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Here, we review the advantage of AI applications in imaging examinations of multiple solid tumors and highlight its great benefits in optimizing the clinical work process, providing accurate tumor...

Author: Ying Shao, Yu-Xuan Zhang, Huan-Huan ... Publish Year: 2021

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In particular, **artificial intelligence** (AI) promises to make great strides in the qualitative interpretation of cancer **imaging** by expert clinicians, including volumetric delineation of tumors over time, extrapolation ...

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Publish Year: 2019

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Artificial intelligence tools can be conceptualized to apply to 3 broad categories of image-based clinical tasks in oncology: 1) **detection of abnormalities**; 2) **characterization of a suspected lesion by defining i...**

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For oncology imaging, with a couple clicks on the tumor in the image, the AI will perform an **automated quantification** and then perform the same measures on the priors, presenting a side-by-side comparison of the tumor assessment. This can significantly reduce the time involved with tumor tracking assessment and speed workflow.



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What and how does the artificial intelligence apply in solid tumor imaging?

AI in tumor imaging

Jian-She Yang, Qiang Wang

Abstract

What and how does the artificial intelligence (AI) apply in solid tumor imaging? What's

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Core Tip: Many reviews have summarized artificial intelligence applications in the diagnosis and treatment of a single tumor type. However, this is the first review to systematically review how artificial intelligence relieves clinical workloads and changes the current medical workflows while maintaining high quality to provide precision medicine in multiple solid tumors.

Author: Ying Shao, Yu-Xuan Zhang, Huan-Hua... Publish Year: 2021

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