Indian Journal of Medical Ethics Published online first on November 20, 2026

EDITORIAL

Critical condition: What are we doing about nuclear war?

KAMRAN ABBASI, PARVEEN ALI, VIRGINIA BARBOUR, MARION BIRCH, MATTHEW BIVENS, INGA BLUM, FRANCISCO JAVIER BONILLA-ESCOBAR, RICHARD HORTON, KATI JUVA, JOSE F LAPENA JR, ELENA N NAUMOVA, TILMAN RUFF, PEUSH SAHNI, OLGA TRUSHINA, JAMES TUMWINE, TIAGO VILLANUEVA, PAUL YONGA, CHRIS ZIELINSKI

Editorials on nuclear risk and health appeared in over 150 leading health journals in 2023 and 2025 [1, 2]. Why, then, are we publishing this new series of editorials on the subject?

Tensions affecting the planet have become extreme. Nuclear sabre-rattling has been heard in Russia and Ukraine, India and Pakistan, Iran, Israel and the United States, and intensified over much of the globe. Nuclear arsenals carrying the instruments of death have been modernised, upgraded and expanded. In 2025, the nuclear armed states — China, France, India, Israel, North Korea, Pakistan, Russia, the United Kingdom and the United States — spent just under $119 billion, or $3,768 per second, on their nuclear arsenals, an increase of 19% from the previous year [3]. The Doomsday Clock is inexorably approaching midnight [4].

Nuclear armed states collectively hold more than 12,000 nuclear warheads [5]. Given the number of cities on the planet, it may seem that the world could survive a full-scale nuclear war. But this is not the case. Urban sprawl links everyone: about 2.8 billion people (30% of the world's population) live in 33 megacities [6]. In fact, it would take very few bombs to kill billions directly, and then bring about abrupt global cooling in a nuclear winter that would kill billions more from ensuing famine [7].

Today's climate models show that even a "small" nuclear war would have far more catastrophic effects on world climate and food supplies than previously thought [7]. These models have begun to look at what would happen to our ozone and what the effects of increased ultraviolet radiation would be on crops [8], but as yet do not account for disruption of agricultural labour, food transport, storage and distribution, disruption of agricultural inputs including fuel, machinery, parts, seed, fertiliser or pesticides, contamination of croplands, or wider political and economic unrest. Modern civilization could not survive even a small nuclear war, while using just 2-3% of the weapons we currently possess could cause billions to die, mostly from starvation.

The imperative to pull back from the brink has pushed the multilateral system into action. In late 2024, the United Nations (UN) General Assembly, declaring itself "alarmed at the renewed prospect of nuclear war, and gravely concerned by the catastrophic humanitarian and environmental consequences that would result," voted to initiate a comprehensive review of current knowledge about the consequences of nuclear war [9]. The UN Secretary General appointed a 21-member independent scientific panel to prepare a report, which is due in 2027.

In 2025, thanks to global pressure (including our last editorial [2]), the World Health Assembly voted to update obsolete World Health Organization (WHO) studies on the public health effects of nuclear war [10]. A new WHO report is due in 2029. In March 2026, WHO staff were reported as being "vigilant in the event of a nuclear incident" in relation to the war on Iran [11].

Together, the forthcoming reports of the UN and WHO represent the first major international reassessments of the effects of nuclear war by these bodies in nearly 40 years.

Meanwhile, work on top-level international nuclear treaties has intensified. In 2017, an overwhelming majority of the world's nations adopted a global agreement to ban nuclear weapons, known officially as the Treaty on the Prohibition of Nuclear Weapons (TPNW) [12]. The Treaty entered into force in January 2021 and, to date, 75 countries have become "states parties" legally bound to it, and a further 25 have signed it [13]. However, as we approach the first TPNW review conference, to be held in New York at the end of the year, none of the nine nuclear weapons-armed states has signed or ratified the Treaty, although pressure for them to do so is growing.

The principal focus of those in favour of nuclear weapons is that they prevent nuclear war through nuclear deterrence: nuclear weapons are presumed to provide "strategic stability" among the states that possess them, since nobody wants to escalate quarrels into a nuclear war. However, deterrence creates a form of security, or merely a feeling of security, that remains fragile, asymmetric, dependent on the permanent threat of catastrophe, and blind to the needs of non-nuclear states.

Insights from psychology and neuroscience suggest that decisions about nuclear weapons are not 'rational', as deterrence implies, but are likely to be shaped by mental shortcuts, statistical reasoning errors and slight changes in decision contexts [14, 15]. All of these may lower the threshold regarding the use of nuclear weapons and lead to an irrational reluctance to abandon vast nuclear arsenals that are more than sufficient to end human civilisation. Humanity's survival is thus in the hands of few

fallible decision-makers. A future editorial will address evidence from neuroscience and cognitive and social psychology.

Apart from geopolitical developments, the world is witnessing the growing impact of technology on war — artificial intelligence used in profiling and targeting, drones and other delivery technology [16, 17] — accompanied by the rise of "infodemics" of mis- and disinformation [18, 19], which raise the likelihood of nuclear accidents and have their own impact on health. We will be considering these information disorders in another future editorial.

Health professionals have a vital role to play in keeping a health focus in public discussions on nuclear risk. We need a verifiable, deadline-driven agreement to eliminate all nuclear weapons. This is why it is essential that the health sector continues to demand that every country — including the nuclear armed states — should join the Treaty on the Prohibition of Nuclear Weapons. The flourishing, and even the survival, of the human species is at stake.

Note: *This Editorial is being published simultaneously in multiple journals. For the full list of journals, please see: https://www.bmj.com/content/full-list-authors-and-signatories-critical-condition-editorial-november-2026*

Authors: Kamran Abbasi, Editor-in-Chief, *British Medical Journal,* London, UK; **Parveen Ali,** Editor-in-Chief, *International Nursing Review,* Sheffield, UK; **Virginia Barbour,** Editor-in-Chief, *Medical Journal of Australia,* Brisbane, Australia; **Marion Birch,** Editor-in-Chief, *Medicine, Conflict and Survival,* London, UK; **Matthew Bivens,** Harvard Medical School, Boston, USA; **Inga Blum,** Co-President, International Physicians for the Prevention of Nuclear War (IPPNW), Hamburg, Germany; **Francisco Javier Bonilla-Escobar,** Editor-in-Chief, *International Journal of Medical Students,* Cali, Colombia; **Richard Horton,** Editor-in-Chief, *The Lancet,* London, UK; **Kati Juva,** Co-President, IPPNW, Helsinki, Finland; **Jose F Lapena Jr,** Editor-in-Chief, *Philippine Journal of Otolaryngology, Head and Neck Surgery,* and President, WAME, Manila, Philippines; **Elena N Naumova,** Editor-in-Chief, *Journal of Public Health Policy,* Boston, USA; **Tilman Ruff,** Past President, IPPNW, Melbourne, Australia; **Peush Sahni,** Editor-in-Chief, *National Medical Journal of India,* New Delhi, India; **Olga Trushina,** Co-President, IPPNW, Moscow, Russia; **James Tumwine,** Editor-in-Chief, *African Health Sciences,* Kampala, Uganda; **Tiago Villanueva,** Editor-in-Chief, *Acta Médica Portuguesa,* Lisbon, Portugal; **Paul Yonga,** Editor-in-Chief, *East African Medical Journal,* Nairobi, Kenya; **Chris Zielinski** (corresponding author — CZielinski@ippnw.org), University of Winchester, and Past President, WAME, Winchester, UK.

Conflict of Interest and Funding: Combined conflict of interest forms

To cite: Abbasi K, Ali P, Barbour V, Birch M, Bivens M, Blum I et al. Critical condition: What are we doing about nuclear war? *Indian J Med Ethics.* Published online first on November 20, 2026. DOI: 10.20529/IJME.2026.070

Copyright and license

©*Indian Journal of Medical Ethics* 2026: Open Access and Distributed under the Creative Commons license (CC BY-NC-ND 4.0), which permits only non-commercial and non-modified sharing in any medium, provided the original author(s) and source are credited.

References

1. Abbasi K, Ali P, Barbour V, Bibbins-Domingo K, Olde Rikkert M, Haines A, et al. Reducing the risks of nuclear war—the role of health professionals. *BMJ* 2023; 382. https://doi.org/10.1136/bmj.p1682
2. Abbasi K, Ali P, Barbour V, Birch M, Blum I, Doherty P, et al. Ending nuclear weapons, before they end us. *BMJ.* 2025;389. https://doi.org/10.1136/bmj.r881
3. International Campaign to Abolish Nuclear Weapons (ICAN). Premeditated: nuclear weapons spending in 2025: report. Geneva: ICAN; 2026 [cited 2026 Sep 15]. Available from: https://assets.nationbuilder.com/ican/pages/13703/attachments/original/1780950756/ICAN_Spending_Report_2026_web.pdf
4. Bulletin of the Atomic Scientists. Doomsday Clock. Chicago: Bulletin of the Atomic Scientists; 2026 [cited 2026 Sep 15]. Available from: https://thebulletin.org/doomsday-clock/
5. Arms Control Association. Nuclear weapons: who has what at a glance. Washington, DC: Arms Control Association; 2026 [cited 2026 Sep 15]. Available from: https://www.armscontrol.org/factsheets/nuclear-weapons-who-has-what-glance
6. United Nations Department of Economic and Social Affairs. World urbanization prospects 2025: summary of results. UN DESA/POP/2025/TR/NO. 12. New York: United Nations; 2025[cited 2026 Sep 15]. Available from: https://desapublications.un.org/publications/world-urbanization-prospects-2025-summary-results
7. Xia L, Robock A, Scherrer K, Harrison C, Bodirsky B, Weindl I et al. Global food insecurity and famine from reduced crop, marine fishery and livestock production due to climate disruption from nuclear war soot injection. *Nat Food.* 2022;3:586-596. https://doi.org/10.1038/s43016-022-00573-0
8. Shi Y, Montes F, Di Gioia F, Xia L, Bardeen CG, Anderson CT, et al. Adapting agriculture to climate catastrophes: the nuclear winter case. *Environ Res Lett.* 2025;20:064006. https://doi.org/10.1088/1748-9326/adcfb5
9. United Nations. Nuclear war effects and scientific research. Resolution A/C.1/79/L.39. New York: United Nations; 2024 Oct 15[cited 2026 Sep 15]. Available from: https://docs.un.org/en/A/C.1/79/L.39
10. World Health Organization. Effects of nuclear war on public health. World Health Assembly resolution WHA78.28. Geneva: World Health Organization; 2025.
11. Lubin R. WHO officials admit they are preparing for possible nuclear weapon use in Iran. The Independent. 2026 Mar 19 [cited 2026 Sep 15]. Available from: https://www.independent.co.uk/news/world/americas/us-politics/iran-nuclear-weapons-who-warning-b2941153.html
12. United Nations. Treaty on the Prohibition of Nuclear Weapons. New York: United Nations; 2017 Jul 7[cited 2026 Sep 15]. Available from: https://treaties.un.org/pages/viewdetails.aspx?chapter=26&clang=_en&mtdsg_no=xxvi-9&src=treaty
13. International Campaign to Abolish Nuclear Weapons (ICAN). TPNW signature and ratification status. Geneva: ICAN; 2026 [cited 2026 Sep 15]. Available from: https://www.icanw.org/signature_and_ratification_status
14. Slovic P, Peterson M, McDermott R, Post DR, Västfjäll D. When our minds go nuclear: rethinking nuclear strategy through the psychology of risk and decision-making. *Texas Natl Secur Rev.* 2026;9(3):8-27. https://doi.org/10.1353/tns.00038
15. Landau-Wells M. Building from the brain: advancing the study of threat perception in international relations. *Int Organ.* 2024;78(4):627-667. https://doi.org/10.1017/S0020818324000328
16. Kirichenko D. Artificial intelligence's growing role in modern warfare. War Room. 2025 [cited 2026 Sep 15]. Available from: https://warroom.armywarcollege.edu/articles/ais-growing-role/
17. Bhardwaj S. Killer robots, drone swarms, and deepfakes: how AI is running modern warfare. Open. 2026 [cited 2026 Sep 15]. Available from: https://openthemagazine.com/world/killer-robots-drone-swarms-and-deepfakes-how-ai-is-running-modern-warfare
18. Zielinski C. Infodemics and infodemiology: a short history, a long future. *Rev Panam Salud Publica.* 2021;45. https://doi.org/10.26633/RPSP.2021.40
19. Rodrigues F, Newell R, Babu GR, Chatterjee T, Sandhu N et al. The social media infodemic of health-related misinformation and technical solutions. *Health Policy Technol.* 2024;13(2):100846. https://doi.org/10.1016/j.hlpt.2024.100846