

CRF

Study Title	GOODBYE HARTMANN – AFTER 100 YEARS HARTMANN'S PROCEDURE IS GOING TO BE ABANDONED?
Short Title	Goodbye Hartmann
Period of study	1 April 2021- 31 December 2022
Principal investigator	Fausto Catena Emergency Surgery Dept
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Data will be collected and stored online through a secure server running the Research Electronic Data Capture (REDCap) web application.

1. APPENDIX 1 – PRINTED CASE REPORT FORM (CRF)

1. Patient selection – Inclusion criteria (YES/NO)

1.1 Was the patient aged 18 years or older at time of operation?

1.2 Did the participant have a diagnosis of urgent or emergency left-sided colonic disease?

1.3 Did the patient undergo surgery?

1.4 *Did the patient undergo previous colorectal surgery?*

2. Baseline Characteristics - Patient Characteristics - General

2.1 Age

2.2 Sex

2.3 Weight

2.4 Height

2.5 BMI

3. Baseline Characteristics - Patient Characteristics – Comorbidities

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3.1 *ASA Classification.*

3.2 *Has the participant had previous abdominal surgery? (YES/NO)*

3.3 *Does the patient have any of the following comorbidities?*

- Myocardial infarction
- Congestive heart failure
- Peripheral vascular disease
- TIA or CVA with mild/no residual weakness
- Hemiplegia
- Dementia
- Chronic pulmonary disease
- Connective tissue disease
- Peptic ulcer disease
- Moderate or severe renal disease
- Diabetes without end-organ damage
- Diabetes without end-organ damage
- Moderate or severe liver disease
- None of the above
- Unknown

4. Baseline Characteristics - Patient Characteristics- Clinical Status

4.1 Fever?

4.2 Systolic blood pressure?

4.3 Respiratory rate?

4.4 Altered mental status, GCS <15?

4.5 CRP

5. Baseline Characteristics - Disease Characteristics (YES/NO)

5.1 *Complicated acute diverticulitis? If yes describe the presence of purulent or fecal peritonitis and disease stage according to WSES 2015 CT driven classification of left colon acute diverticulitis. [10]*

5.2 *Large bowel perforation? Cause of perforation? Perforated colon cancer? If yes describe the presence of local or generalized peritonitis, purulent or fecal peritonitis*

5.3 *Large bowel obstruction? Colon cancer obstruction? Other cause? Which colic segment was involved?*

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5.4 *Colonic ischemia?*

5.5 *Abdominal trauma? Blunt or penetrating trauma?*

6. Operation

6.1 *Time from admission to surgery?*

- *Less than 1 hour*
- *Between 1 and 6 hours*
- *From 6 hours to 12 hours*
- *From 12 hours to 24 hours*
- *After 24 hours?*

6.2 *In which day surgery was performed?*

- *Weekday*
- *Weekend*
- *Public holyday*

6.3 *At what time surgery was started?*

- *Day: 7am- 8pm;*
- *Early night: 8pm-11pm*
- *Late night: 11 pm- 7am*

6.4 *Abdominal approach?*

- *Laparoscopy*
- *Laparotomy*
- *Robotic*

6.5 *If 'Abdominal approach' is not equal to 'Laparotomy' answer this question:
Abdominal conversion? YES/NO*

6.6 *What type of intervention was performed?*

- *Hartmann's procedure*
- *Sigmoidectomy with primary anastomosis without ileostomy (Low tie of inferior mesenteric artery ligation)*
- *Sigmoidectomy with primary anastomosis with ileostomy (Low tie of inferior mesenteric artery ligation)*
- *Left colectomy with primary anastomosis without ileostomy (High tie of inferior mesenteric artery ligation)*
- *Left colectomy with primary anastomosis with ileostomy (High tie of inferior mesenteric artery ligation)*
- *Loop ileostomy*
- *Loop colostomy (Sigmodostomy- transverse colostomy)*

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- *End ileostomy*
- *End colostomy (Sigmoidostomy- transverse colostomy)*

6.7 *If case of cancer an oncological resection was performed? YES/NO*

6.8 *Complication during surgery? YES/NO*

6.9 *Abdominal organ lesions?*

- *Urether lesion*
- *Bladder*
- *Vagina*
- *Prostate*
- *Uterus*
- *Other*
- *Unknown*

7. *Postoperative course*

7.1 *Length of stay?*

7.2 *Complications? YES/NO*

7.3 *Clavien-Dindo Classification*

7.4 *Anastomotic leakage? (In case of primary anastomosis) YES/NO*

7.5 *Surgical Reintervention? YES/NO*

7.6 *Was necessary a surgical reintervention for anastomotic leakage? YES/NO*

7.7 *If surgery was performed for anastomotic leakage what kind of surgery was made?*

- *Resection with loop ileostomy?*
- *Resection with loop colostomy?*
- *Hartmann's procedure?*
- *Percutaneous abdominal drainage?*

8. **Hospital Characteristics**

8.1 *Hospital type?*

- *Academic*
- *Non-academic teaching*

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- *Categorical*
- *Secondary hospital*
- *Tertiary hospital*
- *Level 4- trauma center*

8.2 Annual volume of emergency surgical procedures?

- *Less than 500 per year*
- *Between 500 and 1000 per year*
- *More than 1000*

8.3 Annual volume of elective colorectal resections?

- *Less than 50 per year*
- *Between 50 and 100 per year*
- *More than 100*

8.4 Abdominal approach performed for elective colorectal surgery?

- *Laparoscopy*
- *Robotic*
- *Laparotomy*

8.5 Presence of Intensive Care Unit (ICU)? YES/NO

9. Surgeon experience

9.1 Has the surgeon performed more than 50 colorectal resections? YES/ NO

9.2 Has the surgeon performed more than 10 resections per year in the last 5 years?

YES/NO

10. Follow-up

1.1 Permanent stoma? YES/NO

1.2 Surgery for ostomy reversal? YES/NO

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1.3 Complication during reversal surgery? YES/NO

1.4 Late anastomotic leakage? YES/NO