

# Transluminal drainage of PAncreatic fluid collections using a self-expandable metallic sTENT

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To perform a pilot study to evaluate safety and efficacy of using a covered self-expandable metallic stent for transluminal endoscopic drainage of a pancreatic fluid collection.

<b>Ethical review</b>	Approved WMO
<b>Status</b>	Recruitment stopped
<b>Health condition type</b>	Malignant and unspecified neoplasms gastrointestinal NEC
<b>Study type</b>	Interventional

## Summary

### ID

NL-OMON41481

### Source

ToetsingOnline

### Brief title

PATENT

### Condition

- Malignant and unspecified neoplasms gastrointestinal NEC

### Synonym

pancreas vocht collectie

### Research involving

Human

### Sponsors and support

**Primary sponsor:** Academisch Medisch Centrum

**Source(s) of monetary or material Support:** Ministerie van OC&W

## Intervention

**Keyword:** drainage, pancreatic fluid collection, recurrence, timing

## Outcome measures

### Primary outcome

The primary endpoints are safety and efficacy.

### Secondary outcome

- Removability of covered self-expandable metallic stent after PFC resolution
- Number of complications
- Number of stent migrations
- \*Ease of use\* measured as the scope-in and scope-out time interval during the procedure

## Study description

### Background summary

Patients with an acute or chronic pancreatitis which is complicated by a pancreatic fluid collection is preferably treated by endoscopic drainage with transluminal stents. Endoscopic drainage is performed by placement of at least 1 or more transluminal double pigtail stents. Drainage by this type of stents is successful in 85% of cases. Despite occlusion the efficacy is determined by the fistula created by the stents. A larger diameter of the fistula would cause a faster and more effective drainage as is known for the surgical cystenterostomy. Using self-expandable metallic stents to create a large transluminal fistula is described in only a few studies. To determine whether the use of a large diameter SEMS can earn a place in the transluminal treatment of PFCs we will perform a prospective trial with the aim to evaluate the safety and efficacy of the diabolo shaped Niti-S SE covered stent in the endoscopic treatment of PFCs.

### Study objective

To perform a pilot study to evaluate safety and efficacy of using a covered self-expandable metallic stent for transluminal endoscopic drainage of a

pancreatic fluid collection.

## **Study design**

We will conduct a prospective cohort pilot study in which 20 patients with a symptomatic pancreatic fluid collection in the setting of acute or chronic pancreatitis will be included. Patients will undergo a transluminal endoscopic drainage of the pancreatic fluid collection with placement of a covered self-expandable metallic stent.

## **Intervention**

Patients will be treated under conscious sedation or with Propofol. Prior to the procedure prophylactic (broad spectrum) antibiotics will be administered. A linear echoendoscope will be introduced after which the PFC will be visualised. Color Doppler ultrasound can be used to identify regional vasculature. Using a 19 G needle the PFC will be punctured from the stomach or the duodenum. After puncturing, a fluid sample will be collected and send for analysis (amylase, CEA). A 0.035-inch guidewire will be introduced through the needle and coiled into the cyst under fluoroscopic and EUS guidance. After removal of the needle a 10 Fr cystotome will be introduced in order to enlarge the fistula. Additionally, balloon dilation of the fistula using a 6 mm or 8 mm balloon will be performed. The balloon will be exchanged for a silicone covered self-expandable nitinol stent, 16 mm in diameter, 20 mm length (Niti S SEMS, Taewoong Medical). Patients will be admitted to the hospital for one night.

## **Study burden and risks**

Risks of participation could be stent migration into the cyst which can mean additional interventions. In case of complications the gastroenterologist will decide to re-intervene endoscopically and if necessary decide to remove the stents prematurely. The burden of participating patients will be 1 office visit.

## **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

- Patient over 17 years
- Symptomatic pancreatic fluid collection that requires endoscopic drainage

### Exclusion criteria

- Infected pancreatic necrosis
- Recurrence of prior treated pancreatic fluid collection
- Not fulfilling standard criteria to undergo PFC drainage according to local guidelines
- ASA class IV or V

## Study design

### Design

**Study type:** Interventional

Masking: Open (masking not used)

Control: Uncontrolled

Primary purpose: Treatment

## Recruitment

NL  
Recruitment status: Recruitment stopped  
Start date (anticipated): 06-08-2013  
Enrollment: 25  
Type: Actual

## Medical products/devices used

Generic name: Niti S stent  
Registration: Yes - CE intended use

## Ethics review

Approved WMO  
Date: 31-01-2013  
Application type: First submission  
Review commission: METC Amsterdam UMC

Approved WMO  
Date: 21-06-2013  
Application type: Amendment  
Review commission: METC Amsterdam UMC

Approved WMO  
Date: 05-07-2013  
Application type: Amendment  
Review commission: METC Amsterdam UMC

Approved WMO  
Date: 02-12-2013  
Application type: Amendment  
Review commission: METC Amsterdam UMC

Approved WMO  
Date: 30-01-2015  
Application type: Amendment  
Review commission: METC Amsterdam UMC

Approved WMO  
Date: 06-03-2015

Application type:	Amendment
Review commission:	METC Amsterdam UMC
Approved WMO	
Date:	26-06-2015
Application type:	Amendment
Review commission:	METC Amsterdam UMC
Approved WMO	
Date:	30-07-2015
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	ID
CCMO	NL40756.018.12