

# Diverting ileostomy after low anterior resection

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| <b>Submission date</b><br>04/06/2015   | <b>Recruitment status</b><br>No longer recruiting | <input type="checkbox"/> Prospectively registered<br><input type="checkbox"/> Protocol            |
| <b>Registration date</b><br>12/06/2015 | <b>Overall study status</b><br>Completed          | <input type="checkbox"/> Statistical analysis plan<br><input checked="" type="checkbox"/> Results |
| <b>Last Edited</b><br>04/08/2016       | <b>Condition category</b><br>Cancer               | <input type="checkbox"/> Individual participant data  |

## Plain English summary of protocol

### Background and study aims

At the moment it's unclear if patients suffering from rectal cancer who undergo surgical treatment (rectal resection) have a potential benefit of a temporary protective stoma (ileostomy) in terms of lower postoperative complications, especially at the colorectal anastomosis. Postoperative complications may lead to significant morbidity and mortality. The aim of our study is to investigate if a protective stoma may prevent severe postoperative complications.

### Who can participate?

Adult patients of both sexes (age 19-85 years) suffering from rectal cancer.

### What does the study involve?

All patients undergo surgical treatment (rectal resection). Before surgery a randomization of all patients is performed and two groups are created: in one group patients receive a temporary protective stoma (ileostomy) additionally to rectal surgery, in the other group patients are treated without this protective stoma. After the operation and hospital dismissal, all patients are invited to a planned study visit 10 weeks after the operation. Patients who are treated with temporary stoma get their stoma revised 6 to 8 weeks after the primary operation. In all patients the postoperative course is documented and gets compared in a statistical analysis.

### What are the possible benefits and risks of participating?

At the moment it's unclear whether patients who undergo rectal resection without protective stoma have a higher risk of postoperative complication compared to patients treated with temporary stoma. A possible benefit for lower postoperative complications may be the performance of a protective stoma.

### Where is the study run from?

Brothers of Mercy Hospital St. Veit/Glan (Austria)

### When is the study starting and how long is it expected to run for?

January 2004 to September 2014

### Who is funding the study?

Brothers of Mercy Hospital St. Veit/Glan (Austria)

Who is the main contact?  
Prof. Jörg Tschmelitsch

## Contact information

**Type(s)**  
Scientific

**Contact name**  
Dr Jörg Tschmelitsch

**Contact details**  
Department of Surgery  
Brothers of Mercy Hospital St. Veit  
Spitalgasse 26  
9300 St. Veit/Glan  
St. Veit/Glan  
Austria  
9300  
+43 (0)421 249 9475  
joerg.tschmelitsch@bbstveit.at

## Additional identifiers

**EudraCT/CTIS number**

**IRAS number**

**ClinicalTrials.gov number**

**Secondary identifying numbers**  
N/A

## Study information

**Scientific Title**  
Diverting ileostomy versus no diversion after low anterior resection for rectal cancer: a prospective randomised multicenter trial

**Study objectives**  
To determine whether a protective diverting ileostomy improves short-term outcome in patients with rectal resection and colonic J-pouch reconstruction for low anastomoses.

**Ethics approval required**  
Old ethics approval format

**Ethics approval(s)**  
Ethik-kommission des landes kärnten,14/11/2003, ref: A34/03

**Study design**

Two-arm randomised open-label multicentre study

**Primary study design**

Interventional

**Secondary study design**

Randomised controlled trial

**Study setting(s)**

Hospital

**Study type(s)**

Treatment

**Participant information sheet**

Not available in web format, please use contact details to request a participant information sheet

**Health condition(s) or problem(s) studied**

Histologically verified and operable rectal cancer

**Interventions**

Patients were stratified by gender, anastomotic height and preoperative radio-chemotherapy to be operated either by rectal resection and colo-anal/rectal anastomosis with a diverting ileostomy (group A) or rectal resection and colo-anal/rectal anastomosis without protective ileostomy (group B). Patients in both groups with low anastomoses (< 8 cm) were planned to receive a colonic J-pouch reconstruction.

**Intervention Type**

Procedure/Surgery

**Primary outcome measure**

The primary efficacy endpoint of the present study was the overall anastomotic leakage rate as defined by one of the following:

1. Radiologic leak: radiologic evidence of a leak in a Gastrografenema and/or CT scan without clinical signs of anastomotic leakage
2. Clinical leak: radiologic evidence of a leak in a Gastrografenema and/or CT scan and/or sigmoidoscopy with one or more of the following clinical signs: elevated temperature (> 38°C), leucocytosis, peritonitis, putrid or faecal discharge over the drainage or fistulas (recto-vaginal)

**Secondary outcome measures**

1. Surgical complications related to primary surgery, to the stoma before closure and to secondary surgery for stoma closure
2. Postoperative mortality defined as death on account of any cause during the hospital stay due to the primary operation or stoma closure
3. The length of hospital stay in days for the primary operation and stoma closure

**Overall study start date**

01/01/2004

**Completion date**

01/09/2014

## Eligibility

**Key inclusion criteria**

1. Patients aged 19 to 85 years with biopsy-proven and operable rectal cancer
2. Patients with or without preoperative radio-chemotherapy
3. Patients with a distal border of the tumour within 16 cm from the anal verge as demonstrated by rigid rectoscopy
4. Patients with a WHO performance status  $\leq 2$

**Participant type(s)**

Patient

**Age group**

Adult

**Sex**

Both

**Target number of participants**

210

**Key exclusion criteria**

1. Patients with previous rectal surgery
2. Emergency cases
3. Planned laparoscopic resections
4. Patients suffering from metastatic disease or synchronous colon cancer

**Date of first enrolment**

01/01/2004

**Date of final enrolment**

01/09/2014

## Locations

**Countries of recruitment**

Austria

**Study participating centre**

Department of Surgery, Hospital of the Brothers of Mercy

Sankt Veit an der Glan

Austria

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**Study participating centre**  
**Department of Surgery, Hospital of the Brothers of Mercy**  
Graz  
Austria  
-

**Study participating centre**  
**Department of Surgery, University of Salzburg**  
Salzburg  
Austria  
-

## **Sponsor information**

**Organisation**  
Brothers of Mercy Hospital

**Sponsor details**  
Spitalgasse 26  
St. Veit/Glan  
Austria  
9300  
+43 (0)4212499475  
joerg.tschmelitsch@bbstveit.at

**Sponsor type**  
Hospital/treatment centre

**ROR**  
<https://ror.org/01fxzb657>

## **Funder(s)**

**Funder type**  
Hospital/treatment centre

**Funder Name**  
Brothers of Mercy Hospital (Austria)

# Results and Publications

## Publication and dissemination plan

Intention to publish date

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Other

### Study outputs

| Output type                     | Details | Date created | Date added | Peer reviewed? | Patient-facing? |
|---------------------------------|---------|--------------|------------|----------------|-----------------|
| <a href="#">Results article</a> | results | 01/04/2016   |            | Yes            | No              |