

Comparative pharmacokinetics, pharmacodynamics, efficacy and safety of two asparaginase preparations in children with previously untreated acute lymphoblastic leukaemia (ALL)

Submission date 27/01/2006	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 27/01/2006	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 07/10/2008	Condition category Cancer	<input type="checkbox"/> 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

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

NTR402

Study information

Scientific Title

Study objectives

Comparison of pharmacokinetics, pharmacodynamics, efficacy and safety of recombinant asparaginase (ASNase) versus asparaginase medac during induction treatment in children with de novo acute lymphoblastic leukaemia (ALL) and to demonstrate that any clinical important difference to the disadvantage of recombinant ASNase is unlikely.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Ethics approval received from the local medical ethics committee

Study design

Single centre, randomised, double-blind, parallel-group, phase II study

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Hospital

Study type(s)

Treatment

Participant information sheet

Health condition(s) or problem(s) studied

Acute lymphoblastic leukaemia (ALL)

Interventions

Recombinant ASNase instead of regular ASNase Medac during induction therapy.

Intervention Type

Drug

Phase

Not Specified

Drug/device/biological/vaccine name(s)

Recombinant asparaginase

Primary outcome measure

To determine the ratio of the population geometric means of the 72 hour serum concentration versus time curves (AUC) for the first administration of recombinant asparaginase versus asparaginase medac.

Secondary outcome measures

1. Trough levels of ASNase activity in serum during subsequent ASNase infusions
2. Serum and cerebrospinal fluid (CSF) levels of asparagine, aspartic acid, glutamine, glutamic acid
3. Complete remission (CR) rate and minimal residual disease (MRD) status at day 33
4. Adverse events

Overall study start date

01/11/2004

Completion date

01/11/2006

Eligibility**Key inclusion criteria**

1. Previously untreated ALL
2. Morphological proof of ALL; bone marrow greater than 25% blasts
3. Aged 1 - 18 years
4. Informed consent

Participant type(s)

Patient

Age group

Child

Lower age limit

1 Years

Upper age limit

18 Years

Sex

Both

Target number of participants

32

Key exclusion criteria

1. Known allergy to ASNase
2. General health status according to Karnofsky/Lansky less than 40%
3. Pre-existing coagulopathy (e.g. haemophilia)
4. Pre-existing pancreatitis
5. Kidney insufficiency (creatinine greater than 220 umol/l)
6. Liver insufficiency (bilirubin greater than 50 umol/l; aspartate aminotransferase [ASAT] and alanine aminotransferase [ALAT] greater than 5 x upper limit of normal)
7. Other current malignancies
8. Pregnancy, breast feeding
9. Patients suffering from mental disorders

Date of first enrolment

01/11/2004

Date of final enrolment

01/11/2006

Locations**Countries of recruitment**

Netherlands

Study participating centre

Erasmus MC-Sophia Children's Hospital Rotterdam
Rotterdam
Netherlands
3015 GJ

Sponsor information**Organisation**

Medac GmbH (Germany)

Sponsor details

Theaterstrasse 6
Wedel
Germany
D-22880

Sponsor type

Industry

ROR

<https://ror.org/05e0gzh77>

Funder(s)

Funder type

Not defined

Funder Name

Not provided at time of registration

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	15/12/2008		Yes	No