

# Journal of Humanitarian Cardiovascular Medicine

Vol 1, No 3 (2024)

V1, Issue 3



## IVUS and iFR: A Powerful duo for uncovering intermediate lesions in coronary artery disease

Antonios Samaras, Thrasivoulos Konstantinou, Evangelos Sdogkos, Ioannis Vogiatzis

doi: [10.12681/jhcv.36986](https://doi.org/10.12681/jhcv.36986)

Copyright © 2024, Antonios Samaras, Thrasivoulos Konstantinou, Evangelos Sdogkos, Ioannis Vogiatzis



This work is licensed under a [Creative Commons Attribution-NonCommercial-ShareAlike 4.0](https://creativecommons.org/licenses/by-nc-sa/4.0/).

### To cite this article:

Samaras, A., Konstantinou, T., Sdogkos, E., & Vogiatzis, I. (2024). IVUS and iFR: A Powerful duo for uncovering intermediate lesions in coronary artery disease. *Journal of Humanitarian Cardiovascular Medicine*, 1(3).

<https://doi.org/10.12681/jhcv.36986>

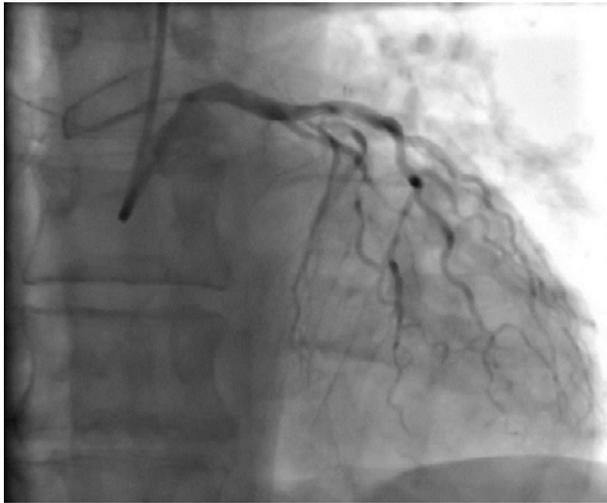
## IVUS and iFR: A Powerful duo for uncovering intermediate lesions in coronary artery disease

**Antonios Samaras, Thrasimvoulos Konstantinou, Evangelos Sdogkos, Ioannis Vogiatzis**

*Department of Cardiology, General Hospital of Veroia*

**Corresponding author**

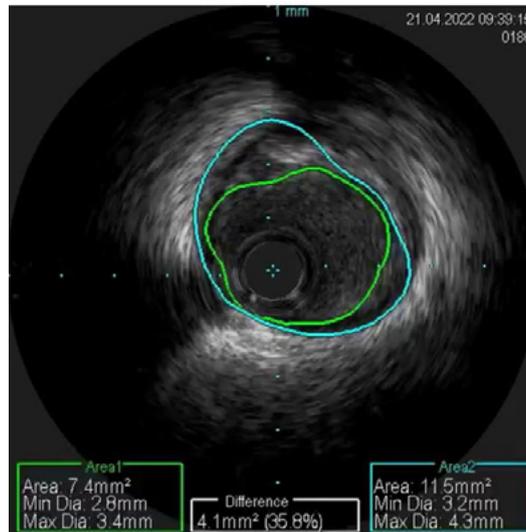
Dr. Ioannis Vogiatzis, Department of Cardiology, General Hospital of Veroia, Veroia 59100, Greece  
Tel. +302331351253 / +306944276230  
e-mail: ivogia@hotmail.gr



**A**



**B**



**C**

A 55-year-old patient with a non-ST elevation myocardial infarction (NSTEMI).

**A:** Cranial view of the left main coronary artery with an apparent 50% lumen stenosis near the orifice.

**B:** The dominant right coronary artery that appears to be 70% stenotic near its orifice.

**C:** Intravascular ultrasound depiction of the vessel lumen, where the minimal lumen area appears to be 7.4 mm<sup>2</sup>. iFR calculation uses a ratio of proximal and distal coronary pressures over the wave-free period in diastole to assess the limitation of blood flow.