest...' button. The seminars cover a wide range of topics related to COVID-19 ethics and research:

- Ethics of data sharing in health research**: Chair: Robert Foy, 20th November.
- Epidemic Ethics: How to engage communities with COVID-19 research quickly and effectively**: Chair: Lisa Schwartz.
- Epidemic Ethics: An Epidemic of Research: publication ethics during a public health emergency**: Chair: Professor Ross Upsher.
- Epidemic Ethics: Is it OK for research participants to be infected?**: Chair: Professor Ross Upsher.
- Epidemic Ethics: Covid: A case for research exceptionalism?**: Chair: Professor Ross Upsher.
- Ethics of research in pregnancy**: Chair: Professor Ross Upsher.
- Adapting Ethics Review During the COVID-19 Pandemic**: Chair: Professor Ross Upsher.
- A Grand Experiment: Ethical responsibilities in the global rollout of COVID-19 vaccines**: Chair: Professor Ross Upsher.
- The Impact of COVID-19 on mental health: Research practice: Ethical issues**: Chair: Professor Ross Upsher.
- Challenges & ethical implications of digital health**: Chair: Professor Ross Upsher.
- PHEPREN & GFBR: Ethics of adaptive trial design**: Chair: Professor Ross Upsher.
- Using 'unproven' clinical interventions during public health emergencies: Ethical considerations**: Chair: Professor Ross Upsher.

Each card also includes a 'Get the latest...' button and a small video thumbnail. The bottom right card includes social media handles: @EpidemicEthics, @tghn, and @ForumBioethics, along with the logo for THE GLOBAL HEALTH NETWORK.

Public Health Ethics Analysis 8
Series Editor: Michael J. Selgelid

Susan Bull · Michael Parker
Joseph Ali · Monique Jonas
Vasanth Muthuswamy · Carla Saenz
Maxwell J. Smith · Teck Chuan Voo
Jantina de Vries · Katharine Wright *Editors*

Research Ethics in Epidemics and Pandemics: A Casebook



 Springer

44 complex cases and nine thematic commentaries

Authors

Juan Manuel Alba Bermúdez - Melchor Alpízar-Salazar - Dulce María Fernanda Alpízar-Sánchez
Jennyfer Radeino Ambe - Ilana Ambrogi - Action Amos - Verónica Anguita Mackay
Femke Bannink Mbazzi - Capucine Barcellona - Javiera Bellolio Avaria - Nikola Biller-Andorno
Luciana Brito - Susan Bull - Dabota Yvonne Buowari - James J. Callery - Michael H. Campbell
Jesica E. Candanedo P. - Sarah Carracedo - Lynn M. Chambonnet - Dennis Chasweka
Phaik Yeong Cheah - Christopher Chiu - Jesús Manuel De Aldecoa-Castillo o - Charalambos Dokos
Donna M. Denno - Vanessa Jaelle Dor - José Alberto Galván Magaña - Raimundo Gazitúa Pepper
Nithya Gogtay - María Inés Gómez - Nishakanthi Gopalan - Katie Groom - Richard Haynes
Shakel Samara Shameeka Henson - Peter Horby - Li Yang Hsu - Monique Jonas - SharonKaur
Phang Kean Chang - Rachel King - Katarzyna Klas - Nandini Kumar - Shuba Kumar Samarth
Markus Klaus Labude - Juan Alberto Lecaros - Timothy Nicholas Lee - Ignacio Esteban León
Sergio Litewka - Lorna Luco - Ignacio Mastroleo - Kyriakoula Manaridou - Tania Manríquez Roa
Maria Elena Marson - Guido Enrique Mastrantonio Garrido - Roli Mathur - Helen McShane
Maru Mormina - Christopher Moxon - Vasanth Muthuswamy - Chirk Jenn Ng - Busisiwe Nkosi
Deborah Nyirenda - Tom Obengo - Michael Parker - Ana Palmero - Kathy Peri
Rafael Rodrigoda Silva Pimentel - Magalys Quintana - Elise Racine - Christina Reith
José de Jesús Resendiz Rojas - Carla Saenz - Sofía P. Salas - Jennifer Salgueiro - Ana V. Sánchez
Marcelo José dos Santos - Edson Silvados Santos - William K. H. Schilling - Mira L. Schneiders
Janet Seeley - Maryam Shahmanesh - Maxwell J. Smith - Miranda Zoe Smith - Sarah Sullivan
Halina Suwalowska - Leticia Suwedi-Kapesa - Tivyashinee Tivyashinee - Claude Vergès - Teck Chuan Voo
Jantina de Vries - Marcín Waligora - James A. Watson - Jane Williams - Michelle Wilson
Katharine Wright - Vicki Xafis - Argentina Ying B. - Thembelihle Zuma

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Casebook themes

- Complex interactions between researchers, reviewers and policy makers
- Research prioritisation and de-prioritisation
- Research quality and dissemination
- Boundaries between research, surveillance and monitored emergency use
- Adapting and adaptive research
- Ethical review challenges
- Data curation and sharing
- Inclusion and vulnerability
- Participant protections: recruitment and responsibilities

Parties shall be guided by ‘the best available science and evidence as the basis for public health decisions for pandemic prevention, preparedness and response.’

(WHO Pandemic Agreement 2025)

However:

Pandemics are also radically non-ideal research environments, characterised by:

- Urgency

- Complex whole of society impacts

 - Overburdened health systems

- Challenging evidentiary landscapes

 - Uncertain, rapidly evolving, contested, infodemics

Responding to rapidly evolving pandemic landscapes

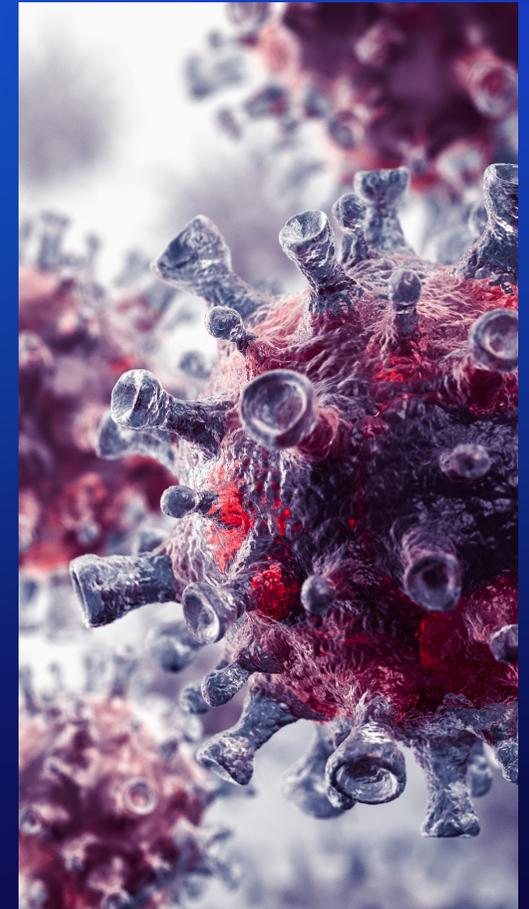
- Changing / competing obligations, values and priorities of researchers, reviewers and policy-makers
 - What constitutes sufficient evidence to inform policy changes and early implementation?
 - What responsibilities arise to implement novel policies in ways that can be evaluated?
 - What responsibilities do researchers have when involved in policy-making processes?
- Case study examples
 - Early implementation of innovative telemonitoring approaches
 - Controlled human infection studies



What counts as research?

Research, surveillance and monitored emergency use

- Challenges with distinguishing between research and non-research responses
- Case study examples
 - When are antibody testing and systematic data collection surveillance or research activities?
 - Following emergency authorisation –
 - Should the initial administration of vaccines be considered research or rollout?
 - Should vaccine trials be unblinded?
 - When is use of unproven interventions outside clinical trials justifiable?



Policy responses: Declaration of Helsinki 2024

*“The workgroup proposes a rewritten paragraph 37 because of substantial feedback at multiple regional and topical meetings about the paragraph’s misuse during COVID-19. The 2013 language “may use” was previously inappropriately relied on to justify use of therapies proven **ineffective**. “*

General Principles (2024)

8. While new knowledge and interventions may be urgently needed during public health emergencies, it remains essential to uphold the ethical principles in this Declaration during such emergencies.

Unproven Interventions in Clinical Practice (2024)

37. When an unproven intervention is utilized in an attempt to restore health or alleviate suffering for an individual patient because approved options are inadequate or ineffective and enrollment in a clinical trial is not possible, it should subsequently be made the object of research designed to evaluate safety and efficacy. Physicians participating in such interventions must first seek expert advice, weigh possible risks, burdens, and benefits, and obtain informed consent. They must also record and share data when appropriate and avoid compromising clinical trials. These interventions must never be undertaken to circumvent the protections for research participants set forth in this Declaration.

Prioritising and deprioritising research: competing considerations



- How should decisions about reprioritising research in response to outbreaks be reached?
- Complexities include:
 - Health system burdens and constraints on research capacity
 - Changing funding priorities
 - Implications of de-prioritising existing research
 - Breadth of research required
 - Emerging (non-evidence based) practices
- Case study examples
 - Balancing priorities: clinical & social science research
 - Reprioritising research into community priority areas
 - Responding to widespread off-label use of medication

Adapting and adaptive research

- Adapting research methods and designs to constraints and contexts
 - What is required, desirable or unjustified?
- Adaptive research designs
 - Managing modifications in outbreak contexts
 - Treatments, doses, sample sizes, interim data analysis
- Case study examples
 - RECOVERY
 - Suspending participation
 - Moving from in-person to remote designs
 - Responding to emerging evidence



Looking forward: 100 days missions

‘Reducing the impact of future pandemics by making diagnostics, therapeutics, and vaccines available within 100 days’

(International Pandemic Preparedness Secretariat 2025)

100DM Framework Outputs, Outcomes, and Impact

VISION: within 100 days of a recognised international trigger (e.g. WHO PHEIC), diagnostics, therapeutics and vaccines are approved* and ready to be produced at scale for global deployment

SPHERE OF CONTROL IPPS activities	SPHERE OF INFLUENCE		SPHERE OF INTEREST
	100DM 2025 outputs	100DM long term outcomes	Impact
 <p>Facilitating and convening multisectoral collaborations</p>  <p>Providing technical expertise (STEG, implementation reports)</p>  <p>Influencing global political agendas</p>	 <p>DIAGNOSTICS R&D</p> <ul style="list-style-type: none"> Publish 100DM diagnostics roadmap Develop rapid point-of-care tests for at least two priority viral families Reduce complexity of diagnostic regulatory pathways 	<ul style="list-style-type: none"> Diagnostics R&D is coordinated in a sustainable ecosystem Development of diagnostics libraries provides broad coverage for priority viral families Diagnostics routinely linked to testing and treatment 	<ul style="list-style-type: none"> DTVs are rapidly developed, and equitably distributed based on greatest impact and need, in the event of a pandemic threat Products authorised for use in humans (e.g. EUA) within 100 days due to pre-emptive data generation and high-quality clinical trials mobilised rapidly utilising existing infrastructure Pathogens are characterised using genomic sequencing and other integrated approaches, with surveillance data shared to prevent outbreaks from escalating into pandemics Each region produces technologies, pivoting its manufacturing sites along the value chain in response to threats, ensuring equitable and timely access to critical inputs Countries have access to and mobilise funding to reduce pandemic threat escalation
	 <p>THERAPEUTICS R&D</p> <ul style="list-style-type: none"> Therapeutics Development Coalition launched and operationalised Coalition is supported to take de-risked candidates through preclinical and early clinical development, bringing assets to phase 2 for at least two viral families 	<ul style="list-style-type: none"> Prototype therapeutics libraries developed, supported by pre-agreed procedures in place for therapeutic repurposing and equitable access At least two therapeutics products for the WHO viral families with high pathogen potential, ideally with different mechanisms of action 	
	 <p>VACCINES R&D</p> <ul style="list-style-type: none"> Progress vaccine candidates for priority viral families to clinical stages Establish economic risk-sharing models to enable development of diverse platform technologies 	<ul style="list-style-type: none"> Continued work on vaccine libraries covering WHO priority pathogen families Rapidly programmable platform technologies available Vaccine platforms optimised for large-scale production 	
	 <p>CLINICAL TRIALS AND REGULATORY PROCESSES</p> <ul style="list-style-type: none"> Global emergency use clinical trial guidance finalised and adopted, utilising regional networks Regulators coordinate to adopt preparatory regulatory approaches Regional reliance models adopted, enabled by an appropriate number of globally recognised regulatory authorities in each region 	<ul style="list-style-type: none"> Clinical trial sites are sustained between pandemics Best practices on clinical trial design and innovative and adaptive trial designs utilised Master trial protocols pre-agreed for use in emergencies, emphasising real-world evidence for product licensure Preparatory and harmonised regulatory frameworks adopted by regulators for pathogens where traditional randomised controlled trials are unfeasible Strengthened and aligned regulatory capacity in all regions with pharmacovigilance enabled from the outset 	
	 <p>SURVEILLANCE</p> <ul style="list-style-type: none"> Collaborative surveillance enhanced through international networks National capacities for data collection and early warning systems strengthened Digitally connected diagnostics feed into the surveillance system 	<ul style="list-style-type: none"> International network(s) of global/regional/local surveillance systems identifies outbreaks and enables trusted data sharing Reliable, fair, safe, and fit-for-purpose mechanisms for rapid exchange of pathogen samples enable equitable R&D efforts for DTVs 	
	 <p>SUSTAINABLE AND GEO-DIVERSIFIED MANUFACTURING</p> <ul style="list-style-type: none"> Regional authorities supported to implement sustainable manufacturing capacities Continued strengthening of public-private partnerships within regional manufacturing strategies for drug substances, drug products and intermediaries Preparatory voluntary licensing systems expanded on a case-by-case basis and as appropriate 	<ul style="list-style-type: none"> There is capacity and capability to produce DTVs in each region The ecosystem supports voluntary licensing, technology transfer, supply-side incentives for investment and demand-side procurement mechanisms Developers and manufacturers align on platforms that can be adapted to produce both routine and pandemic products 	
	 <p>SUSTAINED PANDEMIC FINANCING AND EQUITABLE PROCUREMENT</p> <ul style="list-style-type: none"> Global recommendations set on surge financing, stockpiling strategy, and advanced market commitments Procurement agreements prioritise equitable access 	<ul style="list-style-type: none"> Mechanisms enable the automatic release of funding (e.g., for procurement) tied to globally agreed trigger points LMICs can purchase and distribute DTVs through equitable allocation and procurement of supplies 	

Looking forward: 100 days missions

Embedding ethics in pandemic

- prevention,
- preparedness, and
- response ...

Thank you!

Susan.bull@auckland.ac.nz



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