

#FullPhysiology

In Daily Practice

The additional value of invasive diagnosis over noninvasive diagnostic workflow

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- Our journey makes sense if the patient has symptoms
- We are talking about ANOCA (no INOCA)
- Patient must have ANGINA or equivalent symptoms
- Our goal is to control symptoms and improve the quality of life

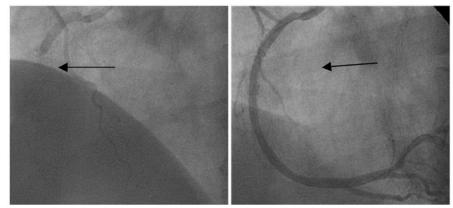






Patient with Angina No obstructive CAD

"Don't worry, you has nothing!!!"



Patient with Angina after successful PCI No obstructive CAD *"Don't worry, the stent works well!!!"*

Patient with MI

Non culprit lesions

"This lesion yes, this lesion not..."











I can perform the right

diagnosis and treatment

without invasive test

(without #FullPhysio)







Invasive Endotyping in Patients With Angina and No Obstructive Coronary Artery Disease: A Randomized Controlled Trial

Novalia P. Sidik, Bethany Stanley, Robert Sykes, Andrew J. Morrow, Conor P. Bradley, Michael McDermott, Thomas J. Ford, Giles Roditi, Allister Hargreaves, David Stobo, Jacqueline Adams, John Byrne, Ahmed Mahrous, Robin Young, David Carrick, Ross McGeoch, David Corcoran, Ninian N. Lang, Robert Heggie, Olivia Wu, Margaret B. McEntegart, Alex McConnachie and Colin Berry



Aish Sinha, MBBS, BSc, Utkarsh Dutta, MSc, Ozan M. Demir, PhD, MBBS, MSc, Kalpa De Silva, PhD, MBBS, Howard Ellis, BSc, Samuel Belford, BSc, Mark Ogden, BSc, Matthew Li Kam Wa, MBBS, BSc, Holly P. Morgan, MBBS, BSc, Ajay M. Shah, MD, MBBS, Amedeo Chiribiri, PhD, MBBS, Andrew J. Webb, PhD, MBBS, Michael Marber, PhD, MBBS, Haseeb Rahman, PhD, BMBCH, Divaka Perera, MD, MBBCHIR



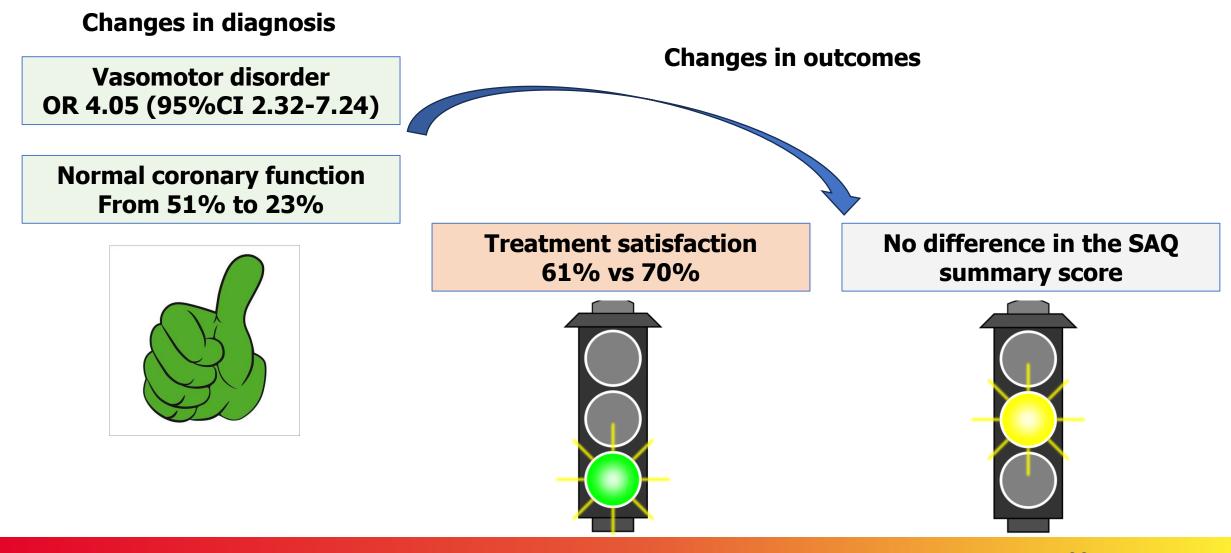


Invasive endotyping on top of coronary CT

Patients with angina undergoing coronary CT	
Lack of obstructive CAD at coronary CT	
Invasive endotyping (FFR, CFR, IMR, Achtest)	
Randomization	
INTERVENTION GROUP	CONTROL GROUP
Disclosure of the results of the invasive endotyping to patients and physicians	Nondisclosure of the results of the invasive endotyping to patients and physicians
Medical treatment was tailored based on invasive endotyping	Medical treatment was tailored based on medical history and noninvasive tests

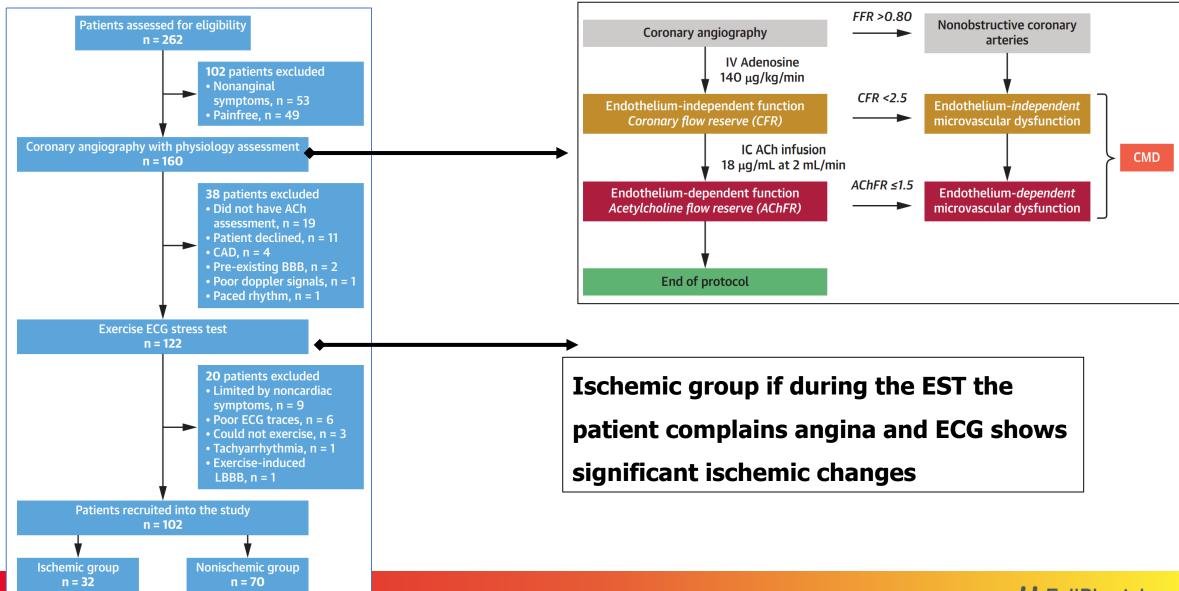


Invasive endotyping on top of coronary CT



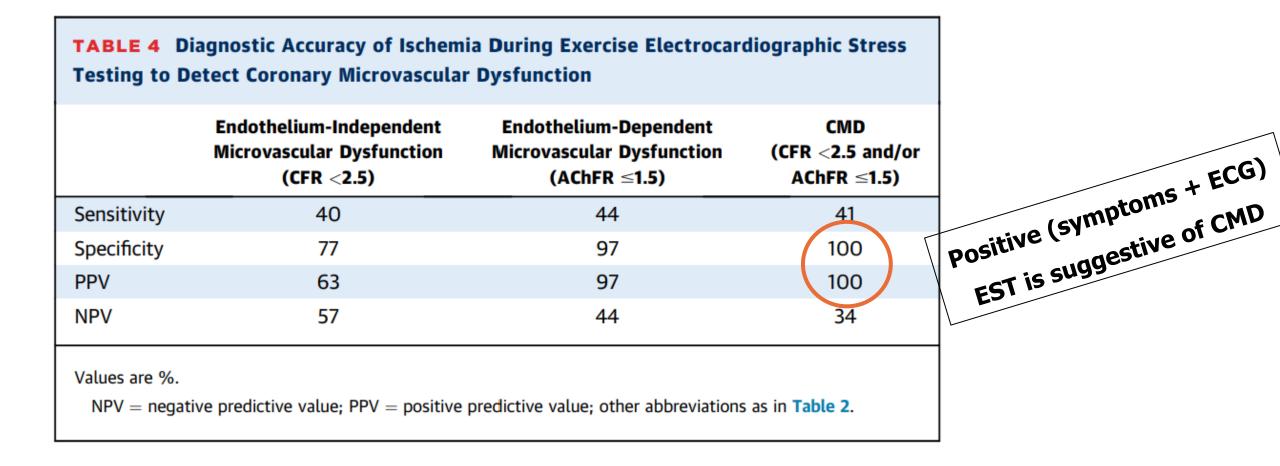


Exercise stress test and CMD







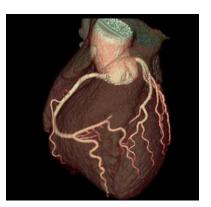




Patient with ANGINA (symptoms)



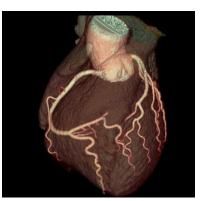
The patient has no disease No further test No medications ... The patient continues to complain symptoms and will search for a different opinion



Non-obstructive disease



Patient with ANGINA (symptoms)



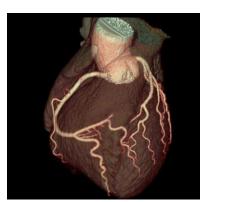
Non-obstructive disease

The patient has no disease No further test No medications ... The patient continues to complain symptoms and will search for a different opinion

Suspected ANOCA No further tests Tailored therapy based on personal feeling ... 45% probability to be wrong ... 20% probability to overtreat a patient with normal coronary function



Patient with ANGINA (symptoms)



Non-obstructive disease

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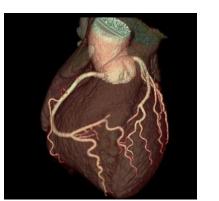
Suspected ANOCA No further tests Tailored therapy based on personal feeling ... 45% probability to be wrong ... 20% probability to overtreat a patient with normal coronary function

Noninvasive function test

If positive ... you cannot distinguish between structural/functional CMD or abnormal vasoreactivity If negative ... you can miss the diagnosis



Patient with ANGINA (symptoms)



Non-obstructive disease



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Noninvasive function test

If positive ... you cannot distinguish between structural/functional CMD or abnormal vasoreactivity If negative ... you can miss the diagnosis

#FullPhysiology is the only way to achieve right diagnosis and treatment



- The pathway coronary CT + EST is reliable in 35% of the cases
- #FullPhysiology changes clinical judgment in around 40% of the cases
- Without #FullPhysiology, are you able to motivate patients to be compliant with tailored medical theraphies?
- Without #FullPhysiology, are you able to not prescribe medical therapy in patient with normal coronary function?





#Grazi

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