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Artificial Intelligence Technology in Medical Applications – A Review

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Abstract: *Artificial Intelligence (AI) has become a major development direction in the medical field over the past decade. Artificial intelligence (AI) is a practical component of medical research, clinical care, public health, and health-system operations. Machine learning can identify patterns in medical images, electronic health records, physiologic signals, and molecular data that are difficult to process at scale. Evidence from ophthalmology, dermatology, and clinical prediction demonstrates that well-designed systems can support screening and decision-making, but technical performance alone does not establish clinical benefit. The value and safety of medical AI depend on the quality and representativeness of data, the fit between the model and the clinical workflow, human oversight, privacy protection, prospective evaluation, and continuous monitoring. This paper reviews major applications, including diagnosis, clinical decision support, precision medicine, drug discovery, generative AI, and public health.*

Key Words: artificial intelligence, machine learning, medical imaging, clinical decision support, generative AI, health equity, medical ethics

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