Studying esophageal pressure characteristics using high-resolution manometry: A comparison between solid state catheters and water-perfused catheters

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Therefore, the aim of this study is to determine normal-values for esophageal pressure characteristics using a water-perfused high-resolution manometry catheter. Furthermore, we aim to compare pres

Ethical review Approved WMO

Status Recruitment stopped

Health condition type Gastrointestinal motility and defaecation conditions

Study type Observational non invasive

Summary

ID

NL-OMON39369

Source

ToetsingOnline

Brief title

A comparison between solid state catheters and water-perfused catheters

Condition

Gastrointestinal motility and defaecation conditions

Synonym

manometry

Research involving

Human

Sponsors and support

Primary sponsor: Academisch Medisch Centrum

Source(s) of monetary or material Support: Ministerie van OC&W

Intervention

Keyword: esophagus, Manometry

Outcome measures

Primary outcome

Resting pressure of the lower esophageal sphincter

Secondary outcome

LES relaxation pressure

Distal contractile amplitude

Study description

Background summary

Since the introduction of esophageal manometry in the mid 1950s many different manometric systems have been introduced. The current gold-standard for measuring esophageal pressure characteristics is the so-called high-resolution manometry which refers to catheters with 1-cm manometric sensor spacing at the position of the esophagogastric junction. Two different catheters are currently available for clinical practice 1) catheters with water-perfused pressure sensors, the so-called water-perfused catheters and 2) catheters with solid-state pressure sensors, the so-called solid-state catheters. The current classification for esophageal motility disorders as well as normal values for high-resolution manometry have all been developed using solid-state catheters. Normal-values for water-perfused high-resolution catheters are not available and it is currently unknown whether pressure levels as measured by solid-state catheters. sure levels as measured by solid-state catheters.

Study objective

Therefore, the aim of this study is to determine normal-values for esophageal pressure characteristics using a water-perfused high-resolution manometry

catheter. Furthermore, we aim to compare pres

Study design

A comparative study using solid-state high-resolution manometry catheters and water-perfused high-resolution manometry catheters.

Study burden and risks

none

Contacts

Public

Academisch Medisch Centrum

Meibergdreef 9 Amsterdam 1105 AZ NL

Scientific

Academisch Medisch Centrum

Meibergdreef 9 Amsterdam 1105 AZ NL

Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

Adults (18-64 years) Elderly (65 years and older)

Inclusion criteria

Written informed consent Minimum age: 18 years

Exclusion criteria

Gastrointestinal complaints

Study design

Design

Study type: Observational non invasive

Masking: Open (masking not used)

Control: Uncontrolled

Primary purpose: Diagnostic

Recruitment

NL

Recruitment status: Recruitment stopped

Start date (anticipated): 31-05-2013

Enrollment: 31

Type: Actual

Ethics review

Approved WMO

Date: 19-02-2013

Application type: First submission

Review commission: METC Amsterdam UMC

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

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

No registrations found.

In other registers

Register ID

CCMO NL39310.018.11