Paradox of Health in a World of Conflict

Editorial

Abstract

Before the world could recover fully from the devastating impact of the COVID-19 pandemic, 2023 saw the world embroiled in major conflict in Europe and the Middle East while other areas continue to remain on the brink of breakthroughs of further death and destruction. While the lessons from the pandemic demonstrated the power of scientific as well as political collaboration and speedy development of technological progress with the combined economic power and scientific minds such as in the development of vaccines, the conflicts have thrown up much greater challenges.

There is a direct consequence of conflict in the loss of civilian lives, often impacting women and children as visible in the Israel-Hamas conflict in Gaza but also the displacement of millions of people both within their countries or as refugees in neighbouring countries. The healthcare infrastructure suffers, funding for research is compromised and health outcomes plummet.

There is also the moral and ethical challenge faced by health professionals in areas of conflict as well as by the wider scientific and research communities forced to impose sanctions or restrict access by military administrations. What should the scientific and health professionals do in the face of such challenges? What are the ethics and sections of the Hippocratic oath that should apply? This editorial explores the challenges and seeks solutions.

Keywords

Conflict, healthcare infrastructure, health outcomes, ethical challenges

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Background

In human history, progress is measured in outcomes, such as healthy life years. predicted life span at birth, and measures of mortality such as maternal, and childhood before measures such as outcomes related individual diseases. The evidence suggests that broader health coverage generally leads to better access to necessary care and improved population health, particularly for poor people. 1 Science and technological advances have a significant contribution to progress, paradoxically often at a cost such as the impact on the environment. In times of conflict, research is logistically difficult, there is limited funding, and it is difficult to position research as a lifesaving effort in the short term. In the past, research has been cited as a distraction to core medical, water and sanitation, nutrition. and protection priorities and at times, research has been conducted in ethically problematic ways. 2

While there is a spike in progress from a technological perspective during times of conflict due to the need for faster adoption of technology as seen in the World wars, the economy suffers and It has been proven that the economic recession of the aggressor is the worst in comparison with the victim country, such as in Ukraine-Russia conflict.³ It is inevitable that when an economic downturn ensues, real-life health outcomes suffer.

As healthcare professionals, it is challenging to make any sense of such a dichotomy. The discoveries that underlie technologies from the gun to the atomic bomb emerged from the minds of scientists, aided by the need for military domination. Consequently, creators of those and many technologies have found themselves in moral quandaries resulting from the violent application of their insights. 4 An interesting development in the Israel-Gaza conflict is the decision by Elon Musk, to provide access to healthcare, aid agencies and journalists within Gaza to connectivity with SpaceLink satellite links. 5

How should medical and healthcare professionals conduct themselves in times of

conflict? Our commitment to impartiality and doing our best for our patients, irrespective of any personal views, beliefs, or without reference to the patients' acts of omission and commission is sacrosanct in the purity of the interactions between a healthcare giver and their patients. This principle must be honoured and in certain circumstances enforced to maintain the validity of the health and care profession.⁶ Such principles of impartiality are incorporated into the code of medical ethics and taught to every professional under the auspices professionalism and Good Medical Practice. Even social media, with its promise of 'independent' and 'citizens' voice', can be skewed, with much of the output in crisis coming from one side only, largely due to access. While healthcare professionals and researchers in conflict-affected zones may need to take a position on one side or another when reporting, death, destruction and disease, they must admit to the challenges of accessing unbiased data. the impossibility of obtaining representative samples and the risk of the contamination of evidence, clinical or otherwise.^{7,8} Much of the recent news from the Israel-Hamas conflict in Gaza on the targeting of hospitals and health facilities, reporting directly to the media by healthcare professionals, accounting for the loss of life of unarmed civilians including women and children⁹, on either side has been tainted by controversy on impartiality. The monolithic depictions give rise to the notion of 'moral complacency', wherein the media amplifies and charges it with significance. 10

Scientific Diplomacy

In the recent conflict between Russia and Ukraine, there were calls for isolating the Russian scientific community collaborating or publishing in international journals as well as ceasing funding for projects. The editors of Springer Nature argued against such calls reiterating that scientific collaboration not only provides an international platform for scientists from countries who may have a different stance from their political or military masters but also that such collaboration may bring better understanding between communities split by war and create a bridge to peace. 11 These were also followed by a call for

international effort to develop standard, evidence-based policies for the conduct of science in future conflicts, which should be conducted publicly towards the ultimate goal: a global protocol for the conduct of science in wartime. ¹²

Imposing all-encompassing sanctions on countries propagating conflict, and detaching it from the global community is often considered to be warranted in a war that is bound to unleash huge suffering on innocent civilians, destroying health and education infrastructure, disregarding the rules-based international system, and nudging the world perilously close to escalating regional or nuclear conflict. Drastic times call for drastic measures. it is concerning that many of the halted scientific projects and publications during the Russia-Ukranian conflict were focused on collaborative goals that go far beyond the scope of geopolitics. From microbiology to space exploration, thousands of collaborative endeavours with Russian scientists have no connection to the war. However, the heat of the moment may blind us to the implications of cutting all ties with countries in conflict. Scientific collaborationthe essence of science diplomacy-should be carefully considered before all doors are shut 13

Civilian Infrastructure

One of the inevitable 'collateral damage' in any time of conflict is the impact on civilian life, children, education and healthcare. In planning for warfare, most military strategists call for the indiscriminate destruction of civilian infrastructure. Although the United Nations Convention on Warfare prohibits attacks on schools, hospitals and civilian infrastructure, this is rarely adhered to. Assaults on patients and medical personnel, facilities, and transports, denial of access to medical services, and misuse of medical facilities and emblems have become a feature of armed conflict despite their prohibition by the laws of war. Strategies to improve compliance with these protection, and accountability need to be improved, and regular reporting of violations is absent. Findings from a systematic review showed deficiencies in the extent and methods of reporting but also identified three major trends in such assaults: attacks on medical functions seem to be part of a broad assault on civilians; assaults on medical functions are used to achieve a military advantage; and combatants do not respect the ethical duty of health professionals to provide care to patients irrespective of affiliation. ¹⁴

Health Inequalities

Health effects of conflict include trauma; mental health; non-communicable diseases (NCDs): child health: sexual, reproductive and maternal health; and infectious diseases. Conflict damages health directly through fiahtina. and indirectly through wider socioeconomic effects. Health outcomes are influenced by pre-existing population health and demographics, access appropriate healthcare. Vulnerable populations (the elderly, children, neonates and women) are especially at risk. 15 Factors that affect equity include displacement, gender and financial barriers. Strategies to strenathen health eauity include strengthening pro-equity policy and planning functions; building provider capacity to provide health services; and reducing access and participation barriers for excluded groups. In conclusion, conflict is a key social determinant of health. 16 Immunisation and other vital public health functions of disease prevention and health promotion tend to suffer a major decline in times of conflict. A study found that in 16 countries impacted by conflict, representing just 12% of the global population, were responsible for 67% of global polio cases and 39% of global measles cases between 2010 and 2015. Fourteen out of the 16 countries were below the global average of 85% coverage for diphtheria, pertussis, and tetanus (DPT3) in 2014. Tense security conditions, along with damaged health infrastructure and depleted human resources have contributed to infrequent outreach services, and delays in new vaccine introductions and immunisation campaigns. 17

Humanitarian Aid

Motivated by a disastrous response to the Rwanda genocide in 1994, the Sphere standards

for humanitarian service provision were developed, reflecting the determination of aid agencies to improve both the effectiveness of their assistance and their accountability their stakeholders.6 to Overall, mortality has decreased in refugee camp settings due to a cluster approach to improve coordination of relief outside of situations. refuaee However. humanitarian space—physical locations that are safe from attack in a conflict, respect for principles humanitarian core independence, impartiality and neutrality, and the ability of aid agencies to access and help civilians affected by conflict—has shrunk substantially, as seen in recent areas of conflict. These factors have had negative effects on the protection of both people affected by conflict and humanitarian workers, and consequently have affected the ability of organisations to provide preventive and curative health services because of insecurity. 19

Conclusion

globally Two-thirds of countries unprepared to respond to a health emergency as per the International Health Regulations (2005), with conflict-affected countries like Syria being particularly vulnerable. Political influences on outbreak preparedness, response and reporting may also adversely affect the control of SARS-CoV-2.²⁰ Yet the world has seen the dramatic benefits of openness for the development of COVID-19 vaccines, the understanding of climate and biodiversity change, and the spread of green, equitable environmental and social policies. War can halt or reverse such progress. The benefits of scientific collaboration and openness must preserved without condoning or aiding aggression. 12 If COVID-19 is left to incubate and makes a home in weak systems, it will have a much better chance of mutating and coming back to infect many people globally.

WHO needs to lead robust and systematic documentation of these violations, and countries and the medical community need to take steps to improve compliance, protection, and accountability. Rapid and internationally supported rebuilding of health systems may contribute not only to improved health status but also potentially to broader state-building and enhanced prospects for supporting a lasting peace. ²² Understanding the impact of

conflict/crisis on the intersecting inequalities faced by households and communities is essential for developing responsive health policies. Health workers demonstrate resilience in conflict/crisis, yet need to be post-conflict/crisis supported appropriate policies related to deployment and incentives that ensure a fair balance across sectors and geographical distribution. Postconflict/crisis contexts are characterised by an influx of multiple players and efforts to support coordination and build strong responsive national and local institutions are critical. 23

References

- Moreno-Serra, R. & Smith, P. C. Does progress towards universal health coverage improve population health? The Lancet 380, 917–923 (2012).
- 2. Ford, N., Mills, E. J., Zachariah, R. & Upshur, R. Ethics of conducting research in conflict settings. *Confl. Health* **3**, 7 (2009).
- 3. Prokopenko. O. et al. **Patterns** Identification in the **Dynamics** Countries' Technological Development in the Context of Military Conflict. SSRN Scholarly Paper at https://papers.ssrn.com/abstract=38453 49 (2021).
- Baillie, K. U. & Pennsylvania, U. of. The interplay between scientific progress and violence in modern war. https://phys.org/news/2021-01-interplayscientific-violence-modern-war.html.
- 5. Rose, E. & Kaur, B. Musk says Starlink will provide Gaza connectivity for aid groups. *Reuters* (2023).
- 6. Broussard, G. et al. Challenges to ethical obligations and humanitarian principles in conflict settings: a systematic review. *J. Int. Humanit. Action* **4**, 15 (2019).
- 7. Sen, K., Hussain, H. & Al-Faisal, W. Ethics in times of conflict: some reflections on Syria, in the backdrop of Iraq. *BMJ Glob. Health* **1**, e000149 (2016).
- 8. Green, C. *et al.* Medical ethical violations in Gaza. *The Lancet* **370**, 2102 (2007).
- 9. Women and newborns bearing the brunt of the conflict in Gaza, UN agencies warn. https://www.who.int/news/item/03-11-2023-women-and-newborns-bearing-the-brunt-of-the-conflict-in-gaza-un-

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- agencies-warn.
- Birenbaum-Carmeli, D. Health journalism in the service of power: 'moral complacency' and the Hebrew media in the Gaza-Israel conflict. Sociol. Health Illn. 36, 613–628 (2014).
- 11. Science in times of conflict. *Nat. Metab.* **4**, 405–405 (2022).
- 12. The conduct of science in times of war. Science|Business https://sciencebusiness.net/report/conduct-science-times-war.
- 13. Science Diplomacy in times of War To what extent should western countries distance themselves from Russian Science? *Impact of Social Sciences* https://blogs.lse.ac.uk/impactofsocialsci ences/2022/05/31/science-diplomacy-intimes-of-war-to-what-extent-should-western-countries-distance-themselves-from-russian-science/ (2022).
- 14. Responsibility for protection of medical workers and facilities in armed conflict The Lancet. https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(09)61926-7/fulltext.
- 15. Armed conflict and public health: into the 21st century | Journal of Public Health | Oxford Academic. https://academic.oup.com/jpubhealth/article/42/3/e287/5672679.
- Bornemisza, O., Ranson, M. K., Poletti, T. M. & Sondorp, E. Promoting health equity in conflict-affected fragile states. Soc. Sci. Med. 70, 80–88 (2010).
- Grundy, J. & Biggs, B.-A. The Impact of Conflict on Immunisation Coverage in 16 Countries. *Int. J. Health Policy Manag.* 8, 211–221 (2018).
- 18. The Sphere Project: Humanitarian Charter and Minimum Standards in Humanitarian Response. 2011 Edition. UNHCR UK https://www.unhcr.org/uk/media/sphere-project-humanitarian-charter-and-minimum-standards-humanitarian-response-2011-edition.
- Spiegel, P. B., Checchi, F., Colombo, S. & Paik, E. Health-care needs of people affected by conflict: future trends and changing frameworks. *The Lancet* 375, 341–345 (2010).
- 20. Abbara, A. et al. Coronavirus 2019 and health systems affected by protracted

- conflict: The case of Syria. *Int. J. Infect. Dis.* **96**, 192–195 (2020).
- 21. Coronavirus Disease 2019 (COVID-19): Potential implications for weak health systems and conflict zones in the Middle East and North Africa region Da'ar 2020 The International Journal of Health Planning and Management Wiley Online Library. https://onlinelibrary.wiley.com/doi/full/10. 1002/hpm.2982?casa_token=IbHraclzf1 sAAAAA%3A3WZOKb880_E_LUKCQp K5b8oD50_kKEimAb6GdAO2N_Idz0YY QIHDL_tSDJoQe8rUGEpxm-q58mGTO3k.
- 22. Kruk, M. E., Freedman, L. P., Anglin, G. A. & Waldman, R. J. Rebuilding health systems to improve health and promote statebuilding in post-conflict countries: A theoretical framework and research agenda. Soc. Sci. Med. 70, 89–97 (2010).
- 23. Leaving no one behind: lessons on rebuilding health systems in conflict- and crisis-affected states | BMJ Global Health. https://gh.bmj.com/content/2/2/e000327. abstract.