ISRCTN57547229 https://doi.org/10.1186/ISRCTN57547229

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
07/04/2006	No longer recruiting
Registration date	**Overall study status**
09/05/2006	Completed
Last Edited	**Condition category**
01/02/2019	Nutritional, Metabolic, Endocrine

[_] Prospectively registered
[_] Protocol
[_] Statistical analysis plan
[X] Results
[_] Individual participant data

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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Additional identifiers

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

Study type(s)
Treatment

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(s)
Pharmacodynamics of the two insulins (detemir and glargine)

Key secondary outcome(s))
1. Pharmacokinetics of the two insulins (detemir and glargine)
2. Correlation pharmacodynamics and (central) obesity

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

Healthy volunteers allowed
No

Age group
Adult

Lower age limit
18 years

Upper age limit
65 years

Sex
All

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)

ROR
https://ror.org/04k51q396

Funder(s)

Funder type
Industry

Funder Name
Novo Nordisk AG, Switzerland

Funder Name
Foundations

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