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**Research Questions:**

**1. What are the key challenges and ethical considerations associated with the use of artificial intelligence in healthcare?**

References	Direct quotations	Summary/ Paraphrase	Responses
Naik, N., Hameed, B. M., Shetty, D. K., Swain, D., Shah, M., Paul, R., Aggarwal, K., Ibrahim, S., Patil, V., Smriti, K., Shetty, S., Rai, B. P., Chlost, P., & Somani, B. K. (2022). Legal and Ethical Consideration in Artificial Intelligence in Healthcare: Who Takes Responsibility? <i>Frontiers in Surgery</i> , 9, 862322. <a href="https://doi.org/10.3389/fsurg.2022.862322">https://doi.org/10.3389/fsurg.2022.862322</a>	<ol style="list-style-type: none"><li>1. “Diverse and inclusive programming groups and frequent audits of the algorithm, including its implementation in a system, need to be carried out. While AI may not be able to completely replace clinical judgment, it can help clinicians make better decisions. If there is a lack of medical competence in a context with limited resources, AI could be utilized to conduct screening and evaluation. In contrast to human decision making, all AI judgments, even the quickest, are systematic since algorithms are involved”</li><li>2. “even if activities don't have legal repercussions (because efficient legal frameworks haven't been developed yet), they always lead to accountability, not by the machine, but by the people who built it and the people who utilize it. While there are moral dilemmas in the use of AI, it is likely to meager, co-exist or replace current systems, starting the healthcare age of artificial intelligence, and not using AI is also possibly unscientific and unethical.”</li></ol>	Ensuring diversity and inclusivity in programming groups is crucial, alongside frequent audits of algorithms during their implementation in systems. While AI cannot fully replace clinical judgment, it serves as a valuable tool for clinicians to enhance decision-making processes. Particularly in contexts with limited medical resources, even though there are still no regulation regarding the ethical consideration associated with AI, it is better to never let AI to make a decision alone and use is as a helper to determine a diagnosis or other health related topics	The article gives us a brief explanation of the challenges about the ethical considerations that correlate with health topics and how we need to be careful in approaching that problem

## 2. What are the impacts of climate change?

References	Direct quotations	Summary/ Paraphrase	Responses
<p>Tol, Richard S. J.. "The Economic Impact of Climate Change" <i>Perspektiven der Wirtschaftspolitik</i>, vol. 11, no. Supplement, 2010, pp. 13-37.  <a href="https://doi.org/10.1111/1468-2516.0326">https://doi.org/10.1111/1468-2516.0326</a></p>	<p>“although climate change has positive as well as negative impacts, the negative impacts dominate particularly for that part of climate change that can be influenced by present and future policy. Greenhouse gas emissions are a negative externality, therefore, and should be regulated. Second, the impacts of climate change fall primarily on poorer countries, and poverty is one of the main causes for this disproportionate vulnerability. This implies that a climate policy that negatively affects economic development may well have a perverse impact; and that development policy is a viable alternative to climate policy. Third, the quantified impacts do not justify claims that climate change is the largest problem of humankind or the largest environmental problem of the 21st century. Impact estimates are incomplete. Claims of impending disaster are speculative. Fourth, estimates of the social cost of carbon or the Pigou tax are highly uncertain and very sensitive to attitudes towards the distant future, faraway lands, and remote probabilities.”</p>	<p>The statement outlines several arguments related to climate change and policy. It asserts that while climate change has both positive and negative impacts, the negative consequences, especially those influenced by present and future policies, outweigh the positive ones. The focus is on greenhouse gas emissions as a negative externality that should be regulated. The text suggests that poorer countries bear the brunt of climate change impacts due to their disproportionate vulnerability, and it questions the effectiveness of climate policies that may negatively impact economic development.</p>	<p>This article gave us some negative impacts of climate change from a different perspective. The article also gives us a brief explanation of what the negative impacts are</p>
<p>Thornton, P., Van de Steeg, J., Notenbaert, A., &amp; Herrero, M. (2009). The impacts of</p>	<p>“For most livestock keepers in the developing world, the variability of the weather patterns they experience is projected to increase. Changing climate variability may have critical effects on</p>	<p>The statement discusses the projected increase in weather pattern variability for livestock keepers in the developing world. It emphasizes that this changing climate</p>	<p>This article / journal gives us a great explanation on how climate change impacts one of the most important aspect of survival,</p>

<p>climate change on livestock and livestock systems in developing countries: A review of what we know and what we need to know. <i>Agricultural Systems</i>, 101(3), 113-127.  <a href="https://doi.org/10.1016/j.agsy.2009.05.002">https://doi.org/10.1016/j.agsy.2009.05.002</a></p>	<p>food security; in addition to impacts on food availability, variability may strongly affect the stability of food supplies and vulnerable people's ability to access food at affordable prices (Schmidhuber and Tubiello, 2007). Key to both of these broad issues will be the further development and refinement of impact assessment frameworks that can evaluate potential and implemented adaptation and mitigation options at regional and local scales, their effects on livelihoods, and the trade-offs that arise between income, food security and environmental objectives"</p>	<p>variability could have significant effects on food security. The impacts extend beyond food availability to include the stability of food supplies and the ability of vulnerable populations to access food at affordable prices.</p>	<p>which is livestock, the article also gives us some solution regarding that problem</p>
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