

**Name of Journal:** *World Journal of Radiology*

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***Observational Study***

**Low-radiation and high image quality coronary computed tomography angiography in “real-world” unselected patients**

Caryl Elizabeth Richards, Stephen Dorman, Patricia John, Anthony Davies, Sharon Evans, Tishi Ninan, David Martin, Sriranj Kannoly, Gail Roberts-Davies, Mark Ramsey, Daniel Rhys Obaid

**Abstract**

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RR Buechel, L Husmann, BA Herzog... - Journal of the American ..., 2011 - Elsevier

... triggering lies in its striking potential to be universally applicable on a **large** variety of ... be achieved, diagnostic **image quality** can be obtained at a very **low radiation** dose (1.8 ... with a consistent dose below 1 mSv using prospectively electrocardiogram-triggered **high-pitch spiral** ...

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F Pelliccia, V Pasceri, A Evangelista, A Pergolini... - ... cardiovascular imaging, 2013 - Springer

... scanners that using prospective ECG-triggered **high-pitch helical scanning** allow **low radiation** dose [8, 9 ... whereas the effective dose may be significantly **higher** in those with **higher** heart rates ... of **coronary** artery stenoses by low-dose, prospectively ECG-triggered, **high-pitch spiral** ...

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DC Benz, C Gräni, BH Moch, F Mikulicic... - Academic ..., 2016 - academicradiology.org

... volume (4)(4), potentially enabling a CCTA **imaging** approach with a combined **low radiation** and low ... were reconstructed with a novel ASiR-V (GE Healthcare) using a **high-definition kernel** ... 13, 14, and 15 (7)(7), and **coronary** segments with physiologically **higher** velocity were ...

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METHODS: **High-resolution** 64-slice **computed tomography** (0.6 mm collimation, ... The evaluability of bypass grafts was significantly **lower** in **patients** with arrhythmias ... graft patency and stenoses even in an **unselected "real-world"** patient population. ... **Coronary Stenosis/surgery; Dose-Response Relationship; Radiation** ...

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作者: RR Buechel - 2011 - 被引用次数: 78 - 相关文章

2011年1月18日 - **Low-Dose Computed Tomography Coronary Angiography** With ... **Image quality** was assessed on a semiquantitative 4-point scale for each ... Mean effective **radiation** dose was  $1.8 \pm 0.6$  mSv with a diagnostic **image quality** in .... ECG triggering is feasible in a **large, real-world, clinical patient** population.

### Poster session II | European Heart Journal - Cardiovascular Imaging ...

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作者: G Kayumova - 2017

2017年5月9日 - In all **patients**, **image quality** score (by a 4-point Likert scale on a ... with **high image quality** and **coronary** interpretability and **low radiation** exposure in .... The role of 256 slices **coronary**