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Cardiac computed tomography angiography (CCTA) is widely used as a diagnostic tool for evaluation of coronary artery disease (CAD). Despite the excellent capability to rule-out CAD, CCTA may overestimate the degree of stenosis; furthermore, CCTA analysis can be time consuming, often requiring advanc ...

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Cardiac computed tomography angiography (CCTA) is widely used as a diagnostic tool for evaluation of coronary artery disease (CAD). Despite the excellent capability to rule-out CAD, CCTA may overestimate the degree of stenosis; furthermore, CCTA analysis can be time consuming, often requiring advanced postprocessing techniques. In consideration of the most recent ESC guidelines on CAD ...

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The application of **artificial intelligence** (AI) may provide a helpful tool in CCTA, improving the evaluation and quantification of **coronary stenosis**, plaque characterization, and assessment of ...

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Author: Karthik Seetharam, James K Min Publish Year: 2020

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Author: Karthik Seetharam, James K Min Publish Year: 2020

Artificial Intelligence in Cardiovascular Imaging for Risk ...

<https://pubs.rsna.org/doi/10.1148/ryct.2021200512>

Feb 25, 2021 · Abstract. This review covers state-of-the-art **artificial intelligence** applications across various noninvasive **imaging** modalities for the quantification of cardiovascular risk in **coronary artery** disease. **Artificial intelligence** (AI) describes the use of computational techniques to perform tasks that normally require human cognition. Machine learning and deep learning are subfields of AI that are increasingly being applied to **cardiovascular imaging** ...

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Author: Andrew Lin, Márton Kolossváry, Manish ...

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