

# Imaging tumor angiogenesis using 18F-Fluciclatide PET/CT in patients with colorectal and pancreatic cancer.

Published: 04-03-2019

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Evaluating the feasibility of 18F-Fluciclatide PET/CT imaging of colorectal and pancreatic tumors.

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

## Summary

### ID

NL-OMON54757

### Source

ToetsingOnline

### Brief title

18F-Fluciclatide tumor imaging.

### Condition

- Malignant and unspecified neoplasms gastrointestinal NEC
- Gastrointestinal neoplasms malignant and unspecified

### Synonym

bowel cancer, pancreatic cancer.

### Research involving

Human

### Sponsors and support

**Primary sponsor:** Leids Universitair Medisch Centrum

**Source(s) of monetary or material Support:** European Research Council grant

## Intervention

**Keyword:** angiogenesis, PET/CT, tumor

## Outcome measures

### Primary outcome

Sensitivity/specificity of 18F-Fluciclatide.

### Secondary outcome

Optimal imaging window of this tracer

Feasibility of response monitoring with this tracer

## Study description

### Background summary

In both colorectal and pancreas carcinoma treatment, neoadjuvant treatment protocol are used more frequently. As a consequence of this therapy, tumor shrinkage is seen and even in some cases resection of the primary tumor is not necessary.

However, using the current imaging modalities available (CT, MRI and PET/CT), tumor response monitoring to neoadjuvant therapy is challenging.

In this study, we propose tumor response monitoring using 18F-Fluciclatide.

This new PET tracer targets integrins which are expressed on neoangiogenesis associated with both colorectal and pancreatic tumors.

### Study objective

Evaluating the feasibility of 18F-Fluciclatide PET/CT imaging of colorectal and pancreatic tumors.

### Study design

Colorectal and pancreatic carcinoma patients will be asked to undergo one or two 18F-Fluciclatide PET/CT scan(s). This way, after resection, imaging findings can be correlated to integrin expression on the tumor resection specimen and the feasibility of response monitoring will be assessed.

### Study burden and risks

Moderate. Since no adverse events have been observed from the use of this tracer before, we expect no allergic reactions.

## Contacts

### Public

Leids Universitair Medisch Centrum

Albinusdreef 3  
Leiden 2333RC  
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### Scientific

Leids Universitair Medisch Centrum

Albinusdreef 3  
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## Trial sites

### Listed location countries

Netherlands

## Eligibility criteria

### Age

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

### Inclusion criteria

Biopsy proven primary colorectal adenocarcinoma or suspected pancreatic ductal adenocarcinoma, as agreed on by multidisciplinary team;  
No prior chemo(radio)therapy in rectal cancer patients.  
Patients treated in the LUMC.  
Before patient registration, written informed consent must be given according to ICH/GCP, and national/local regulations.

## Exclusion criteria

Contraindication for PET (pregnancy, breast-feeding and severe claustrophobia);  
Impaired renal function (creatinine clearance < 60 mL/min according to the Cockcroft-Gault equation or ureum < 2x ULN (Upper limit of normal);  
Impaired liver function (ALAT, ASAT > 3 ULN or total bilirubin >2x ULN);  
Known allergy to pABA (p-aminobenzoate sodium salt);  
Presence of any psychological, familial, sociological or geographical condition potentially hampering compliance with the study protocol and follow-up schedule;  
Inability to tolerate lying supine for the duration of a PET/CT examination (~30min).

## Study design

### Design

Study phase:	2
Study type:	Observational invasive
Masking:	Open (masking not used)
Control:	Uncontrolled
Primary purpose:	Diagnostic

### Recruitment

NL	
Recruitment status:	Completed
Start date (anticipated):	24-06-2021
Enrollment:	20
Type:	Actual

### Medical products/devices used

Product type:	Medicine
Brand name:	18F-Fluciclatide
Generic name:	18F-Fluciclatide

## Ethics review

Approved WMO

Date: 04-03-2019

Application type: First submission

Review commission: METC Leiden-Den Haag-Delft (Leiden)

metc-ldd@lumc.nl

Approved WMO

Date: 21-03-2019

Application type: First submission

Review commission: METC Leiden-Den Haag-Delft (Leiden)

metc-ldd@lumc.nl

Approved WMO

Date: 10-04-2019

Application type: Amendment

Review commission: METC Leiden-Den Haag-Delft (Leiden)

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Approved WMO

Date: 14-05-2019

Application type: Amendment

Review commission: METC Leiden-Den Haag-Delft (Leiden)

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Approved WMO

Date: 01-10-2019

Application type: Amendment

Review commission: METC Leiden-Den Haag-Delft (Leiden)

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Approved WMO

Date: 29-10-2020

Application type: Amendment

Review commission: METC Leiden-Den Haag-Delft (Leiden)

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Approved WMO

Date: 31-05-2021

Application type: Amendment

Review commission: METC Leiden-Den Haag-Delft (Leiden)

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Approved WMO

Date: 08-04-2022

Application type: Amendment

Review commission: METC Leiden-Den Haag-Delft (Leiden)

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Approved WMO

Date: 22-05-2023

Application type: Amendment

Review commission: METC Leiden-Den Haag-Delft (Leiden)

metc-ldd@lumc.nl

## 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**

EudraCT

**ID**

EUCTR2018-003522-86-NL

**Register**

CCMO

**ID**

NL67454.058.18

## Study results

Date completed: 23-05-2024

Actual enrolment: 4

### Summary results

Trial ended prematurely