Predictive factors for sarcopenia and malabsorption in high risk surgical oncological patients after cytoreductive surgery and HIPEC procedure

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To investigate the predictive factors for sarcopenia in high risk surgical oncological patients undergoing a CRS + HIPEC procedure. The secondary goal is to investigate the predictive factors for malabsorption and the incidence of anastomic leakage...

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

Summary

ID

NL-OMON42927

Source ToetsingOnline

Brief title

Sarcopenia and Malabsorption in HIPEC patients (SMAL-HIPEC)

Condition

- Malignant and unspecified neoplasms gastrointestinal NEC
- Electrolyte and fluid balance conditions

Synonym

muscle loss and HIPEC procedure

Research involving

Human

Sponsors and support

Primary sponsor: Universitair Medisch Centrum Groningen Source(s) of monetary or material Support: Ministerie van OC&W

Intervention

Keyword: Cancer, HIPEC, Malabsortpion, Sarcopenia

Outcome measures

Primary outcome

Sarcopenia (Muscle loss), measured by the psoas muscle density is the primary

outcome

Secondary outcome

Malabsorption, measured by the fecal energy by bomb calorimetry [kcal/d] is the

secondary outcome.

Other endpoints are anastomic leakage, pneumonia, infection, length of hospital

stay, readmission rate, and one-year survival.

Study description

Background summary

Cytoreductive surgery (CRS) in combination with hyperthermic intraperitoneal chemotherapy (HIPEC) provides a promising therapeutic strategy for patients with gastrointestinal cancer. Sarcopenia and malabsorption are common in patients after CRS + HIPEC surgery and are associated with an increase on postoperative complications. therefore, this study aims to investigate the predictive factors for sarcopenia and malabsorption in high risk surgical oncological patients undergoing a CRS + HIPEC procedure

Study objective

To investigate the predictive factors for sarcopenia in high risk surgical oncological patients undergoing a CRS + HIPEC procedure. The secondary goal is to investigate the predictive factors for malabsorption and the incidence of

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anastomic leakage, pneumonia, infection and length of hospital stay, readmission rate and survival in these patients, one year after surgery.

Study design

A one-year observational study

Study burden and risks

5x measuring upper arm and handgrip strength 5x physical examination and questions about nutrition (PG_SGA) (5 minutes) 3 x questionnaire quality of life (5 minutes) 3x collection 24-hour urine 2x keep their dieet steady and notate their food intake during 4 consecutive days and collection of feces on 2nd, 3rd and 4th day (bomb calorimetry) 2x analysis of oxygen and cardioxide while lying on a bed (15 minutes) (indirect calorimetry) 3x 2 extra tubes of blood Wear a pedometer for 2 days prior to visiting the surgeon

All these test together will take about 3 hours to complete. The blood donation can cause pain and bruising. Their is no extra punction needed for this donation. Keeping the diet steady for 4 consecutive days and collect the stool can be burdensome for the patient.

Contacts

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Trial sites

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Listed location countries

Netherlands

Eligibility criteria

Age

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

Inclusion criteria

Patients > 18 years that undergo CRS and HIPEC procedure at the University Medical Center Groningen (UMCG)

Exclusion criteria

All patients not eligible for CRS and HIPEC procedure not fit for surgery or unable to provide written consent or inability to fill out questionnaires

Study design

Design

Study type: Observational invasive		
Masking:	Open (masking not used)	
Control:	Uncontrolled	
Primary purpose:	Treatment	

Recruitment

NL	
Recruitment status:	Completed
Start date (anticipated):	05-10-2017
Enrollment:	70
Туре:	Actual

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Ethics review

Approved WMO	
Date:	20-10-2016
Application type:	First submission
Review commission:	METC Universitair Medisch Centrum Groningen (Groningen)

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

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

ID: 28190 Source: Nationaal Trial Register Title:

In other registers

Register	ID
ССМО	NL57812.042.16
OMON	NL-OMON28190