

Caas vFFR

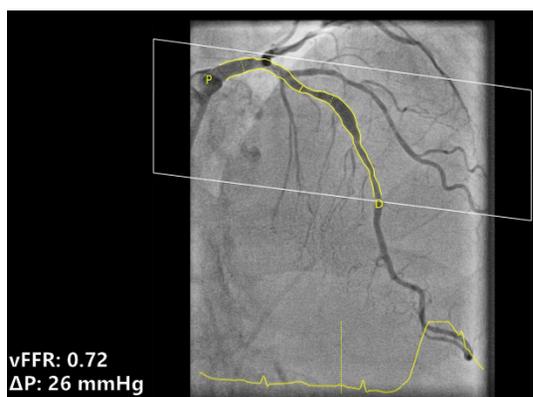
The novel angio-based functional lesion assessment: wire and adenosine free

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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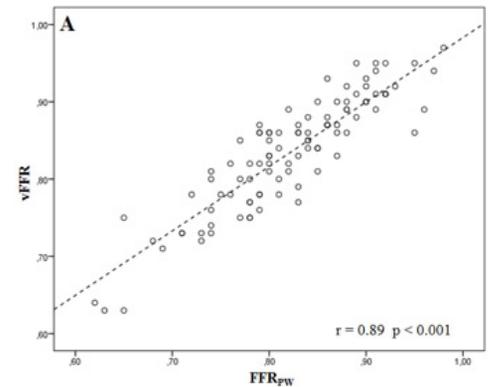
Caas vFFR

Results FAST studies

Results FAST I Pre study*

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

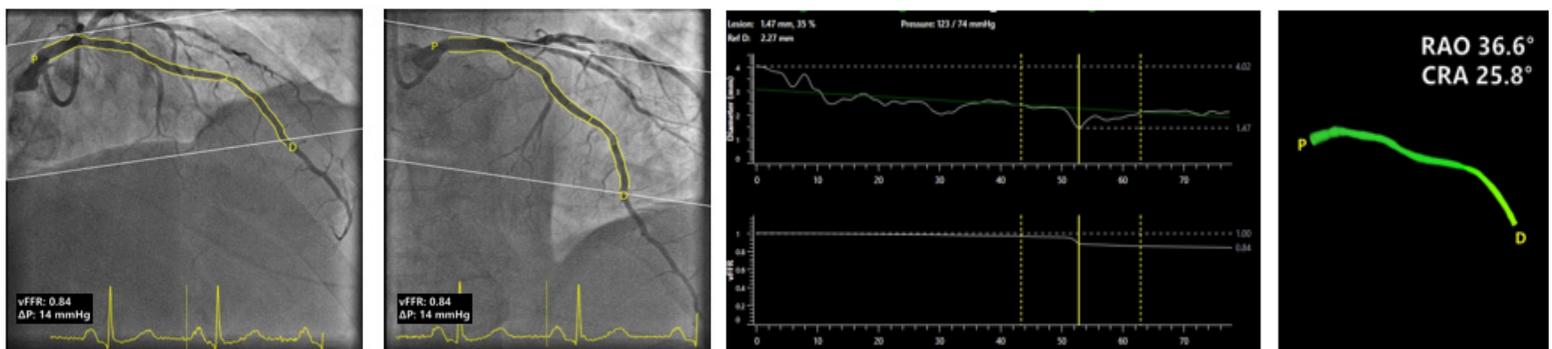
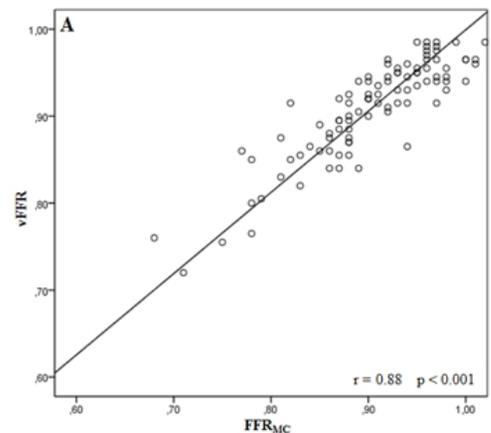
Presented at EuroPCR 2018*



Results FAST I Post study**

Number of patients	100
Mean FFR and vFFR	0.91±0.07 and 0.91±0.06
Linear correlation	r = 0.88; p <0.001
Inter-observer variability	r = 0.96; p <0.001

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 \leq 0.80 and a low inter-observer variability.