

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Cardiology

**Manuscript NO:** 41709

**Title:** Instantaneous wave-free ratio (iFR®) to determine hemodynamically significant coronary stenosis - a comprehensive review

**Reviewer's code:** 03722832

**Reviewer's country:** India

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2018-08-25

**Date reviewed:** 2018-08-25

**Review time:** 4 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

Dear author follow <http://www.prisma-statement.org/> to shape of your review to the best shape.

## INITIAL REVIEW OF THE MANUSCRIPT

### *Google Search:*

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ [Y] No

### *BPG Search:*

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ [Y] No

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Cardiology

**Manuscript NO:** 41709

**Title:** Instantaneous wave-free ratio (iFR®) to determine hemodynamically significant coronary stenosis - a comprehensive review

**Reviewer's code:** 02636166

**Reviewer's country:** Taiwan

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2018-08-25

**Date reviewed:** 2018-09-01

**Review time:** 6 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input checked="" type="checkbox"/> Accept	<input checked="" type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

Dear Editor: The authors made a comprehensive review on the application of iFR for CAD stentoses. The paper was well written. Only a few grammar errors were present. Please correct them before acceptance. Best



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**Name of journal:** World Journal of Cardiology

**Manuscript NO:** 41709

**Title:** Instantaneous wave-free ratio (iFR®) to determine hemodynamically significant coronary stenosis - a comprehensive review

**Reviewer's code:** 00214240

**Reviewer's country:** Belgium

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2018-08-25

**Date reviewed:** 2018-09-02

**Review time:** 7 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input checked="" type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
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		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

excellent overview a example of consecutive lesions would be nice do demonstrate an advantage of IFR over FFR in the mean time the guidelines were changed and IFR is also a class I indication



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## PEER-REVIEW REPORT

**Name of journal:** World Journal of Cardiology

**Manuscript NO:** 41709

**Title:** Instantaneous wave-free ratio (iFR®) to determine hemodynamically significant coronary stenosis - a comprehensive review

**Reviewer's code:** 00397579

**Reviewer's country:** United States

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2018-08-25

**Date reviewed:** 2018-09-06

**Review time:** 11 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input checked="" type="checkbox"/> Accept	<input type="checkbox"/> Onymous
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		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

Baumann et al comprehensively reviewed the available literature on iFR in CAD assessment. it is well written and a good piece of addition to the literature. The manuscript has focused on the basic principles and clinical studies justifying iFR in

clinical application. It would be very helpful and informative if the authors could spend a paragraph or two to illustrate existing controversies on iFR and its clinical application, as well as factors might affect the accuracy or consistency of iFR measurement, such as myocardial contractility, LVEDP, arrhythmia and microvascular disease etc. Some minor issues: - page 5, para 2, "little vessels" -- non-medical term, should be changed to microvasculature (similar issues below) - Page 5, para 3: "very scarce" - inaccurate description. please change to actually reported utilization rates such as 10% in some reference - page 5, para 3. in discussion of shortfalls of FFR, the adverse effects of adenosine, such as exacerbation of asthma, causing chest pressure and discomfort, and also transient heart block, hypotension etc should be mentioned. - page 8, last para: typo "thereupon"? - page 8, typo in subtitle "IFR", need to use "iFR" as a commonly accepted term - please quote recent meta-analysis in Circ - CVI (de Rosa et al 2018) as well as Van't Veer et al JACC 2017 VERIFY2 study

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**Name of journal:** World Journal of Cardiology

**Manuscript NO:** 41709

**Title:** Instantaneous wave-free ratio (iFR®) to determine hemodynamically significant coronary stenosis - a comprehensive review

**Reviewer's code:** 02874819

**Reviewer's country:** Italy

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2018-08-25

**Date reviewed:** 2018-09-08

**Review time:** 14 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
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			Conflicts-of-Interest:
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			<input checked="" type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

This review concerns a very interesting but also very specialized field, therefore it mainly concerns a selected population. However it is well written, rather complete for the specific area involved, so it can be accepted in its current form

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