SECTION 1: INCLUSION, EXCLUSION & RANDOMISATION INFORMATION					
SUBJECT # _ _ - _ SITE #	_ _ _	_	_ _		
DEMOGRAPHIC INFORMATION					
Given name _ _ _ _ _	Family name			_ _ _	
Date of birth	Gender	Female		Male □	
Consent date	Date of surgery	_ / _		_ _ _	
INCLUSION & EXCLUSION CRITERIA			YES	NO	
Age ≥ 50 years					
Planned elective major intra-peritoneal surgery usin	a an onen suraical	technique	П		
Inability or refusal to provide informed consent	g an open cargical	toormiquo			
Anticipated requirement for invasive or non-invasive least four hours after surgery as part of routine care		ation for at			
Known or suspected pregnancy or planned obstetric					
Previous enrolment in the PRISM trial					
Current participation in another clinical trial of a trea mechanism or primary outcome measure					
Clinician refusal (concern specific to surgical procedure)					
Clinician refusal (other)					
Contraindication to continuous positive airway press					
		1			
Planned level of care on the first night after surg	jery		Tick		
Critical care unit level 3					
Critical care unit level 2					
Post-anaesthesia care unit					
Surgical ward					
RANDOMISATION CRITERIA			Tick	one	
Planned surgical procedure (single most approp	oriate)				
Resection of colon, rectum or small bowel]	
Resection of liver, pancreas or gall bladder					
Resection of stomach (non-obesity surgery)]			
Resection of oesophagus (non-obesity surgery					
Obesity surgery					
Vascular procedure					
Other intra-peritoneal surgery]	
Planned anaesthetic technique			YES	NO	
Planned use of epidural anaesthesia					
Randomisation should only take place of	once it is certain t	hat surgery w	vill take plac	ce	

SEC	CTION 2	: BEFORE SURGERY						
SUB	SUBJECT #					_ _		
CO-	MORBID	DISEASE					YES	NO
1.	Chronic	respiratory disease						
	Chro	onic obstructive pulmonar	y disease (COP	D)				
	Asth	ma						
	Inter	stitial lung disease or pul	monary fibrosis					
	Bron	chiectasis						
2.	Ischaen	nic heart disease						
3.	Diabete	s mellitus						
4.	Heart fa	ilure						
5.	Liver cir	rhosis						
6.	. Active cancer							
	If yes – is cancer the indication for surgery?							
		If yes - is the sur	gery intended to	be: ☐ curative	e or	□ pa	liative	
7.	Previou	s stroke or transient isch	aemic attack (TI	4)				
8.		smoker (within the last 1	• •					
9.	tubercul		•					
10.	Diagnos please t	sis of Human Immunodef lick 'no'.	iciency Virus (HI	V) infection? NB. If I	not tested			
	ER DET			Dagtanda				
	Number	_ _ - - - -	_ -	Postcode			-	
	oital ID	an Society of Anesthesiol	logists) physical	ototuo ologo				
ASA	Class	•	Class III	Class IV	Class V	<i>,</i> \Box		
Phys		surements	Olass III 🗆	Olass IV L	Ciass v			
	ht (cm):			Weight (kg):				
9	· ,	ting oxygen saturation (S	5pO ₂):			 _ %	<u> </u>	
Labo		lues (within 4 weeks before	,			Tick if N	OT meas	sured
Haer	noglobin	measurement		_ g/dL				

Creatinine measurement

Ethnicity (for eGFR)

 $|_|_|$ μ mol/L

Black or Afro-Carribean □

Other \square

SECTION 2	: BEFORE SURGERY			
SUBJECT#	-	SITE#	_ _	

PRE-OPERATIVE QUALITY OF	LIFE ASSESSMENT	
Date completed	_ / _ / _ _ _ (DD/MM/YYYY)	
Mobility please tick one box		
I have no problems in walking	about	
I have some problems in walkir	ng about	
I am confined to bed		
Self-care please tick one box		
I have no problems with self-ca	are	
I have some problems washing	or dressing myself	
I am unable to wash or dress n	nyself	
Usual Activities (e.g. work, stud	ly, housework, family of leisure activities) please tick of	ne box
I have no problems with perfor	ming my usual activities	
I have some problems with per		
I am unable to perform my usu	al activities	
Pain / Discomfort please tick one	e box	
I have no pain or discomfort		
I have moderate pain or discon	nfort	
I have extreme pain or discomf	ort	
Anxiety / Depression please tick	one box	
I am not anxious or depressed		
I am moderately anxious or de	pressed	
I am extremely anxious or depi	ressed	
	ad your health is today on a scale of 0 to 100, where jine is marked 100 and the worst health you can	

SECTION 3: DURING	SURGERY				
DECTION O. DOMING	OOKOLKI				
SUBJECT # <u> - </u> -		SITE#			
START OF SURGERY	DA	ATE: _ / _ (DD	/ TIME: _ /MMM/YYYY)	_ : (HR : MINS)	
SURGICAL PROCEDUR	E PERFORM	MED (single most	appropriate)	Tick o	ne
Resection of colon, rectu	m or small bo	owel	· · · · · ·		
Resection of liver, pancre	eas or gall bla	adder			
Resection of stomach (no	on-obesity su	rgery)			
Resection of oesophagus	s (non-obesity	y)			
Obesity surgery					
Vascular procedure					
Other intra-peritoneal surgery]	
SURGICAL TECHNIQUE				YES	NO
Open surgical technique	used during	surgery			
ANAESTHETIC TECHNI	QUE				
General Anaesthesia					
Epidural anaesthesia					
Spinal anaesthesia					
Did the patient have an e	ndotracheal	tube inserted?			
If YES, was the patien			perating room?		
MECHANICAL VENTILA					
Did the patient receive a			~ •		
Did the patient receive m			jery?		
If YES, please answer					
	•	ory pressure (PEEF	['])	_ CI	mH₂O
Maximum set tida	l volume (Vt)				ml
Maximum respirat	ory rate				min ⁻¹
Maximum FiO ₂ (e	xcluding pre-	oxygenation during	induction of anaesthesia)	_ _ _	_ %
INTRAVENOUS FLUIDS	DURING SU	JRGERY			
Total volume of intraveno	ous fluid adm	inistered excluding	blood products		_ mL
Total volume of blood pro	oducts admin	istered			_ mL

Date and time of the end of surgery

SUBJECT #	_ _ _	1	
CPAP AFTER SURGERY	YES	3	NO
Did the patient receive Continuous Positive Airway Pressure (CPAP) started within twelve hours after the end of surgery?			
If YES, please answer the following questions. If NO, please skip to n	ext section.		
Date and time patient started CPAP	_ (F	_ : IR:MI	_ _ NS)
Total duration of CPAP within twelve hours of the end of surgery	I_	_ (MIN:	<u> </u> S)
Maximum airway pressure received during this period	_	_	cmH ₂ O
Primary method of CPAP delivery (single most appropriate)			
Face mask			
Helmet device			
Nasal mask			
	YES		NO
Were extra research staff present to help deliver CPAP?			
Did the staff administering CPAP use equipment to monitor airway pressures?			
Did the staff administering CPAP use equipment to monitor the FiO ₂ ?			
Did the patient have a nasogastric tube in situ during CPAP?			
RESPIRATORY SUPPORT AFTER SURGERY	YES		NO
Did the patient receive any of the following within four hours of the end of surgery?			
Invasive mechanical ventilation			
Non-invasive mechanical ventilation			
High flow nasal oxygen therapy			
LEVEL OF CARE ON THE FIRST NIGHT AFTER SURGERY	Т	ick	one
Critical care unit level 3			
Critical care unit level 2			
Post-anaesthesia care unit			
Surgical ward			

SECTION 4: TRIAL INTERVENTION PERIOD

SECTION 5: 30-DAY FOLLOW-UP								
SUBJECT # _ -	_ _ _	SITE #	!			_		
Date of follow-up			_	/ <u> </u> (DD	/ -MMM-YYYY)	_ _ _		
All of the outcome	es in sectio	n 5 refer to 1	the time r	eriod with	in 30 days	s of rand	lomisatio	on.
Primary outcome	YES	NO			f yes, date)II
-	_			1 1	/			
Pneumonia	Ш	Ш		II-	(DD-MMN	I-YYYY)	_	
Endotracheal re-intubation				<u> </u>	/ _ (DD-MMN	/ _ /I-YYYY)	_ _	
Death	☐ Alive	□ Dead	Date of	death:	/ (DD-MMN	/ _ -YYYY)	_	
	,							
Respiratory complications	S		I	II	III	IV	V	NONE
Pneumonia								
Pleural effusion								
Pneumothorax								
Bronchospasm								
Aspiration pneumonitis								
Acute Respiratory Distress	Syndrome (ARDS)						
Infective complications			I	II	III	IV	V	NONE
Surgical site infection (supe	rficial)							
Surgical site infection (deep)							
Surgical site infection (organ	n space)							
Urinary tract infection								
Infection, source uncertain								
Laboratory confirmed blood stream infection								
F								
	Please refer to the protocol appendix for specific definitions of complications. Please grade complications using the Clavien-Dindo scale as follows:							

- I. Any deviation from the normal postoperative course without the need for pharmacological, surgical, endoscopic or radiological intervention. Anti-emetics, anti-pyretics, diruetics, electrolytes or physiotherapy are not considered a deviation from the normal postoperative course.
- II. Requires pharmacological treatment with drugs (including blood transfusion or total parenteral nutrition) other than those excluded from grade I.
- III. Requires surgical, endoscopic or radiological intervention.
- IV. Life-threatening complication (including CNS complication, but excluding transient ischaemic attack) requiring critical care admission
- V. Death

SECTION 5: 30-DAY FOLLOW-UP										
SUBJECT#	_ - - -	SITE#	#					.		
					1	ı				
Cardiac com	•		ı		II	III	I۱	/	V	NONE
Myocardial in	farction]						
Arrhythmia										
	oulmonary oedema									
Cardiac arres	t with successful resuscit	tation]		
Other compl			I	-	II .	III	1\	/	V	NONE
Acute kidney	• •]						
Pulmonary er	mbolism									
Stroke										
. ,	osis or delirium]						
Bowel infarction]]		
Anastomotic leak]]		
Perforation of viscus (e.g. bowel, gall bladder etc)										
Postoperative	e haemorrhage		ī				,			
Gastro-inte	estinal bleed									
Other post	toperative haemorrhage]		
Any other co	omplication, <i>please give c</i>	details here:]						
										•
Additional tr	reatments							,	YES	NO
Blood transfu	ısion									
Parenteral (ir	ntra-venous) nutrition									
Endoscopy o	r interventional radiology	procedure								
Repeat surge	ery									
If YES,	please indicate the reas	on for repeat	surge	ry						
Infection										
	Bleeding									
	Anastomotic leak									
	Other									
Invasive med	chanical ventilation after l	eaving the op	eratin	g ro	om					
	what was the total durat					tion?			 _	_ hours
Non-invasive mechanical ventilation after leaving the operating room										

If YES, what was the total duration of non-invasive mechanical ventilation?

|__|_| hours

SECTION 5	: 30-DAY FOLLOW-UI	P	
SUBJECT#	_ - - - -	SITE#	

Was the participant admitted to a critical care unit? NB. If 'no', move to the next section.			
Was the critical care admission to treat a complication?			
Was a planned critical care admission prolonged by a postoperative complication?			
What was the total duration of the level 2 critical care stay within 30 days of randomisation?	_ _	days	
What was the total duration of the level 3 critical care stay within 30 days of	_ days		
randomisation?		days	
	YES	l days NO	
randomisation?	YES	. ,	
randomisation? Details of the hospital stay	YES	NO	
randomisation? Details of the hospital stay Duration of primary hospital admission (from randomisation)	YES	NO	
Details of the hospital stay Duration of primary hospital admission (from randomisation)	YES	NO	

The self-assessment of blinding should be completed by the investigator that collects the 30-day follow up data. This assessment only applies to data collection at this time point.

Patients admitted to a critical care unit

I may have known the study group allocation

I definitely knew the study group allocation

YES

NO

SECTION 5	: 30-DAY FOLLOW-UI	•		
SUBJECT#	_ - - -	SITE#	_ _	

QUALITY OF LIFE ASSESSMENT AT 30 DAYS AFTER RANDOMISATION				
Date completed	_ / _ / _			
Mobility please tick one				
I have no problems in walking a	about			
I have some problems in walkir	ng about			
I am confined to bed				
Self-care please tick one				
I have no problems with self-ca	are			
I have some problems washing	g or dressing myself			
I am unable to wash or dress n	nyself			
Usual Activities (e.g. work, stud	ly, housework, family of leisure activities) please tick o	ne		
I have no problems with perfor	ming my usual activities			
I have some problems with per				
I am unable to perform my usu	al activities			
Pain / Discomfort please tick one	e			
I have no pain or discomfort				
I have moderate pain or discon	nfort			
I have extreme pain or discomf	ort			
Anxiety / Depression please tick	cone			
I am not anxious or depressed				
I am moderately anxious or de	pressed			
I am extremely anxious or depr	ressed			
	ad your health is today on a scale of 0 to 100, where jine is marked 100 and the worst health you can			

SECTION 6: ONE-YEAR FOLLOW-UP					
SUBJECT#	-	SITE#		_ _	
				•	
Date of follo	Date of follow-up _ _ / _ _ / _ _ (DD-MMM-YYYY)				
Patient status on date of follow-up					
QUALITY OF	LIFE ASSESSMENT				
Mobility plea	se tick one				
I have no p	problems in walking abou	t			
I have som	ne problems in walking at	oout			
I am confir	ned to bed				
Self-care ple	ase tick one				
I have no problems with self-care					
I have some problems washing or dressing myself					
I am unable to wash or dress myself					
Usual Activit	ties (e.g. work, study, h	ousework, family	of leisure activities) please tick	k one	
I have no problems with performing my usual activities					
I have some problems with performing my usual activities					
I am unable to perform my usual activities					
Pain / Discor	Pain / Discomfort please tick one				
I have no pain or discomfort					
I have moderate pain or discomfort					
I have extreme pain or discomfort					
Anxiety / Depression please tick one					
I am not anxious or depressed					
I am moderately anxious or depressed					
I am extremely anxious or depressed					
Please indicate how good or bad your health is today on a scale of 0 to 100, where the best health you can imagine is marked 100 and the worst health you can imagine is marked 0.					

SUPPLEMETARY FORM: WITHDRAWAL				
SUBJECT#	_ - - - -	SITE#		

ONLY COMPLETE THIS FORM IF THE PARTICIPANT PREMATURELY STOPPED THEIR PARTICIPATION IN THE TRIAL OR IF THEY COULD NOT BE CONTACTED

Date the patient prematurely discontinued study participation:	_ / _ / _ (DD-MMM-YYYY)
What was the primary reason for the discontinuation of the study?	 ☐ Inclusion/Exclusion criteria not fulfilled ☐ Surgical procedure abandoned ☐ Adverse event related ☐ Patient initiated ☐ Other, specify:
In the case of patient withdrawal, please check:	 □ The participant agrees that any data collected up to the date of withdrawal can still be used. □ The patient would like their data removed from the database.

SUPPLEMENTARY FORM: ADVERSE EVENT DURING CPAP				
SUBJECT#	_ - - -	SITE#	_	

ONLY COMPLETE THIS FORM IF THE PATIENT EXPERIENCED AN ADVERSE EVENT DURING CPAP

In the case of multiple adverse events, please complete a separate form for each one.

ADVERSE EVENT RELATED TO CPAP FORM – PAGE 1	NO	YES			
Did the patient experience an adverse event related to Continuous Positive Airway Pressure (CPAP) that was delivered as part of the PRISM trial?					
If YES, please answer the following questions.					
Date and time of onset of adverse event _/ / _ _ _ (DD/MMM/YYYY)	_ : (HR:M	_ INS)			
Adverse Event	NO	YES			
Interface intolerance due to excessive air leak					
Pain					
Cutaneous pressure area					
Claustrophobia					
Oronasal dryness					
Hypercapnia					
Haemodynamic instability					
Vomiting					
Aspiration of gastric contents					
Other:					
Response to adverse event	Tick	one			
CPAP was <i>unchanged</i>					
CPAP was <i>modified</i>					
CPAP was stopped					
Outcome of adverse event	NO	YES			
If YES to any option below, please notify the PRISM trial coordinating centre within 24 hours by email.					
Death					
Life-threatening complication					
Prolonged hospital stay					
Significant disability or incapacity					

SUBJECT#	- - - -	SITE#	l <u></u> l		
ADVERSE E	VENT RELATED TO CP	AP FORM - PAGE	2		
Please descr	ibe the adverse event, in	cluding any treatme	ent or me	edication required.	
				·	
					ļ
Name and sig	gnature:			Date:	

SUPPLEMENTARY FORM: ADVERSE EVENT DURING CPAP

SUPPLEMENTARY FORM: PROTOCOL DEVIATION				
SUBJECT#	_ - - - _	SITE#	_	

ONLY COMPLETE THIS FORM IT THERE IS A PROTOCOL DEVIATION	214				
Participant in the intervention group did NOT receive CPAP					
NB. This includes instances where CPAP is started more than twelve hours after the end of surgery. If CPAP was administered, but for only a brief duration, please record this in the next section below.					
Please indicate the reason					
CPAP was not offered					
Participant remained intubated after surgery					
Inadequate staffing or process issues					
Participant or clinician refusal					
Participant was too unwell to receive CPAP					
Equipment failure					
Other (please state):					
CPAP administered for less than 4 hours duration					
NB. This includes instances where CPAP was administered, but only for a brief duration	on				
Please indicate the reason					
Participant or clinician refusal					
Inadequate staffing or process issues					
Participant too unwell to continue with CPAP					
Equipment failure					
Other (please state):					
CPAP administered with significant interruption					
NB. Brief interruptions to adjust mask, or for oral/nursing care are considered part of the intervention and do not require a protocol deviation form to be completed					
Please indicate the reason					
Participant or clinician refusal					
Inadequate staffing or process issues					
Participant too unwell to continue with CPAP					
Equipment failure					
Other (please state):					

SUPPLEME	SUPPLEMENTARY FORM: PROTOCOL DEVIATION					
SUBJECT#	_ - - - - - - - - - - - - - - - - -	SITE#	_ _			
	d at a dose other than 5	5cmH₂O				
	ate the reason					
	unication error					
Decisio	n by clinical staff					
Other (p	please state):					
Participant in	n the usual care group	DID receive CPAF				
	ite the reason					
Randor	misation					
Commu	unication error		-			
Decisio	n by clinical staff					
Other (p	please state):					
Other protoc	ol deviation					
Other (please	state):					
PROTOCOL	DEVIATION					
	be the protocol deviation.					
Name and sig	 gnature:			Date:		