

ESPS Peer-review Report

Name of Journal: World Journal of Radiology

ESPS Manuscript NO: 8658

Title: CORONARY VENOUS SYSTEM IN CARDIAC COMPUTER TOMOGRAPHY - VISUALIZATION, CLASSIFICATION AND ROLE BEFORE SELECTED ELECTROPHYSIOLOGY PROCEDURES.

Reviewer code: 02714390

Science editor: Qi, Yuan

Date sent for review: 2014-01-02 15:28

Date reviewed: 2014-01-14 23:26

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input type="checkbox"/> Grade A: Priority Publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B (Very good)	<input type="checkbox"/> Grade B: minor language polishing	<input type="checkbox"/> Existed	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C (Good)	<input type="checkbox"/> Grade C: a great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D (Fair)	<input type="checkbox"/> Grade D: rejected	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)		<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

This invited review article describes the evaluation of the coronary venous system specifically using CT scans reconstructed in 3D. This is a thorough and robust review where the authors first introduce the lack of appreciation for the role of coronary venous system in general practice primarily due to varied anatomy observed. The authors then introduce cases or conditions where the use of detailed knowledge of coronary venous anatomy may be useful such as cardiac resynchronization therapy (CRT) may be useful. The authors then review current state of the art of venous imaging using 3D MDCT and clearly present their case for the usefulness of such imaging approaches. The authors can further elaborate on the role that MDCT can play in helping guide CRT and the exact methodology how these images will be useful in a CRT setting. That is currently lacking in the manuscript. CRT is performed using 2D fluoroscopic images whereas 3D MDCT provides more detailed images. How exactly and objectively these 3D images can guide CRT is not clearly explained. Currently it just appears to help the CRT operator with subjective guidance. The authors can discuss the future roles of MDCT where such fusion of imaging modalities may objectively guide CRT.

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Reviewer code: 00713469

Science editor: Qi, Yuan

Date sent for review: 2014-01-02 15:28

Date reviewed: 2014-01-16 15:39

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
[] Grade A (Excellent)	[] Grade A: Priority Publishing	Google Search:	[] Accept
[] Grade B (Very good)	[Y] Grade B: minor language polishing	[] Existed	[] High priority for publication
[Y] Grade C (Good)	[] Grade C: a great deal of language polishing	[] No records	[] Rejection
[] Grade D (Fair)	[] Grade D: rejected	BPG Search:	[Y] Minor revision
[] Grade E (Poor)		[] Existed	[] Major revision
		[] No records	

COMMENTS TO AUTHORS

General Comments : The article is a succinct and interesting review on the value of cardiac computed tomography for the assessment of coronary venous system before electrophysiology procedures. The epicardial coronary venous system has become the topic of renewed interest in recent years. The accurate understanding of the venous system may lead to useful clinical interventions such as retroinfusion of arterialized blood, delivery of therapeutic agents and, finally the use of the coronary venous system as a route of access to the myocardium for the cardiac resynchronization therapy, mapping, etc. As a result Multi-slice CT is used increasingly as a non-invasive alternative for preintervention evaluation of both coronary arteries and cardiac veins. Data reported could be of interest for the readers and effectively impact on the daily practice. The review, although narrowed on a limited topic, seems to be of value. However, two important issues should be solved: Major comments ? It would of value revising the English (editing) since synonymous lacking, there are Several typing errors and some sentences are not clear (see page 8: "...in our earlier research...") ? The paper appears to be too much auto-referential and this aspect should be corrected ? References should be checked since not homogenously listed, which translates inaccuracy.

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Title: CORONARY VENOUS SYSTEM IN CARDIAC COMPUTER TOMOGRAPHY - VISUALIZATION, CLASSIFICATION AND ROLE BEFORE SELECTED ELECTROPHYSIOLOGY PROCEDURES.

Reviewer code: 00775802

Science editor: Qi, Yuan

Date sent for review: 2014-01-02 15:28

Date reviewed: 2014-01-16 22:08

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input type="checkbox"/> Grade A: Priority Publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B (Very good)	<input checked="" type="checkbox"/> Grade B: minor language polishing	<input type="checkbox"/> Existed	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C (Good)	<input type="checkbox"/> Grade C: a great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D (Fair)		BPG Search:	<input checked="" type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)	<input type="checkbox"/> Grade D: rejected	<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

This is a review about the coronary venous system (CVS), in which authors reviewed the anatomy of CVS, computed tomography findings of CVS, images and cardiac resynchronisation, Thebesian valve, influence of cardiac pathologies on CVS and percutaneous mitral annuloplasty. This article provides full information of CVS in cardiac computed tomography for readers who are interested in the cardiovascular system, especially, professionals who are engaged in or about to cardiac resynchronization therapy or percutaneous mitral annuloplasty. However, the following issues need to be improved: 1.The use of abbreviation is not reasonable. 2.Some statements are not condensed. 3.There are some punctuation and spelling errors.

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Title: CORONARY VENOUS SYSTEM IN CARDIAC COMPUTER TOMOGRAPHY - VISUALIZATION, CLASSIFICATION AND ROLE BEFORE SELECTED ELECTROPHYSIOLOGY PROCEDURES.

Reviewer code: 01218680

Science editor: Qi, Yuan

Date sent for review: 2014-01-02 15:28

Date reviewed: 2014-01-28 05:23

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input type="checkbox"/> Grade A: Priority Publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B (Very good)	<input checked="" type="checkbox"/> Grade B: minor language polishing	<input type="checkbox"/> Existed	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C (Good)	<input type="checkbox"/> Grade C: a great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
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COMMENTS TO AUTHORS

World Journal of Radiology: #8658 Title: CORONARY VENOUS SYSTEM IN CARDIAC COMPUTER TOMOGRAPHY - VISUALIZATION, CLASSIFICATION AND ROLE BEFORE SELECTED ELECTROPHYSIOLOGY PROCEDURES. Abstract: OK Keywords: o.k. INTRODUCTION Short, precise. It would be beneficial to mention the possible role of Computed Tomography for the visualisation of the cardiac anatomy ANATOMY OF THE CORONARY VENOUS SYSTEM Very good description of the cardiac venous anatomy. This paragraph might help readers to understand the usefulness of CT as an imaging modality COMPUTED TOMOGRAPHY Overall very nice. However, recent studies using sophisticated CT techniques, such as High Pitch CT are missing. Especially studies focusing on radiation dose would enhance the significance of the manuscript as this subject may prevent colleagues from using CT in clinical practice. For example: Pulmonary venous anatomy imaging with low-dose, prospectively ECG-triggered, high-pitch 128-slice dual-source computed tomography. Thai WE, Wai B, Lin K, Cheng T, Heist EK, Hoffmann U, Singh JP, Truong QA. Circ Arrhythm Electrophysiol. 2012 Jun 1;5(3):521-30. doi: 10.1161/CIRCEP.111.968313. Epub 2012 May 14. IMAGES AND CARDIAC RESYNCHRONISATION, THEBESIAN VALVE, INFLUENCE OF CARDIAC PATHOLOGIES ON THE CORONARY VENOUS SYSTEM, PERCUTANEOUS MITRAL ANNULOPLASTY Very nice. The authors show the problems of imaging the venous anatomy and describe the key facts of interest. It would be beneficial to show in one paragraph the recent guidelines and how the role of cardiac CT may be helpful. Tables and Figures: o.k.