Colonoscopy with EndoCuff vs conventional colonoscopy A randomized controlled trial

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We aim to test the hypothesis that EndoCuff improves totaal number of adenomas detected and ADR compared with regular colonoscopy. In other words, we'll study if the Endocuff colonoscopy detects more polyps.

Ethical review	Approved WMO
Status	Recruitment stopped
Health condition type	Malignant and unspecified neoplasms gastrointestinal NEC
Study type	Observational invasive

Summary

ID

NL-OMON39964

Source ToetsingOnline

Brief title EndoCuff trial

Condition

- Malignant and unspecified neoplasms gastrointestinal NEC
- Gastrointestinal neoplasms benign

Synonym colonic polyp, colorectal adenoma, precursor coloncancer

Research involving Human

Sponsors and support

Primary sponsor: Stichting Procolo, centrum voor dikkedarmonderzoek **Source(s) of monetary or material Support:** ARC Endocuff (bedrijf uit UK dat device

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ontwikkeld heeft)

Intervention

Keyword: adenoma detection rate, colon carcinoma, colonoscopy, Endocuff

Outcome measures

Primary outcome

Mean number of adenomas per patient

Adenoma detection rate (percentage of colonoscopies where at least one adenoma

is found)

Secondary outcome

- * Polyp detection rate & number of polyps per patient
- * Flat adenoma detection rate
- * Polyp retrieval rate
- * Cecal intubation rate and cecal intubation time
- * Discomfort during the procedure using the Gloucester Comfort scale
- * Subjective difficulty of the procedure as assessed by the endoscopist
- * Complication rate

Study description

Background summary

Colonoscopy is the current reference standard for detection of colorectal cancer (CRC) and its precursor lesions, adenomas. Several tandem studies have reported a substantial adenoma miss rate of 20-26%, and approximately 2-12% for polyps larger than 10mm. Recently a landmark paper was published, that demonstrated that patients that underwent a screening colonoscopy performed by an endoscopist with an adenoma detection rate (ADR) of greater than 20% had a significantly lower chance of developing an interval carcinoma than when scoped by an endoscopist with an ADR lower than 20%. However, an ADR of 20% is not

always accomplished.

ADR has an inherent limitation as it does not measure the total number of adenomas detected. Within the British NHS Bowel Cancer Screening program (BCPS), the mean number of adenomas per procedure (MAP, total number of adenomas detected divided by the number of procedures) was assessed, besides the ADR. In the BCPS, MAP was 0.91 in FOBT-positives, whereas in symptomatic populations MAP is around 0.7.

There are several reasons for missing colonic lesions, including the anatomical location of polyps on the proximal side of the folds. One of the inventions aimed at visualizing the proximal surface of the mucosal folds in an effort to reduce polyp miss rates is a transparent plastic cap that is placed at the tip of the endoscope. The results of studies comparing cap-assisted colonoscopy with conventional colonoscopy are however variable. Our study group compared conventional colonoscopy and cap-assisted colonoscopy in a large randomized study in an average-risk population and demonstrated no statistical difference in the ADR between both groups, nor in MAP. We hypothesized that maneuvering the colonoscopist. In a large study (approximating daily practice) this may not be done consequently.

If a cap would be able to straighten colonic folds without blurring the endoscopic view this could possibly increase detection of polyps on the proximal side of folds and increase the total number of adenomas detected. Recently, a cap was developed which aims to do so, the EndoCuff. This special cap has two circular rows of plastic hairs that, when pulling the scope back, should distend the folds, prevent slippages of the mucosa and improve tip control. Besides this potential advantage, EndoCuff could possibly also facilitate cecal intubation by facilitating straightening of the endoscope during intubation and prevention of looping. Clinical studies using EndoCuff have not been performed yet.

Study objective

We aim to test the hypothesis that EndoCuff improves totaal number of adenomas detected and ADR compared with regular colonoscopy. In other words, we'll study if the Endocuff colonoscopy detects more polyps.

Study design

Multicenter, open randomized, controlled trial

Study burden and risks

Not applicable

Contacts

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

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

Inclusion criteria

*Aged 45 years and older *Scheduled for colonoscopy for on of the following indications: polyp surveillance, changed bowel habits and/or bloody stools or bowel complaints, FOBT+ screening, positive family history for CRC, abdominal pain *Signed written informed consent *ASA class I, II or III

Exclusion criteria

*Polyposis syndromes *Inflammatory bowel disease (active disease or surveillance)

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*Previous partial colonic resection *Known conditions that require the use of a paediatric colonoscope (severe diverticulosis or abdominal surgery in the medical history) *Colonoscopy after polyp detection with CT-colonography *Known colonic stricture *Any acute indication for colonoscopy

Study design

Design

Study type:	Observational invasive
Intervention model:	Parallel
Allocation:	Randomized controlled trial
Masking:	Open (masking not used)
Control:	Active
Primary purpose:	Diagnostic

Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	19-08-2013
Enrollment:	1058
Туре:	Actual

Ethics review

Approved WMO Date:	17-04-2013
Application type:	First submission
Review commission:	METC Amsterdam UMC
Approved WMO Date:	03-05-2013
Application type:	Amendment
Review commission:	METC Amsterdam UMC

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Approved WMO	
Date:	15-04-2014
Application type:	Amendment
Review commission:	METC Amsterdam UMC
Approved WMO	
Date:	08-09-2014
Application type:	Amendment
Review commission:	METC Amsterdam UMC
Approved WMO	
Date:	23-10-2014
Application type:	Amendment
Review commission:	METC Amsterdam UMC
Approved WMO	
Date:	10-12-2014
Application type:	Amendment
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 CCMO

ID NL42327.018.13