Study on the detection of cancer during surgery for rectal cancer or pancreatic cancer with the fluorescent agent "SGM-101 '

No registrations found.

Ethical review	Positive opinion
Status	Recruiting
Health condition type	-
Study type	Interventional

Summary

ID

NL-OMON21037

Source NTR

Brief title n/a

Health condition

rectal cancer pancreatic cancer

Sponsors and support

Primary sponsor: Leiden University Medical Center (LUMC) and Centre for Human Drug Research (CHDR), Leiden, the Netherlands **Source(s) of monetary or material Support:** Surgimab, Montpellier, France

Intervention

Outcome measures

Primary outcome

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Safety and tolerability (primary endpoint)

Tolerability/safety will be assessed using routine clinical measures such treatment-emergent adverse events,

blood pressure, heart rate, temperature, peripheral oxygen saturation, respiratory rate, skin examination, and

routine laboratory assessments. DLT is defined as grade \geq 3 NCI-CTCAE V4.03 toxicity related to SGM-101 treatment between the day of injection and 10 days after surgery. The MTD is defined as the dose at which at least two out of two-to-six patients experience one DLT in the observation sequence defined as the interval between infusion of SGM-101 and 10 days after the surgery.

Secondary outcome

Performance (secondary endpoint)

Performance of SGM-101 will be defined by tumor to background ratio (TBR) for fluorescence, and the

concordance between the intraoperative fluorescence assessment of suspected lesions and their

histopathology. In addition after resection, margins will be assessed using fluorescence imaging to detect

potential irradical resection.

Pharmacokinetics (secondary endpoint)

Cmax, T¹/₂, AUC, Tmax, Clearance. In addition, the relationship between pharmacokinetics and performance will be assessed.

Study description

Background summary

Surgery is the most important therapy for patients with cancer of the rectum or pancreas. Complete resection,

which is a crucial factor in the prognosis of a patient, is challenging as surgeons have to rely on visual appearance and palpation to discriminate between tumor and normal tissue. Consequently, incomplete resection of malignant tissue or unnecessary removal of healthy tissue may occur. This problem may become bigger as 'open' surgery is increasingly replaced by 'closed' (laparoscopic) surgery. It is therefore that realtime intra-operative imaging techniques are developed. Particularly the use of tumor-specific markers coupled to fluorescent imaging moieties show great promise to improve intraoperative staging and allow more radical cytoreductive surgery. Carcinoembryonic antigen (CEA) is a tumor-specific

marker that is highly expressed in a number of tumors of epithelial origin (such as colorectal carcinoma and pancreas carcinoma) while it is minimally expressed in normal adult tissues. Anti-CEA monoclonal antibodies have been used in more than 100 clinical studies without any toxicity concerns. In addition, it has been shown that it is possible to link an anti-CEA monoclonal antibody to a near-infrared (NIR) emitting fluorophore. The compound that will be studied in this research project is SGM-101, a CEA-specific chimeric antibody conjugated with a NIR emitting moiety developed by SurgiMab (Montpellier, France). The hypothesis is that, following preoperative iv administration of SGM-101 in patients with carcinoma of the rectum or pancreas, SGM-101 will bind to CEA expressing cancer cells and these cells can then be visualized with a NIR fluorescence imaging system, thereby increasing the chance of radical resection.

As the experience with SGM-101 in humans is limited, an escalating dose design will be used which allows assessment of safety and will yield data on the most appropriate dose to be used in subsequent clinical studies.

Study objective

The hypothesis is that, following preoperative iv administration of SGM-101 in patients with carcinoma of the rectum or pancreas, SGM-101 will bind to CEA expressing cancer cells and these cells can then be visualized with a near-infrared fluorescence imaging system, thereby increasing the chance of radical resection.

Study design

For each patient the study period will be approximately 15 weeks. Maximally 4 (\pm 1) weeks before the scheduled surgery eligibility of the patient will be assessed. Ar least 24hrs before surgery the patient will be admitted to CHDR for 12 hours for baseline measurements, study drug administration and assessments. The patient will be admitted to LUMC for surgery and other protocol-related assessments. The duration of admission to LUMC is based on the clinical post-operative course of the individual patient. Follow-up visits are planned on the day of discharge from the LUMC and on the day of the first outpatient post-operative follow-up visit.

Intervention

Intravenous administration of 5, 7.5, 10, 12.5 or 15 mg SGM-101

Contacts

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Eligibility criteria

Inclusion criteria

1. Patients aged over 18 years old;

2. Patient should be scheduled and eligible for surgery because of a clinical diagnosis of cancer of the paperoas:

rectum or cancer of the pancreas;

3. Circulating plasma CEA \geq the upper limit of normal range (eg \geq 3.0 ng / ml);

4. Patients should be capable and willing to give informed consent before study specific procedures.

Exclusion criteria

 Anticancer therapy (e.g. chemotherapy, radiotherapy(except routine pre-operative radiotherapy for rectal cancer), targeted therapy, concomitant systemic immune therapy, or any experimental therapy) within 4 weeks before inclusion;

- 2. History of a clinically significant allergy;
- 3. Circulating plasma concentration CEA \geq 300 ng / ml;
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4. Other malignancies either currently active or diagnosed in the last 5 years, except adequately treated

in situ carcinoma of the cervix and basal or squamous cell skin carcinoma;

5. Patients pregnant or breastfeeding (pregnancy should be ruled out by an assay of β hCG plasma

within two weeks prior to administration of the conjugate), lack of effective contraception in male or

female patients with reproductive potential;

6. Laboratory abnormalities defined as:

Rectal cancer patients only:

□ Aspartate AminoTransferase, Alanine AminoTransferase, Gamma Glutamyl Transferase) or Alkaline Phosphatase levels above 5 times the or;

□ Total bilirubin above 2 times the ULN or;

Both pancreatic and rectal cancer patients:

Serum creatinine above 1.5 times the ULN or;

Absolute neutrophils counts below 1.5 x 109/L or;

□ Platelet count below 100 x 109/L or;

□ Hemoglobin below 4 mmol/L (females) or below 5 mmol/l (males);

7. Known positive test for human immunodeficiency virus (HIV), hepatitis B surface antigen (HBsAG) or hepatitis C virus (HCV) antibody or patients with untreated serious infections;

8. Any condition that the investigator considers to be potentially jeopardizing the patients well-being or the study objectives.

Study design

Design

Study type: Intervention model: Interventional

Other

Allocation:	Non controlled trial
Masking:	Open (masking not used)
Control:	N/A , unknown

Recruitment

NL	
Recruitment status:	Recruiting
Start date (anticipated):	23-01-2015
Enrollment:	30
Туре:	Anticipated

Ethics review

Positive opinion	
Date:	21-01-2016
Application type:	First submission

Study registrations

Followed up by the following (possibly more current) registration

ID: 47359 Bron: ToetsingOnline Titel:

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

No registrations found.

In other registers

Register
NTR-new
NTR-old
ССМО
OMON

ID
NL5551
NTR5673
NL54512.056.15
NL-OMON47359

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Study results