

SUPPLEMENTAL DATA

Figure S1: Sequential imaging protocol.

Abbreviations: CCTA, coronary computed tomography angiography; PET, positron emission tomography angiography. Definitions: *These patients did not undergo subsequent PET myocardial perfusion imaging (per study design) and were assumed non-ischaemic.

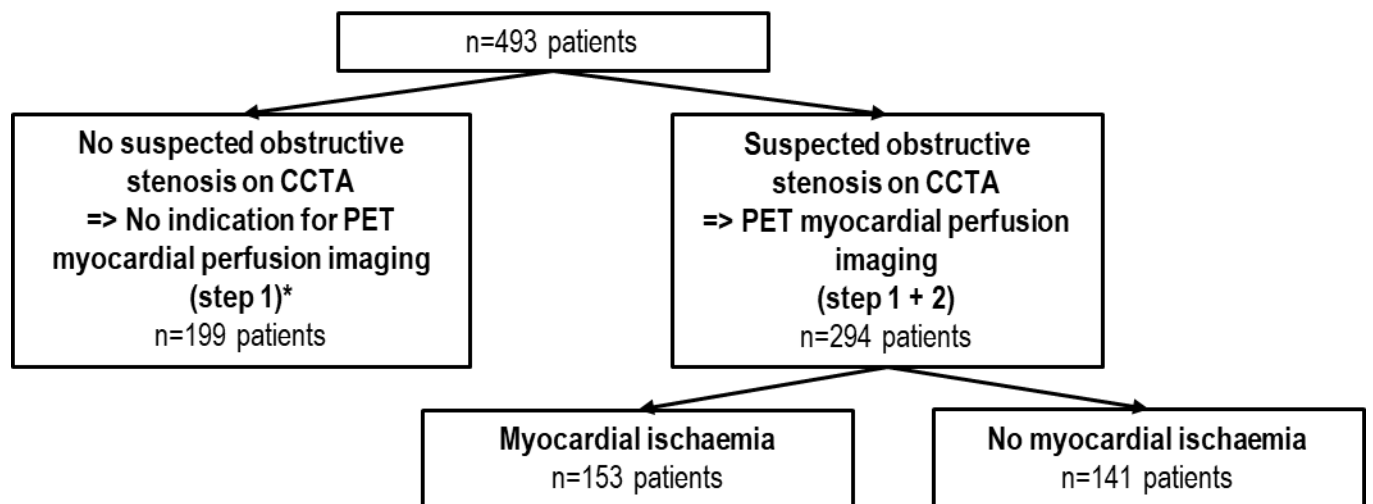


Table S1: Univariable analysis for myocardial ischaemia on PET.

Abbreviations: CAD, coronary artery disease; CCTA, coronary computed tomography angiography; PET, positron emission tomography. Definitions: *Including hypertension, dyslipidemia, diabetes mellitus, family history of CAD and smoking current or former.

	OR (95% CI)	p-value
Baseline characteristics		
Age, years	1.000 (0.978-1.023)	0.985
Male	3.222 (2.124-4.887)	<0.001
Hypertension	1.884 (1.135-3.127)	0.014
Dyslipidemia	1.666 (1.060-2.621)	0.027
Diabetes mellitus	1.872 (1.155-3.032)	0.011
Family history of CAD	1.167 (0.796-1.712)	0.429
Smoking current or former	1.280 (0.864-1.898)	0.219
Number of cardiac risk factors*	1.416 (1.175-1.707)	<0.001
CCTA results		
<u>General</u>		
Diameter stenosis $\geq 50\%$	9.887 (6.300-15.517)	<0.001
Total plaque volume, mm ³	1.003 (1.003-1.004)	<0.001
Calcified volume, mm ³	1.006 (1.004-1.008)	<0.001
Fibrous volume, mm ³	1.008 (1.006-1.010)	<0.001
Fibrofatty volume, mm ³	1.028 (1.022-1.035)	<0.001
Necrotic core volume, mm ³	1.045 (1.035-1.055)	<0.001
<u>Maximal stenotic lesion</u>		
Cross-sectional plaque burden, %	1.067 (1.052-1.081)	<0.001
Minimal luminal area, mm ²	0.600 (0.533-0.675)	<0.001
Lesion length, mm	1.082 (1.054-1.110)	<0.001
Remodelling index	1.116 (0.416-2.990)	0.827

Table S2: Interaction between total plaque volume and necrotic core volume.

Definitions: *Crude model for interaction: total plaque volume, necrotic core volume and interaction term total plaque volume*necrotic core volume; †Adjusted model for interaction: plaque composition model (diameter stenosis $\geq 50\%$, total plaque volume, necrotic core volume, age, sex, >3 cardiac risk factors) and interaction term total plaque volume*necrotic core volume.

	Crude interaction p-value	Adjusted interaction p-value
Total plaque volume*necrotic core volume	0.004*	0.036†