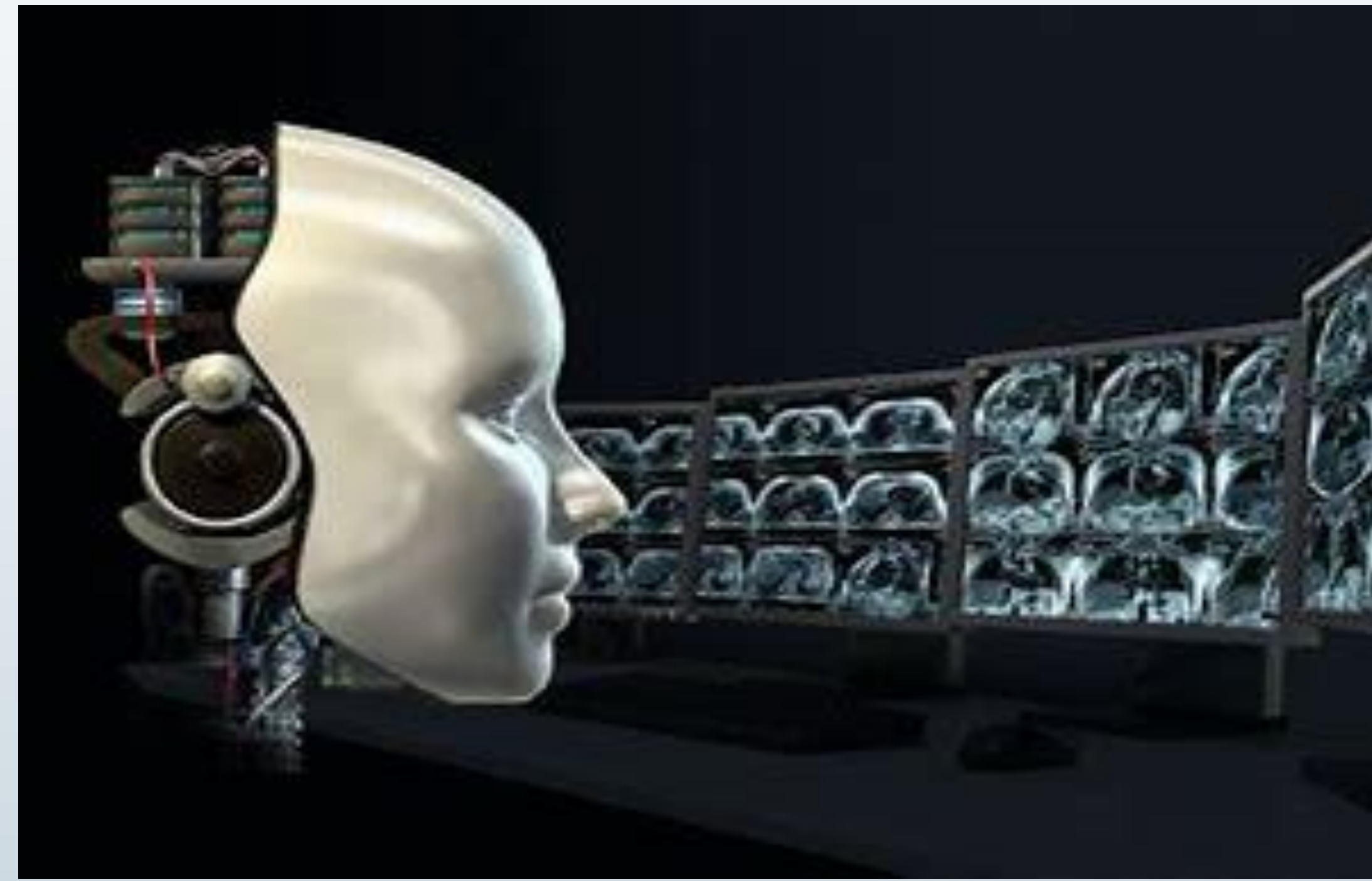


Artificial Intelligence (AI) in Medical Imaging

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What is Artificial Intelligence?

- Artificial intelligence is commonly acknowledged as the concept and improvement of computer systems able to accomplish tasks that normally involve human intelligence (3)
- These tasks may include visual perception, speech recognition, decision-making, and translation between languages
- AI contains computerized algorithms which can dissect intricate data and assist with patient diagnosis
- "Artificial Intelligence" is often used to describe machines that mimic "cognitive" functions that humans associate with the human mind
- Artificial intelligence (AI) refers to the simulation of human intelligence in machines that are programmed to think like humans and mimic their actions



Concerns of Artificial Intelligence

- Professionals have been apprehensive that AI will be used to replace their expertise and potentially have a negative impact on patient care and results
- Concerns that technology is not advanced enough to take part in clinical practice.
- Today numerous radiologists agree that AI is beneficial in medical imaging however noticing symptoms and the need for treatment may be too advanced for AI
- There is a concern that AI may over-diagnose patients and lead to fabricated results

Benefits of Artificial Intelligence

- The workload of radiologists may lessen
- Workflow may expand
- Additional images can be finalized
- Radiologists can focus on excessively complex cases
- Advance speed and accuracy of the interpretation of diagnosis
- Improve image interpretation
- Computerized study prioritization

Will radiologists lose their jobs?

- AI can help improve and reshape the future while working together with radiologists.
- AI is often described as "another team member". In other words, the radiologists should work alongside AI rather than be threatened by it.
- The only radiologists whose jobs may be threatened are the ones who refuse to work with AI (2)



Conclusion

Artificial intelligence has the potential to significantly progress the world of medical imaging. AI is expanding throughout the medical field and is growing at a high rate. The use of AI in medical imaging over the last 20 years has grown faster than in other specialties according to the US National Institute of Health (1). Medical workers should familiarize themselves with AI since there is a great possibility artificial intelligence will appear in our near future.

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