

عنوان مقاله:

The Future of Healthcare Facilities: How Technology and Medical Advances May Shape Hospitals of the Future

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خلاصه مقاله:

In this review article, we aim to depict how healthcare facilities may look in the near future from an architectural design point of view. For this purpose, we review newly introduced technology and medical advances in the field of healthcare, such as artificial intelligence (AI), robotic surgery, 3D printing, and information technology (IT), and suggest how those advances may affect the architectural design of future healthcare facilities. In future hospitals, less space will be required; there will be no need for waiting areas. Most care will be given far from the hospital. Every human might have a computer chip attached to his body, with all his medical data ready and monitored by AI. In the future, all processes may be done by robots and AI, from reception to detection (radiology, scans, etc.). Nearly all surgery will be done by robots, so the architectural design of operation departments will need to be changed accordingly. AI is faster and better in disease detection than man; thus, there will be no need for laboratories or detection departments as we know them now. 3D printers are able to print almost everything from medical equipment to parts of the human body; thus, space will be needed for scanning and 3D printing in future hospitals. 3D printers might change the pharmaceutical industries, and drugs will be produced for any human individually.

کلمات کلیدی:

Architecture, technology, Facility Design Construction, AI (Artificial Intelligence), Robotic Surgical Procedures, 3D Printing

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