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## SUPPLEMENTAL MATERIAL

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### Supplemental Methods

#### 3 **Setting**

4 Study participants were enrolled in two large urban hospitals and two regional district general  
5 hospitals in the National Health Service (NHS) in the United Kingdom (UK). The hospitals  
6 differed in geography, availability of catheter laboratory facilities on-site (or not), and hospital  
7 type (academic vs. regional). Royal Blackburn Hospital was the only hospital with an on-site  
8 cardiac catheterisation laboratory. In the other hospitals, patients were triaged for invasive  
9 management by referral and transferred to the regional cardiothoracic centre (Golden Jubilee  
10 National Hospital).

#### 11 **Screening**

12 The clinical research team on each site screened for patients aged  $\geq 18$  years, of either sex,  
13 admitted during unscheduled emergency care with a suspected acute non-ST segment elevation  
14 acute coronary syndrome and prior coronary artery bypass graft (CABG). Screening took place  
15 in the acute medical and cardiology wards during the course of routine healthcare. Patients  
16 eligible for either invasive (with coronary and graft angiography) or non-invasive management  
17 were invited to participate. Eligible patients were given an information sheet prior to  
18 participation. All randomised and registry patients provided written informed consent as soon as  
19 feasible after hospital admission and prior to referral for coronary angiography. Each patient was  
20 given a site and study number and entered into a screening log which only contained de-  
21 identified information. Patients who did not consent were included in the 'screen failure' log.

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22 The community health index (CHI) or NHS number was recorded to enable electronic record  
23 linkage.

#### 24 **Randomisation**

25 Randomisation was stratified by centre, using randomised permuted blocks of length 4 and 6,  
26 with block lengths chosen at random.

#### 27 **Non-invasive group**

28 Participants who had been randomised to the non-invasive group could be referred for invasive  
29 management if any pre-specified criteria were met (**Supplemental Methods**).

#### 30 **Invasive group**

31 Invasive management was performed early (i.e.  $\leq 72$  hours wherever possible) after hospital  
32 admission. Invasive management included native coronary and bypass graft angiography and  
33 coronary and/or graft revascularisation with percutaneous coronary intervention (PCI) and/or  
34 CABG, as clinically appropriate.

#### 35 **Optimal medical therapy**

36 Optimal medical therapy was intended for all of the participants. Guidance on up-titration of  
37 medical therapy was provided in an investigator guideline. Medical therapy included dual anti-  
38 platelet, anti-thrombotic, and anti-ischaemic therapies as per local protocols and international  
39 guidelines.[1,2]

#### 40 **Non-invasive group**

41 Study participants who had been randomised to the non-invasive group could be referred for  
42 invasive management if one of the following pre-specified criteria are met: 1) recurrent or

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43 refractory (class III or IV) angina with documented ischaemic electrocardiogram (ECG) changes  
44 whilst on “optimal” anti-ischaemic therapy, 2) new ST-segment elevation in two contiguous  
45 leads without Q waves or T wave inversion greater than 3 mm or development of haemodynamic  
46 instability, or 3) a deterioration in heart failure (HF) status (consistent with Killip class 3 or 4)  
47 that the attending clinician judges to be ischaemia-related based on the presence of symptoms,  
48 ECG changes and cardiac biomarker elevation.

#### 49 **Follow-up and outcome collection**

50 Clinical research nurses and clinicians who were independent of the study teams and aware of  
51 the group allocations supported enrolment and follow-up assessments on all sites. They  
52 prospectively gathered information on screening, recruitment, randomisation (to medical therapy  
53 or invasive management), crossover rates, and serious adverse events in patients with prior  
54 coronary artery bypass graft and a recent non-ST segment elevation acute coronary syndrome.

55 Data will be held for up to 20 years to enable long-term follow-up analyses. Following  
56 randomisation, clinical assessments involved gathering information from standard-of-care  
57 clinical reviews (end of hospitalisation, 30-42 days and 1 year) and also from clinical contacts  
58 recorded in the patients’ medical records. In West of Scotland hospitals, a single system of  
59 electronic patient records is used for all hospital attendances and correspondence with primary  
60 care.

61 Serious adverse events during the index admission and follow-up were evaluated from review of  
62 patient records obtained during usual care, and electronic health databases, using the CHI and  
63 NHS number. All outcomes were prospectively entered into an electronic Case Report Form.

**64 Clinical Event Committee**

65 The Clinical Event Committee (CEC) reviewed cases of interest to determine if they meet the  
66 criteria defined in the pre-specified charter. Causality assessments were not made by the CEC.  
67 The CEC was blinded to all information relating to the randomisation group. The CEC included  
68 4 cardiovascular physicians who have expertise in the diagnosis and treatment of cardiovascular  
69 disorders and in the medical aspects of clinical trials. The CEC had a Chairman (M.C.P.) and  
70 coordinator (M.M.Y.L.) to assist with preparation of de-identified source clinical data, reports  
71 and communication with the Trials Unit. The CEC followed a pre-determined adjudication  
72 charter.

**73 Definitions of adverse events****74 Refractory ischaemia**

75 Recurrent ischaemic symptoms lasting more than 5 minutes, whilst on optimal medical therapy  
76 (at least 2 anti-anginal treatments) with documented characteristic ECG changes indicative of  
77 ischaemia and requiring an additional intervention. An additional intervention was defined as  
78 reperfusion therapy for myocardial infarction (MI), cardiac catheterisation, and insertion of intra-  
79 aortic balloon pump or revascularisation procedure (percutaneous coronary intervention or  
80 coronary artery bypass graft surgery) within 48 hours of the onset of this episode. This definition  
81 is in line with the Timing of Intervention in Acute Coronary Syndromes (TIMACS) trial.[3]

**82 Death**

83 All-cause, sudden cardiac death, death due to MI, death due to HF, death due to stroke, death due  
84 to extra-axial haemorrhage, death due to cardiovascular operation, death due to other

85 cardiovascular cause (e.g. infective endocarditis), presumed cardiovascular death (undetermined  
86 cause of death), non-cardiovascular death.[4]

### 87 **Procedure-related MI**

88 According to the Universal Definition of MI (Type 4b).[5] A post-procedure ECG was used to  
89 diagnose Q-wave vs. non-Q-wave MI.

### 90 **Stroke**

91 Defined as the presence of a new focal neurologic deficit thought to be vascular in origin, with  
92 signs or symptoms lasting more than 24 hours;[3] subdural haemorrhage.

### 93 **Major bleeding**

94 Defined according to the Bleeding Academic Research Consortium criteria.[6]

### 95 **Worsening renal function**

96 Defined as deterioration in estimated Glomerular Filtration Rate  $\geq 25\%$  of baseline during the  
97 index admission.

### 98 **Crossover**

99 A crossover between groups was defined as a change of treatment strategy from invasive to non-  
100 invasive management, or vice versa. In addition, we pre-defined crossover as occurring within 30  
101 days after randomisation.

### 102 **Sample Size**

103 Since CABG-ACS was an exploratory pilot trial, no sample size calculation was performed. The  
104 sample size was n=60 based on the number of participants projected to be enrolled in 4 hospitals  
105 within a 12–18 month period. We chose this number across different secondary care settings to  
5

106 be broadly representative of the diversity in UK hospitals. The sample size was selected to  
107 enable the feasibility of randomisation, and the reasons for not being randomised were  
108 prospectively recorded. The trial was designed but not powered to assess for between-group  
109 differences in the rates of the serious adverse events contributing to the prespecified efficacy and  
110 safety outcomes.

#### 111 **Data management and biostatistics**

112 The Robertson Centre for Biostatistics acted as an independent coordinating centre for data  
113 management and statistical analyses. The Centre is registered with a Clinical Trials Unit  
114 (National Institute for Health Research Registration number: 16). The Chief Investigator  
115 (Professor Berry) had full access to all the data in the study and takes responsibility for its  
116 integrity and the data analysis.

#### 117 **Patient confidentiality**

118 Patients were assigned an identification code at the time of recruitment.

#### 119 **Statistical analysis**

##### 120 **Baseline data**

121 Baseline characteristics were summarised using mean (standard deviation (SD)) or median  
122 (interquartile range (IQR) for skewed data) for continuous variables, and count (%) for  
123 categorical variables. Baseline characteristics for randomised vs. registry participants were  
124 compared using t-tests, Mann-Whitney tests and chi-squared tests (or Fisher's exact tests) as  
125 appropriate.

126 **Efficacy and safety outcomes**

127 Numbers of events and numbers (%) of patients with adverse events were summarised. The  
128 proportion of patients with adverse events was compared between the registry and trial groups  
129 with a chi-squared test. Kaplan-Meier curves were produced for time to occurrence of the  
130 primary efficacy and safety outcomes. The hazard ratios (HR) of the primary outcomes,  
131 comparing the registry to trial group, were calculated with corresponding 95% confidence  
132 interval (CI) from a Cox model. Secondary outcomes were presented as descriptive statistics  
133 only, since this was a pilot trial with insufficient power for statistical testing of these outcomes.

134 **Ethics**

135 Potential benefits to participants include avoidance of harmful invasive management and  
136 avoidance of longer-term stent failure. No additional interventions were proposed nor were  
137 procedures withdrawn that would be needed on clinical grounds. While the intention-to-treat in  
138 each group was either with non-invasive or invasive management, all treatment options remained  
139 available according to patient and physician preference i.e. patients initially randomised to  
140 medical therapy could have undergone invasive management and vice versa.

141 **Trial management**

142 A Trial Management Group including the researchers and Local Principal Investigator on each of  
143 the 4 sites coordinated the study's activities on a day-to-day basis. The NHS Sponsor monitored  
144 the trial. Since the trial was a pilot, there was no Independent Data and Safety Monitoring  
145 Committee.

146 **Supplemental Discussion**

147 Pivotal trials excluded patients with prior CABG, limiting the applicability of practice guidelines  
148 that recommend invasive management in non-ST segment elevation acute coronary syndrome  
149 (NSTEMI-ACS) with prior CABG.[1,2,7] Our results provide real-world insights into the baseline  
150 characteristics, treatment and outcomes of patients who were ineligible for randomisation but  
151 provided informed consent for registry participation. Commonly, this information is not gathered  
152 in clinical trials due to resource implications and logistics. Bypass Angioplasty Revascularization  
153 Investigation (BARI) was a trial of percutaneous transluminal coronary angioplasty (PTCA)  
154 versus CABG.[8] BARI included a registry of eligible patients who were not randomised based  
155 on physician and/or patient preference.[8] The main reason for not being randomised was  
156 physician and patient preference for PTCA. In BARI, the physicians selected PTCA rather than  
157 CABG for 65% of registry patients who underwent revascularisation without compromising  
158 long-term survival either in the overall population or in patients with treated diabetes. This result  
159 is in contrast to the randomised trial where patients with treated diabetes who underwent CABG  
160 gained a survival advantage compared to those patients with treated diabetes who had PTCA.

161 We also gathered information on the selection process for trial participation, providing insights  
162 into the reasons for this decision. Within the registry, invasive management was substantially the  
163 preferred strategy by physicians and cardiologists. However, the proportions of patients treated  
164 by PCI in the registry group and the invasive group in the randomised trial were similarly low. A  
165 registry can disclose information on patient subsets in whom an intervention may have  
166 differential effects (harm or benefit).



167 Registry patients who were selected for invasive management may have been identified by  
168 clinicians as being potentially amenable to gaining symptomatic or prognostic benefit from  
169 revascularisation. Conversely, registry patients who were selected for medical management may  
170 have been judged as having little to gain and at risk of harm from invasive management and with  
171 non-modifiable chronic health impairment.

## 172 **Advances in interventional management**

173 In recent years, radial artery access has become the standard approach for invasive management  
174 rather than femoral artery access. The left radial artery can provide arterial access in patients  
175 with a left internal mammary graft. However, Complete High risk Indicated Patient (CHIP)  
176 procedures may require simultaneous left and right coronary artery access which necessitates  
177 vascular access via the femoral artery. Overall, our results support the safety of invasive  
178 management in selected NSTEMI-ACS patients with prior CABG.

179 Advances in CHIP procedures lead to new possibilities for revascularisation in patients with  
180 complex disease.[9] Specialist techniques have developed with ‘antegrade’ and ‘retrograde’  
181 approaches to recanalize chronic totally occluded (CTO) coronary arteries such that CTO PCI in  
182 native vessel CTOs has become increasingly feasible.[9] However, CTO PCI procedures are  
183 complex, require advanced skills, only undertaken by a minority of interventional cardiologists,  
184 and are usually pre-planned on an elective basis. Equipment can be expensive. Some of these  
185 techniques evolved very recently and so were not routinely implemented in the invasively  
186 managed patients. Whether CHIP procedures would increase revascularisation rates, comparable  
187 safety, and improvements in prognosis merit prospective evaluation in a substantive multicentre  
188 trial.[9]

189 **Abbreviations: Acronyms of trials**

- 190 FRISC II = FRagmin and Fast Revascularisation during InStability in Coronary artery disease
- 191 ICTUS = Invasive versus Conservative Treatment in Unstable Coronary Syndromes
- 192 ISAR-COOL = Intracoronary Stenting with Antithrombotic Regimen Cooling-Off
- 193 LIPSIA-NSTEMI = The Leipzig Immediate versus early and late Percutaneous coronary
- 194 Intervention triAl in NSTEMI
- 195 MATE = Medicine versus Angiography in Thrombolytic Exclusion
- 196 MOSCA = coMOrbilidades en el Síndrome Coronario Agudo
- 197 OASIS-5 = Fifth Organization to Assess Strategies in Ischemic Syndromes
- 198 RINCAL = Revascularisation or Medical Therapy in Elderly Patients with Acute Anginal
- 199 Syndromes
- 200 RITA 3 = Randomized Intervention Trial of unstable Angina
- 201 TACTICS-TIMI 18 = Treat Angina with Aggrastat and Determine Cost of Therapy with an
- 202 Invasive or Conservative Strategy – Thrombolysis in Myocardial Infarction 18
- 203 TIMACS = Timing of Intervention in Acute Coronary Syndromes
- 204 TIMI IIIB = Thrombolysis in Myocardial Ischemia
- 205 TRUCS = Treatment of Refractory Unstable angina in geographically isolated areas without
- 206 Cardiac Surgery
- 207 VANQWISH = Veterans Affairs Non-Q-Wave Infarction Strategies in Hospital
- 208 VINO = Value of first day angiography/angioplasty In evolving Non-ST segment elevation
- 209 myocardial infarction: an Open multicenter randomized trial

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**Supplemental Tables**211 **Supplemental Table 1. Trials of patients with non-ST elevation acute coronary syndromes.**

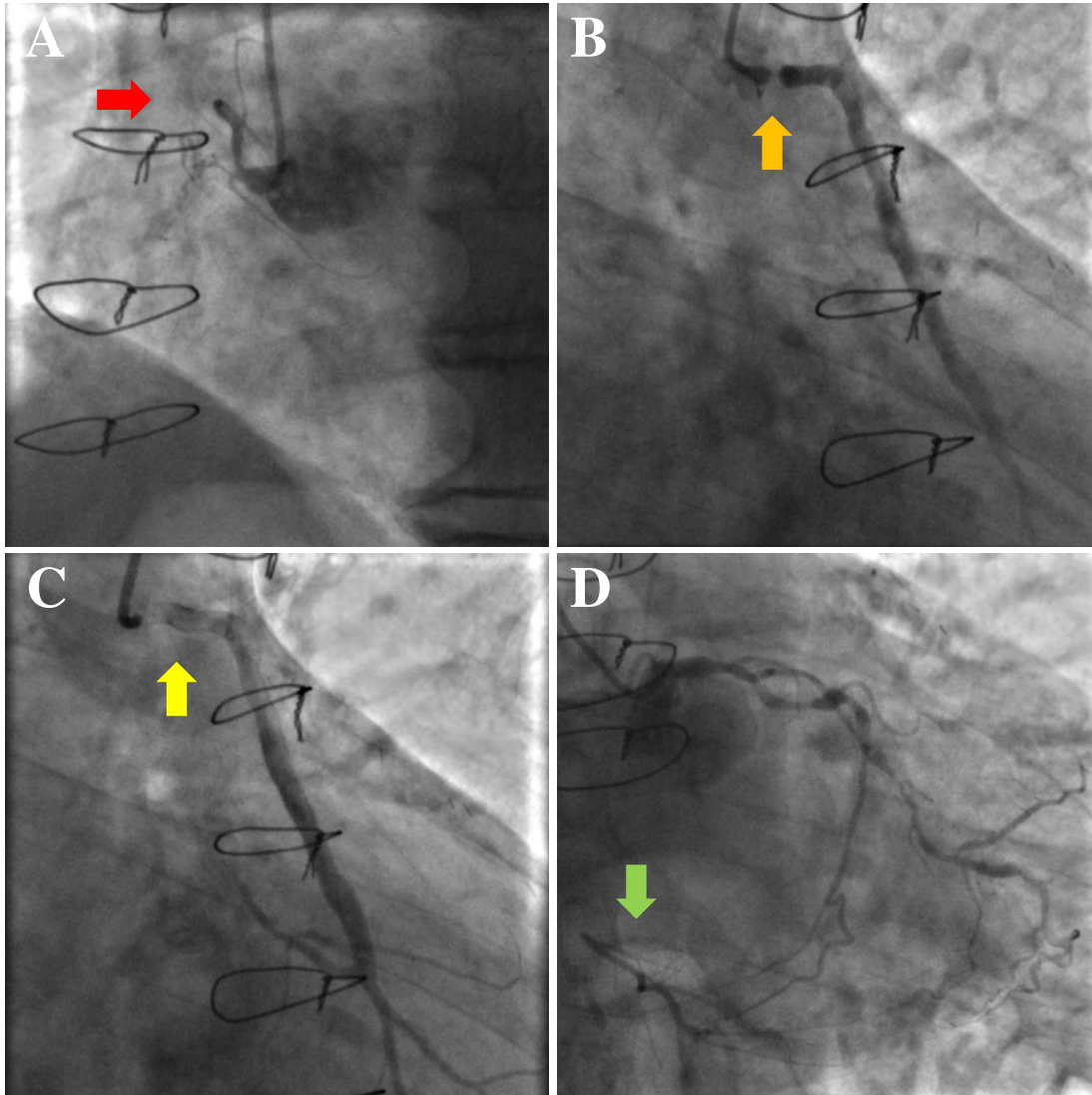
<b>Trials which included patients with prior coronary artery bypass grafting (CABG)</b>			
<b>Trial</b>	<b>Year published</b>	<b>N</b>	<b>N (%) with prior CABG</b>
VANQWISH[10]	1998	920	156 (17.0%) (CABG >3 months before randomisation)
MATE[11]	1998	201	19 (9.5%)
TRUCS[12]	2000	148	18 (12.2%)
TACTICS-TIMI 18[13]	2001	2220	484 (21.8%) (CABG >6 months before randomisation)
ISAR-COOL[14]	2003	410	48 (11.7%)
ICTUS[15]	2005	1200	105 (8.8%)
OASIS-5[16]	2009	20078	1643 (8.2%)
Italian Elderly ACS[17]	2012	313	29 (9.3%)
LIPSIA-NSTEMI[18]	2012	600	41 (6.8%)
CABG-ACS pilot[19,20]	2016	60	60 (100.0%)
After Eighty study[21]	2016	457	76 (16.6%)
MOSCA[22]	2016	106	14 (13.2%)
<b>Trials which excluded patients with prior CABG</b>			
<b>Trial</b>	<b>Year published</b>	<b>N</b>	<b>Exclusion</b>
TIMI IIIB[23]	1994	1473	CABG at any time
FRISC-II[24]	1999	2457	Previous open-heart surgery
VINO[25]	2002	131	CABG less than 6 months
RITA 3[26]	2002	1810	CABG at any time

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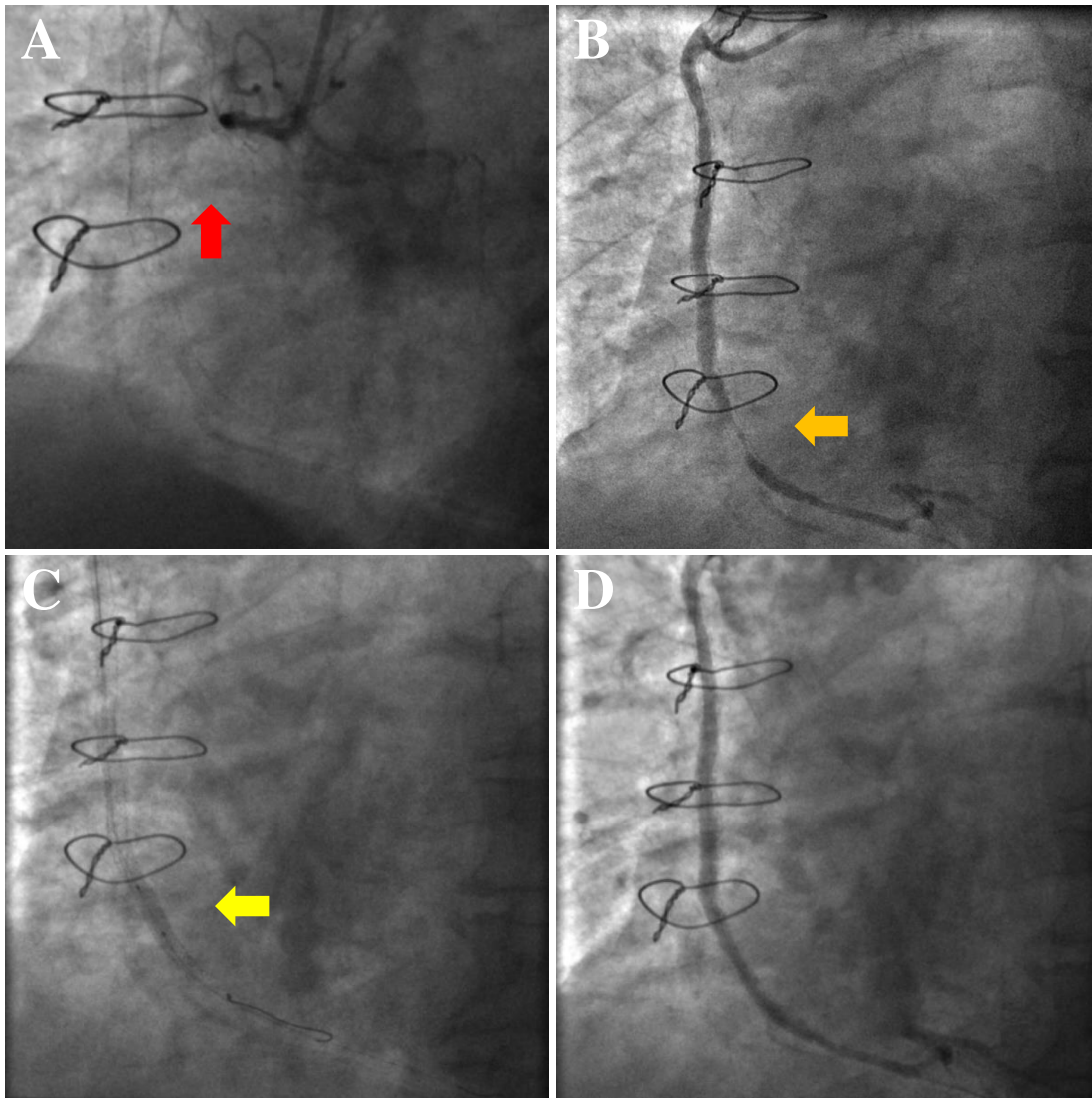
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**Supplemental Figures**

214 **Supplemental Figure 1.**



215 Supplemental Figure 2.



216 **Supplemental Figure Legends**217 **Supplemental Figure 1:**

218 Clinical case example: This 72-year-old male in the registry had an inpatient coronary angiogram  
219 at baseline which showed a (A) blocked right coronary artery (red arrow) and a (B) tight stenosis  
220 in his saphenous vein graft supplying the obtuse marginal artery (orange arrow). He underwent  
221 (C) successful percutaneous coronary intervention to this saphenous vein graft (yellow arrow),  
222 thereby restoring flow to his (D) right coronary artery (green arrow) which was collateralised by  
223 his circumflex artery. This case highlights a diseased culprit vessel supplying collaterals to  
224 another territory that is not supplied by another patent saphenous vein graft or native artery. This  
225 participant experienced serious adverse events during follow-up including bleeding (Bleeding  
226 Academic Research Consortium type 2) and heart failure hospitalisation.

227

228 **Supplemental Figure 2:**

229 Clinical case example: This 63-year-old male with a history of previous coronary artery bypass  
230 grafting and multiple coronary stents for intractable angina, was admitted with a non-ST  
231 elevation acute coronary syndrome and was recruited to the CABG-ACS registry due to  
232 physician preference for invasive management. Urgent inpatient coronary angiography revealed  
233 a (A) occluded native right coronary artery (red arrow) and (B) diseased saphenous vein graft-  
234 right coronary artery (orange arrow). (C and D) Percutaneous coronary intervention to his  
235 saphenous vein graft-right posterior descending artery (yellow) was unsuccessful (plain old  
236 balloon angioplasty only, no stents). Following multi-disciplinary team discussion, he  
237 subsequently underwent redo coronary artery bypass grafting (long saphenous vein to posterior

238 descending artery) but unfortunately after a protracted post-operative recovery period, he did not  
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