

A randomised, double-blind, placebo-controlled study of Glypromate® in patients undergoing coronary artery bypass graft surgery

Submission date 19/09/2005	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered
		<input type="checkbox"/> Protocol
Registration date 09/01/2006	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan
		<input type="checkbox"/> Results
Last Edited 21/09/2007	Condition category Surgery	<input type="checkbox"/> Individual participant data
		<input type="checkbox"/> Record updated in last year

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

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Additional identifiers

Protocol serial number

Neu-GPE-CABG-001

Study information

Scientific Title

Acronym

SNUG (Studying Neurons Using Glypromate®)

Study objectives

Study is designed:

1. To determine the pharmacokinetics of Glypromate® in patients undergoing Coronary Artery Bypass Graft (CABG) surgery with/without valve replacement/repair
2. To show that Glypromate® use is not associated with major adverse events when compared to placebo in people undergoing CABG surgery

Ethics approval required

Old ethics approval format

Ethics approval(s)

Not provided at time of registration

Primary study design

Interventional

Study design

Randomised controlled trial

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Coronary Artery Bypass Graft (CABG) surgery

Interventions

This phase two study will be conducted in two stages:

In stage 1 (conducted at the Principal Investigator's site only), patients will be randomised in a 1:1 fashion to receive intravenous (IV) Glypromate® 1 mg/kg/hr for four hours or 3 mg/kg/hr for four hours. Two to four patients are expected to be enrolled into this open-label stage of the study.

In stage 2, participants from five centres will be randomised in a 1:1:1 fashion to receive IV Glypromate® 1 mg/kg/hr for four hours or IV Glypromate® 3 mg/kg/hr over four hours or IV Placebo (normal saline) for four hours. The Glypromate®/Placebo infusion will commence at the start of chest closure.

Participants will be observed from randomisation through to discharge or day 14, whichever comes sooner.

Intervention Type

Drug

Phase

Phase II

Drug/device/biological/vaccine name(s)

Glypromate®

Primary outcome(s)

To determine the pharmacokinetics of Glypromate® in patients undergoing CABG surgery to assess dose-response relationships.

Key secondary outcome(s)

To monitor the safety profile of Glypromate® treatment compared to placebo in patients undergoing CABG. Data will be collected through to discharge or day 14 whichever comes first.

Completion date

28/02/2006

Eligibility

Key inclusion criteria

Participants must meet all of the following criteria:

1. Be at least 60 years of age
2. Be scheduled for non-urgent, on-pump CABG surgery
3. Be willing to provide written informed consent
4. Be agreeable to be undergo all study tests (collection of blood for PK assessment)

The Glypromate®/placebo infusion will be commenced at the start of chest closure providing the following criteria are met:

1. The patient has been successfully weaned off the bypass pump
2. The patient does not have an Intra-Aortic Balloon Pump (IABP)
3. The anaesthetist has assessed the patient as having no contraindications to receiving Glypromate®/placebo medication

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Senior

Sex

All

Key exclusion criteria

A participant will be ineligible if he/she meets any of the following criteria:

1. Body weight less than 55 kg or more than 120 kg
2. Scheduled to undergo a significant concomitant surgical procedure (e.g. carotid endarterectomy, aortic root repair or replacement, Deep Hypothermic Circulatory Arrest [DHCA] or pulmonary resection)

3. Has a pre or perioperative mechanical assist device or IABP inserted for shock/low output syndrome
4. Renal insufficiency (serum creatinine greater than 0.17 mmol/l) or renal failure requiring dialysis
5. Chronic hepatic failure and/or cirrhosis
6. History of significant haematologic or coagulation disorders, including thrombocytopenia (platelet count less than 50,000), known hypercoagulable state, or recurrent deep vein thrombosis
7. Current participation or participation within the seven days prior to the start of this study in another investigational drug or device study
8. History of or any current condition that in the investigator's opinion would interfere with study participation or evaluation of results

Date of first enrolment

26/09/2005

Date of final enrolment

28/02/2006

Locations

Countries of recruitment

New Zealand

Study participating centre

University of Auckland

Auckland

New Zealand

1031

Sponsor information

Organisation

Neuren Pharmaceuticals Limited (New Zealand)

ROR

<https://ror.org/0503fq502>

Funder(s)

Funder type

Industry

Funder Name

Grant from a New Zealand Government Agency, Foundation for Research Science and Technology.

Funder Name

Grant type: Technology for Business Growth

Funder Name

Grant title: Implementation for Phase II for Glypromate

Funder Name

Study is also internally funded by Neuren Pharmaceuticals Limited (New Zealand)

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration