In January 2023, the Science and Security Board of the Bulletin of the Atomic Scientists moved the hands of the Doomsday Clock forward to 90 seconds before midnight, reflecting the growing risk of nuclear war.1 In August 2022, the UN Secretary-General António Guterres warned that the world is now in “a time of nuclear danger not seen since the height of the Cold War.”2 The danger has been underlined by growing tensions between many nuclear armed states.1,3 As editors of health and medical journals worldwide, we call on health professionals to alert the public and our leaders to this major danger to public health and the essential life support systems of the planet—and urge action to prevent it.

Current nuclear arms control and nonproliferation efforts are inadequate to protect the world’s population against the threat of nuclear war by design, error, or miscalculation. The Treaty on the Non-Proliferation of Nuclear Weapons (NPT) commits each of the 190 participating nations “to pursue negotiations in good faith on effective measures relating to cessation of the nuclear arms race at an early date and to nuclear disarmament, and on a treaty on general and complete disarmament under strict and effective international control.”4 Progress has been disappointingly slow and the most recent NPT review conference in 2022 ended without an agreed statement.5 There are many examples of near disasters that have exposed the risks of depending on nuclear deterrence for the indefinite future.6 Modernization of nuclear arsenals could increase risks: for example, hypersonic missiles decrease the time available to distinguish between an attack and a false alarm, increasing the likelihood of rapid escalation.

Any use of nuclear weapons would be catastrophic for humanity. Even a “limited” nuclear war involving only 250 of the 13,000 nuclear weapons in the world could kill 120 million people outright and cause global climate disruption leading to a nuclear famine, putting 2 billion people at risk.7,8 A large-scale nuclear war between the US and Russia could kill 200 million people or more in the near term, and potentially cause a global “nuclear winter” that could kill 5 to 6 billion people, threatening the survival of humanity.7,8 Once a nuclear weapon is detonated, escalation to all-out nuclear war could occur rapidly. The prevention of any use of nuclear weapons is therefore an urgent public health priority and fundamental steps must also be taken to address the root cause of the problem—by abolishing nuclear weapons.

The health community has had a crucial role in efforts to reduce the risk of nuclear war and must continue to do so in the future.9 In the 1980s the efforts of health professionals, led by the International Physicians for the Prevention of Nuclear War (IPPNW), helped to end the Cold War arms race by educating policy makers and the public on both sides of the Iron Curtain about the medical consequences of nuclear war. This was recognized when the 1985 Nobel Peace Prize was awarded to the IPPNW (https://www.ippnw.org).10

In 2007, the IPPNW launched the International Campaign to Abolish Nuclear Weapons, which grew into a global civil society campaign with hundreds of partner organizations. A pathway to nuclear abolition was created with the adoption of the Treaty on the Prohibition of Nuclear Weapons in 2017, for which the International Campaign to Abolish Nuclear Weapons was awarded the 2017 Nobel Peace Prize. International medical organizations, including the International Committee of the Red Cross, the IPPNW, the World Medical Association, the World Federation of Public Health Associations, and the International Council of Nurses, had key roles in the process leading up to the negotiations, and in the negotiations themselves, presenting the scientific evidence about the
Reducing the Risks of Nuclear War—The Role of Health Professionals

The danger is great and growing. The nuclear armed states must eliminate their nuclear arsenals before they eliminate us. The health community played a decisive part during the Cold War and more recently in the development of the Treaty on the Prohibition of Nuclear Weapons. We must take up this challenge again as an urgent priority, working with renewed energy to reduce the risks of nuclear war and to eliminate nuclear weapons.

ARTICLE INFORMATION

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Conflict of Interest Disclosures: Dr Olde Rikkert reported receiving research grants from the Dutch Research Council and Netherlands Organisation for Health Research. Dr Haines reported grants from the Wellcome Trust and additional funding from the Oak Foundation; royalties from Cambridge University Press for a book on planetary health; consulting fees paid to his institution for serving as a senior advisor on climate change from Wellcome Trust; serving on steering committees or advisory groups for global health for African research organizations (without compensation); and cochairing working groups on climate change (without compensation). Dr Helfand reported receiving honoraria for speaking engagements (all donated to Back from the Brink, IPPNW, or Physicians for Social Responsibility); support for travel and lodging for Nobel Peace Laureates summit, World Federation of Public Health Associations World Congress, and UN Human Rights Commission Youth Summit; and serving on the boards for IPPNW and International Campaign to Abolish Nuclear Weapons (without compensation). Dr Ruff reported receiving consulting fees from the Institute for Energy and Environmental Research for related work; honoraria from the Choisun Ilbo media group and from Hyogo Medical Practitioners Association and Peace Boat for presentations on nuclear weapons; payment for serving as expert witness on radiation and health for Environmental Justice Australia; serving on a rotavirus vaccine development scientific advisory board for Murdoch Children's Research Institute; serving on several committees related to nuclear weapons and prevention of nuclear war; and serving as copresident of IPPNW. Dr Yonga reported serving as a principal investigator for a COVID-19 antiviral for Atea Pharmaceuticals; receiving honoraria for lectures, presentations, and educational events from bioMerieux and Pfizer; serving on an advisory board for Pfizer; and...
serving on committees or panels for the European Society of Clinical Microbiology and Infectious Diseases. Mr Zielinski reported receiving payment as senior advisor on the IPPNW journals project. No other disclosures were reported.

**Note:** This Editorial is being published simultaneously in multiple journals. For the full list of journals see [https://www.bmj.com/content/full-list-authors-and-signatories-nuclear-risk-editorial-august-2023](https://www.bmj.com/content/full-list-authors-and-signatories-nuclear-risk-editorial-august-2023).

**REFERENCES**


