Primary registry and trial identifying number Date of registration in primary registry 8 January 2016	Data Category	Information
Secondary identifying numbers EudraCT 2015-002790-38; ISRCTN12039221; Sponsor 1603221; Funder MR/N00633X/1; HRA 16/SC/0147; IRAS 183044		ClinicalTrials.gov NCT02653209
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16/SC/0147; IRAS 183044		EudraCT 2015-002790-38; ISRCTN12039221;
Source(s) of monetary or material support Royal Devon and Exeter NHS Foundation Trust		Sponsor 1603221; Funder MR/N00633X/1; HRA
Primary sponsor Royal Devon and Exeter NHS Foundation Trust Alison Kerridge, Assistant R&D Manager; Research and Development, First Floor, Bowmoor House Barrack Road, Exeter EX2 5DW alison.kerridge@nhs.net; 01392 403055 Contact for public queries Catherine Angwin, Trial Manager; NIHR Exeter Clinical Research Facility Room 02.15, RILD Building Barrack Road Exeter EX2 5DW Rde-tr.DiabetesDrugResponse@nhs.net; 01392 408180 Contact for scientific queries Professor Andrew Hattersley FRCP FMedSci FRS, Chief Investigator; University of Exeter Medical School RILD Building Barrack Road Exeter EX2 5DW A.T.Hattersley@exeter.ac.uk; 01392 408260 Public title TriMaster: Study of a DPP4 inhibitor, SGLT2 Inhibitor and Thiazolidinedione as Third Line Therapy in patients with Type 2 Diabetes. Scientific title TriMaster: Randomised Double-Blind Crossover Study of a DPP4 Inhibitor, SGLT2 Inhibitor and Thiazolidinedione as Third Line Therapy in Patients With Type 2 Diabetes Who Have Suboptimal Glycaemic Control on Dual Therapy with Metformin and a Sulphonylurea Countries of recruitment United Kingdom Health condition(s) or problem(s) studied		16/SC/0147; IRAS 183044
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Scientific title TriMaster: Randomised Double-Blind Crossover Study of a DPP4 Inhibitor, SGLT2 Inhibitor and Thiazolidinedione as Third Line Therapy in Patients With Type 2 Diabetes Who Have Suboptimal Glycaemic Control on Dual Therapy with Metformin and a Sulphonylurea Countries of recruitment United Kingdom Type 2 Diabetes		Inhibitor and Thiazolidinedione as Third Line
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Thiazolidinedione as Third Line Therapy in Patients With Type 2 Diabetes Who Have Suboptimal Glycaemic Control on Dual Therapy with Metformin and a Sulphonylurea Countries of recruitment United Kingdom Health condition(s) or problem(s) studied Type 2 Diabetes	Scientific title	
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with Metformin and a Sulphonylurea Countries of recruitment Health condition(s) or problem(s) studied Type 2 Diabetes		* *
Countries of recruitment United Kingdom Health condition(s) or problem(s) studied Type 2 Diabetes		
Health condition(s) or problem(s) studied Type 2 Diabetes	Countries of a society out	
intervention(s) Drug: Sitagliptin (2x50mg as over-encapsulated	, , , , , , , , , , , , , , , , , , , ,	
hard shell to be taken orally, once a day); Drug:	Intervention(s)	
		Canagliflozin (100mg as over-encapsulated hard
shell to be taken orally, once a day); Drug:		
Pioglitazone (30mg as over-encapsulated hard		
shell to be taken orally, once a day)		
All participants receive all 3 interventional		
treatments for 16 weeks each in random order		
according to one of 6 possible treatment order		
(ABC, ACA, BAC, BCA, CAB, CBA) with no		- · · · · · · · · · · · · · · · · · · ·
washout period		
	Key inclusion and exclusion criteria	Ages eligible for study: 30 – 80 years (inclusive);
	,	
Sexes eligible for study: both; Accepts healthy		Sexes eligible for study: both; Accepts healthy

Date of first enrolment Target sample size Recruitment status Primary outcome(s)	Crossover assignment; Masking: Double (Participant, Investigator) Primary Purpose: Treatment Phase 4 1 November 2016 525 (reduced from 600) Active, not recruiting On treatment HbA1c in obese patients (BMI>30kgm ⁻²) compared to non-obese patients (BMI<30kgm ⁻²), (time frame: 16
Target sample size Recruitment status	Crossover assignment; Masking: Double (Participant, Investigator) Primary Purpose: Treatment Phase 4 1 November 2016 525 (reduced from 600) Active, not recruiting On treatment HbA1c in obese patients
Target sample size Recruitment status	Crossover assignment; Masking: Double (Participant, Investigator) Primary Purpose: Treatment Phase 4 1 November 2016 525 (reduced from 600) Active, not recruiting
Target sample size	Crossover assignment; Masking: Double (Participant, Investigator) Primary Purpose: Treatment Phase 4 1 November 2016 525 (reduced from 600)
	Crossover assignment; Masking: Double (Participant, Investigator) Primary Purpose: Treatment Phase 4 1 November 2016
Data of first angular cut	Crossover assignment; Masking: Double (Participant, Investigator) Primary Purpose: Treatment Phase 4
	Crossover assignment; Masking: Double (Participant, Investigator) Primary Purpose: Treatment
	Crossover assignment; Masking: Double (Participant, Investigator)
	Crossover assignment; Masking: Double
	Allocation, Kandomiseu, intervention model.
	Allocation: Randomised; Intervention model:
Study type	Interventional
	to give informed consent
	sufficient washout period), unable or unwilling
	(where IMP is currently being taken or without
	or planning a pregnancy over the study period, concurrent participation on another CTIMP
	history of pancreatitis, pregnant, breastfeeding
	haematuria, history of diabetic ketoacidosis,
	current/ongoing investigation for macroscopic
	Bumetanide), history of bladder carcinoma,
	of loop diuretic therapy (Furosemide or
	3 months, history of heart failure, current use
	ischemic episode) occurring within the previous
	(angina, myocardial infarction, stroke, transient
	procedures), acute cardiovascular episode
	surgery or planned surgery (excluding minor
	months, recent (within 3 months) significant
	requiring antibiotics at present), root dicer
	phenytoin and carbamazepine, active infection (requiring antibiotics at present), foot ulcer
	currently treated with rifampicin, gemfibrozil,
	feet, currently treated with corticosteroids,
	shown by absence of both pulses in one or both
	within the last 12 months, limb ischaemia
	other evidence of liver failure, insulin treated
	specifically >30μmol/L that is associated with
	the assay normal range or known liver disease,
	duration <12 months, ALT >2.5 x upper limit of
	(12.2%), eGFR <60mls/min/1.73m², diabetes
	≤58mmol/mol (7.5%) or >110mmol/mol
	therapy or dose within last 3 months, HbA1c
	visit, able and willing to give informed consent Exclusion Criteria: Changes in glucose-lowering
	≥60mls/min/1.73m ² confirmed at screening
	(12.2%) – confirmed at screening visit, eGFR
	>58mmol/mol (7.5%) and ≤110mmol/mol
	within previous 3 months, HbA1c
	treatment (new treatments or dose change)
	duration ≥12 months, no change in diabetes
	SGLT2 inhibitor or a thiazolidinedione, diabetes
	therapy that do not include a DPP4-inhibitor, a
	diabetes, Age ≥30 and ≤80, currently treated with two classes of oral glucose-lowering
	Inclusion Criteria: Clinical diagnosis of Type 2

	an eGFR<90mls/min/1.73m ² compared to
	patients with an eGFR>90mls/min/1.73m ² ,
	(time frame: 16 weeks)
Key secondary outcomes	Patient preference [Time frame: 48-54 weeks (3x16 weeks of therapy)]; Prevalence of side effects [Time frame: 48-54 weeks (3x16 weeks of therapy)]; HbA1c on therapy against predefined test of gender heterogeneity (Time frame: 16 weeks)
Ethics Review	Status: Approved
	Date of Approval: 9 May 2016
	South Central – Oxford A Research Ethics
	Committee
	Nrescommittee.southcentral-oxforda@nhs.net
Completion Date	January 2021
Summary Results	N/A as study has not completed yet