



2024 ESC Guidelines for the management of chronic coronary syndromes

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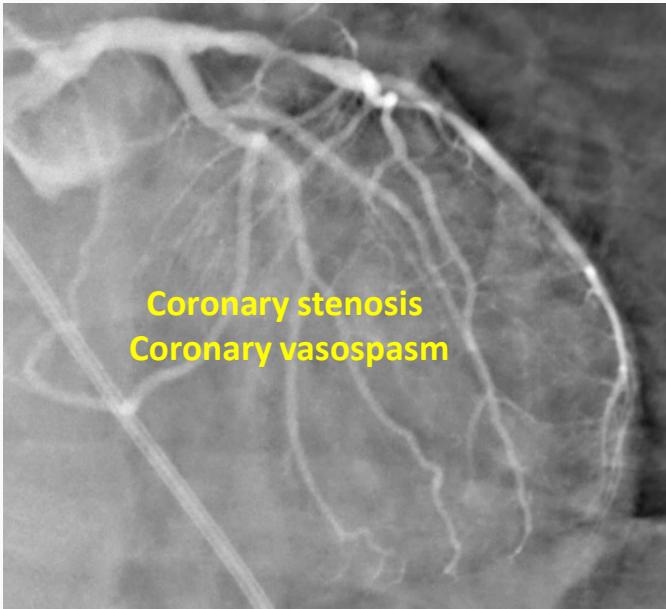
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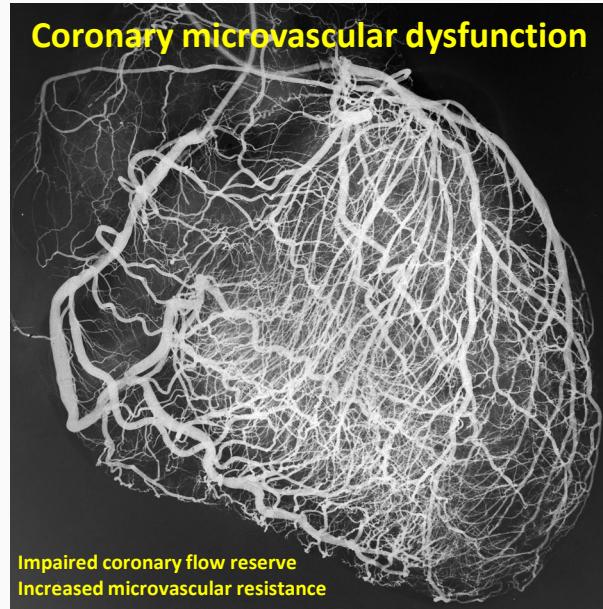
21st century's evolving concepts:

Myocardial ischaemia results from structural and/or functional changes in the epicardial coronary arteries and/or microcirculation.

Epicardial coronary arteries



Coronary microcirculation

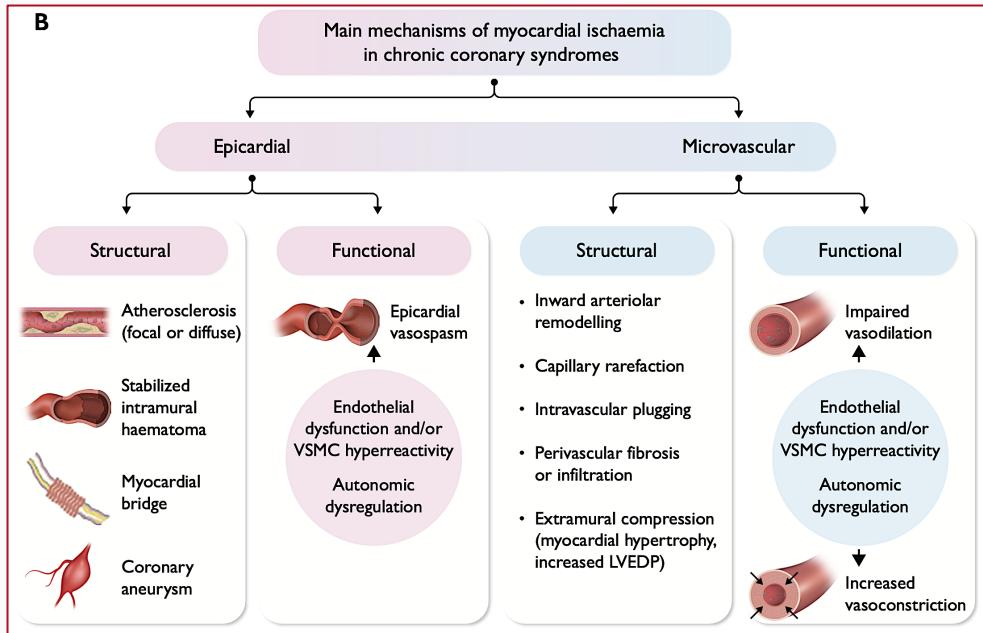


William Fulton, MD Thesis Univ Glasgow (1963); courtesy C Berry

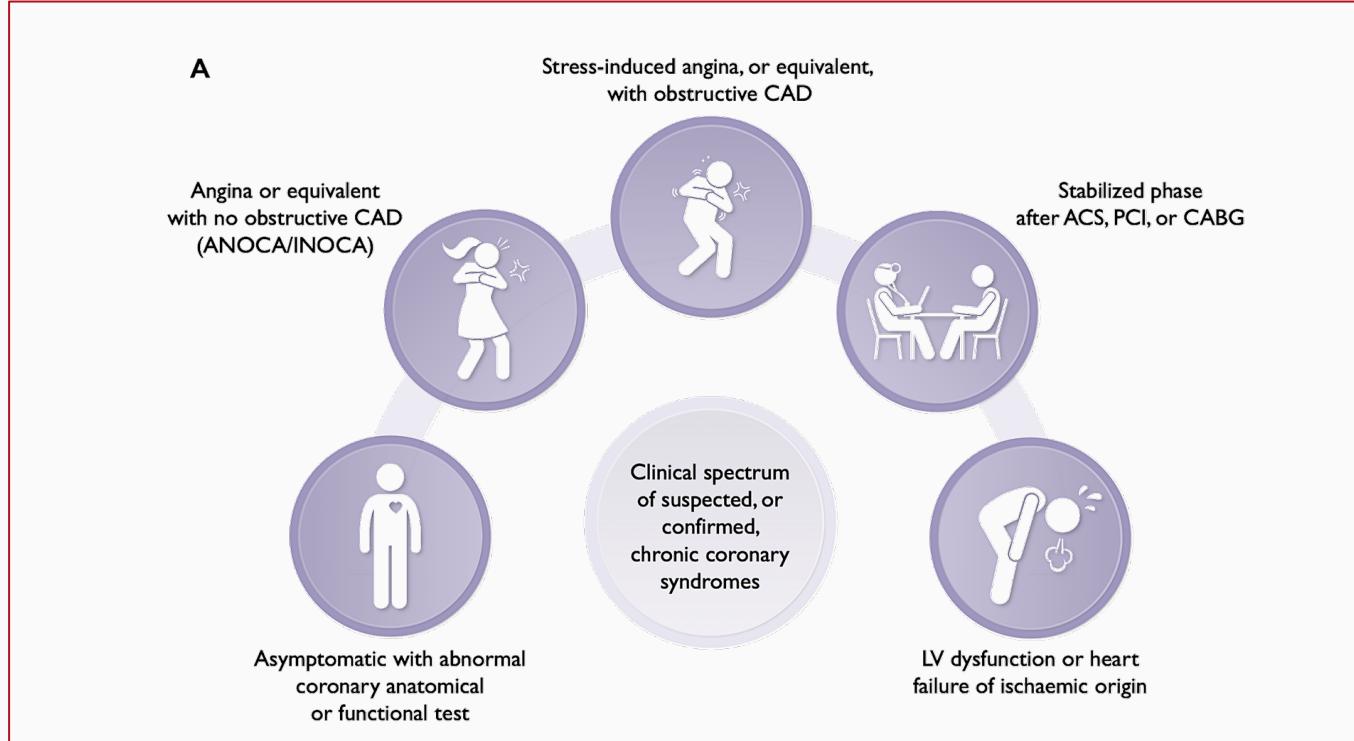
2024 ESC Guidelines for the diagnosis and management of chronic coronary syndromes – updated definition

New

CCS are a range of clinical presentations or syndromes that arise due to **structural and/or functional alterations related to chronic diseases of the coronary arteries and/or microcirculation.**



Clinical spectrum of chronic coronary syndromes



Step-wise approach for managing patients with suspected CCS



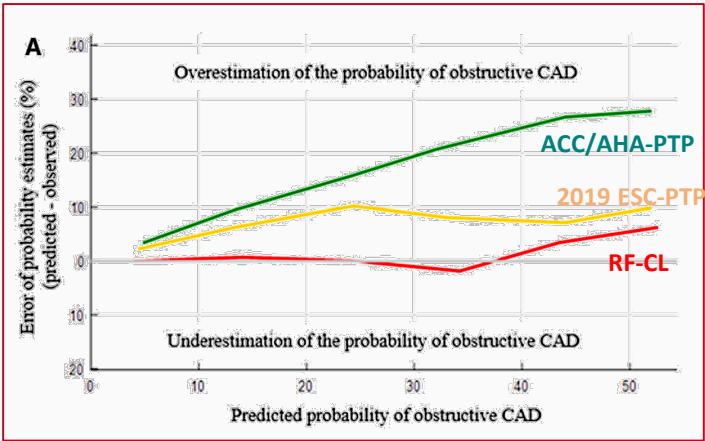
Using the Risk Factor-weighted Clinical Likelihood model. (Class I)

^a in selected patients



New

Risk Factor-weighted Clinical Likelihood Model



Winther S, Murphy T, Schmidt SE, et al. Performance of the AHA/ACC guideline-recommended pretest probability model for the diagnosis of obstructive coronary artery disease. J Am Heart Assoc 2022;e027260.

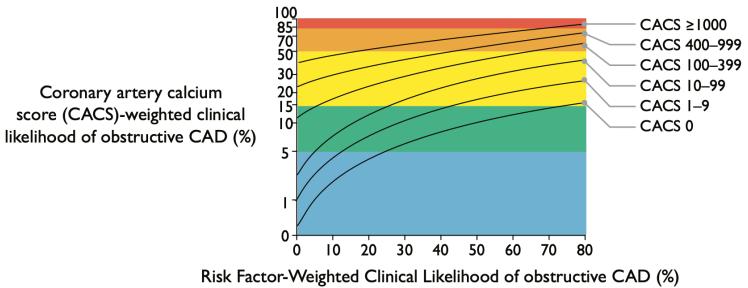


Adjustment of estimated Risk-Factor-weighted Clinical Likelihood obstructive CAD

3

Consider reclassification of low RF-CL (>5–15%) using CACS to identify very low ($\leq 5\%$) CACS-CL

(Class IIa)



Winther S, Schmidt SE, Foldyna B, et al. Coronary calcium scoring improves risk prediction in patients with suspected obstructive coronary artery disease. J Am Coll Cardiol 2022;80:1965–1977. doi: 10.1016/j.jacc.2022.08.805

Class IIa

Using the Risk Factor-weighted Clinical Likelihood model. (Class I)

Class I

Class I

With FFR/iFR Class I

Class I

Severe Myocardial Ischemia – ICA Class I Indication

The use of one or more of the following test results is recommended to identify individuals at high risk of adverse events:

- exercise ECG: Duke Treadmill Score ≤ -10 ;
- stress SPECT or PET perfusion imaging: area of ischaemia $\geq 10\%$ of the LV myocardium;
- stress echocardiography: ≥ 3 of 16 segments with stress-induced hypokinesia or akinesia;
- stress CMR: ≥ 2 of 16 segments with stress perfusion defects or ≥ 3 dobutamine-induced dysfunctional segments;
- CCTA: left main disease with $\geq 50\%$ stenosis, three-vessel disease with $\geq 70\%$ stenosis or two-vessel disease with $\geq 70\%$ stenosis, including the proximal LAD or one-vessel disease of the proximal LAD with $\geq 70\%$ stenosis and FFR-CT ≤ 0.8

I

B

In individuals at high risk of adverse events (regardless of symptoms), ICA—complemented by invasive coronary pressure (FFR/iFR) when appropriate—is recommended, with the aim of refining risk stratification and improving symptoms and cardiovascular outcomes by revascularization.

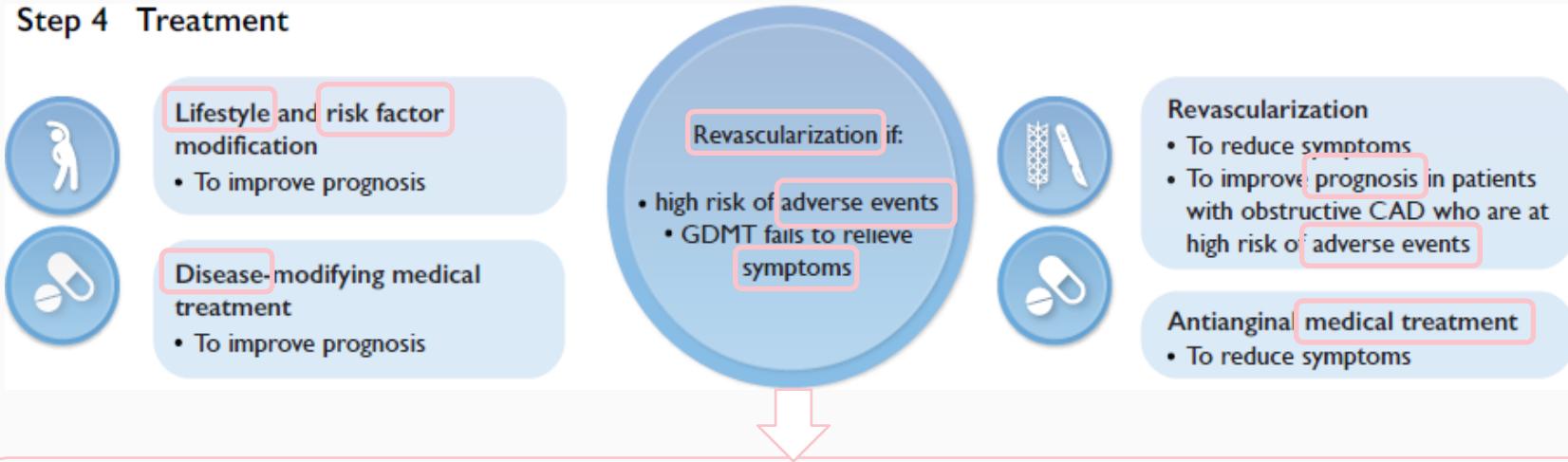
I

A



Treatment of CCS as a Whole

Step 4 Treatment

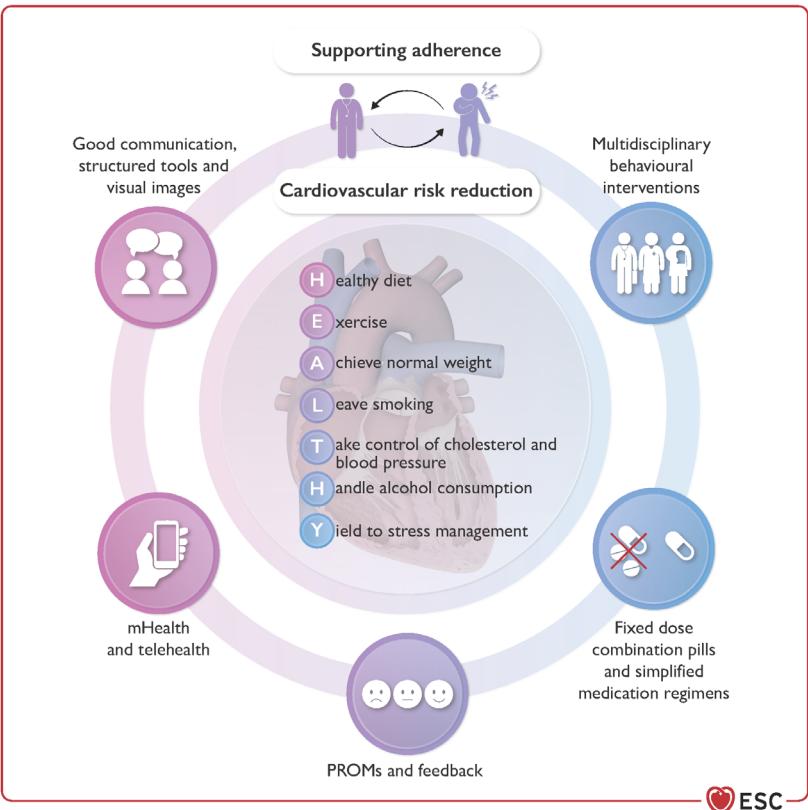


CCS: a functional, anatomical and clinical continuum

- risk factors - endothelial dysfunction – impaired vasomotion – impaired flow reserve
- disease of large to medium and micro-vessels — atheroma (composition as well as flow-limiting stenoses)
- ischaemia – angina – infarction – heart failure – arrhythmias – CV death – death

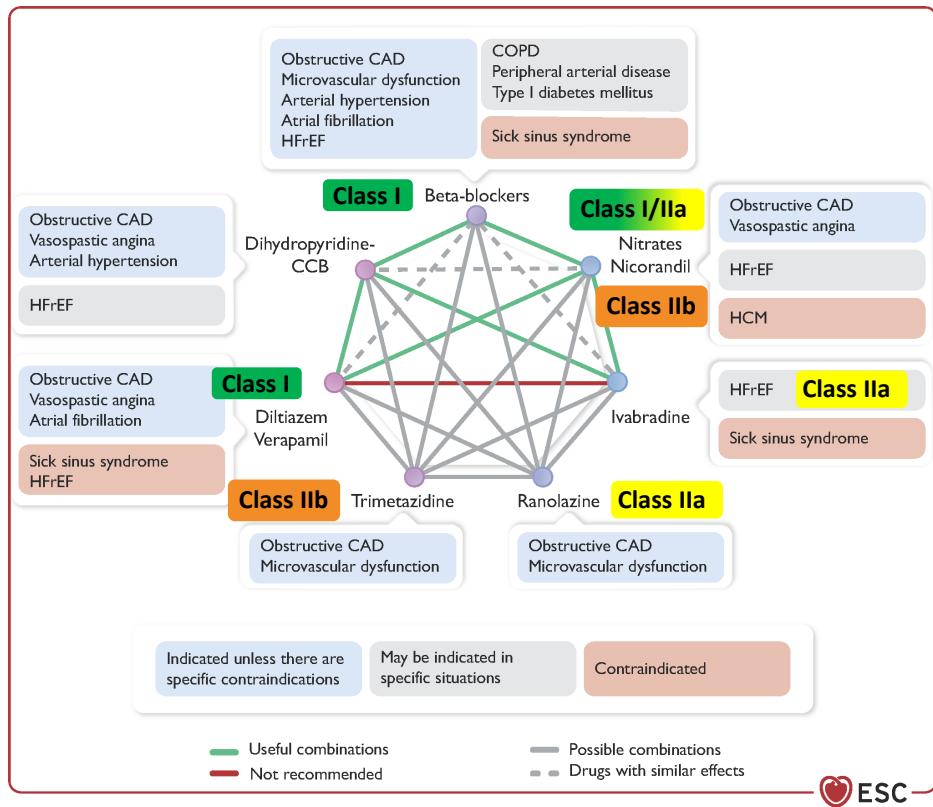
Treating any element of the continuum has potential impact on other elements and ultimately on outcomes

Patient-centered Treatment



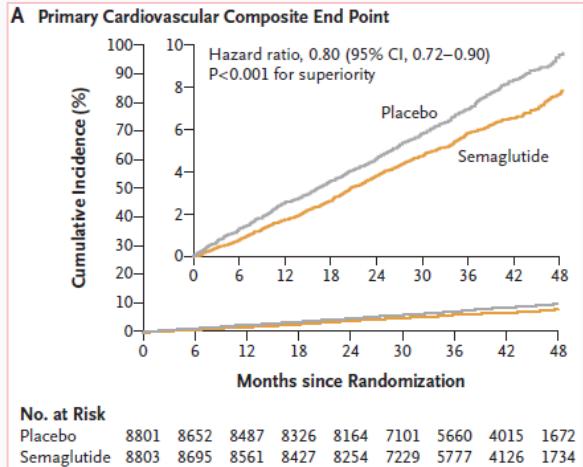
to live long and healthy lives

Antiangular Drugs and Combinations

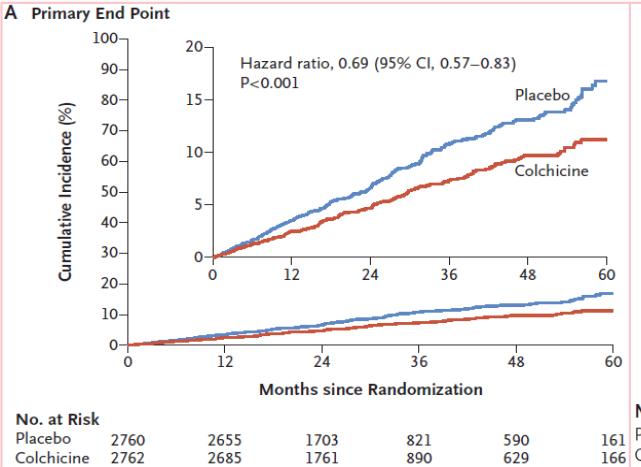


Event-Preventing Metabolic & Anti-inflammatory Drugs

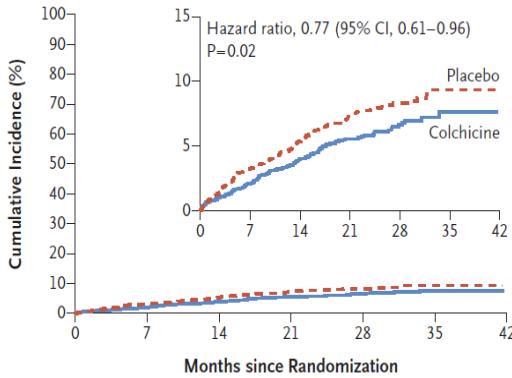
SELECT



LoDoCo2



COLCOT



New

The GLP-1 receptor agonist semaglutide should be considered in overweight (BMI >27 kg/m²) or obese CCS patients without diabetes to reduce CV mortality, MI, or stroke.

IIa

B

In CCS patients with atherosclerotic CAD, low-dose colchicine (0.5 mg daily) should be considered to reduce myocardial infarction, stroke, and need for revascularization.

IIa

A

Revised

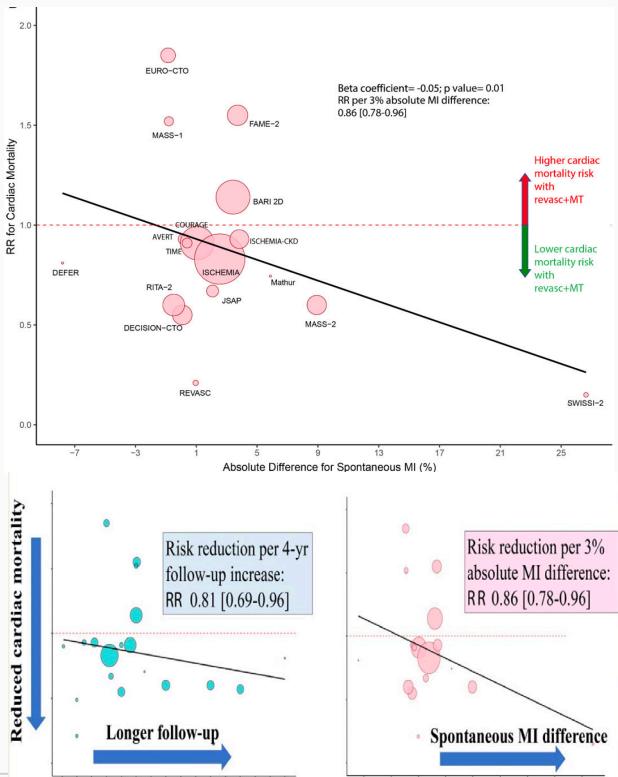
Revascularization of Significant Non-LM CAD (LVEF >35%)

Meta-analysis by Navarese et al.

Rigorous by Cochrane

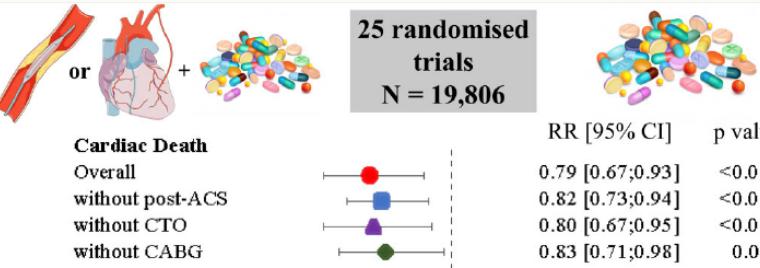
- 1979 → Mathur
- 1983 → CAAS
- 1984 → VA
- 1988 → ECSS
- 1992 → ACME 1 & 2
- 1997 → ACIP
- 1999 → AVERT MASS-1
- 2003 → RITA-2
- 2004 → TIME
- 2006 → INSPIRE
- 2007 → COURAGE SWISSI-2
- 2008 → JSAP
- 2009 → BARI 2D
- 2010 → MASS-2
- 2015 → DEFER
- 2018 → ORBITA REVASC FAME-2
- 2019 → EURO-CTO DECISION-CTO
- 2020 → ISCHEMIA ISCHEMIA-CKD

Plausible coherence

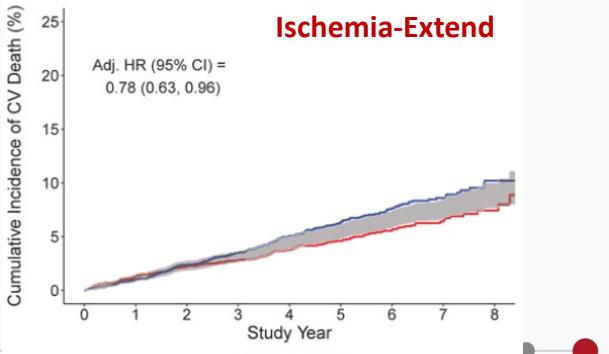


ESC Congress 2024
London & Online

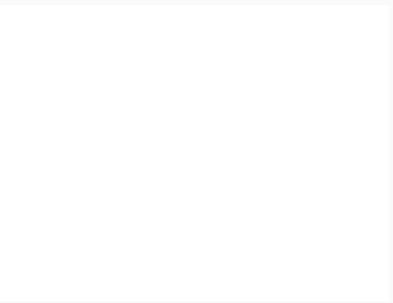
Reproducible vs. Ischemia-Extend



At 5.7 yr FU:
Navarese et al.: 21% lower RR with Revasc+MT
Ischemia-Extend: 22% lower HR with Inv. Strategy



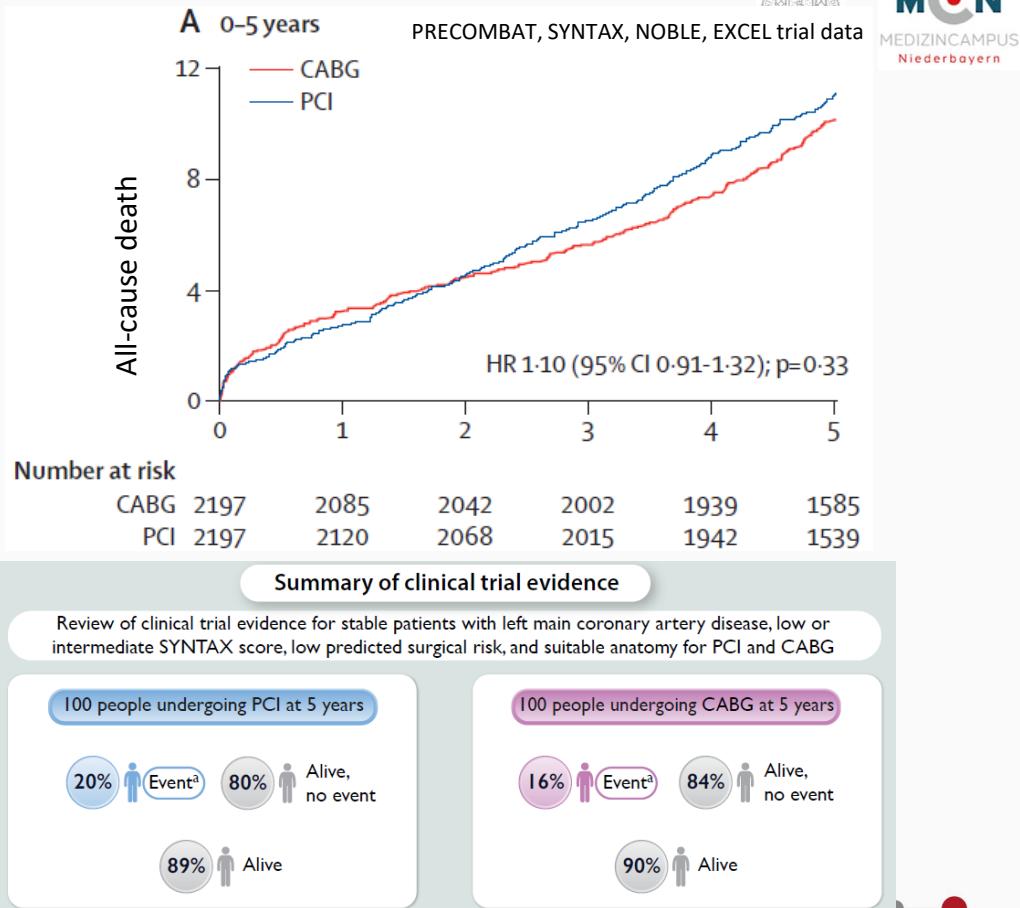
Recommendations for Revascularization in Patients with Chronic Coronary Syndrome with LVEF >35%



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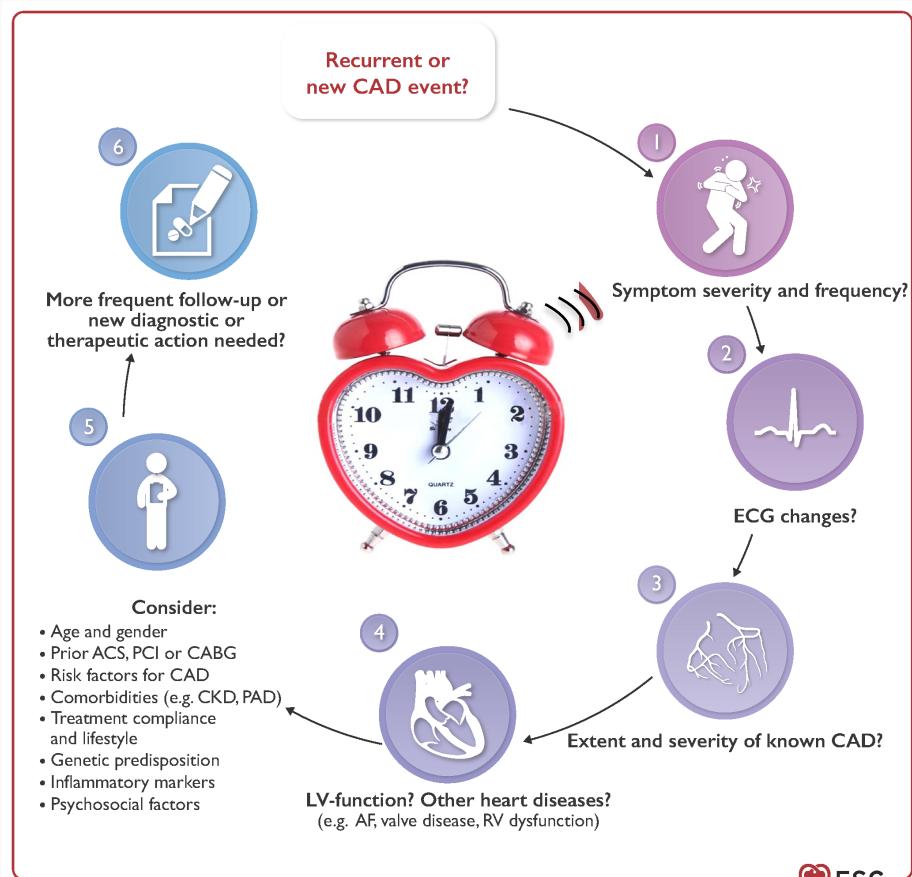
Revascularization of Significant Left Main CAD

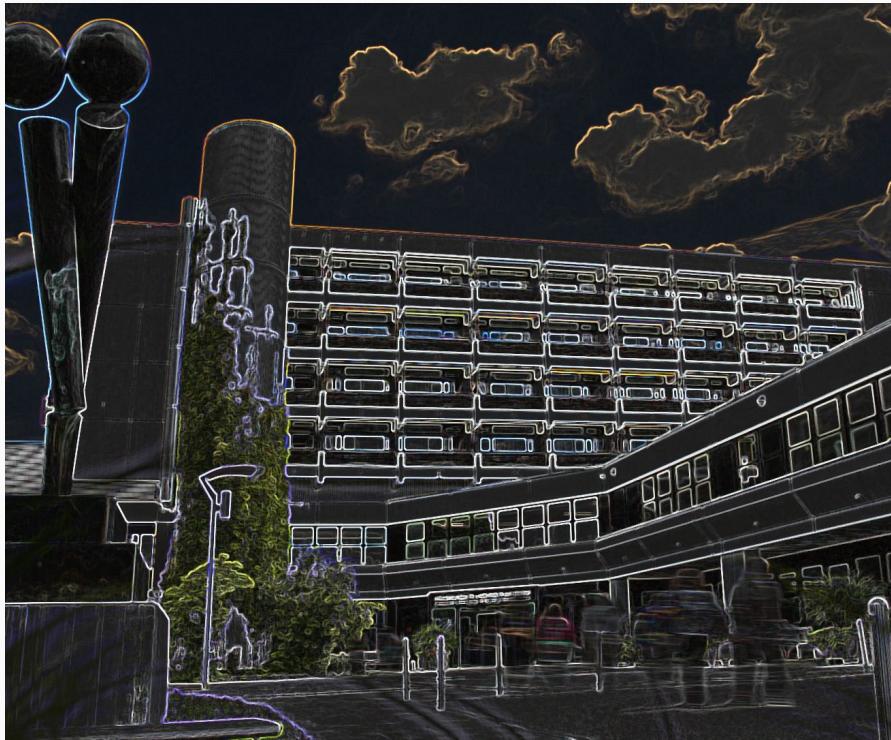
- ✓ 03/2005 – 01/2015,
- ✓ 4394 patients in 260 centres
- ✓ **1.7 patient/center/year**
- ✓ age 66 years (59-73)
- ✓ LVEF <50%, 12%
- ✓ EuroSCORE 3.0 (1.0-4.0)
- ✓ lower burden of comorbidities
- ✓ immature interventional strategy
- ✓ old generation DES used
- ✓ various definitions of MI
- ✓ Syntax Score one of the key inclusion criteria



Recommendations for Mode of Revascularization in Chronic Coronary Syndrome Patients with uLMCA

Long-term Follow-up of CCS Patients





VIELEN DANK!

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