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Artificial intelligence applications and role in medicine and healthcare

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Abstract

Goal of this paper is to Artificial intelligence applications and role in medicine and healthcare. Artificial intelligence (AI) refers to the simulation of human intelligence in machines that are programmed to think like humans and mimic their actions. The term may also be applied to any machine that exhibits traits associated with a human mind such as learning and problem-solving. Artificial intelligence simplifies the lives of patients, doctors and hospital administrators by performing tasks that are typically done by humans, but in less time and at a fraction of the cost. The artificial intelligence (AI) technologies becoming ever present in modern business and everyday life is also steadily being applied to healthcare. The use of artificial intelligence in healthcare has the potential to assist healthcare providers in many aspects of patient care and administrative processes, helping them improve upon existing solutions and overcome challenges faster. Most AI and healthcare technologies have strong relevance to the healthcare field, but the tactics they support can vary significantly between hospitals and other healthcare organizations. And while some articles on artificial intelligence in healthcare suggest that the use of artificial intelligence in healthcare can perform just as well or better than humans at certain procedures, such as diagnosing disease, it will be a significant number of years before AI in healthcare replaces humans for a broad range of medical tasks.

Keywords: Artificial intelligence, healthcare, Patient , Clinical decision-making, Management