Pharmacokinetics and pharmacodynamics of insulin detemir (Levemir®) and insulin glargine (Lantus®) after subcutaneous injection of increasing doses into morbidly obese type 2 diabetic subjects

Submission date	Recruitment status No longer recruiting	Prospectively registered		
07/04/2006		Protocol		
Registration date 09/05/2006	Overall study status Completed	Statistical analysis plan		
		[X] Results		
Last Edited	Condition category	Individual participant data		
01/02/2019	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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Contact details

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

N/A

Study information

Scientific Title

Pharmacokinetics and pharmacodynamics of insulin detemir (Levemir®) and insulin glargine (Lantus®) after subcutaneous injection of increasing doses into morbidly obese type 2 diabetic subjects

Acronym

INSULIN-KINETICS

Study objectives

The primary aim of this study is to compare the dose-response relationship of moderate and of high doses of insulin detemir and of insulin glargine in severely obese type 2 diabetic subjects.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Approved by the Local Ethics Committee of the University of Basel (EKBB) on 16/01/2003, reference number 295/05

Study design

Randomized cross-over trial with 2 insulins (determir and glargine) and 2 dosages each

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Not specified

Study type(s)

Treatment

Participant information sheet

Health condition(s) or problem(s) studied

Diabetes, obesity

Interventions

Application of insulin determir (Levemir) versus insulin glargine (Lantus)

Intervention Type

Drug

Phase

Not Specified

Drug/device/biological/vaccine name(s)

Insulin detemir (Levemir) and insulin glargine (Lantus)

Primary outcome measure

Pharmacodynamics of the two insulins (detemir and glargine)

Secondary outcome measures

- 1. Pharmacokinetics of the two insulins (detemir and glargine)
- 2. Correlation pharmacodynamics and (central) obesity

Overall study start date

20/04/2006

Completion date

30/04/2007

Eligibility

Key inclusion criteria

- 1. History of type 2 diabetes mellitus
- 2. Age 18-65 years
- 3. Body mass index >35 kg/m^2
- 4. HbA1c <10%

Participant type(s)

Patient

Age group

Adult

Lower age limit

18 Years

Upper age limit

65 Years

Sex

Both

Target number of participants

8-12

Key exclusion criteria

1. Any severely active hepatic, cardiovascular, pulmonary, renal, neurological, musculoskeletal, hematological or endocrine disease

- 2. Pregnant or breast feeding women
- 3. Woman of childbearing potential not using a reliable method of birth control such as oral contraceptives or an intrauterine device (IUD)
- 4. Subjects refusing or unable to give written informed consent

Date of first enrolment

20/04/2006

Date of final enrolment

30/04/2007

Locations

Countries of recruitment

Switzerland

Study participating centre University Hospital Basel

Basel Switzerland 4031

Sponsor information

Organisation

University Hospital Basel (Switzerland)

Sponsor details

Division of Endocrinology, Diabetology and Clinical Nutrition University Hospital Basel Petersgraben 4 Basel Switzerland 4031 +41 (0)61 265 5078 puderj@uhbs.ch

Sponsor type

University/education

ROR

https://ror.org/04k51q396

Funder(s)

Funder type

Industry

Funder Name

Novo Nordisk AG, Switzerland

Funder Name

Foundations

Results and Publications

Publication and dissemination plan

Not provided at time of registration

Intention to publish date

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?
Results article	results	16/08/2018	01/02/2019	Yes	No