CIPHER STUDY Patient Initials:	The CIPHER Study SURGICAL TECHNIQUE	CIPHER Study ID:
SURGEON DETAILS		
Most senior surgeon scrubbed in at time	e of stoma formation:	
Name:		per:
PATIENT DETAILS		
Operation date: $\frac{1}{d} \frac{1}{d} \frac{1}{m} \frac{1}{m} \frac{1}{m} \frac{1}{m}$		
Operation start time (defined as knife to skin: time):	:	
Operation end time (defined as time of final skin suture in w	/ound): <b>:</b>	
Month of birth: Year of	birth:	
Patient's Sex: Male F	emale	
SURGICAL APPROACH TO STOMA F	ORMATION	
Indication for surgery ( <i>please select or</i>		
Tumour – benign		
Tumour – malignant		
Diverticular Disease		
Functional Intestinal Disorder		
Inflammatory Bowel Disease (IBD)		
IBD – Crohn's	$\square$	
IBD – Ulcerative Colitis		
Other		
If other, specify:		
ASA Classification:	I  II II IV	

CIPHER STUDY Patient Initials:	The CIPHER Study SURGICAL TECHNIQU	JE		<b>TH</b> 1 R Study ID:
Name of procedures (tick YES or NO a	s appropriate for each):			
		Yes	No	
Small bowel resection Colectomy: left				
(including sigmoid colectomy and anter	rior resection)			
Colectomy: right (including ileocaecal resection)				
Colectomy: subtotal or panproctocolect	tomy			
Hartmann's procedure				
Colorectal resection – other				
Reduction of volvulus		$\square$		
Stricturoplasty				
Drainage of abscess/collection		$\square$		
Debridement				
Abdominoperineal excision				
Posterior pelvic exenteration				
Repair or revision of anastomosis			$\square$	
Repair of intestinal fistula				
Resection of other intra-abdominal tum	nour(s)			
Stoma formation				
Other				
lf ether enerify				
If other, specify:				
If YES to abdominoperineal excision of			•	
Vertical rectus abdominis myoc		Yes	No	
Intended type of access used ( <b>please s</b> o				
	SLS			
	Laparoscopic			
	Robotic			
	Open			
	Trephine			
Intended type of procedure converted to (Do not answer if intended type of acc		Yes	No	

	The CIPHER Study	TH
Patient Initials:	SURGICAL TECHNIQUE	CIPHER Study ID:
Envisaged longevity of stoma:	Permanent Uncertain	
Type of stoma formed ( <b>please sel</b>	ect one):	
End		
Loop	☐ If <b>loop</b> , with or	without rod: With
Loop end		Without
Double barrelled		
Other		
Section of bowel used to form func	tioning end of stoma ( <i>please select one</i> ):	
Jejunum		
lleum		
Ascending colon		
Transverse colon		
Descending colon		
Sigmoid colon		
Stoma site pre-marked ( <b>please se</b>	lect one): If preserved with	h suture or pre-marked with pen,
Not preserved	Stoma site ma	rked by ( <b>please select one</b> ):
Preserved with suture	Stoma nurs	e
Pre-marked with pen	Surgeon	
	Non-special	ist nurse
	Other	
	If other,	specify:
	Stoma formed	Yes   No     at pre-marked site:
Route of stoma: T	Frans-peritoneal Extra-peritoneal	

The CIPHER Study		Т	Ή
Patient Initials:	CIPHE	ER Study ID:	
Subcutaneous tissue excised:	Yes	No	
Relationship of the muscle layer incision to the rectus abdominis ( <i>please select one</i> )	:		
Outside of the rectus sheath (within oblique abdominal muscles)		Continue of next page	
Within the rectus sheath - though the belly of the rectus abdominis			
Within the rectus sheath - lateral to the belly of the rectus abdominis			
Complete the box below			
Anterior sheath: was a laparoscopic trocar used to puncture the anterior sheath (Only answer for laparoscopic or robotic procedures)	Yes	No	
Anterior sheath: size of incision [widest diameter in mm]			
Anterior sheath: Shape of incision ( <i>please select one</i> )			
Linear - horizontal			
Linear - vertical			
Cruciate			
Circular O			
Other <b>?</b>			
Anterior sheath: was any of the anterior sheath removed	Yes	No	
Anterior sheath: adjustments made to the size of the incision	Yes	No	
Posterior sheath: was a laparoscopic trocar used to puncture the posterior sheath (Only answer for laparoscopic or robotic procedures)	Yes	No	
Posterior sheath: size of incision [widest diameter in mm]			
Posterior sheath: Shape of incision ( <i>please select one</i> )			
Linear - horizontal			
Linear - vertical			
Cruciate			
Circular O			
Other <b>?</b>			
Posterior sheath: was any of the posterior sheath removed	Yes	No	
Posterior sheath: adjustments made to the size of the incision	Yes	No	

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Patient Initials:	SURGICAL TECHNIQU	IE	CIPHER Study ID:
	•		
Muscle fibres separated with blunt dissection	on	Yes	No
Intra-operative vessel damage - epigastric	vessel	Yes	No
Location of trephine in relation to port site (Only answer for laparoscopic or robot		dures conver	rted to open)
Trephine created at the port site as the title as the title of the subsequently used as port site			
Trephine created at end of procedure	e (conversion of port site to trephi	ne)	
Trephine created in a location other	han port site		
Were sutures used to buttress the incision (Only answer if relationship of the muse	-	ıbdominis is	"within rectus sheath")
Anterior sheath only			
Posterior sheath only			
Both anterior and posterior sheath			
Anterior and posterior sheath suture	d together		
No			
6			

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Patient initials:       CIPHER Study ID:         RENFORCING THE STOMA TREPHINE WITH MESH       Vs       No         Was mesh used to reinforce the stoma trephine       Vs       No       (INO, one one tragge)         Mesh product code (attach product sticker)       Attach product sticker here       No       (INO, one one tragge)         Mesh cut or adjusted       Vs       No       (INO, one one tragge)         Mesh cut or adjusted       Vs       No       (INO, one one tragge)         Mesh cut or adjusted       Vs       No       (INO, one one tragge)         Mesh cut or adjusted       Vs       No       (INO, one one tragge)         Mesh cut or adjusted       Vs       No       (INO, one one tragge)         If YES,       Cranicacudal length of mesh inserted if changed from original [in cm]       (INO, one one tragge)         Diameter of mesh inserted if changed from original [in cm]       (Inord)       (Inord)         Subjavjore-peritoneal/retro-rectus       (Inord)       (Inord)       (Inord)         Subjavjore-peritoneal/retro-rectus       (Inord)       (Inord)       (Inord)       (Inord)         Route used to position mesh (please select one):       (Inord)       (Inord)       (Inord)       (Inord)       (Inord)       (Inord)       (Inord)       (Inord)       (In	SUR	The CIPHER Study
Was mesh used to reinforce the stoma trephine       yes       No       If NO, confinue on next page         Mesh product code (attach product sticker)       Attach product sticker here         Mesh cut or adjusted       Yes       No         If YES.       Craniccaudal length of mesh inserted if changed from original [in cm]		CIPHER Study ID:
Was mesh used to reinforce the stoma trephine       yes       No       If NO, confinue on next page         Mesh product code (attach product sticker)       Attach product sticker here         Mesh cut or adjusted       Yes       No         If YES.       Craniccaudal length of mesh inserted if changed from original [in cm]		
Was mesh used to reinforce the stoma trephine       yes       No       If NO, confinue on next page         Mesh product code (attach product sticker)       Attach product sticker here         Mesh cut or adjusted       Yes       No         If YES.       Craniccaudal length of mesh inserted if changed from original [in cm]	REINFORCING THE STOMA TREPHINE WITH I	MESH
If YES, complete the box below       continue on next page         Mesh product code (attach product sticker)       Attach product sticker here         Mesh cut or adjusted       yes       No         If YES,       No		
Mesh cut or adjusted       Yes       No         If YES,       Cranicocaudal length of mesh inserted if changed from original [in cm]         Diameter of mesh inserted if changes from original [in cm]	· · · · ·	continue on
If YES,         Craniocaudal length of mesh inserted if changed from original [in cm]         Diameter of mesh inserted if changes from original [in cm]         Diameter of mesh inserted if changes from original [in cm]         Shape of mesh inserted if changes from original [in cm]         Shape of mesh inserted if changes from original [in cm]         Shape of mesh inserted if changes from original [in cm]         Shape of mesh inserted if changes from original [in cm]         Shape of mesh inserted if changes from original [in cm]         Subay or the state or th	Mesh product code (attach product sticker)	Attach product sticker here
Craniocaudal length of mesh inserted if changed from original [in cm]   Medio-lateral length of mesh inserted if changed from original [in cm]   Diameter of mesh inserted if changes from original (please select one):   3D/funnel   Circular/Oval   Square/rectangular   No change in shape   Location of mesh replacement (please select one):   Sublay/pre-peritoneal/retro-rectus   Onlay   Route used to position mesh (please select one):   Through the main operative incision   Through the stoma trephine   Via a port   Subay set he hole in the mesh?   Cruciate   Cruciate   Cruciate   Circular/oval   Sit   None (Sugarbaker)   What size was the hole in the mesh [in mm]   Mesh secured to abdominal wall (including sheath, muscle, peritoneum)   Yes	Mesh cut or adjusted	Yes No
Medio-lateral length of mesh inserted if changed from original [in cm]         Diameter of mesh inserted if changes from original [in cm]         Shape of mesh inserted if changes from original (please select one):         3D/funnel         Circular/Oval         Square/rectangular         No change in shape         Underlay/intra-peritoneal         Onlay         Route used to position mesh (please select one):         Through the main operative incision         Through the stoma trephine         Via a port         State of circular/oval         Sit       None (Sugarbaker)         Metat size was the hole in the mesh [in mm]         Metat size was the hole in the mesh [in mm]		
Diameter of mesh inserted if changed from original (in cm)   Shape of mesh inserted if changes from original (please select one):   3D/funnel   Circular/Oval   Square/rectangular   No change in shape   Location of mesh replacement (please select one):   Sublay/pre-peritoneal/retro-rectus   Onlay   No change in shape     Route used to position mesh (please select one):   Through the main operative incision   Through the stoma trephine   Via a port     Circular/Oval   Sit   None (Sugarbaker)   Meta shape was the hole in the mesh?   Meta size was the hole in the mesh [in mm]   Meta size was the hole in the mesh [in mm]     Meta size was the hole in the mesh [in mm]     Meta size was the hole in the mesh [in mm]	Craniocaudal length of mesh inserted if cha	anged from original [in cm]
Shape of mesh inserted if changes from original (please select one):     3D/funnel   Circular/Oval   Square/rectangular   No change in shape     Location of mesh replacement (please select one):   Sublay/pre-peritoneal/retro-rectus   Onlay     Route used to position mesh (please select one):   Through the main operative incision   Through the stoma trephine   Via a port     What shape was the hole in the mesh?   Cruciate   Circular/oval   Sit   None (Sugarbaker)     What size was the hole in the mesh [in mm]     Mesh secured to abdominal wall (including sheath, muscle, peritoneur)     Yes	Medio-lateral length of mesh inserted if cha	inged from original [in cm]
3D/funnel   Circular/Oval   Square/rectangular   No change in shape   Location of mesh replacement ( <i>please select one</i> ):   Sublay/pre-peritoneal/retro-rectus   Underlay/intra-peritoneal   Onlay   Route used to position mesh ( <i>please select one</i> ): Through the main operative incision Through the stoma trephine Via a port What shape was the hole in the mesh? Cruciate Circular/Oval Sit None (Sugarbaker) None (Sugarbaker) What size was the hole in the mesh [in mm] Mesh secured to abdominal wall (including sheath, muscle, peritoneum) Yes No	Diameter of mesh inserted if changed from	original [in cm]
Circular/Oval   Square/rectangular   No change in shape     Location of mesh replacement (please select one):   Sublay/pre-peritoneal/retro-rectus   Underlay/intra-peritoneal   Onlay     Route used to position mesh (please select one):   Through the main operative incision   Through the stoma trephine   Via a port     What shape was the hole in the mesh?   Cruciate   Cruciate   Circular/oval   Sit   None (Sugarbaker)   What size was the hole in the mesh [in mm]   Mesh secured to abdominal wall (including sheath, muscle, peritoneur)     Yea	Shape of mesh inserted if changes from original	ginal ( <b>please select one</b> ):
Circular/Oval   Square/rectangular   No change in shape   Location of mesh replacement ( <i>please select one</i> ):   Sublay/pre-peritoneal/retro-rectus   Underlay/intra-peritoneal   Onlay   Route used to position mesh ( <i>please select one</i> ):   Through the main operative incision   Through the stoma trephine   Via a port   What shape was the hole in the mesh? Cruciate   Circular/oval   Sit None (Sugarbaker) None (Sugarbaker) No intervention in the mesh (in mm) Yes No intervention	3D/funnel	A. Cross-sectional anatomy of rectus sheath
Square/rectangular	Circular/Oval	Aponeurosis Cection above arcuate line of internal Anterior layer of lectus sheath Aponeurosis Rectus abdominis m. Skin Internal
No change in shape       Image: in shape       Image: imag	Square/rectangular	Aponeurosis of transversus
Location of mesh replacement (please select one):         Sublay/pre-peritoneal/retro-rectus         Underlay/intra-peritoneal         Onlay         Route used to position mesh (please select one):         Through the main operative incision         Through the stoma trephine         Via a port         What shape was the hole in the mesh?         Cruciate       Circular/oval         Slit       None (Sugarbaker)         What size was the hole in the mesh [in mm]         Mesh secured to abdominal wall (including sheath, muscle, peritoneum)       Yes       No	No change in shape	Peritoneum Posterior layer Fakciform ligament Subcutaneous tissue (fatty layer)
Sublay/pre-peritoneal/retro-rectus	Location of mesh replacement ( <i>please select or</i>	fascia fascia Section below arcuate line Anterior layer
Underlay/intra-peritoneal   Onlay   Route used to position mesh ( <i>please select one</i> ): Through the main operative incision Through the stoma trephine Via a port What shape was the hole in the mesh? Cruciate Circular/oval Slit None (Sugarbaker) Mesh secured to abdominal wall (including sheath, muscle, peritoneum) Yes No	Sublay/pre-peritoneal/retro-rectus	of internal Aponeurosis oblique m. of external abdominis m. Skin Transversus Internal
Onlay   Route used to position mesh ( <i>please select one</i> ): Through the main operative incision Through the stoma trephine Via a port What shape was the hole in the mesh? Cruciate Circular/oval Sit None (Sugarbaker) What size was the hole in the mesh [in mm] Mesh secured to abdominal wall (including sheath, muscle, peritoneum) Yes No	Underlay/intra-peritoneal	of transversus
Route used to position mesh (please select one):	Onlay	Peritoneum Transversalis fascia Medial umbilical Subcutaneous Estraperitoneal Urachus (in median Estraperitoneal Urachus (in median
Through the main operative incision   Through the stoma trephine   Via a port   Via a port   What shape was the hole in the mesh? Cruciate Circular/oval Slit None (Sugarbaker) What size was the hole in the mesh [in mm] Mesh secured to abdominal wall (including sheath, muscle, peritoneum) Yes No	Route used to position mesh ( <i>please select one</i>	
Through the stoma trephine	Through the main operative incision	mesh placement
Via a port     Sugarbaker)     What shape was the hole in the mesh?     Cruciate     Circular/oval     Slit   None (Sugarbaker)     What size was the hole in the mesh [in mm]     Mesh secured to abdominal wall (including sheath, muscle, peritoneum)     Yes     No	Through the stoma trephine	
Cruciate       Circular/oval       Slit       None (Sugarbaker)         What size was the hole in the mesh [in mm]	Via a port	
What size was the hole in the mesh [in mm]         Mesh secured to abdominal wall (including sheath, muscle, peritoneum)         Yes         No	What shape was the hole in the mesh?	
Mesh secured to abdominal wall (including sheath, muscle, peritoneum) Yes No	Cruciate Circular/oval	Slit None (Sugarbaker)
	What size was the hole in the mesh [in mm]	
Mesh secured to stoma serosa Yes No	Mesh secured to abdominal wall (including shea	ith, muscle, peritoneum) Yes No
	Mesh secured to stoma serosa	Yes No

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Patient Initials:	The CIPHER Study SURGICAL TECHNIQUE	CIPHER Study ID:
USE OF THE STOMA TREPHINE AS A	SPECIMEN EXTRACTION SITE	
Stoma trephine used as an extraction s	ite	Yes No
CLOSURE OF OTHER WOUNDS FOR	MED DURING THE PROCEDURE	
Main abdominal incision ( <b>please selec</b>	t one):	
Small bite closure		
Large bite closure		
N/A		
Biggest port size [in mm] (Only answer for laparoscopic or rob	ootic procedures, including procedure	es converted to open)
Closure of deep layer (Only answer for laparoscopic or rob verted to open)	ootic procedures, including proce-	Yes No dures con-
SPOUTING THE STOMA LUMEN		
Has the stoma been spouted		Yes No
COMMENTS		
Who has collated this data?		
GMC/NMC number:		
Date completed: / / / / /		