

# Caas vFFR

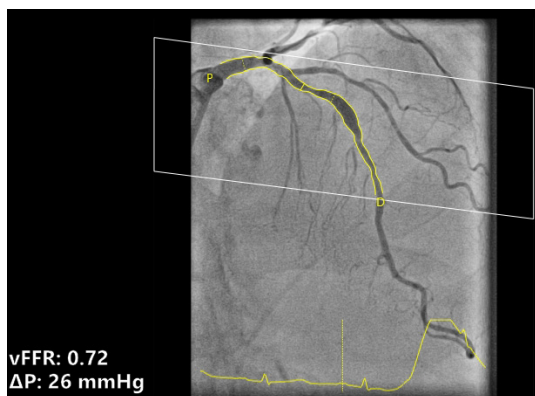
*The novel angio-based functional lesion assessment: wire and adenosine free*

## Introduction

CAAS vFFR calculates the pressure drop in coronary vessels without the need of a pressure wire. The vFFR module builds a 3D reconstruction of two angiograms and assesses pressure-drop, resulting in a vFFR value. Furthermore, the 3D reconstruction will enable assessment of severity and percentage of stenosis.

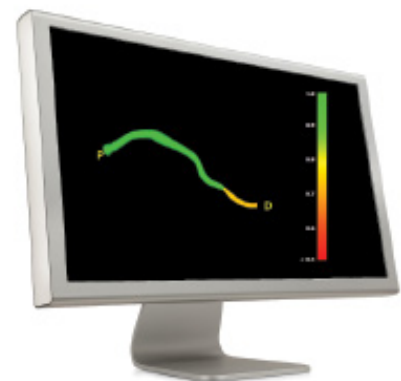
## Why?

- Non-invasive analysis
- No pressure wire needed
- No hyperemic agent needed
- Fast and easy to use tool



## Strengths

- Simple and fast workflow
- Only 2 angiograms needed
- X-Ray system independent
- Additional stenosis measurements
- 510(k) Cleared and CE Marked



## Joost Daemen MD, PhD, Principal investigator FAST-study

“In the FAST study we demonstrated that the calculated vFFR value has a high linear correlation to the invasively measured FFR and high diagnostic accuracy to detect  $FFR \leq 0.80$ . vFFR is a promising, fast and easy to use tool to assess coronary physiology without the need for a costly pressure wire or hyperemic agent.”



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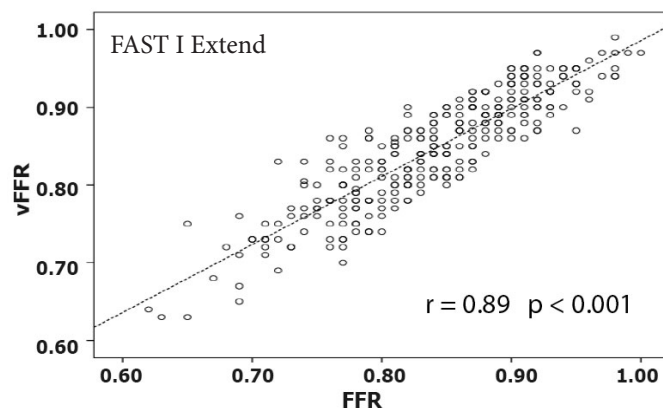
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## Results FAST I Pre study<sup>[1]</sup> and FAST I Extend<sup>[2]</sup>

Number of patients	100	303
Mean FFR	0.82 ± 0.08	0.84 ± 0.07
Mean vFFR	0.84 ± 0.07	0.85 ± 0.07
Linear correlation	r = 0.89; p<0.001	r = 0.89; p<0.001
Interobserver variability	r = 0.95; p<0.001	-

[1] Published in EuroIntervention (2019; doi: 10.4244/EIJ-D-19-00466)

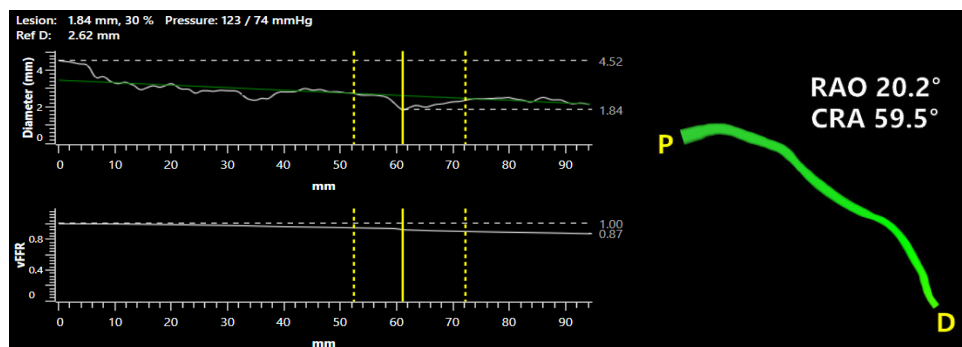
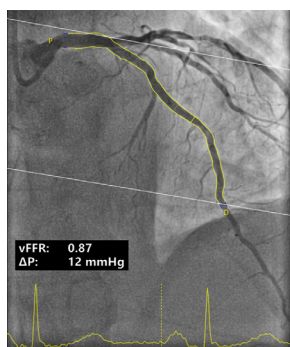
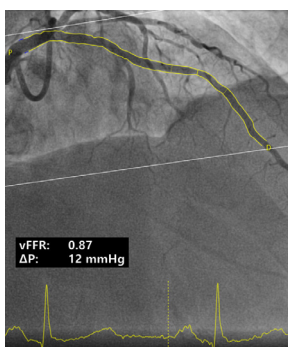
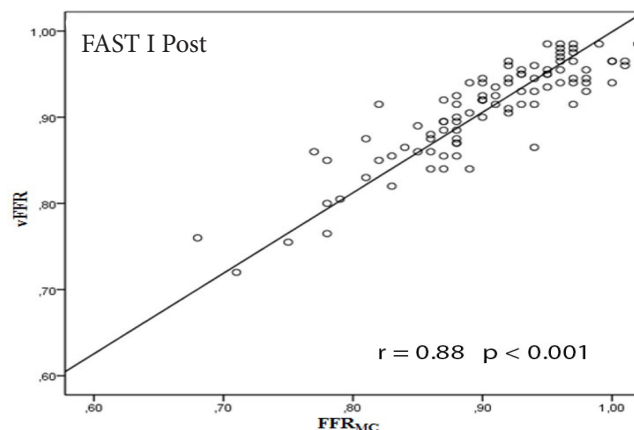
[2] Presented at EuroPCR 2019



## Results FAST I Post study<sup>[3]</sup>

Number of patients	100
Mean FFR	0.91 ± 0.07
Mean vFFR	0.91 ± 0.06
Linear correlation	r = 0.88; p<0.001
Interobserver variability	r = 0.95; p<0.001

[3] Presented at TCT 2018



## Conclusion

The 3D-QCA derived vFFR has a high linear correlation to invasively measured FFR, a high diagnostic accuracy to detect lesions with an FFR ≤ 0.80 and a low interobserver variability.