Professional Ethical Guidance for the use of Artificial Intelligence in Healthcare (PEG-AI)



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Developing professional ethical guidance for healthcare AI use (PEG-AI): an attitudinal survey pilot

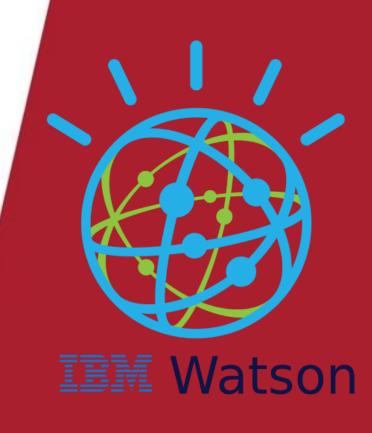
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Artificial intelligence in clinical decision-making: Rethinking liability

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Contents

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Abstract

This article theorises, within the context of the law of England and Wales, the potential outcomes in negligence claims against clinicians and software development companies (SDCs) by patients injured due to Al system (AIS) use with human clinical supervision. Currently, a clinician will likely shoulder liability via a negligence claim for allowing defects in an AIS's outputs to reach patients. We question if this is 'fair, just and reasonable' to clinical users: we argue that a duty of care to patients ought to be recognised on the part of SDCs as well as clinicians. As an alternative to negligence claims, we propose 'risk pooling' which utilises insurance. Here, a fairer construct of shared responsibility for AIS use could be created between the clinician and the SDC; thus, allowing a rapid mechanism of compensation to injured patients via insurance.















AI-NHS

FORTUNE

UK health service AI tool generated a set of false diagnoses for one patient that led to him being wrongly invited to a diabetes screening appointment

BY BEATRICE NOLAN

TECH REPORTER

July 20, 2025 at 9:41 AM EDT











Research Article

Artificial Intelligence for Clinical Decision-Making:

3 Open a Gross Negligence Manslaughter and Corporate

Artificial Manslaughter

Helen Smit Helen Smith

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Clinical ethics



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Al system **Abstract**

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> **England and Wale** patient's death ha AIS-augmented w healthcare, and th prior to AIS adopt

Clinicians and Al use: where is the professional guidance? 3

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Abstract

With the introduction of artificial intelligence (Al) to healthcare, there is also a need for professional guidance to support its use. New (2022) reports from National Health Service Al Lab & Health Education England focus on healthcare workers' understanding and confidence in Al clinical decision support systems (Al-CDDSs), and are concerned with developing trust in, and the trustworthiness of these systems. While they offer guidance to aid developers and purchasers of such systems, they offer little specific guidance for the clinical users who will be required to use them in patient care.

This paper argues that clinical, professional and reputational safety will be risked if this deficit of professional guidance for clinical users of Al-CDDSs is not redressed. We argue it is not enough to develop training for clinical users without first establishing professional guidance regarding the rights and expectations of clinical users.

We conclude with a call to action for clinical regulators: to unite to draft guidance for users of Al-CDDS that helps manage clinical, professional and reputational risks. We further suggest that this exercise offers an opportunity to address fundamental issues in the use of Al-CDDSs; regarding, for example, the fair burden of responsibility for outcomes.





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Medical Ethics

Core position: healthcare professionals need unified evidence-based professional ethical guidance to be able to safely use AI in healthcare for patient benefit.

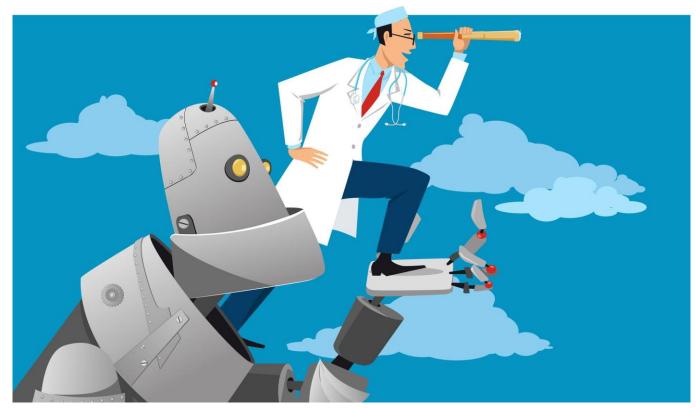


Image credit: https://pharmaphorum.com/views-and-analysis/pharma-companies-need-upgrade-intelligence-ai







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Guidance

Ethics, Transparency and Accountability Framework for Automated Decision-**Making**



Home > Find data ethics guidance, standards and frameworks

A buyer's guide to AI in health and care

This guide sets out important questions you need to consider to make well-informed decisions about buying AI products.







A Framework for the safe, efficient and effective implementation, use and maintenance of Al in health and care in London.





In the first 3 years of this plan, we will invest in AI infrastructure. We will develop and implement an NHS AI strategic roadmap, that will enable clear ethical and governance frameworks for AI. As part of our ambition for all NHS staff to be AI trained, we will roll out new AI upskilling programmes for the workforce (see chapter 7). Starting in 2027, we will roll out validated AI diagnostic tools and deploy AI administrative tools NHS-wide, including AI-scribes.

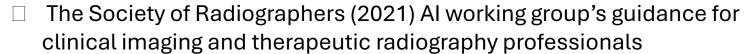


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- The Department of Health and Social Care's guidance for digital and data-driven health technologies
- World Health Organisation's (2021) Ethics and governance of artificial intelligence for health
- ☐ And UNESCO's Recommendation on the Ethics of Artificial Intelligence

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Prior to Al use Patients should Als will be taken out of **HCPs** will gain HCPs will mitigate know when Al service if it is suspected informed consent is used in for and report AI their use will result in from those whom clinical practice issues unmitigable risk of the Al appropriately. harm/injury. recommendation **HCPs** will follow HCPs will only **Protecting and** will affect. information use the AI for enhancing Preventing governance and purpose it has Patients with patient data protection been designed. patient harm capacity can guidance. autonomy reject AI use in from arising An AI can only be used if it their care. HCPs to retain clinical **HCP** training due to Al use has been approved by an knowledge and skills, prior to Al use authoritative body (such even when relying on as The National Institute Al, so that they can for Health and Care practice without AI Excellence). HCP knowledge when needed PEG-AI and skills HCPs to understand HCPs will not knowingly use and factor for 'drift' **Ensuring** an AI that is biased against when deciding for the patient's characteristics fairness, each patient if AI use unless they are confident that is appropriate inclusiveness they can mitigate the use of and equity any output given by the AI. **Protecting and** enhancing Accountability -HCPs' (a HCP being able A HCP will not relinquish their autonomy to fully justify role in patient care to an AI. They will determine if/when it their decision to Responsibility is appropriate to use, and use HCPs will challenge, use an AI) their clinical knowledge to (a HCP can be mitigate, or reject an justify accepting or rejecting Al output if it is unfair HCPs will only use Als praised or HCPs will be able to the use of an Al when practicing within to groups or account for / justify blamed for the recommendation. individuals. their competence; Al is their use of an Al outcome of not a substitute for a recommendation.

HCPs will keep

adequate record

keeping regarding

their Al use.

HCPs will know that they

are responsible for their

use of AI and the effects of

that use.

their use of AI)

knowledgeable and

experienced HCP

Where next?

- Scoping review: Examine a larger number of AI ethics frameworks to build more comprehensively from the literature on the pilot's guidance.
- <u>Second survey</u>: Combine results from the first survey and the scoping review to further refine the guidance and run another attitudinal survey.
- Interviews/workshop, Delphi rounds: Can we achieve 'consensus' i.e. that most people agree with the guidance recommendations that the above process has generated?
- Al risk observatory: Invite healthcare registrants and interested persons to report issues that they've had with Al being used in their care.

What research/evidence do you need to be able to develop guidance for healthcare professionals to practice safely and equitably with AI?

