

The ARGOS project: real-time assessment of Barrett neoplasia using computer aided detection. A pilot study.

Gepubliceerd: 18-02-2019 Laatste bijgewerkt: 18-08-2022

The use of an-image based CAD system is feasible and enables endoscopic detection of Barrett neoplasia

Ethische beoordeling	Positief advies
Status	Werving gestart
Type aandoening	-
Onderzoekstype	Observationeel onderzoek, zonder invasieve metingen

Samenvatting

ID

NL-OMON28965

Bron

Nationaal Trial Register

Verkorte titel

ARGOS pilot study

Aandoening

Barrett Esophagus, Barrett neoplasia

Ondersteuning

Primaire sponsor: Amsterdam University Medical Centers, location AMC

Overige ondersteuning: This study is sponsored by KWF-STW as part of their programme 'Technology for Oncology'

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

To evaluate feasibility of the workflow of using a real-time, image-based CAD system in the endoscopy suite.

Toelichting onderzoek

Achtergrond van het onderzoek

Barrett's Esophagus (BE) is a known precursor for esophageal adenocarcinoma (EAC). BE patients undergo regular endoscopic surveillance by general endoscopists to detect EAC at an early stage. However, endoscopic detection of early neoplasia is difficult and early lesions are therefore often missed. Primarily, this is due to its subtle appearance. The ability of modern-day computers to automatically recognize informative patterns in data sets can potentially improve endoscopic detection of early neoplastic BE. Recently, a CAD system has been developed by our group that can automatically detect and localize early neoplastic Barrett lesions on endoscopic WLE images with high accuracy. The aim of this pilot study is to interrogate the feasibility of the endoscopic workflow, using this image-based CAD system real-time in the endoscopy suite.

Doel van het onderzoek

The use of an image based CAD system is feasible and enables endoscopic detection of Barrett neoplasia

Onderzoeksopzet

Outcome measures apply to the endoscopic procedure. No further time point apply to this study.

Contactpersonen

Publiek

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Wetenschappelijk

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

- Age > 18 years;
- Patients with NDBE referred for endoscopic surveillance, or patients referred for endoscopic work-up of HGD or EAC likely to require endoscopic resection (EMR or ESD);
- Signed informed consent.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

- Prior history of surgical or endoscopic treatment for oesophageal neoplasia;
- Presence of erosive esophagitis (Los Angeles classification $\geq$ A);
- Inability to undergo EMR/ESD and/or obtain biopsies (e.g. due to anticoagulation, coagulation disorders, varices).

Onderzoeksopzet

Opzet

Type:	Observationeel onderzoek, zonder invasieve metingen
Onderzoeksmodel:	Anders
Toewijzing:	N.v.t. / één studie arm
Blinding:	Open / niet geblindeerd
Controle:	N.v.t. / onbekend

Deelname

Nederland
Status: Werving gestart
(Verwachte) startdatum: 01-03-2019
Aantal proefpersonen: 20
Type: Verwachte startdatum

Voornemen beschikbaar stellen Individuele Patiënten Data (IPD)

Wordt de data na het onderzoek gedeeld: Nog niet bepaald

Ethische beoordeling

Positief advies
Datum: 18-02-2019
Soort: Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

Geen registraties gevonden.

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
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NTR-new	NL7544
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Ander register MEC Amsterdam University Medical Centers, Location AMC : METC 2018_334

Resultaten