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**A RANDOMISED, DOUBLE BLIND, PLACEBO-CONTROLLED,
PARALLEL GROUP TRIAL OF LOW-DOSE ADJUNCTIVE
ALTEPLASE DURING PRIMARY PCI

(T-TIME)

3 MONTH ANALYSIS

STATISTICAL ANALYSIS PLAN**

Study Title: A randomised, double blind, placebo-controlled, parallel group Trial of low-dose adjunctive alteplase during primary PCI

Short Title: T-TIME

EUDRACT Number: 2014-004405-32

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Signature

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48 **1. INTRODUCTION**

49 **1.1. STUDY BACKGROUND**

50 Patients with acute STEMI who present with a blocked coronary artery and/or an artery with
51 a heavy thrombus burden are at increased risk of developing heart failure. This trial aims to
52 enrol patients with a heavy coronary thrombus burden at initial angiography to test the
53 hypothesis that a therapeutic strategy involving reduced dose alteplase given early after
54 coronary reperfusion as a single dose will both prevent and treat distal microvascular
55 thrombosis and MVO. The trial aims to determine the lowest effective dose of alteplase in
56 reducing MVO.

57 Standard care with primary PCI does not involve alteplase, therefore, the following three arm
58 design is adopted where the alteplase or placebo will be administered at the start of the PCI
59 procedure:

60	Control Arm:	placebo
61	Arm A:	alteplase 10mg
62	Arm B:	alteplase 20mg

63 The rationale for administering low dose fibrinolytic therapy into the culprit coronary artery at
64 the start of primary PCI (i.e. immediately after coronary reperfusion) is to reduce MVO,
65 infarct size and the future risk of HF.

66 Since alteplase has a 'deep tissue' half-life of up to 40 minutes, effective local thrombolysis
67 during the procedure with alteplase is intended to treat and reduce persistent MVO at that
68 time.

69 **1.2. STUDY OBJECTIVES**

70 Primary Objective:

71 To determine the safety and efficacy of reduced doses (10 mg and 20 mg) of intra-
72 coronary alteplase compared with placebo as an adjunct to PCI in reducing MVO and
73 its consequences in high risk patients with STEMI.

74 Secondary Objectives:

75 Mechanistic:

76 To explore mechanisms associated with any beneficial effects of reduced
77 doses of alteplase.

78 Safety:

79 To determine the rates of adverse events associated with reduced doses of
80 alteplase administered directly into the coronary artery as an adjunct to PCI.

81 **1.3. STUDY DESIGN**

82 Double-blind, randomised, parallel group, dose-ranging, placebo-controlled clinical trial.

83 **1.4. RANDOMISATION**

84 The study randomisation schedule was stratified by study site, and location of MI (anterior,
85 non-anterior), using the method of randomised permuted blocks of length 6.

86 **1.5. STUDY POPULATION**

87 Patients with STEMI referred to the participating study centres for primary PCI.

88 **1.5.1. INCLUSION CRITERIA**

89 See section 3.3 of the study protocol.

90 **1.5.2. EXCLUSION CRITERIA**

91 See section 3.4 of the study protocol.

92 **1.6. STATISTICAL ANALYSIS PLAN (SAP)**

93 **1.6.1. SAP OBJECTIVES**

94 The objective of this SAP is to describe the statistical analyses to be carried out for the T-
95 TIME Study Final Analysis. This covers primary and secondary outcome data collected up to
96 and including the 3 months assessment. Tertiary outcomes are not covered by this SAP.

97 **1.6.2. GENERAL PRINCIPLES**

98 Efficacy analyses will be carried out according to the intention to treat principle, that is, in
99 relation to randomised treatment allocation, rather than treatment received. Safety analyses
100 will be carried out in relation to treatment received.

101 Data will be summarised overall and by treatment group. Continuous variables will be
102 summarised as the number of observations, number of missing values, mean, standard
103 deviation, median, quartiles, and range. Categorical variables will be summarised as the
104 number of observations, number of missing values, frequencies, and percentages.

105 Missing data will not be imputed. No adjustments will be made for multiple comparisons.

106 **1.6.3. CURRENT PROTOCOL**

107 The current study protocol at the time of writing is version 7.0 dated DD/MM/2018. Future
108 amendments to the protocol will be reviewed for their impact on this SAP, which will be
109 updated only if necessary. If no changes are required to this SAP following future
110 amendments to the study protocol, this will be documented as part of the Robertson Centre
111 Change Impact Assessment processes.

112 **1.6.4. DEVIATIONS FROM PROTOCOL**

113 No deviation from the analyses specified in the Protocol are planned.

114 **1.6.5. ADDITIONAL ANALYSES**

115 No analyses additional to those specified in the Protocol are planned.

116 **1.6.6. SOFTWARE**

117 All statistical analyses will be carried out with SAS v9.3 or R v3.2.3 [R Development Core
118 Team 2015] or higher versions of these programs.

119 **2. ANALYSIS**

120 **2.1. STUDY POPULATIONS**

121 The Screened Population (SP) will consist of all patients screened for inclusion in the study,
122 as recorded on the study screening logs.

123 The Full Analysis Set (FAS) will consist of all patients who were randomised. Analyses within
124 the FAS will compare treatment groups as randomised, regardless of which (if any) treatment
125 was received.

126 The Safety Set (SS) will consist of all patients who were randomised and received treatment.
127 Analyses within the SS will compare treatment groups according to the treatment received.

128 The numbers of patients included in the SP and FAS will be reported as a whole, and study
129 site, by age, and by sex. Reasons for exclusion from the FAS will be summarised as a whole,
130 by study site, by age, and by sex.

131 The numbers of patients included in the FAS and SS will be reported as a whole and by
132 treatment group. The numbers of patients in the FAS who did not receive treatment, or
133 received a different treatment to that allocated at randomisation, will be reported.

134 **2.2. BASELINE CHARACTERISTICS**

135 Baseline characteristics will be summarised in the FAS as a whole and by treatment group.
136 The following baseline characteristics will be reported:

- 137 • demographics:
- 138 ○ age (continuous);
 - 139 ○ sex (male, female);
 - 140 ○ SIMD (quintiles);
 - 141 ○ race (white, Asian (Bangladeshi), Asian (Indian), Asian (Pakistani), Asian
142 (other), black (African), black (Caribbean), black (other), Chinese, mixed
143 (white and Asian), mixed (white and black African), mixed (white and black
144 Caribbean), other);
- 145 • mode of admission (one of the following):
- 146 ○ ambulance direct to PPCI centre;
 - 147 ○ self referral to PPCI centre;
 - 148 ○ ambulance transfer to A&E in another hospital and ambulance transfer to
149 PPCI centre;
 - 150 ○ self referral to A&E in another hospital and ambulance transfer to PPCI
151 centre;
 - 152 ○ ambulance transfer from ward in another hospital;
- 153 • treatment times (continuous):
- 154 ○ time from symptom onset to arrival in PPCI centre;
 - 155 ○ time from symptom onset to first treatment for reperfusion;
 - 156 ○ time from call for help to first treatment for reperfusion;
 - 157 ○ time from arrival in PPCI centre to first treatment for reperfusion;

- 158 • vital signs and measurements (continuous, unless stated otherwise):
 - 159 ○ heart rate;
 - 160 ○ heart rhythm (sinus, not sinus, other);
 - 161 ○ systolic blood pressure, diastolic blood pressure;
 - 162 ○ activated clotting time;
 - 163 ○ height, weight, BMI;
 - 164 ○ infarct location (anterior, inferior, lateral, posterior, other);
 - 165 ○ serum creatinine;
 - 166 ○ eGFR;

- 167 • medical history (yes/no, unless stated otherwise):
 - 168 ○ cardiac arrhythmia (none, AF/flutter, sinus arrhythmia);
 - 169 ○ treated hypercholesterolaemia;
 - 170 ○ hypertension;
 - 171 ○ renal impairment (none, stage 1/2, 3A/3B, 4/5);
 - 172 ○ family history of CAD;
 - 173 ○ diabetes (none, type I, type II);
 - 174 ○ smoking (never, former, current – some days, current – every day);
 - 175 ○ previous PCI;
 - 176 ○ previous CABG;
 - 177 ○ previous MI;
 - 178 ○ CCS angina class (no angina, I, II, III, IV);
 - 179 ○ NYHA functional class (no known heart disease, I, II, III, IV);
 - 180 ○ congestive heart failure;
 - 181 ○ COPD;
 - 182 ○ peripheral vascular disease;
 - 183 ○ stroke/TIA;
 - 184 ○ malignancy;

- 185 • physical examination (yes/no, unless stated otherwise):
 - 186 ○ presence of heart failure;
 - 187 ○ Killip class (No heart failure, I, II, III, IV);

- 188 • medications (yes/no, unless stated otherwise):
 - 189 ○ Aspirin;
 - 190 ○ Anti-platelet medication (none, clopidogrel, ticagrelor, prasugrel, other);
 - 191 ○ Statin;
 - 192 ○ Other lipid lowering drug;
 - 193 ○ Beta blocker;
 - 194 ○ ACE inhibitor;
 - 195 ○ Angiotensin receptor blocker;
 - 196 ○ ACE inhibitor or angiotensin receptor blocker
 - 197 ○ Aldosterone receptor antagonist;
 - 198 ○ Calcium channel blocker;
 - 199 ○ Long acting nitrate;
 - 200 ○ Nicorandil;
 - 201 ○ Alpha blocker;
 - 202 ○ Diuretic;
 - 203 ○ Other cardiac medication;

- 204 • standard care blood count (continuous):
 - 205 ○ haemoglobin;
 - 206 ○ platelet count;
 - 207 ○ white cell count;

- 208 • standard care blood chemistry (continuous):
 - 209 ○ creatinine;

- 210 ○ glucose;
- 211 ○ CRP;
- 212 ○ troponin;

- 213 • coagulation measures:
 - 214 ○ fibrinogen;
 - 215 ○ D-dimer;
 - 216 ○ prothrombin F1+2;
 - 217 ○ tissue plasminogen activator;

- 218 • procedure details (yes/no, unless stated otherwise):
 - 219 ○ French size of coronary catheter (5, 6, 7);
 - 220 ○ whether catheter size changed;
 - 221 ○ catheter used for study drug administration (perfusion catheter,
 - 222 thrombectomy catheter, guide catheter, other);

- 223 • acute STEMI pathway medications (yes/no, unless stated otherwise):
 - 224 ○ total dose of unfractionated heparin (continuous);
 - 225 ○ minimum ACT, maximum ACT (continuous);
 - 226 ○ morphine;
 - 227 ○ heparin;
 - 228 ○ aspirin;
 - 229 ○ aspirin loading dose (300mg, 600mg, 1200mg);
 - 230 ○ anti-platelet medication (none, clopidogrel, ticagrelor, prasugrel, other);
 - 231 ○ anti-platelet medication dose (continuous – medication specific)
 - 232 ○ bivalirudin;
 - 233 ○ bivalirudin used as bail out;
 - 234 ○ bivalirudin continued in CCU (no, 1 hour, 2 hours, 3 hours, 4 hours, >4
 - 235 hours);
 - 236 ○ glycoprotein IIb/IIIa antagonist;
 - 237 ○ glycoprotein IIb/IIIa antagonist used as bail out;
 - 238 ○ IV amiodarone;
 - 239 ○ IV amiodarone dose (continuous);
 - 240 ○ low molecular weight heparin;
 - 241 ○ low molecular weight heparin dose (continuous);
 - 242 ○ IV or IC adenosine;
 - 243 ○ IV or IC adenosine dose (continuous);
 - 244 ○ IV or IC metoprolol;
 - 245 ○ IV or IC metoprolol dose (continuous);
 - 246 ○ IV or IC nicorandil;
 - 247 ○ IV or IC nicorandil dose (continuous);
 - 248 ○ IV or IC sodium nitroprusside;
 - 249 ○ IV or IC sodium nitroprusside dose (continuous);
 - 250 ○ IV or IC nitrate;
 - 251 ○ IV or IC nitrate dose (continuous);
 - 252 ○ IV or IC verapamil;
 - 253 ○ IV or IC verapamil dose (continuous);

- 254 • non-study coronary treatment (yes/no, unless stated otherwise):
 - 255 ○ type of first non-coronary treatment (aspiration thrombectomy, balloon,
 - 256 primary stent);
 - 257 ○ balloon angioplasty;

- 258 • PCI procedure:
 - 259 ○ whether PCI performed (yes, no);
 - 260 ○ TIMI Coronary Flow Grade at initial angiography;
 - 261 ○ TIMI Thrombus Grade at initial angiography;

- 262 ○ AHA lesion score post-reperfusion;
- 263 ○ stent thrombosis in infarct-related artery;
- 264 ○ TIMI Coronary Flow Grade pre study drug;
- 265 ○ whether pre-stent inflation performed (yes, no);
- 266 ○ main artery treated (Left Anterior Descending, Circumflex, Right Coronary
- 267 Artery);
- 268 ○ number of stents deployed;
- 269 ○ total length of stents deployed;
- 270 ○ maximum diameter of stents deployed;
- 271 ○ type of stents deployed (bare metal, drug eluting, bioresorbable);
- 272 ○ total inflation time;
- 273 ○ maximum pressure;
- 274 ○ whether post-stent inflation performed (yes, no);

- 275 • study drug administration (yes/no, unless stated otherwise):
- 276 ○ drug administered;
- 277 ○ drug administered according to protocol;
- 278 ○ total drug administration time (continuous).

279 **2.3. EFFICACY OUTCOMES**

280 **2.3.1. PRIMARY OUTCOME**

281 The primary outcome will be the extent (% of left ventricular (LV) mass) of microvascular
282 obstruction (MVO) revealed by late (10-15 minutes after contrast administration) gadolinium
283 contrast-enhanced MRI, 2-7 days post-MI.

284 The primary outcome will be summarised in the FAS as a whole and by treatment group.
285 Treatment groups will be compared with a van Elteren (stratified Wilcoxon-Mann-Whitney)
286 test, stratified by the location of the MI. First, the Alteplase 20mg group will be compared
287 with the placebo group, then the Alteplase 10mg group will be compared with placebo. If the
288 first analysis is not significant at the 5% level, then the low-dose vs. placebo comparison will
289 be considered a secondary analysis.

290 As a secondary analysis, the primary outcome will be analysed using the same methods as for
291 the secondary outcomes (see section 2.3.2), namely using linear regression.

292 **2.3.2. SECONDARY OUTCOMES**

293 Secondary outcomes will be summarised in the FAS as a whole and by treatment group.
294 Continuous outcomes will be analysed using linear regression, with transformation if
295 necessary to satisfy distributional assumptions, adjusted for the location of the MI. Treatment
296 will be included as a three-level categorical variable, and treatment effects reported for each
297 active treatment group vs. placebo. In addition, the two active treatment groups combined
298 will be compared to the placebo group, using the same methods, though with treatment
299 included as a binary variable. Treatment effect estimates will be reported with 95%
300 confidence intervals (CIs), and p-values. Where no suitable transformation can be found,
301 each active treatment group will be compared to placebo using van Elteren tests, stratified by
302 the location of the MI. Ordinal outcomes will be compared between groups using proportional
303 odds logistic regression models, adjusted for the location of the MI. Binary outcomes will be
304 compared between groups using logistic regression models, adjusted for the location of the
305 MI. Logistic regression model results will be reported as odds ratios for each active treatment
306 group vs. placebo, with 95% CIs and p-values. For those outcomes measured at both 2-7
307 days and at 3 months, changes between the two time points will be summarised, and
308 regression models of 3 month outcomes will be extended to include an adjustment for the
309 day 2-7 measurement.

310 The secondary outcomes will be:

Acute

Angiogram

TIMI Coronary Flow Grade at end of PCI	Ordinal
TIMI Myocardial Perfusion Grade at end of PCI	Ordinal
TIMI Frame Count at end of PCI	Continuous
TIMI Thrombus Grade at end of PCI	Ordinal

ECG

% ST segment resolution on the 12- lead ECG (pre- vs. 60 min post-reperfusion with primary PCI).	Continuous
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Day 2 -7

MRI

Late MVO (presence / absence) 10-15 minutes after contrast administration	Binary
Infarct size (% of LV)	Continuous
Area at Risk	Continuous
Myocardial salvage index (1-[infarct size/area-at-risk])	Continuous
LV end-diastolic volume (LVEDV)	Continuous
LV end-systolic volume (LVESV)	Continuous
LV ejection fraction (LVEF)	Continuous
Myocardial haemorrhage (presence/absence)	Binary
Myocardial haemorrhage extent (% of LV)	Continuous

Biochemistry

Troponin T (Area Under Curve at 0, 2, 24 hours)	Continuous
NT-proBNP	Continuous

Quality of life

EQ5D-5L	Continuous
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3 month follow-up

MRI

Infarct size	Continuous
Myocardial salvage index (1-[final infarct size/initial area-at-risk])	Continuous
LV end-diastolic volume (LVEDV)	Continuous
LV end-systolic volume (LVESV)	Continuous
LV ejection fraction (LVEF)	Continuous

ECG

ECG for final infarct size	Continuous
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Biochemistry

NT-proBNP	Continuous
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Quality of life

EQ5D-5L	Continuous
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311 **2.3.3. TERTIARY OUTCOMES**

312 The tertiary outcomes are listed in the study protocol, section 2.3. This SAP does not cover
 313 the analysis of tertiary outcomes.

314 **2.4. SAFETY OUTCOMES**

315 **2.4.1. PREMATURE WITHDRAWAL**

316 The number of patients who withdraw from the study prior to the 3 month assessment visit
317 will be summarised for the FAS and SS as a whole and by treatment group. Kaplan-Meier
318 curves will be presented for time to withdrawal by treatment group, and compared with a log
319 rank test.

320 **2.4.2. SERIOUS ADVERSE EVENTS**

321 The characteristics of serious adverse events (SAEs) that occur on or before the date of the 3
322 month assessment will be summarised as for the SS as a whole and by treatment group. For
323 subjects who withdraw prior to the 3 month assessment, SAEs up to the point of withdrawal
324 will be included. For subjects who did not have a 3 month assessment, but remained in the
325 study, SAEs up to 98 days (14 weeks) from randomisation will be included.

326 Characteristics of SAEs to be reported are:

- 327 • days since randomisation;
- 328 • duration (in days);
- 329 • severity;
- 330 • relationship to study drug;
- 331 • whether classified as a SUSAR;
- 332 • outcome;
- 333 • whether emergency unblinding was required.

334 The number and percentage of patients with at least one SAE on or before the date of the 3
335 month assessment will be reported for the SS as a whole and by treatment group, for any
336 SAE and by MedDRA system organ class and preferred term. These summaries will be
337 repeated for fatal SAEs and SUSARs.

338 **2.4.3. ADJUDICATED ENDPOINTS**

339 Health outcomes are included in the 12 month follow-up of study participants. These will be
340 determined by independent, blinded adjudication of SAEs, and will be analysed as part of the
341 12 month analysis. For the 3 month analysis, the number and percentage of participants in
342 the SS who experience at least one adjudicated event on or before the date of the 3 month
343 assessment will be reported as a whole and by treatment group.

344 The following adjudicated events will be reported:

- 345 • Major Adverse Cardiovascular and Cardiac Events (MACCE): cardiovascular death,
346 non-fatal MI, unplanned hospitalisation for TIA or stroke;
- 347 • Major Adverse Cardiac Events (MACE): cardiac death, non-fatal MI, unplanned
348 hospitalisation for heart failure;
- 349 • Spontaneous MACE: MACE, excluding MI associated with revascularisation procedures
350 (Type 4 or 5 MI);
- 351 • MI associated with revascularisation procedures (Type 4 or 5 MI);
- 352 • All cause mortality or unplanned hospitalisation for heart failure;
- 353 • All cause mortality;
- 354 • Unplanned hospitalisation for heart failure;
- 355 • BARC Type 3, Type 4, and Type 5 bleeding events.

356 **2.4.4. OTHER SAFETY OUTCOMES**

357 Summaries will be provided for the SS as a whole and by treatment group for the following
358 specific safety outcomes:

- 359 • Acute (day of procedure):
- 360 ○ TIMI Coronary Flow Grade post study drug;
 - 361 ○ no-reflow/slow-reflow/normal flow in main vessel;
 - 362 ○ no-/slow-reflow with TIMI Myocardial Perfusion Grade ≤ 1 ;
 - 363 ○ no-/slow-reflow with TIMI Myocardial Perfusion Grade ≤ 2 ;
 - 364 ○ intraprocedural thrombotic events (IPTE);
 - 365 ○ cerebral stroke;
 - 366 ○ non-serious GI bleeding;
 - 367 ○ non-serious peripheral bleeding;
 - 368 ○ serious (BARC 3-5) bleeding event;
 - 369 ○ coagulation measures at 2 hours, and change from baseline (fibrinogen, D-
370 dimer, prothrombin F1+2, tissue plasminogen activator);
 - 371 ○ activated clotting time;
- 372 • 24 hours:
- 373 ○ haemoglobin at 24 hours, and change from baseline;
 - 374 ○ coagulation measures at 24 hours, and change from baseline (fibrinogen, D-
375 dimer, prothrombin F1+2, tissue plasminogen activator)
- 376 • Early (Day 2-7):
- 377 ○ cerebral stroke
 - 378 ○ non-serious GI bleeding;
 - 379 ○ non-serious peripheral bleeding;
 - 380 ○ serious (BARC 3-5) bleeding event.

381 **2.5. SUBGROUP ANALYSES**

382 The primary outcome will be summarised in subgroups of the FAS as a whole and by
383 treatment group. For each subgrouping variable, the linear regression model used in the
384 analysis of the primary outcome will be extended to include a main effect for the subgrouping
385 variable, and an interaction between the subgrouping variable and treatment. A likelihood
386 ratio test will be applied to test whether treatment effects vary between subgroups, and
387 subgroup-specific treatment effect estimates will be reported with 95% CIs. Treatment will be
388 modelled as a 3-level categorical variable, and as a binary variable of active treatment vs.
389 placebo.

390 The following subgrouping variables will be considered:

- 391 • age;
- 392 • sex;
- 393 • location of MI;
- 394 • smoking status;
- 395 • symptom onset to reperfusion time;
- 396 • TIMI Coronary Flow Grade at initial angiography;
- 397 • pre-existing anti-platelet therapy.

398 Continuous variables will be categorised into approximate tertiles for analysis.

399 **3. DOCUMENT HISTORY**

400 This is v1_0 of the Statistical Analysis Plan for T-TIME Final Analysis, dated 09/07/2018. This
401 is the original version of this document.

402 **4. TABLES**

403 All statistical tables within the final statistical report will be produced using dummy treatment
404 codes and the content and layout approved prior to database lock.

405 **5. FIGURES**

406 All figures within the final statistical report will be produced using dummy treatment codes
407 and the content and layout approved prior to database lock.

408 **6. LISTINGS**

409 No formal data listings will be produced as part of the final statistical report. All data (raw
410 data and derived analysis datasets) will be made available to the study investigators as Excel
411 files.