Multicentre, Randomised, Placebo-Controlled Trial of Mebeverine in Children with Irritable Bowel Syndrome (IBS) or Functional Abdominal Pain - Not Otherwise Specified (FAP-NOS)

Published: 06-02-2019 Last updated: 15-05-2024

The effect of mebeverine on abdominal pain intensity and frequency in children with irritable bowel syndrome or functional abdominal pain – not otherwise specified will be effective.

Ethical review Approved WMO **Status** Recruitment stopped

Health condition type Gastrointestinal signs and symptoms

Study type Interventional

Summary

ID

NL-OMON23931

Source

NTR

Brief title

Duski

Condition

• Gastrointestinal signs and symptoms

Health condition

IBS and FAP-NOS

Research involving

Human

Sponsors and support

Primary sponsor: Mylan B.V.

Source(s) of monetary or material Support: Stichting Kindermotiliteit

Intervention

Explanation

Outcome measures

Primary outcome

The proportion of patients with > 50% reduction of their abdominal pain intensity and pain frequency after 8 weeks of therapy

Secondary outcome

Change in Quality of Life Change in depression and anxiety score Number of school absences during the treatment Use of pain rescue medication during the treatment (like paracetamol or NSAIDs Health status Somatisation scores Change in IBS/ FAP-NOS symptoms on a 7-point scale (IBS Global Assessment of Improvement Scale (IBS-GAI) Adequate relief Safety of mebeverine use

Study description

Background summary

Irritable bowel syndrome (IBS) and functional abdominal pain - not otherwise specified (FAP-NOS) are common disorders in children. They are associated with a reduced quality of life and an increased risk for psychiatric disorders. Therapeutic options are symptomatic pharmacological treatment to reduce pain, often together with dietary advice, or psychological therapies. Mebeverine is an antispasmodic agent that is often used as symptomatic pharmacological treatment in these children, however the effectiveness of mebeverine (tablet/capsule) has never been studied properly in children and studies conducted with mebeverine suspension in children were uncontrolled. Objective: The primary objective of this study is to investigate the effectiveness of mebeverine on abdominal pain reduction in children with IBS or FAP-NOS. Secondary objectives are to study to investigate the effect of simple advices to child and parents during an observational period. Study design: This multicentre study consists of a baseline period of 4 weeks followed by a randomised placebo-controlled trial of 8 weeks duration. Study population: The study population consists of 284 randomised children between 12 and 18 years diagnosed with irritable bowel syndrome or functional abdominal pain - not otherwise specified according to the Rome IV criteria. Intervention: Patients will be randomly allocated to: mebeverine HCl

retard 200 mg (twice daily) or to placebo capsules (twice daily). Main study parameters/endpoints: The main outcome parameter is the number of patients with >50% reduction of their abdominal pain intensity and frequency after 8 weeks of therapy. The secondary outcomes are: the effect of reassurance, explanation and simple dietary and behavioural advice on abdominal pain frequency and intensity and on adequate relief, the number of patients with adequate relief after 8 weeks of therapy, change in IBS/ FAP-NOS symptoms, change in Quality of Life scores, change in depression and anxiety scores, school absences during and after the treatment, use of rescue medication during the treatment, somatisation scores, the incidence of adverse events during the treatment.

Study objective

The effect of mebeverine on abdominal pain intensity and frequency in children with irritable bowel syndrome or functional abdominal pain – not otherwise specified will be effective.

Study design

Visit 1 = 0 weeks Visit 2 = 4 weeks TC = 8 weeks Visit 3 = 12 weeks Visit 4 = 16 weeks

Intervention

Mebeverine

Contacts

Public

Amsterdam UMC, lacatie AMC Koen Vermeijden

Scientific

Amsterdam UMC, lacatie AMC Koen Vermeijden

Eligibility criteria

Age

Adolescents (12-15 years)

Adolescents (12-15 years)

Adolescents (16-17 years)

Adolescents (16-17 years)

Inclusion criteria

All children aged between 12 and 18 years diagnosed with irritable bowel syndrome or functional abdominal pain – not otherwise specified according to the Rome IV criteria will be invited to participate. The Rome IV criteria form the internationally accepted standard for defining functional gastrointestinal disorders like irritable bowel syndrome and functional abdominal pain – not otherwise specified.1 Before inclusion, all patients undergo routine laboratory testing to exclude underlying organic disorders: complete blood cell count, C-reactive protein, celiac screening (anti-transglutaminase antibodies and IgA), fecal screening on Giardia lamblia if patient presents with diarrhea, and on calprotectin in case an Inflammatory Bowel Disease is suspected. The need for further diagnostic testing is left to the discretion of the treating physician. Finally, according to a recently published guideline by the Rome Foundation for the design of pharmacological clinical trials in children, patients are required to have an average daily pain rate of ≥ 2 on the Wong Baker Faces Pain Scale. This is a validated pain scale to measure pain intensity. In addition, Informed Consent by both parents and by children aged ≥ 12 years is a necessity before children can be included in the study.

Exclusion criteria

• Current treatment by another health care professional for abdominal symptoms • Previous use of mebeverine • Known hypersensitivity to the active substance or to any of the excipients ((magnesium stearate, polyacrylate dispersion, talc, hypromellose, methacrylic acid - ethyl acrylate copolymer (1:1) dispersion, glycerol triacetate, gelatine, titanium dioxide (E171), shellac (E904), propylene glycol, ammonia solution (concentrated), potassium hydroxide, iron oxide black (E172)). • Unintentional weight loss greater than or equal to 5% of their body weight within the last 3 months • Gastrointestinal blood loss • Recurrent or unexplained fevers • Decreased growth velocity • History of previous abdominal surgeries in the past 3 months • Rome IV criteria diagnosis of functional constipation • Children who tested positive for bacterial or parasites infections • Carbohydrate malabsorption, diagnosed either clinically (2 weeks exclusion diet with resolution of symptoms) or with proper testing (breath test). Children with carbohydrate intolerance who continue to have IBS symptoms while on an exclusion diet can still be included • Significant chronic health condition requiring specialty care (e.g., lithiasis, ureteropelvic junction obstruction, sickle cell, cerebral palsy, hepatic, hematopoietic, renal, endocrine, or metabolic diseases) that could potentially impact the child's ability to participate or confound the results of the study • Known diagnosis of cystic fibrosis • Known diagnosis of porphyria • Known concomitant organic gastrointestinal disease • Current use of drugs which influence gastrointestinal motility, such as erythromycin, azithromycin, butyl scopolamine, domperidone, peppermint oil capsules, and Iberogast. • Insufficient knowledge of the Dutch language • Pregnancy or current lactation. Women with childbearing potential must have a negative urine pregnancy test within 7 days prior to first dose of study treatment

Study design

Design

Study phase: 4

Study type: Interventional

Intervention model: Parallel

Allocation: Randomized controlled trial

Masking: Double blinded (masking used)

Control: Placebo

Primary purpose: Treatment

Recruitment

NL

Recruitment status: Recruitment stopped

Start date (anticipated): 07-11-2018

Enrollment: 325

Type: Actual

IPD sharing statement

Plan to share IPD: Undecided

Ethics review

Approved WMO

Date: 06-11-2017

Application type: First submission

Review commission: MEC Academisch Medisch Centrum (Amsterdam)

Kamer G4-214

Postbus 22660

1100 DD Amsterdam

020 566 7389

Study registrations

Followed up by the following (possibly more current) registration

ID: 55563

Bron: ToetsingOnline

Titel:

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register ID

NTR-new NL7508

CCMO NL55301.018.15
OMON NL-OMON55563

Study results