Double blind randomised controlled trial to investigate the efficacy of ANTOX (version 1.2) and MGCT (Magnesium) for the treatment of hereditary and idiopathic chronic pancreatitis

Submission date	Recruitment status No longer recruiting	Prospectively registered		
05/01/2007		Protocol		
Registration date	Overall study status	Statistical analysis plan		
30/05/2007	Completed Condition category	Results		
Last Edited		[] Individual participant data		
17/04/2019	Digestive System	[] Record updated in last year		

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

Clinical Trials Information System (CTIS) 2006-000087-83

ClinicalTrials.gov (NCT)

NCT00142233

Protocol serial number

N/A

Study information

Scientific Title

Double blind randomised controlled trial to investigate the efficacy of ANTOX (version 1.2) and MGCT (Magnesium) for the treatment of hereditary and idiopathic chronic pancreatitis

Acronym

EUROPAC-2

Study objectives

In patients with chronic pancreatitis, pain can be reduced significantly by a treatment with ANTOX (version 1.2) or Magnesium (MGCT) compared to the control group.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Approval received from the following local ethics committees:

- 1. Germany:
- 1.1. Greifswald (date: 16th April 2004, ref: III-UV-92-03)
- 1.2. Heidelberg (date: 12th December 2005, ref: 325-2005)
- 1.3. Hamburg (date: 11th May 2005, ref: M-135/05)
- 1.4. Muenster (date: 11th May 2006, ref: AZ 2006-092-b-A)
- 1.5. Munich (date: 7th August 2006, ref: 193-06)
- 1.6. Leipzig (date: 17th July 2006, ref: 129-2006)
- 1.7. Kiel (date: 20th June 2006, ref: B 260/06)
- 1.8. Tuebingen (date: 14th March 2007, ref: 87-2007-G)
- 2. United Kingdom: Liverpool (date: 12th June 2006, since then they have put in an amendment

[001] and have received approval for this on the 3rd April 2007, ref: 06/Q1502/4)

3. France: Clichy (date: 6th December 2010, ref. 2010-Nov.-12458)

Applications with the Ethics committee are under way at:

- 1. Austria: Vienna
- 2. Czech Republic: Brno

Study design

Randomised placebo-controlled three-armed trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Hereditary or idiopathic chronic pancreatitis

Interventions

Current interventions as of 16/02/2012

Group 1:

Two ANTOX (version 1.2) tablets, three times daily; antioxidant treatment (daily):

- 1. 300 µg organic selenium
- 2. 720 mg vitamin C
- 3. 228 mg vitamin E
- 4. 2880 mg methionine

Group 2:

Two Magnesium-L-Aspartate-hydrochloride (MGCT) (Magnesio-card 2.5 mmol) tablets three times a day, total dose 15 mmol (365 mg/per day)

Group 3:

The same number of tablets as in groups one and two but placebo instead of active drug.

Children aged 5 to 9 years will take half the number of tablets per day. Duration of intervention is 48 weeks for each group.

As this trial started prior to the changes in the Good Clinical Practice (GCP) guidelines and EU 2002 guidelines are applicable, the main part of the trial held in Germany did not need and therefore did not name a sponsor. The University of Liverpool trials unit takes over responsibilities as a sponsor for the UK, and these are the details held below in the sponsor section.

Previous interventions

Group 1:

Two ANTOX (version 1.2) tablets, three times daily; antioxidant treatment (daily):

- 1. 300 µg organic selenium
- 2. 54000 IU beta-carotene = 18 mg
- 3. 750 mg vitamin C
- 4. 540 IU of vitamin E = 240 mg
- 5. 2700 mg methionine

Group 2:

Two Magnesium-L-Aspartate-hydrochloride (MGCT) (Magnesio-card 2.5 mmol) tablets three times a day, total dose 15 mmol (365 mg/per day)

Group 3:

The same number of tablets as in groups one and two but placebo instead of active drug.

Children aged 5 to 9 years will take half the number of tablets per day. Duration of intervention is 48 weeks for each group.

As this trial started prior to the changes in the Good Clinical Practice (GCP) guidelines and EU 2002 guidelines are applicable, the main part of the trial held in Germany did not need and therefore did not name a sponsor. The University of Liverpool trials unit takes over responsibilities as a sponsor for the UK, and these are the details held below in the sponsor section.

Intervention Type

Drug

Phase

Not Specified

Drug/device/biological/vaccine name(s)

ANTOX (version 1.2), Magnesium (MGCT)

Primary outcome(s)

Reduction in the number of days of pancreatic pain during 12 continuous months of treatment

Key secondary outcome(s))

Current secondary outcome measures as of 16/02/2012:

- 1. Intensity of pain recorded using a score (0-10) where 0 is no pain and 10 is worst pain imaginable
- 2. Analgesic consumption assessed using morphine equivalents
- 3. The number of days spent in hospital due to painful exacerbations of pancreatitis or due to complications arising due to pancreatitis will be obtained from the patient. The clinician responsible for the care of the patient will independently verify this
- 4. Quality of life (QoL) including activities of daily living

Previous secondary outcomes

- 1. Intensity of pain recorded using a visual analogue score (0 to 10) where 0 is no pain and 10 is the worst pain imaginable; this will be recorded daily in a pain diary by the patient
- 2. Analgesic consumption assessed using pethidine equivalents; this will be recorded daily in the pain diary by self report (or in case of children by parents report)
- 3. The number of days spent in hospital due to painful exacerbations of pancreatitis or due to complications arising due to pancreatitis will be obtained from the patient. The clinician responsible for the care of the patient will independently verify this; hospital stays will be reported as Serious Adverse Events (SAE) and therefore recorded within 24 hours at the leading trial centre
- 4. Quality of Life (QoL) including activities of daily living, recorded every 12 weeks by self report
- 5. Inflammatory response and pancreatic activity measured at pre-defined time points and during symptomatic attacks of pancreatitis assessed by the pancreatic inflammation markers, urinary Trypsinogen Activation Peptide (TAP) and urinary amylase and the exocrine sufficiency marker, faecal elastase; this will be recorded every 12 weeks during the study visit
- 6. Oxidant stress as measured by urinary thiobarbituric acid, at fixed time points and during symptomatic attacks of pancreatitis; this will be recorded every 12 weeks
- 7. Changes in the urinary levels of magnesium, selenium and vitamin C; this will be recorded every 12 weeks
- 8. Data acquisition including markers of inflammatory response during acute attack of chronic pancreatitis

Completion date

01/09/2020

Eligibility

Kev inclusion criteria

Current inclusion criteria as of 16/02/2012:

- 1. Patients with pancreatitis diagnosed for at least one year
- 2. Patients who have provided written informed consent
- 3. Patients who are willing to be followed up regularly for at least one year

- 4. Patients who are able and willing to complete Quality of Life and Pain Assessment questionnaires
- 5. Patients who are able and willing to provide urine and faecal within two weeks of each study visit
- 6. Patients aged 5 to 65 years of age
- 7. Individuals with characteristic pancreatic pain that is either intermittent or continuous (two or more episodes during the last 12 months)
- 8. Patients with documented Hereditary Pancreatitis (HP), clinically defined or proven by gene mutations in the PRSS1 gene, or patients with Idiopathic Chronic Pancreatitis (ICP) and no mutations detected in the PRSS1 gene.

Current inclusion criteria as of 10/07/2007:

- 1. Patients with pancreatitis diagnosed for at least one year
- 2. Patients who are willing to be followed up regularly for at least one year
- 3. Patients aged 5 to 65 years of age
- 4. Individuals with characteristic pancreatic pain that is either intermittent or continuous (two or more episodes during the last 12 months)
- 5. Patients with documented Hereditary Pancreatitis (HP), clinically defined or proven by gene mutations in the PRSS1 gene, or patients with Idiopathic Chronic Pancreatitis (ICP) and no mutations detected in the PRSS1 gene.

Previous inclusion criteria:

- 1. Patients must have had pancreatitis diagnosed for at least one year
- 2. Patients must be willing to be followed up regularly for at least one year
- 3. Patients aged 5 to 40 years
- 4. Individuals must have characteristic pancreatic pain that is either intermittent or continuous (two or more episodes during the last 12 months)

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Not Specified

Sex

Not Specified

Total final enrolment

295

Key exclusion criteria

Current exclusion criteria as of 16/02/2012:

- 1. Patients that do not consent to be involved in the trial, or patients under the age of 16 whose parents/quardians do not consent for them to be involved in the trial
- 2. Patients or parents/guardians of underage patients, with learning disabilities or other cognitive or sensory impairments that would prevent adequate understanding of the study requirements
- 3. Patients who are currently receiving treatment with antioxidants or magnesium tablets or

who have had such treatment within the last 3 months

- 4. Patients who are currently receiving treatment with oral hypoglycaemics or steroids or who have had such treatment within the last 3 months
- 5. Patients with renal failure (serum creatinine $\geq 200 \mu \text{mol/l}$)
- 6. Patients with atrio-ventricular-block
- 7. Serum triglyceride levels ≥ 1000mg/dl
- 8. Patients who are dependent on daily opiate analgesia (morphine or equivalent for more than 12 months)
- 9. Patients who have chronic hepatic failure, or serious impairment of pulmonary, cardiac, neurological or cerebral function
- 10. Patients who are participating in another drug trial
- 11. Patients who are pregnant
- 12. All men and women of reproductive potential unless using at least two types of contraceptive precautions, one of which must be a condom
- 13. Lactating mothers
- 14. Patients with any disorder that would prevent adequate absorption of the active treatment
- 15. Patients suffering from schizophrenia
- 16. Patients who smoke more than 20 cigarettes per day
- 17. Patient has had pancreatic surgery since their last attack of pancreatitis, or is planning to have elective pancreatic surgery within the trial duration

Current exclusion criteria as of 10/07/2007:

- 1. Patients that do not consent to be involved in the trial, or underage patients whose parents /guardians do not consent for them be involved in the trial
- 2. Patients or parents/guardians of underage patients, with learning disabilities or other cognitive or sensory impairments that would prevent adequate understanding of the study requirements
- 3. Patients who are currently receiving treatment with antioxidants or magnesium tablets or who have had such treatment within the last three months
- 4. Patients who are currently receiving treatment with oral hypoglycaemics or steroids or who have had such treatment within the last three months
- 5. Patients with renal failure (serum creatinine greater than or equal to 200 μ g/l)
- 6. Patients with atrio-ventricular-block
- 7. Serum triglyceride levels greater than or equal to 1000 mg/dl
- 8. Patients who are dependent on daily opiate analgesia (morphine or equivalent) for more than 12 months
- 9. Patients who have chronic hepatic failure, or serious impairment of pulmonary, cardiac, neurological or cerebral function
- 10. Patients who are participating in another drug trial
- 11. Patients who are pregnant
- 12. Women of childbearing age who are not using contraception
- 13. Lactating mothers
- 14. Patients with any disorder that would prevent adequate absorption of the active treatment
- 15. Patients suffering from schizophrenia
- 16. Patients who smoke more than 20 cigarettes per day

Previous exclusion criteria:

- 1. Patients that do not consent to be involved in the trial, or whose parents do not consent for their children to be involved
- 2. Patients or guardians of underage patients, with learning disabilities or other cognitive or sensory impairments that would prevent adequate understanding of the study requirements
- 3. Patients who have had treatment for less than three months, or are currently receiving

treatment with antioxidants or magnesium tablets

- 4. Patients who have had recent (less than three months), or are currently receiving treatment with oral hypoglycaemics or steroid treatment
- 5. Patients with renal failure (serum creatinine greater than or equal to 200 μ g/l)
- 6. Patients with atrio-ventricular-block
- 7. Serum triglyceride levels greater than or equal to 1000 mg/dl
- 8. Patients under the age of 5 years or over the age of 40 years
- 9. Patients who are dependent on daily opiate analgesia (morphine or equivalent) for more than 12 months
- 10. Patients who have chronic hepatic failure, or serious impairment of pulmonary, cardiac, neurological or cerebral function
- 11. Patients who are participating in another drug trial
- 12. Patients who are pregnant
- 13. Women of childbearing age who are not using contraception
- 14. Lactating mothers
- 15. Any disorder that would prevent adequate absorption of the active treatment

Date of first enrolment

01/05/2005

Date of final enrolment

01/04/2018

Locations

Countries of recruitment

United Kingdom

France

Germany

Study participating centre
Universitätsmedizin Greifswald
Greifswald

Greirswald Germany 17475

Sponsor information

Organisation

The University of Liverpool Clinical Trials Unit (UK)

ROR

https://ror.org/04xs57h96

Funder(s)

Funder type

Other

Funder Name

Investigator initiated trial in each study centre, without industrial sponsoring. Pharma Nord will be contributing towards the UK trial coordinator.

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?
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes
Study website	Study website	11/11/2025	11/11/2025	No	Yes