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This research investigates the evolving landscape of healthcare decision-making in the context of increasing integration of artificial intelligence (AI) technologies. Leveraging a multi-country analysis, the study aims to elucidate the diverse ways in which AI is influencing medical decision-making processes across different healthcare systems. The research employs a mixed-methods approach, combining quantitative surveys with qualitative interviews and case studies.

The quantitative phase involves the administration of structured surveys to healthcare professionals, administrators, and AI specialists in diverse medical settings. These surveys gauge the extent of AI implementation, its perceived impact on decision-making efficiency, and the challenges encountered in integrating AI into existing healthcare workflows. Concurrently, the qualitative phase involves in-depth interviews with key stakeholders to capture nuanced insights into the socio-cultural, ethical, and regulatory dimensions shaping the adoption and adaptation of AI in healthcare decision-making.

Preliminary findings indicate a widespread adoption of AI tools in diagnostic, treatment planning, and patient management processes. However, variations exist in the level of acceptance and utilization across different countries, influenced by factors such as regulatory frameworks, cultural attitudes towards technology, and the availability of resources. Ethical considerations, interpretability of AI-generated recommendations, and data privacy concerns emerge as recurrent themes in qualitative analyses, shedding light on the complex interplay between technology and human-centric healthcare practices.

By synthesizing quantitative and qualitative data, this research contributes to a comprehensive understanding of the global impact of AI on healthcare decision-making. The findings have implications for policymakers, healthcare practitioners, and AI developers seeking to navigate the evolving landscape of AI integration in healthcare, fostering informed decision-making and ensuring the responsible and ethical deployment of AI technologies in the medical domain.