

Implementation study of an evidence-based management algorithm for chronic pancreatitis patients

Submission date 01/09/2020	Recruitment status No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol
Registration date 05/09/2020	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
Last Edited 09/01/2023	Condition category Digestive System	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

Plain English summary of protocol

Background and study aims

Chronic pancreatitis is a condition where the pancreas has become permanently damaged from inflammation and stops working properly. The pancreas is a small organ, located behind the stomach, that helps with digestion. Chronic pancreatitis can affect people of any age, but it usually develops between the ages of 30 and 40 as a result of heavy drinking over many years. It's more common in men.

Chronic pancreatitis is associated with a markedly reduced life expectancy and quality of life. In a recently performed study, current care for patients with chronic pancreatitis in the Netherlands proved not to be in accordance with the in 2017 published European guideline.

The aim of the present study is to assess whether standardized care through the implementation of an evidence-based management 'algorithm' of interventions for patients with chronic pancreatitis results in an improvement in quality of life and reduction of pain severity as compared to current practice.

Who can participate?

Chronic pancreatitis patients who meet the inclusion and exclusion criteria and are receiving active treatment in one of the participating centers of the Dutch Pancreatitis Study Group.

What does the study involve?

All participating hospitals cross over from current practice, to care according to the treatment algorithm. The sequence of crossing over is randomized. Study participants will be enrolled during the current practice phase and be followed until the end of the study. In the end, this evidence-based management algorithm will be implemented in all participating hospitals. The evidence-based management algorithm consists of a combination of interventions, based on the recommendation of the United European Gastroenterology evidence-based guidelines will be compared with care according to current practice.

What are the possible benefits and risks of participating?

There are no additional/potential risks for participating in this trial. Possible benefits: During the intervention phase all participating patients will be treated according to our standardized evidence-based management algorithm.

Where is the study run from?

Dutch Pancreatitis Study Group, St. Antonius Hospital (The Netherlands)

When is the study starting and how long is it expected to run for?

July 2020 to July 2023

Who is funding the study?

Mylan (The Netherlands)

Who is the main contact?

Prof. dr. M. Bruno, m.bruno@erasmusmc.nl

Dr. F.E.M. de Rijk, f.de.rijk@antoniusziekenhuis.nl

Contact information

Type(s)

Scientific

Contact name

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Additional identifiers

Clinical Trials Information System (CTIS)

Nil known

ClinicalTrials.gov (NCT)

Nil known

Protocol serial number

NL8556

Study information

Scientific Title

Implementation study of an evidence-based management algorithm for patients with chronic pancreatitis: a nationwide stepped-wedge cluster randomized controlled trial (COMBO trial)

Acronym

COMBO

Study objectives

The aim of this study is to investigate whether the implementation of an evidence-based management algorithm consisting of a combination of interventions for the management of chronic pancreatitis (CP) results in an improvement of patient outcomes.

Ethics approval required

Old ethics approval format

Ethics approval(s)

On 21/04/2020 the MEC-U (Medical Research Ethics Committees United; Postbus 2500, 3430 EM Nieuwegein, Koekoekslaan 1, Netherlands; +31 (0)88 3208784; info@mec-u.nl) ruled that this study is not subject to the Medical Research Involving Human Subjects Act (WMO), ref: W20.074

Study design

Nationwide stepped-wedge cluster randomized controlled trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Chronic pancreatitis

Interventions

All participating hospitals cross over from current practice to care according to the treatment algorithm. The sequence of crossing over is randomized. Study participants will be enrolled during the current practice phase and be followed longitudinally until the end of the study. In the end, this evidence-based management algorithm will be implemented in all participating hospitals.

The evidence-based management algorithm consists of a combination of interventions, all considered as part of best practice, based on the recommendations of the United European Gastroenterology evidence-based guidelines for the diagnosis and therapy of chronic pancreatitis (2017) and extensive systematic literature analysis. The interventions included in this algorithm are particularly focused on education of both physicians and patients, management of risk factors for disease progression and regular screening for and treatment of complications of chronic pancreatitis. The final algorithm has been critically reviewed by the advisory committee of international experts in the field of chronic pancreatitis before implementation in this trial.

Follow up will be 18 months after the start of the intervention.

Intervention Type

Other

Primary outcome(s)

1. Quality of life measured using PANQOLI-questionnaire and EQ5D questionnaire at baseline, start of intervention and 1 year after start of intervention
2. Pain measured using Izbicki questionnaire at baseline, start of intervention and 12 months after start of intervention

Key secondary outcome(s)

1. Individual clinical outcomes measured using data from medical records combined with data from questionnaires at start of intervention and 12 months after start of intervention
2. Risk factors for disease progression measured using data from medical records combined with data from questionnaires at start of intervention and 12 months after start of intervention
3. Healthcare resource utilization measured using data from medical records combined with data from questionnaires at start of intervention and 12 months after start of intervention
4. Social participation measured using data from medical records combined with data from questionnaires at start of intervention and 12 months after start of intervention
5. Annual costs measured using data from medical records combined with data from questionnaires at start of intervention and 12 months after start of intervention

Completion date

31/07/2023

Eligibility**Key inclusion criteria**

1. Age ≥ 18 years
2. A diagnosis of CP according to the M-ANNHEIM criteria
3. Active treatment in one of the participating hospitals
4. Provided written informed consent (IC)

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

All

Key exclusion criteria

1. Women who are pregnant
2. End-stage diseases (<6 months estimated survival) due to cancer, chronic obstructive pulmonary disease and/or congestive heart failure

3. Suspected or established pancreatic malignancies
4. Uncompensated cirrhosis
5. Renal failure (GFR <25 ml/min or who are on dialysis)

Date of first enrolment

07/09/2020

Date of final enrolment

31/12/2022

Locations

Countries of recruitment

Netherlands

Study participating centre

Amsterdam UMC, locatie AMC

Meibergdreef 9

Amsterdam

Netherlands

1105 AZ

Study participating centre

Amsterdam AMC, locatie VUMC

De Boelelaan 1117, 1118

Amsterdam

Netherlands

1081 HV

Study participating centre

Amphia Ziekenhuis

Langendijk 75

Breda

Netherlands

4819 EV

Study participating centre

St. Antonius Ziekenhuis

Netherlands

3435 CM

Study participating centre
Bravis Ziekenhuis
Netherlands
4708 AE

Study participating centre
Catharina Ziekenhuis
Netherlands
5623 EJ

Study participating centre
Canisius Wilhelmina Ziekenhuis
Netherlands
6532 SZ

Study participating centre
Erasmus MC
Netherlands
3015 GD

Study participating centre
Sint Franciscus Gasthuis
Netherlands
3045 PM

Study participating centre
Haga Ziekenhuis
Netherlands
2545 AA

Study participating centre
Isala Ziekenhuis
Netherlands
8025 AB

Study participating centre

Jeroen Bosch Ziekenhuis

Netherlands

5223 GZ

Study participating centre

Leids Universitair Medisch Centrum

Netherlands

2333 ZA

Study participating centre

Maasstad Ziekenhuis

Netherlands

3079 DZ

Study participating centre

Martini Ziekenhuis

Netherlands

9728 NT

Study participating centre

Meander MC

Netherlands

3813 TZ

Study participating centre

Maxima MC

Netherlands

5631 BM

Study participating centre

Medisch Spectrum Twente

Netherlands

7512 KZ

Study participating centre

Noordwest Ziekenhuisgroep
Netherlands
1815 JD

Study participating centre
OLVG
Netherlands
1091 AC

Study participating centre
Radboud UMC
Netherlands
6525 GA

Study participating centre
Reinier de Graaf Gasthuis
Netherlands
2625 AD

Study participating centre
Spaarne Gasthuis
Netherlands
2134 TM

Study participating centre
UMC Utrecht
Netherlands
3584 CX

Study participating centre
Ziekenhuis Gelderse Vallei
Netherlands
6716 RP

Study participating centre

Zuyderland MC
Netherlands
6162 BG

Sponsor information

Organisation

Pancreatitis Werkgroep Nederland

ROR

<https://ror.org/007r3zy44>

Organisation

Erasmus University Medical Center

ROR

<https://ror.org/018906e22>

Funder(s)

Funder type

Industry

Funder Name

Mylan Healthcare B.V.

Results and Publications

Individual participant data (IPD) sharing plan

The datasets generated and/or analysed during the current study during this study will be included in the subsequent results publication.

IPD sharing plan summary

Other

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Protocol article		07/01/2023	09/01/2023	Yes	No
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