

2017 ESCP snapshot audit

STUDY PROTOCOL

Left colon, sigmoid and rectal resections

Study period: 1 February – 09 June 2017

Protocol version 2.5 (15 March 2017)

Key dates:	
22 December 2016	Draft protocol published
1 February 2017	Patient inclusion window starts
to 15 March 2017	Sites should start collecting at least 8 weeks of consecutive
	patient operations within this window.
	Sites should follow up each patient for 30 days.
10 May 2017	Last day of operation to include in data collection
9 June 2017	Last day of patient follow up (8 weeks from patients
	operated on 10 May 2017).
30 June 2017	REDCap database locked
	This is the deadline for data submission
22 September 2017	Preliminary data at ESCP 2017 Berlin



Table of Contents

ESCP Cohort Study Steering Committee	3
Abstract	4
1 - Introduction	5
2 - Methods	6
A) Summary	6
B) Primary Objective	6
C) Primary Research Question	6
D) Inclusion Criteria	7
E) Exclusion Criteria	7
F) Methods for identifying patients	8
G) Centre eligibility	8
H) Patient follow-up	8
I) Data completion and organisation	8
J) Missing data and retrospective patient entry	9
K) Data collection system and information governance	9
L) Local approvals	10
M) Authorship	10
N) Pilot	10
O) Publication of data	10
P) Data governance	11
Q) Financial arrangements	11
3 - Study flowsheet showing patient pathway and CRF completion times	12
4 - CASE REPORT FORMS	13
CASE REPORT FORM A – patient demographics	13
CASE REPORT FORM A – Crohn's disease / cancer extension data points	14
CASE REPORT FORM B – operative details	15
CASE REPORT FORM B – handsewn/stapled anastomosis extension data point	ts16
CASE REPORT FORM C – follow up details	17
5- Unit questionnaire	



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Abstract

Background: Left hemicolectomy, sigmoid, and rectal resection are commonly performed colorectal resections. Variability exists in the techniques utilised to undertake these operations, as well as at patient, surgeon and unit level. This high quality pan-European prospective audit will establish current practices and correlate them against outcomes.

Aim: To explore differences in patients, techniques and outcomes across the international cohort to identify areas of practice variability resulting in apparent differences in outcome warranting further study.

Endpoints: A three-stage data collection strategy collecting patient demographics, operative details and outcome markers. Several outcomes measures will be used including mortality, surgical morbidity (including anastomotic leak) and length of hospital stay.

Primary research question: Does anastomotic technique impact upon post-operative outcomes?

Methods: This two-month prospective audit will be performed across Europe in early 2017, and coordinated by the European Society of Coloproctology. This will be preceded by a one-week, five centre pilot. Sites will be asked to pre-register for the audit and obtain appropriate regional or national approvals. The ESCP cohort studies sub-committee shall assist sites to register where possible. During the study period all eligible operations will be recorded contemporaneously and followed-up through to 30 days. The audit will be performed using a standardised pre-determined protocol and a secure online database. In the first ESCP conducted audit in 2015, 38 countries registered 3208 patients undergoing right hemi-colectomy, while in the second audit 2441 patients undergoing stoma closure were recruited from 48 countries. It is expected that equivalent numbers will be obtained in this audit. The report of this audit will be prepared in accordance with guidelines set by the STROBE (strengthening the reporting of observational studies in epidemiology) statement for observational studies.

Discussion: This multicentre, pan-European audit will be delivered by colorectal surgeons and trainees in an organised and homogenous manner. The data obtained about areas of variability in provision or practice, and how this may impact upon outcomes, will serve to improve overall patient care as well as being hypothesis generating and inform areas needing future prospective study.



1 - Introduction

Multicentre, snapshot cohort studies or audits have the ability to gather large patient numbers in short time periods from many hospitals. They allow exploration of differences in patients, techniques and management across the cohort to identify areas of practice variability that may result in apparent differences in outcome. As such, whilst not providing true evidence of efficacy or the impact of a particular variable, they can be hypothesisgenerating and can identify areas warranting further study in future randomised controlled trials.

The European Society of Coloproctology has recognised the strengths of this form of research, as well as its power in bringing together surgeons and colorectal units across multiple regions or countries for a common research goal, thus strengthening an active network of research participation across Europe.

The first pan-European snapshot audit promoted by the ESCP focused on right hemicolectomy and ileocecal resection surgery succeeded in recruiting 3208 patients from 38 countries, five of them were outside Europe. This success continued with the second audit on stoma closure, which recruited 2527 patients from 312 centres in 48 countries.

Scope

Left colon, sigmoid and rectal resections are frequent colorectal operations performed in almost all hospitals where gastrointestinal surgery are performed. We anticipate that any hospital undertaking general surgery will undertake these procedures on a routine basis.

Despite the frequency of the operation, there remains uncertainty about the optimal method of undertaking it, which results in a range of methods currently utilised to access, mobilise and anastomose the bowel. In addition, patient demographics and disease characteristics vary between units and countries, as do unit policies and throughput levels.

Examples of the areas of variability that this snapshot audit will provide contemporaneous international data upon:

- Method of access (laparoscopic/open/conversions) versus outcome
- Method of anastomosis (handsewn/stapled) versus outcome
- Method of stapling technique versus outcome
- Patient factors versus outcome
- Hospital and surgeon factors versus outcome
- Inflammatory bowel diseases (IBD): factors and perioperative interventions versus outcome.



2 - Methods

A) Summary

Pan-European, prospective audit of consecutive patients undergoing any left hemicolectomy, sigmoid and rectal resections over a minimum 2-month period. The audit shall include operations from 1 February 2017 to 15 March 2017. The sites must include operations for at least 8 consecutive weeks. In order to meet this minimum 8 weeks criterion, sites must start enrolling operations by 15 March 2017.

Commencement timeframe: The sites will start within a time window from 1 February to 15 March 2017. Following commencement, the sites will be required to include patients for at least 8 consecutive weeks.

Final date for operation inclusion: The sites can include operations that occur up to 10 May 2017.

All patients will be followed for 30 days post-operation. Data collection should therefore be completed by 9 June 2017.

As this is an audit, no change to normal patient management is required.

B) Primary Objective

To explore differences in patients, techniques and outcomes across the entire cohort to identify areas of practice variability resulting in apparent differences in outcome warranting further study.

Examples of the postoperative outcomes that the study will examine are:

- Complications (type, grade and rate) within 30 post-operative days
- Length of post-operative stay in the hospital
- Readmission within 30 postoperative days
- Histopathological results

C) Primary Research Question

(should this be required for local approvals process)

Does anastomotic technique impact upon post-operative outcomes?



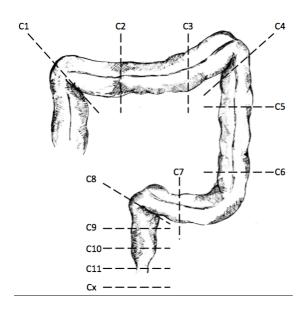
D) Inclusion Criteria

Adult patients undergoing:

- Left hemicolectomy
- Sigmoid resections
- Rectal resections
- Abdominoperineal resection (APR)
- Completion proctectomy

Procedures should be included:

- 1. Any approach (open, laparoscopic or robot assisted)
- 2. Benign and malignant indications
- 3. Resection with or without anastomosis
- 4. Emergency, expedited and elective setting



The <u>proximal</u> level of bowel transection may be at C1 to C9.

The <u>distal</u> level of bowel transection may be at C4 to Cx.

- C1 hepatic flexure
- C2 proximal third transverse
- C3 distal third transverse
- C4 splenic flexure
- C5 proximal descending
- C6 distal descending
- C7 mid sigmoid
- C8 rectosigmoid junction
- C9 upper third rectum
- C10 mid third rectum
- C11 lower third rectum
- Cx no distal resection margin: complete excision of rectum and anal canal (eg APR)

E) Exclusion Criteria

- 1. Colostomy reversal/closre/take down
- 2. More than one anastomosis
- 3. Total, subtotal and panproctocolectomies
- 4. Proximal resection above the hepatic flexure
- 5. Patients with Crohn's disease who undergo upstream stricturoplasty at the same time as left colon resection.
- 6. Pelvic exenteration



F) Methods for identifying patients

Multiple methods may be used according to local circumstances/staffing:

- 1. At the pre-operative assessment clinic (for elective operations)
- 2. Daily review of elective theatre lists
- 3. Daily review of team handover sheets / emergency admission lists / ward lists
- 4. Review of theatre logbooks

G) Centre eligibility

All hospitals/units performing gastrointestinal surgery are eligible to join this audit. No unit size or case throughput stipulations are made. Countries outside Europe can also participate in this audit.

All participating centres will be required to register their details with the ESCP cohort study office and will be responsible for their own local approvals process prior to the start of the data collection period.

Centres should ensure that they have appropriate pathways and manpower to include all consecutive eligible patients during the study period and provide >95% completeness of data entry before locking of REDCap database on the 30 June 2017.

H) Patient follow-up

The audit is designed so normal patient follow-up pathways can be utilised to obtain outcomes data. No additional visits or changes to normal follow-up should be made.

However, local investigators should be proactive in identifying post-operative events (or lack thereof), within the limits of normal follow-up. These may include reviewing the patient notes (paper and electronic) during admission and before discharge to note in-hospital complications, reviewing hospital systems to check for re-attendances or re-admissions, and reviewing post-operative radiology reports, as well as the notes from the in-person outpatient review which we anticipate will occur between 4 and 6 weeks post-operation in most circumstances.

I) Data completion and organisation

CRFs are shown in section 4.

This research takes the form of an audit study and no changes to the normal patient pathway need to be instigated for it to be run. Case report forms (CRFs) have been designed to reflect the normal practice and be completed with minimal extra work from the clinical team. We envisage that most hospitals opening for the study will identify a team of 4-5 members, including one or more Consultant-level members (which most centres require to



be the official local 'lead' of the study), and trainee surgeons, junior doctors or data administrators who will undertake the organisational and logistical roles as well as coordinate data entry.

CRF A (patient demographics) and CRF C (follow-up information) can be completed by any suitably qualified member of the local team.

We do stipulate the CRF B (operative details) must be completed by, or in direct conjunction with, a surgeon who was present during the operation itself. It should ideally be completed immediately after surgery, at the same time as the operation notes are written, to ensure data accuracy and completeness.

J) Missing data and retrospective patient entry

The online database has been designed to allow sites to securely access an individual patient's data for all CRFs throughout the study period. This means that any missing or erroneous data can be altered by the local investigators whilst the data collection period is ongoing. In order to maximise data completion and emphasise its importance to collaborators, participating centres with >5% missing data in **mandatory fields** (i.e. less than 95% data completeness) will be excluded from the study.

The study design means that sites may retrospectively identify eligible patients that were missed primarily and for whom contemporaneous patient and operation data was not entered. We are happy for these patients to be entered during the study period providing that CRF B (operative details) is completed by, or in direct conjunction with, a surgeon who was present during the operation itself.

K) Data collection system and information governance

Data will be recorded contemporaneously on a dedicated, secure server running the Research Electronic Data Capture (REDCap) web application. REDCap allows collaborators to enter and store data in a secure system. No patient identifiable data (name, date of birth, address, etc) will be recorded on REDCap.

Registered local investigators will have individual password-protected access to their unit's data entered on to REDCap. During the running of the audit, only local data will be visible to investigators; other sites' data will not be accessible.

In order to facilitate entry of follow-up data, investigators will need a way to link REDCap records to patient records. This can be achieved by keeping a password protected spreadsheet containing a look-up table. This should cross-reference the automatically generated REDCap ID number for each patient against their local identifier number.



The Birmingham Surgical Trials Consortium (BiSTC) will provide administrative support for the project and the REDCap system. The REDCap system used is hosted by the University of Birmingham (UK). This system was used in the 2016 ESCP audit on stoma closure. Many hospitals already use these data collection tools to measure clinical practice and drive improvements in healthcare in multiple disease settings.

Data will be stored securely on encrypted and certified servers for a minimum of five years under the governorship of the European Society of Coloproctology (ESCP). The data may be used for future research although it should be noted that the anonymised nature of the database means individual patients will not be reverse-identifiable in the future.

L) Local approvals

All data collected will measure current practice, with no changes made to normal treatment. As such, this study should be registered as an audit of current practice at each participating centre. It is the responsibility of the local team at each site to ensure that local audit approval (or equivalent) is completed for their centre. Participating centres will be asked to confirm that they have gained formal approval at their site.

M) Authorship

A maximum of 5 investigators from each individual site will be included as formal co-investigators in this research, and will be Pubmed searchable and citable. The output from this research will be published under a single corporate authorship – e.g "Pan-European Cohort Studies Group" or similar.

An identical process of multicentre audit and publication/authorship has been used recently in the publication of main study from the first audit: "The relationship between method of anastomosis and anastomotic failure: an international snapshot audit" – submitted to Colorectal Disease journal in 2016.

N) Pilot

A one-week pilot across five hospitals across Europe will be performed to test the data collection tool. Adjustments based on these experiences may be made before rolling out the main audit.

O) Publication of data

Data will be published as a pool from all participating units. Subgroup analyses by disease, technique or outcome variables may be presented, but no hospital-level or surgeon-level data will be published whereby an individual unit or surgeon could be identified. If local



investigators would like a breakdown of their own unit's data for benchmarking purposes and local presentation/discussion, this will be available after the end of the study.

P) Data governance

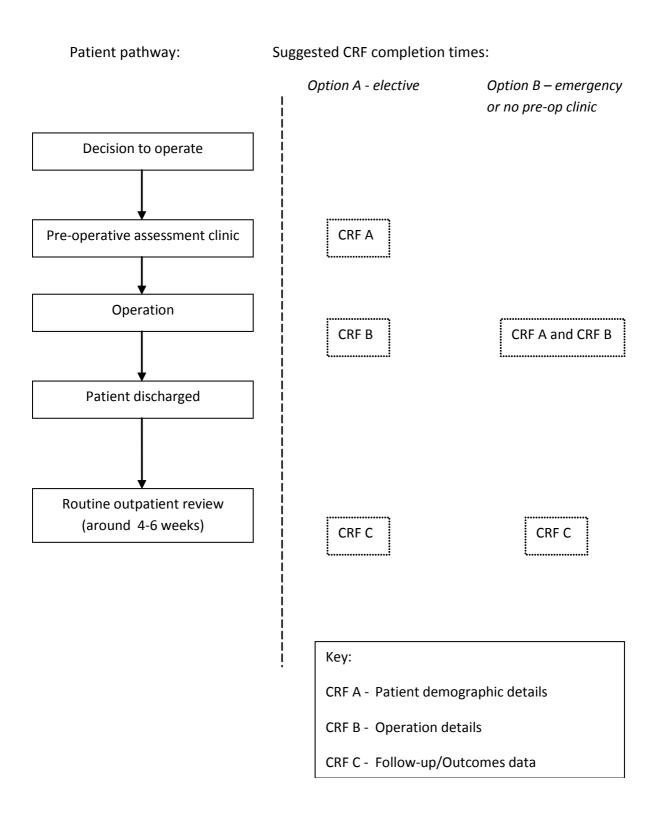
The ESCP Cohort Studies Committee welcomes the use of the data for further research that benefits patients. Requests can be submitted to the ESCP Cohort Studies Committee. Data sharing is subject to ESCP approval and the appropriate safeguarding as determined by the ESCP. Any future subprojects should also comply with our policy of a single corporate authorship e.g. "Pan-European Cohort Studies Group" or similar. However, authors' contributions will be highlighted in accordance with the recommendations for the conduct, reporting, editing, and publication of scholarly work in medical journals (commonly referred to as the Vancouver Convention) by the International Committee of Medical Journal Editors (ICMJE).

Q) Financial arrangements

This study is supported by the European Society of Coloproctology. Participating centres will not bear any costs. Similarly, no financial reimbursement will be made to units or investigators for their involvement in the project.



3 - Study flowsheet showing patient pathway and CRF completion times



4 - CASE REPORT FORMS

CASE REPORT FORM A – patient demographics

Date of surgery	/	//					This is an optional field to help you identify and follow up patients
Gender		Male		Female			
Age							Age on day of operation
ASA grade		Grade I: healthy person		Grade II: mild systemic disease		Grade III: severe systemic disease	
		Grade IV: systemic disea	se that is	a constant threat to life		Grade V: moribund	
History of IHD/ stroke		Yes		No			IHD = ischaemic heart disease
History of anticoagulant treatment		Yes		No			Anti-coagulant use (e.g. warfarin, coumadin) prior to admission to hospital
History of diabetes mellitus		Yes		No			Include diet, tablet and insulin controlled DM
Smoking history		Never		Ex-smoker: stopped		Ex-smoker: stopped	
		Current smoker		more than 6 weeks ago		less than 6 weeks ago	
Body Mass Index		If BMI unknown:	Weight:	kg	Height:	cm	Height/weight only required if BMI unavailable
Preoperative nutritional support		None		Oral supplement		Parenteral nutrition	
		Enteral nutrition (NG tub	e, PEG)				
Urgency of surgery		Elective (planned)		Expedited		Emergency	Expedited: within 2 weeks of decision
							Emergency: within 24 hours of decision
Indication		Benign polyp		Crohn's disease		Diverticular disease	
		Malignancy (cancer)		Trauma		Ulcerative colitis	
		Other:			_		
Location of disease		Splenic flexure		Left colon		Sigmoid colon	For synchronous tumours you may select
		High rectum (11-15cm)		Middle rectum (7-10cm)		Low rectum (0-6cm)	multiple sites
Pre-operative albumin		g/L or mmol/L					Enter most recent pre-operative value
Pre-operative haemoglobin		g/L or mmol/L					Enter most recent pre-operative value
Pre-operative enteric fistula		Yes		No			Fistula between bowel and other organ/ skin
Pre-operative abscess		Yes		No			Intra-abdominal or pelvic abscess, within 3 months of surgery
If yes:		CT guided percutaneous s drainage		Yes		No	Include US/ CT drainage procedures completed within 3 months of surgery
If yes:	Interval	I from abscess drainage to	operation		(days	

CASE REPORT FORM A – Crohn's disease / cancer extension data points

Crohn's disease extension data poin	ts						
Pre-operative immunosuppressant		Steroids, low dose		Steroids, high dose (≥20mg pr	redni	isolone or equivalent)	Low dose: <20mg prednisolone or equivalent
drugs select multiple drugs, if appropriate		6-mercaptopurine		Methotrexate		Azathioprine	Include systemic steroids given within a week of surgery. Include 6MP, MTX, azathioprine given within a month of surgery.
Pre-operative biologic use		None		1w prior to surgery		1-6w prior to surgery	w = weeks
		6-12w prior to surgery		12w to 1 year prior to surgery			select multiple options, if appropriate
Steroid stress dose		Yes		No			A single high dose of steroids at induction to reduce surgical stress response in patients already on steroids
Cancer extension data points							
Initial pre-treatment staging (no neoadj	uvant the	erapy given, or prior to neoad	djuvant	therapy if it was given):			
T stage		T1		T2		T3	
		T4					
N stage		N0		N1		N2	
M stage		M0		M1			
EMVI detected on MRI		Yes		No			
Threatened (<2mm) CRM on MRI		Yes		No			
Neoadjuvant therapy:							
What <u>neo</u> adjuvant (pre-operative)		None		Chemotherapy only		SCRT: short-course rad	iotherapy
therapy was administered, if any		Long-course chemoradiothe	rapy				
Post-treatment staging (for patients who	o underv	went neoadjuvant therapy, rep	eat sta	aging prior to surgery):			
Was the patient re-staged following neoadjuvant treatment		Yes (complete details below)		No		Not applicable (no neoa	djuvant treatment)
T stage		T1		T2		T3	
		T4					
N stage		N0		N1		N2	
M stage		M0		M1			
EMVI detected on MRI		Yes		No			EMVI = extramural venous invasion -
Threatened (<2mm) CRM on MRI		Yes		No			CRM = circumferential resection margin

N.B. if liver metastasis is operated prior to colorectal resection, please record as M0 even if original radiological staging M1

CASE REPORT FORM B – operative details

CASE REPORT TORRIVE	op.	crative actains					
Pre-operative bowel preparation		None		MBP only		MBP + preop oral antibiotics	MBP = Mechanical bowel preparation
Surgeon in charge		Colorectal trainee		Colorectal consultant surgeon			Consultant = attending/ specialist
		General surgery trainee		General consultant surgeon			Trainee = registrar/ resident
Proximal level of bowel transection	Select	C1 – C9:					Please refer to diagram on page 7
Distal level of bowel transection	Select	C4 – Cx:					Please refer to diagram on page 7
Intra-operative findings		Enteric fistula		Acute colitis/ proctitis		Bowel perforation	You may select multiple findings
		Bowel obstruction		Intra-abdominal / pelvic absces	SS		
Initial operative approach		Open		Robotic		Laparoscopic	Conversion to open: wound made or
If robotic/ laparoscopic:	Was th	is converted to open		Yes		No	extended to allow access to vascular pedicle or to complete safe dissection
Was a part of the operation undertaken with a transanal approach?		Yes		No			
Operation duration (mins)		minutes					Time from incision to skin closure
Skin closure		Suturing		Stapling			
Intra-operative blood transfusion		Yes		No			
Intra-operative complications		None		Vascular injury		Bowel injury (e.g.	
		Injury to adjacent organs or st	ructu	res (e.g. ureter)		duodenum)	
Anatomosis		Handsewn		Staples		None	
If no anastomosis:		Standard APR		Inter-sphincteric APR		Extra-levator APR	
		Hartmann type-operation (rect	al st	ump left)			
If handsewn or stapled anastomosis	3						
Anastomotic configuration		Side to side		Side to end		End to end	
Anastomosis distance from anus	(cm					Only required for rectal resections
Intra-operative leak test performed?		Yes		No			
De-functioning stoma		Loop ileostomy		End ileostomy		Loop colostomy	
		None					

CASE REPORT FORM B – handsewn/stapled anastomosis extension data points

Handsewn anastomosis extension da	ta poii	nts	•		
Technique for primary anastomosis		Continuous sutured	Interrupted sutured		
Suture material for primary		Biosyn	Capron (Nurolon)	Catgut	
anastomosis		Dexon	Ethibond (TiCron)	Maxon	
		Monocryl	Monomax	Monosyn	
		Nylon (Ethilon)	PDS (Monoplus)	Polysorb	
		Prolene (SurgiPro)	Safil	Silk	
		Vicryl (Novosyn)	Other:		
Suture gauge for primary anastomosis					e.g. 6-0, 5-0, 4-0, 3-0, 2-0, 1-0, 0, 1, 2 etc
Bites taken for primary anastomosis		Full thickness bowel	Sero-muscular only		
Number of layers		Single layer	Two layers		Two layers = another layer of sutures taken after the primary bowel anastomosis is completed
Stapled anastomosis extension data	ooints				
Device for primary anastomosis		Linear	Circular		
If circular stapler used					
Device for primary anastomosis		CDH (Ethicon)	CEEA (Covidien)	ECS (Ethicon)	
		EEA (Covidien)	SDH (Ethicon)	Other:	-
Stapler diameter size	r	nm			Circular stapler diameters vary 21-33mm
If linear stapler used					
Device for primary anastomosis		Endopath (Ethicon)	GIA (Covidien)	NTLC (Ethicon)	
		TA (Covidien)	TCT (Ethicon)	TL (Covidien)	
		TLC (Ethicon)	TX (Ethicon)	Other:	-
Was apex of anastomosis stapled?		Yes	No		
If apex stapled, device used:		Endopath (Ethicon)	GIA (Covidien)	NTLC (Ethicon)	
		TA (Covidien)	TCT (Ethicon)	TL (Covidien)	
		TLC (Ethicon)	TX (Ethicon)	Other:	-
If apex stapled, was it oversewn:		No	Yes – continuous	Yes – interrupted	

CASE REPORT FORM C – follow up details

Post-operative admission to		No admission to ICU		Planned from operating theatre				nsive care unit = ICU/ ITU/ Critical care
intensive care unit		Unplanned, from ward		Unplanned, from operating theatre		unit		
Peak CRP level	mg/L Peak CRP level up to and including on post-operative day three (day of operation is day zero)							
Clavien-Dindo complication grade		None		Grade I		Grade II		Grade IIIa
		Grade IIIb		Grade IVa		Grade IVb		Grade V
Anastomotic leak		None		Yes – Grade A		Yes – Grade B		de A = no radiological or surgical vention
		Yes – Grade C: surgical interv	entic	n				de B = radiological intervention (eg drain)
If anastomotic leak occured:		Post operative da	y an	astomotic leak diagnosed:			Grac	de B = radiological intervention (eg drain)
Intra-abdominal or pelvic collection		Yes		No				
If collection occured:		Post operative da	y an	astomotic leak diagnosed:			The	day of operation is day zero.
Surgical site infection		Yes		No				
Length of post op stay		days						
30 day readmission		Yes		No				
If readmitted, reason for readmission:	-							
30 day reoperation		Yes		No				
If reoperated, reason for reoperation:		Anastomotic leak		Bowel obstruction		Hernia		
		Wound related problem		Other:				
Postop histology		Benign polyp		Crohn's disease		Diverticular disease		
		Malignancy (cancer)		Ulcerative colitis		Other:		
Cancer extension data points:								
Grade of differentiation		Well differentiated		Moderate differentiation		Poorly differentiated		
Histological T stage (post-op)		T0		T1		T2		
		T3		T4				
Histological N stage (post-op)		N0		N1		N2		
Histological M stage (post-op)		MO		M1				
Complete pathological response		Yes		No				
Number of harvested lymph nodes								
Number of lymph nodes with metastases								
Histological evidence of EMVI		Yes		No			EMV	I = extramural venous invasion
Distance to closest resection margin mm								

5- Unit questionnaire

To be completed at site registration stage

Provision of surgical services	
Is your centre a:	University hospital/ tertiary centre;
	District general hospital;
How many consultant-level surgeons	(number)
perform colorectal resection operations	
at your site?	
How many consultant-level specialist	(number)
colorectal surgeons are at your site	
How many beds are in your hospital in	(number)
total (all specialties)?	
How many general surgical beds are in	(number)
your hospital?	
How many high dependency (HDU) and	(number)
intensive care (ITU) beds are in your	
hospital?	