Antiplatelet Treatment in Diabetes

Submission date	Recruitment status No longer recruiting	Prospectively registered		
12/05/2010		☐ Protocol		
Registration date 12/05/2010	Overall study status Completed Condition category	Statistical analysis plan		
		[X] Results		
Last Edited		[] Individual participant data		
23/06/2020	Nutritional, Metabolic, Endocrine			

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

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Additional identifiers

Clinical Trials Information System (CTIS) 2009-011907-22

Protocol serial number 7863

Study information

Scientific Title

Antiplatelet Treatment in Diabetes

Acronym

DRN 416

Study objectives

Cardiovascular disease is the major cause of death in patients with diabetes. Aspirin is recommended as primary and secondary prevention for cardiovascular disease and it has proven clinical efficacy. However, recent studies suggest it may have limited effectiveness in people with diabetes, which may be dose-related and may be related to blood sugar levels, which are usually raised in diabetes. Clopidogrel may be used as a alternative to aspirin in secondary prevention and Prasugrel is licensed for use in conjunction with aspirin, but not alone. All three are antiplatelet agents but they have differing modes of action. This study will compare the effects of these agents on clot structure and platelet function in people with type 2 diabetes. It will also increase knowledge of the influence varying blood sugar levels have on the effects of these agents.

Ethics approval required

Old ethics approval format

Ethics approval(s)

MREC approved, ref: 09/H1307/110

Study design

Single-centre randomised interventional treatment trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Topic: Diabetes Research Network; Subtopic: Type 2; Disease: Cardiovascular disease

Interventions

Subjects with type 2 diabetes currently taking aspirin 75 mg. Following a 2-week run in period, they will be randomised to receive either clopidogrel 75 mg or prasugrel 10 mg daily for 4 weeks. Following this they will be switched to receive whichever treatment they did not receive during the first phase. At the end of a further 4 weeks study treatment they will recommence aspirin therapy as before.

Follow-up length: 4 months

Study entry: single randomisation only

Intervention Type

Drug

Phase

Phase II/III

Drug/device/biological/vaccine name(s)

Clopidogrel, prasugrel, aspirin

Primary outcome(s)

Comparison of the biochemical efficacy of aspirin, clopidogrel and prasugrel in subjects with type 2 diabetes

Key secondary outcome(s))

To study the mechanisms of antiplatelet treatment failure in individuals with type 2 diabetes

Completion date

30/04/2012

Eligibility

Key inclusion criteria

- 1. Aged 18 less than 75 years, either sex
- 2. Type 2 diabetes mellitus
- 3. Currently taking aspirin 75 mg per day
- 4. Weight 60 kg or over
- 5. Must be able to give informed consent and comply with the protocol
- 7. Using reliable contraception, i.e., oral contraceptive pill, intrauterine device, diaphragm + condom

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

ΔII

Total final enrolment

56

Key exclusion criteria

- 1. Prior treatment with clopidogrel or prasugrel
- 2. Previous or current treatment with warfarin or non-steroidal inflammatory drugs (NSAID)
- 3. A history of acute coronary syndrome within 3 months of recruitment
- 4. Any history of coagulation or bleeding disorder, neoplastic disease, deep vein thrombosis, pulmonary embolism
- 5. Any previous or current upper gastrointestinal pathology
- 6. Any history of cerebral vascular accident or transient ischaemic attack

hypersensitiviy to the active substance (i.e., clopidogrel or prasugrel) or any of the excipients

- 7. Active pathological bleeding
- 8. Any individual found to have abnormal liver function (measured by alanine aminotransferase [ALT] greater than 3 times upper limit of normal) or abnormal thyroid function will be excluded

at this time and offered further investigation

- 9. Weight less than 60 kg
- 10. Inadequate contraception (as described in inclusion criteria)
- 11. Pregnant and lactating women. In the unlikely event of pregnancy during the study, the individual will be immediately withdrawn.

Date of first enrolment

01/05/2010

Date of final enrolment

30/04/2012

Locations

Countries of recruitment

United Kingdom

England

Study participating centre University of Leeds

Leeds United Kingdom LS2 9JT

Sponsor information

Organisation

University of Leeds (UK)

ROR

https://ror.org/024mrxd33

Funder(s)

Funder type

Industry

Funder Name

Eli Lilly and Company Limited (UK) (ref: H7T-BP-0003)

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Basic results			23/06/2020	No	No
HRA research summary			28/06/2023	No	No