

Supplement 1. Baseline characteristics.

Patient 1

Age	46
Female	No
NSTEMI	No
Typical angina	No
LVEF (%)	40
RWMA	Yes
Severe valvular disease	No
Pericardial effusion	No
Heart Failure	
NYHA I	No
NYHA II	Yes
NYHA III	No
NYHA IV	No
Hypertension	Yes
Hypercholesterolaemia	No
Smoking	Yes
Diabetes	No
Obesity	No
Previous CAD	No
Previous stroke	No
Previous kidney disease	No
Previous lung disease	No
Family history	No
Sinus rhythm in ECG	Yes

NSTEMI = non-ST segment elevation myocardial infarction. HR = heart rate. LVEF = left ventricle ejection fraction. RWMA = regional wall motion abnormalities, CAD = coronary artery disease, PAD = peripheral artery disease

Patient 2

Age	41
Female	Yes
NSTEMI	Yes
Typical angina	Yes
LVEF (%)	70
RWMA	No
Severe valvular disease	No
Pericardial effusion	No
Heart Failure	
NYHA I	Yes
NYHA II	No
NYHA III	No
NYHA IV	No
Hypertension	No
Hypercholesterolaemia	No
Smoking	No
Diabetes	No
Obesity	No
Previous CAD	No
Previous stroke	No
Previous kidney disease	No
Previous lung disease	No
Family history	No
Sinus rhythm in ECG	Yes

NSTEMI = non-ST segment elevation myocardial infarction. HR = heart rate. LVEF = left ventricle ejection fraction. RWMA = regional wall motion abnormalities, CAD = coronary artery disease, PAD = peripheral artery disease

Patient 3

Age	55
Female	No
NSTEMI	No
Typical angina	Yes
LVEF (%)	55
RWMA	No
Severe valvular disease	No
Pericardial effusion	No
Heart Failure	
NYHA I	No
NYHA II	Yes
NYHA III	No
NYHA IV	No
Hypertension	Yes
Hypercholesterolaemia	No
Smoking	No
Diabetes	No
Obesity	No
Previous CAD	No
Previous stroke	No
Previous kidney disease	No
Previous lung disease	No
Family history	No
Sinus rhythm in ECG	Yes

NSTEMI = non-ST segment elevation myocardial infarction. HR = heart rate. LVEF = left ventricle ejection fraction. RWMA = regional wall motion abnormalities, CAD = coronary artery disease, PAD = peripheral artery disease

Patient 4

Age	64
Female	Yes
NSTEMI	Yes
Typical angina	Yes
LVEF (%)	60
RWMA	No
Severe valvular disease	No
Pericardial effusion	Yes
Heart Failure	
NYHA I	Yes
NYHA II	No
NYHA III	No
NYHA IV	No
Hypertension	Yes
Hypercholesterolaemia	Yes
Smoking	No
Diabetes	No
Obesity	No
Previous CAD	No
Previous stroke	No
Previous kidney disease	No
Previous lung disease	No
Family history	Yes
Sinus rhythm in ECG	Yes

NSTEMI = non-ST segment elevation myocardial infarction. HR = heart rate. LVEF = left ventricle ejection fraction. RWMA = regional wall motion abnormalities, CAD = coronary artery disease, PAD = peripheral artery disease

Patient 5

Age	54
Female	No
NSTEMI	No
Typical angina	No
LVEF (%)	60
RWMA	No
Severe valvular disease	No
Pericardial effusion	No
Heart Failure	
NYHA I	Yes
NYHA II	No
NYHA III	No
NYHA IV	No
Hypertension	Yes
Hypercholesterolaemia	No
Smoking	Yes
Diabetes	No
Obesity	No
Previous CAD	No
Previous stroke	No
Previous kidney disease	No
Previous lung disease	No
Family history	No
Sinus rhythm in ECG	Yes

NSTEMI = non-ST segment elevation myocardial infarction. HR = heart rate. LVEF = left ventricle ejection fraction. RWMA = regional wall motion abnormalities, CAD = coronary artery disease, PAD = peripheral artery disease

Patient 6

Age	56
Female	Yes
NSTEMI	Yes
Typical angina	Yes
LVEF (%)	50
RWMA	Yes
Severe valvular disease	No
Pericardial effusion	No
Heart Failure	
NYHA I	Yes
NYHA II	No
NYHA III	No
NYHA IV	No
Hypertension	No
Hypercholesterolaemia	No
Smoking	Yes
Diabetes	No
Obesity	No
Previous CAD	No
Previous stroke	No
Previous kidney disease	No
Previous lung disease	No
Family history	No
Sinus rhythm in ECG	Yes

NSTEMI = non-ST segment elevation myocardial infarction. HR = heart rate. LVEF = left ventricle ejection fraction. RWMA = regional wall motion abnormalities, CAD = coronary artery disease, PAD = peripheral artery disease

Patient 7

Age	49
Female	No
NSTEMI	Yes
Typical angina	Yes
LVEF	30
RWMA	Yes
Severe valvular disease	No
Pericardial effusion	No
Heart Failure	
NYHA I	No
NYHA II	Yes
NYHA III	No
NYHA IV	No
Hypertension	Yes
Hypercholesterolaemia	No
Smoking	Yes
Diabetes	No
Obesity	No
Previous CAD	No
Previous stroke	No
Previous kidney disease	No
Previous lung disease	No
Family history	No
Sinus rhythm in ECG	Yes

NSTEMI = non-ST segment elevation myocardial infarction. HR = heart rate. LVEF = left ventricle ejection fraction. RWMA = regional wall motion abnormalities, CAD = coronary artery disease, PAD = peripheral artery disease

Patient 8

Age	49
Female	No
NSTEMI	Yes
Typical angina	No
LVEF (%)	55
RWMA	No
Severe valvular disease	No
Pericardial effusion	No
Heart Failure	
NYHA I	Yes
NYHA II	No
NYHA III	No
NYHA IV	No
Hypertension	Yes
Hypercholesterolaemia	No
Smoking	Yes
Diabetes	No
Obesity	Yes
Previous CAD	No
Previous stroke	No
Previous kidney disease	No
Previous lung disease	No
Family history	Yes
Sinus rhythm in ECG	Yes

NSTEMI = non-ST segment elevation myocardial infarction. HR = heart rate. LVEF = left ventricle ejection fraction. RWMA = regional wall motion abnormalities, CAD = coronary artery disease, PAD = peripheral artery disease

Patient 9

Age	52
Female	Yes
NSTEMI	Yes
Typical angina	Yes
LVEF (%)	30
RWMA	Yes
Severe valvular disease	No
Pericardial effusion	No
Heart Failure	
NYHA I	No
NYHA II	Yes
NYHA III	No
NYHA IV	No
Hypertension	Yes
Hypercholesterolaemia	No
Smoking	Yes
Diabetes	No
Obesity	No
Previous CAD	No
Previous stroke	No
Previous kidney disease	No
Previous lung disease	No
Family history	Yes
Sinus rhythm in ECG	Yes

NSTEMI = non-ST segment elevation myocardial infarction. HR = heart rate. LVEF = left ventricle ejection fraction. RWMA = regional wall motion abnormalities, CAD = coronary artery disease, PAD = peripheral artery disease

Patient 10

Age	55
Female	Yes
NSTEMI	Yes
Typical angina	Yes
LVEF (%)	60
RWMA	No
Severe valvular disease	No
Pericardial effusion	No
Heart Failure	
NYHA I	Yes
NYHA II	No
NYHA III	No
NYHA IV	No
Hypertension	Yes
Hypercholesterolaemia	Yes
Smoking	Yes
Diabetes	Yes
Obesity	No
Previous CAD	No
Previous stroke	No
Previous kidney disease	No
Previous lung disease	No
Family history	No
Sinus rhythm in ECG	Yes

NSTEMI = non-ST segment elevation myocardial infarction. HR = heart rate. LVEF = left ventricle ejection fraction. RWMA = regional wall motion abnormalities, CAD = coronary artery disease, PAD = peripheral artery disease

Supplement 2. OCT and CMR findings.

Patient 1

OCT	
Plaque rupture	No
Plaque erosion	No
Eruptive calcific nodule	No
Spontaneous coronary artery dissection	No
Presence of thrombus	No
Negative OCT	Yes
CMR	
T2 hyperintensity	
Present	Yes
Absent	No
Myocardial hemorrhage	No
MVO	No
Abnormal delayed enhancement	
Subendocardial	No
Transmural	Yes
Subendocardial + transmural	No
LV dimensions and function	
LVEDV (ml/m²)	171
LVESV (ml/m²)	80
LVEF (%)	53
Pericardial effusion	No
Definite diagnosis	
MI	No
Myocarditis	Yes
Negative CMR	No

OCT – optical coherence tomography, CMR – cardiac magnetic resonance, MVO – microvascular obstruction, LV – left ventricle, MI – myocardial infarction.

Patient 2

OCT	
Plaque rupture	Yes
Plaque erosion	No
Eruptive calcific nodule	No
Spontaneous coronary artery dissection	Yes
Presence of thrombus	No
Negative OCT	No
CMR	
T2 hyperintensity	
Present	Yes
Absent	No
Myocardial hemorrhage	No
MVO	No
Abnormal delayed enhancement	
Subendocardial	Yes
Transmural	No
Subendocardial + transmural	No
LV dimensions and function	
LVEDV (ml/m ²)	105
LVESV (ml/m ²)	42
LVEF (%)	60
Pericardial effusion	No
Definite diagnosis	
MI	Yes
Myocarditis	No
Negative CMR	No

OCT – optical coherence tomography, CMR – cardiac magnetic resonance, MVO – microvascular obstruction, LV – left ventricle, MI – myocardial infarction.

Patient 3

OCT	
Plaque rupture	No
Plaque erosion	Yes
Eruptive calcific nodule	No
Spontaneous coronary artery dissection	No
Presence of thrombus	Yes
Negative OCT	No
CMR	
T2 hyperintensity	
Present	Yes
Absent	No
Myocardial hemorrhage	No
MVO	No
Abnormal delayed enhancement	
Subendocardial	Yes
Transmural	Yes
Subendocardial + transmural	Yes
LV dimensions and function	
LVEDV (ml/m ²)	127
LVESV (ml/m ²)	28
LVEF (%)	78
Pericardial effusion	No
Definite diagnosis	
MI	Yes
Myocarditis	No
Negative CMR	No

OCT – optical coherence tomography, CMR – cardiac magnetic resonance, MVO – microvascular obstruction, LV – left ventricle, MI – myocardial infarction.

Patient 4

OCT	
Plaque rupture	No
Plaque erosion	Yes
Eruptive calcific nodule	No
Spontaneous coronary artery dissection	No
Presence of thrombus	No
Negative OCT	No
CMR	
T2 hyperintensity	
Present	Yes
Absent	No
Myocardial hemorrhage	No
MVO	No
Abnormal delayed enhancement	
Subendocardial	Yes
Transmural	Yes
Subendocardial + transmural	Yes
LV dimensions and function	
LVEDV (ml/m ²)	94
LVESV (ml/m ²)	33
LVEF (%)	65
Pericardial effusion	Yes
Definite diagnosis	
MI	Yes
Myocarditis	No
Negative CMR	No

OCT – optical coherence tomography, CMR – cardiac magnetic resonance, MVO – microvascular obstruction, LV – left ventricle, MI – myocardial infarction.

Patient 5

OCT	
Plaque rupture	No
Plaque erosion	No
Eruptive calcific nodule	No
Spontaneous coronary artery dissection	No
Presence of thrombus	Yes
Negative OCT	No
CMR	
T2 hyperintensity	
Present	Yes
Absent	No
Myocardial hemorrhage	No
MVO	No
Abnormal delayed enhancement	
Subendocardial	Yes
Transmural	Yes
Subendocardial + transmural	Yes
LV dimensions and function	
LVEDV (ml/m ²)	138
LVESV (ml/m ²)	45
LVEF (%)	68
Pericardial effusion	No
Definite diagnosis	
MI	Yes
Myocarditis	No
Negative CMR	No

OCT – optical coherence tomography, CMR – cardiac magnetic resonance, MVO – microvascular obstruction, LV – left ventricle, MI – myocardial infarction.

Patient 6

OCT	
Plaque rupture	No
Plaque erosion	No
Eruptive calcific nodule	No
Spontaneous coronary artery dissection	No
Presence of thrombus	No
Negative OCT	Yes
CMR	
T2 hyperintensity	
Present	Yes
Absent	No
Myocardial hemorrhage	No
MVO	No
Abnormal delayed enhancement	
Subendocardial	No
Transmural	Yes
Subendocardial + transmural	No
LV dimensions and function	
LVEDV (ml/m ²)	100
LVESV (ml/m ²)	41
LVEF (%)	59
Pericardial effusion	No
Definite diagnosis	
MI	No
Myocarditis	Yes
Negative CMR	No

OCT – optical coherence tomography, CMR – cardiac magnetic resonance, MVO – microvascular obstruction, LV – left ventricle, MI – myocardial infarction.

Patient 7

OCT	
Plaque rupture	No
Plaque erosion	No
Eruptive calcific nodule	No
Spontaneous coronary artery dissection	Yes
Presence of thrombus	No
Negative OCT	No
CMR	
T2 hyperintensity	
Present	No
Absent	Yes
Myocardial hemorrhage	No
MVO	No
Abnormal delayed enhancement	
Subendocardial	No
Transmural	No
Subendocardial + transmural	No
LV dimensions and function	
LVEDV (ml/m²)	131
LVESV (ml/m²)	63
LVEF (%)	52
Pericardial effusion	No
Definite diagnosis	
MI	Yes
Myocarditis	No
Negative CMR	No

OCT – optical coherence tomography, CMR – cardiac magnetic resonance, MVO – microvascular obstruction, LV – left ventricle, MI – myocardial infarction.

Patient 8

OCT	
Plaque rupture	Yes
Plaque erosion	No
Eruptive calcific nodule	No
Spontaneous coronary artery dissection	No
Presence of thrombus	No
Negative OCT	No
CMR	
T2 hyperintensity	
Present	Yes
Absent	No
Myocardial hemorrhage	No
MVO	Yes
Abnormal delayed enhancement	
Subendocardial	Yes
Transmural	Yes
Subendocardial + transmural	Yes
LV dimensions and function	
LVEDV (ml/m ²)	154
LVESV (ml/m ²)	63
LVEF (%)	59
Pericardial effusion	No
Definite diagnosis	
MI	Yes
Myocarditis	No
Negative CMR	No

OCT – optical coherence tomography, CMR – cardiac magnetic resonance, MVO – microvascular obstruction, LV – left ventricle, MI – myocardial infarction.

Patient 9

OCT	
Plaque rupture	No
Plaque erosion	No
Eruptive calcific nodule	No
Spontaneous coronary artery dissection	No
Presence of thrombus	No
Negative OCT	Yes
CMR	
T2 hyperintensity	
Present	Yes
Absent	No
Myocardial hemorrhage	No
MVO	No
Abnormal delayed enhancement	
Subendocardial	No
Transmural	No
Subendocardial + transmural	No
LV dimensions and function	
LVEDV (ml/m ²)	131
LVESV (ml/m ²)	63
LVEF (%)	52
Pericardial effusion	Yes
Definite diagnosis	
MI	No
Myocarditis	No
Negative CMR	No

OCT – optical coherence tomography, CMR – cardiac magnetic resonance, MVO – microvascular obstruction, LV – left ventricle, MI – myocardial infarction.

Patient 10

OCT	
Plaque rupture	No
Plaque erosion	No
Eruptive calcific nodule	No
Spontaneous coronary artery dissection	No
Presence of thrombus	Yes
Negative OCT	No
CMR	
T2 hyperintensity	
Present	Yes
Absent	No
Myocardial hemorrhage	No
MVO	No
Abnormal delayed enhancement	
Subendocardial	No
Transmural	Yes
Subendocardial + transmural	No
LV dimensions and function	
LVEDV (ml/m ²)	100
LVESV (ml/m ²)	41
LVEF (%)	59
Pericardial effusion	No
Definite diagnosis	
MI	Yes
Myocarditis	No
Negative CMR	No

OCT – optical coherence tomography, CMR – cardiac magnetic resonance, MVO – microvascular obstruction, LV – left ventricle, MI – myocardial infarction.