

PATIENT ID

Case Report Form

Version Control

Version	Date	Changes	
2.3	12/08/20	New questions: 2.14b; 2.44; 7.3; 7.4. Option of video call added to 2.6. Option of packed red blood cells	
		transfusion added to 3.13.	
2.2	17/02/20	N0 and M0 options added to 2.4a.	
2.1	11/02/20	Changes made to dataset. Some question numbers may have changed.	
		New/altered questions: 1.8; 2.4a; 2.4b; 2.34; 2.35; 3.2; 3.13; 6.18; 6.19; 7.2.	
		Questions removed: 3.1; 3.2.	
2.0	06/03/19	Changes made to dataset. Some question numbers may have changed. New or modified questions	
		highlighted. Question on smoking cessation removed (formerly Q2.31).	

Enclosed are the questions for clinicians or researchers to complete for each patient participating in this study. Question numbers may not increment sequentially as some questions may not be applicable to your hospital. You may modify this cover page to include your hospital logo and contact details. We have provided a Standard Operating Procedures (SOP) document to assist in the correct completion of this form. Please ensure that the answers are transferred to the online web-tool as soon as possible and store the booklet in the secure PQIP file at your hospital.



Item	Question	Response
Patient der	mographics	
1.1	Patient ID number (local):	
1.2	Surname:	
1.3	First name:	
1.4	Date of birth:	/(DD/MM/YYY)
1.5	Gender:	Male
		Female
Address de	etails	
1.6	Post code:	
1.7	Usual residence:	☐ Own home
		Care home
1.8	Date of consent:	/(DD/MM/YYY)
Surgical ac	dmission	
1.9	Date of hospital admission:	/(DD/MM/YYY)
1.10	Date of surgery:	/(DD/MM/YYY)
ID numbers	S	
1.12-1.13	NHS / CHI / H&C number:	(10 digits)
1.14	Height:	(cm)
1.15	Weight:	(kg)
Patient follo	ow-up	
1.21	Patient's preferred method of contact:	☐ E-mail:
		Telephone:
	This should be indicated on the completed consent form.	☐ No preference – provide both
1.21	Would patient like to receive e-mail updates from the PQIP study team?	☐ Yes ☐ No
1.22	Enrolment in other studies:	☐ Yes ☐ No ☐ Not known
		☐ ERAS+ ☐ PRISM ☐ OPTIMISE II ☐ GSK Oesophagectomy study ☐ Prevention-HARP2 ☐ PREPARE-ABC ☐ Other:



Item	Question	Response		
Pre-operative data				
2.1	Surgical specialty:	Abdominal – Hepatobiliary Abdominal – Lower Gl Abdominal – Other Abdominal – Upper Gl Burns & Plastics Gynaecology Head & Neck Orthopaedics Spinal Thoracics Urology Vascular		
2.2a	Planned operation: Check eligibility with Procedure List on PQIP web site.			
2.2b	Planned mode of procedure: Select all that apply.	☐ Open ☐ Laparoscopic ☐ Robotic ☐ Thoracoscopic		
2.2c	Is this surgery part of a multistage procedure?	☐ No ☐ Yes If yes, what was the date of the final stage?//(DD/MM/YYY)		
2.3	Urgency of surgery:	☐ Elective ☐ Expedited ☐ Urgent ☐ Immediate		
2.4	Cancer surgery:	☐ Yes If yes, answer Q2.4a-b ☐ No If no, proceed to Q2.5		
2.4a	Preoperative TNM staging	i. T:		
2.4b	Neoadjuvant chemotherapy	☐ Yes ☐ No ☐ Not known		
2.5	Enhanced recovery:	Yes No Not known		



Item	Question	Response
2.6	Pre-operative assessment (before hospital admission):	 None Electronic Telephone / Video Face to face: nurse or anaesthetist led Face to face: surgeon-led Other:
2.7	Sodium:	(mmol/L) Not measured
2.8	Potassium	(mmol/L) Not measured
2.9	Urea:	(mmol/L) Not measured
2.10	Creatinine:	(µmol/L) Not measured
2.12	Albumin:	(g/L) Not measured
2.13	White cell count:	(x10°/L) Not measured
2.14	Haemoglobin:	(g/dL) Not measured
2.14b	Ferritin:	(micrograms/L) Not measured
2.15	Pulse rate:	(bpm)
2.16	Systolic BP:	(mmHg)
2.17	Glasgow Coma Scale: See SOP for details.	(total, out of 15)
2.18	Oxygen saturation:	(%)
2.19	Option which best describes the ECG findings:	 No abnormalities AF rate 60-90 AF rate >90/any other abnormal rhythm/paced rhythm/ >5VE/min/ Q, ST or T wave abnormalities Not done
2.20	Option which best describes the cardiac history/findings:	 No failure Diuretic, digoxin, antianginal or antihypertensive Peripheral oedema, warfarin therapy or borderline cardiomegaly Raised jugular venous pressure or cardiomegaly
2.21	NYHA heart failure classification: See SOP for details.	
	Total actuals.	□ IV



Item	Question	Response
2.22	Option which best describes the respiratory history/findings:	 No dyspnoea □ Dyspnoea on exertion or CXR: mild COPD □ Dyspnoea limiting exertion to <1 flight or CXR: moderate COPD □ Dyspnoea at rest/rate > 30 at rest or CXR: fibrosis or consolidation
2.23	Respiratory infection in the last month:	☐ Yes ☐ No
2.24	Cerebrovascular disease:	NoYes – no hemiplegiaYes – with hemiplegia
2.25	Current cancer diagnosis or in remission for <5 years:	 No Yes – solid tumour; local only Yes – solid tumour; metastatic disease (including lymph node) Yes – Lymphoma Yes – Leukaemia
2.26	Dementia:	☐ Yes ☐ No
2.27	Diabetes:	 No Type 1 Type 2 (on insulin) Type 2 (Diet controlled only) Type 2 (Non-insulin glucose lowering medication)
2.28	HbA1c:	(%) Not measured Conversion calculator on PQIP web site.
2.29	Liver disease	 No Yes – cirrhosis or Hep B/C WITHOUT portal hypertension Yes – cirrhosis or Hep B/C WITH portal hypertension
If yes, please specify:		
2.29a	Liver disease type:	☐ Hep B☐ Hep C☐ Alcohol-related☐ Non-alcoholic steatosis
2.29b	Child-Pugh Grade: See SOP for details.	A B C Don't know



Item	Question	Response
2.30	ASA grade:	
		2
		3
	0.000	<u></u>
0.01	See SOP for details.	5
2.31	Was preoperative CPET performed?	□ No □ Yes
If yes:		
2.31a	VO ₂ Peak Indexed:	(ml/kg/min)
2.31b	Anaerobic Threshold (AT) Indexed:	(ml/kg/min)
2.31c	VE/VCO ₂ at AT:	
2.31d	Max work rate:	(Watt)
2.31e	Max heart rate:	(bpm)
2.31f	Max oxygen pulse:	(ml/beat)
2.31g	FEV ₁ /FVC:	(%)
2.32	Smoking history:	☐ Never smoked
		Ex-smoker > 6 months
		Ex-smoker <6 months
		Current smoker
		Unknown
2.33	Current alcohol consumption:	
	Consomption.	0-2 AU/day 3-4 AU/day
		>5 AU/day
		Not known
2.34	Documented	Yes – Qualitative (e.g. low / medium / high)
	individualised assessment	Yes – Quantitative (e.g. percentage risk of death /
	of perioperative risk:	complications)
		Both
		No
2.35	Planned postoperative	☐ Ward care
	destination:	Level 1 care
		Enhanced care
		Level 2 care Level 3 care
		□ revera care



Item	Question	Response	
Surgical admission			
2.36	Received bowel preparation:	Yes No Not applicable	
		i. If yes, please specify:	
2.37	Preoperative carbohydrates given on day of surgery:	☐ Yes☐ No☐ Not known	
Anaemia tre	eatment		
2.42	Anaemia treatment in the last 3 months prior to surgery:	 None □ Intravenous Iron □ EPO □ Blood transfusion of packed red blood cells 	
Frailty score	•		
2.43	Rockwood Clinical Frailty Score:	 Very fit (1) Managing Well (3) Mildly Frail (5) Severely Frail (7) Well (2) Vulnerable (4) Moderately Frail (6) Very Severely Frail 	
	See SOP for details.	(8)	
COVID-19			
2.44	Has the patient had suspected or confirmed COVID-19 infection before this hospital admission?	No - confirmedNo - presumedYesSuspected	
	See SOP for details.		
If yes/suspe	cted:		
2.44a	Please state or estimate the date of symptom onset:	//(DD/MM/YYY)	
If yes:			
2.44b	What level of treatment did the patient have?	 ☐ Home care only ☐ Hospitalised – O₂ only ☐ Hospitalised – CPAP/NIN/HFNO ☐ Hospitalised – mechanical ventilation 	



Item	Question	Response			
Operative o	Operative data				
3.1	Compliance with induction antibiotic protocol:	☐ Yes (within 60min of skin incision ☐ No	on)		
3.2	Select which anaesthetic techniques were utilised: Select all that apply.	General Anaesthesia Spinal Epidural Combined spinal and epidural Single shot regional block(s) [in paravertebral & TAP] Wound catheter infiltration (to Local anaesthetic infiltration to Oral gabapentinoids IV paracetamol IV opioids IV dexmedetomidine Intravenous analgesia	ncluding o continue post-op)		
3.2i	If GA:	☐ Inhalational – Desflurane ☐ Inhalational – Isoflurane ☐ Inhalational – Sevoflurane ☐ Inhalational – Other: ☐ Inhalational – Nitrous oxide ☐ IV Propofol infusion ☐ IV remifentanil infusion			
3.3	Select intra-operative monitoring (in addition to standard AAGBI monitoring):	Central venous catheter Arterial line Cardiac output monitor Depth of anaesthesia Temperature probe Peripheral nerve stimulator None Urinary catheter			
3.4	Warming devices:	 No warming device IV fluid warmer Forced-air warming device Underbody resistive heating Missing data Other: 			



Item	Question	Response		
Operative fi	Operative findings			
3.5	Including this procedure, number of operations the patient has had in the past 30 days:	□ 1 □ 2 □ >2		
3.6	Actual procedure was same as planned procedure:	☐ Yes ☐ No		
If no:				
3.7a-b	Actual surgical specialty and operation:			
3.7c	Actual mode of surgery:			
3.8a	Actual procedure (secondary):			
3.8b	Sub-group:			
3.8c	Description:			
3.9	Surgical incision:	☐ Thoracic ☐ Upper abdominal ☐ Lower abdominal ☐ Other / Laparoscopic / Thoracoscopic		
3.10	Blood loss:			
3.11	Intra-abdominal / intra- thoracic findings:	Not applicable None Serous fluid Localised pus Free bowel content / pus / blood Missing data		
3.12	Duration of surgery and anaesthesia:	☐ <2 hours ☐ 2-3 hours ☐ >3 hours		
3.13	Did the patient receive any of the following treatments during anaesthesia and surgery?	i. Tranexamic acid: Yes No ii. Bolus vasopressor / inotrope: Yes No iii. Infusion of vasopressor / inotrope (for any duration): Yes No iv. Transfusion of packed red blood cells: Yes No		



Item	Question	Response
Postoperati	ve destination	
3.14	Actual postoperative destination:	Ward careLevel 1 careEnhanced careLevel 2 careLevel 3 care
3.15	If different from planned care destination, why?	 Not applicable – patient transferred to planned care destination No higher level care bed available No lower level care bed available Operation lower risk than expected Operation higher risk than expected Operation palliative (unexpected) Other / further information:
Recovery c	are	
-		a higher-level care facility postoperatively then the as the immediate three hours postoperatively.
4.1	First core temperature on arrival from theatres ≥36°C:	☐ Yes ☐ No
4.2	Abdominal drain present on arrival from theatres:	☐ Yes ☐ No
4.3	Nasogastric tube present on arrival from theatres:	☐ Yes ☐ No
4.4	Highest pain score during recovery stay:	 None Mild Moderate Severe Unable to ascertain – Sedated Unable to ascertain – Other:

Item	Question	Response			
Postoperat	Postoperative visit on day 2 or day 3				
Answer these questions with regard to the patient's status on post-operative day 1 (within 2 hours from completion of surgery). These assess achievement of the enhanced recover objectives of the CHEERS-DREAM campaign.					
5.1	Maintenance IV fluids discontinued within 24hr of surgery ending:	☐ Yes ☐ No			
5.2	Started drinking (free fluids) within 24hr of surgery ending:	☐ Yes ☐ No			
5.3	Started eating (at least soft diet) within 24hr of surgery ending:	☐ Yes ☐ No If no, did patient receive supplementary nutrition within 24hr of surgery ending? ☐ Yes ☐ No			
5.3i	What type of supplementary nutrition?	☐ Enteral ☐ Parenteral (TPN) ☐ Other			
5.4	Mobilising from bed to chair with max assistance of one person within 24hr of surgery ending:	☐ Yes ☐ No			
Day 7 post	operatively				
6.1	Patient still in hospital:	☐ Yes ☐ No			
If yes, answ	ver all of the following question	ns. If no, proceed to answer Q6.18.			
6.2	If yes, Current location:	<pre>Ward care</pre>			
Post-Opero	ative Morbidity Survey	(See SOP for advice on completion)			
6.3	Pulmonary	New requirement for O₂ therapyNew requirement for respiratory supportNone of the above			
6.4	Infection	☐ Currently on IV antibiotics ☐ Temperature >38°C in past 24hr ☐ None of the above			
6.5	Gastrointestinal	☐ Unable to tolerate enteral diet (oral / tube feed) ☐ Nausea, vomiting or abdominal distension in past 24hr ☐ None of the above			



Item	Question	Response
6.6	Renal	☐ Oliguria (<500ml/24hr) in past 24hr ☐ In past 24hr, serum creatinine >30% of pre-op level ☐ In past 24hr, urethral catheter in-situ (not present pre-op) ☐ None of the above
6.7	Cardiovascular	 ☐ Hypotension in past 24hr requiring >200ml fluid bolus / pharmacological therapy ☐ New myocardial infarction / ischaemia in past 24hr ☐ Thrombotic event requiring anticoagulation in past 24hr ☐ Arrhythmia in past 24hr ☐ Cardiogenic pulmonary oedema in past 24hr ☐ None of the above
6.8	Neurological	 New neurological deficit in past 24hr □ Delirium / confusion in past 24hr □ Sedative-induced coma in past 24hr □ Non-sedative associated coma in past 24hr □ None of the above
6.9	Wound	 ☐ Wound dehiscence requiring surgical exploration in past 24hr ☐ Drainage of pus from operative wound, wound ooze or swab taken in past 24hr ☐ None of the above
6.10	Haematological	Red cell transfusion in past 24hr Fresh frozen plasma / cryoprecipitate / platelets in past 24hr None of the above
6.11	Surgical pain in past 24hr significant enough to require:	☐ Parenteral opioids ☐ Regional anaesthesia ☐ None of the above
6.12	In past 24hr patient has returned to baseline level of mobility:	☐ Yes ☐ No
6.13	Reason(s) why still requiring hospital admission:	 Medical / nursing care Mobility issue Awaiting social package to be set up Awaiting occupational therapy review Organisational failure (e.g. transport not booked) None of the above



Item	Question	Response	
6.18a	Was creatinine value recorded after surgery (up to 7 days post-operatively)?	☐ Yes ☐ Patient has chronic renal replacement therapy (RRT) ☐ Not recorded	failure with renal
6.18i	If yes, what is the highest creatinine value recorded within 7 days after surgery?	(µmol/L)	
6.18b	Required new renal replacement therapy (RRT) in last 7 days:	☐ No ☐ Yes (exclude patients on	chronic RRT)
6.19	For Oesophagectomies only: Was a Gastrografin (or similar) swallow undertaken?	☐ Yes If yes, what date? / ☐ No	_/(DD/MM/YYY)
Death, disc	harge or withdrawal		
7.1	Discharge destination:	☐ Own home ☐ Died ☐ Rehabilitation facility	Care home Withdrawn from study Other hospital
7.1a-c	Date of discharge / death / withdrawal:	/(DD)/MM/YYY)
7.1ai	On discharge from hospital, has patient been prescribed an opioid (including tramadol)?	☐ On opioids preoperativel discharged with an opioid pure operativel discharged without an opioid pure opioid prescription (pure opioid pure opioid prescription (pure opioid pure opioid pur	orescription y and has been id prescription reviously opioid naïve)



Item	Question	Response		
Clavien-Dindo grade of complication				
7.2 Grade level of complications experienced by the patient:	☐ None ☐ I – Any deviation from the normal postoperative course without the need for pharmacological treatment or surgical, endoscopic or radiological interventions. ☐ II – Requiring pharmacological treatment with			
	The treatments allowed for Grade I include: analgesic, antipyretic, antiemetic, and antidiarrheal drugs or drugs required for lower urinary tract infection. Grade II includes TPN, blood transfusion and any other drugs not included in Grade I. If the patient experienced multiple complications, please list each grade experienced.	drugs other than those allowed for Grade I complications. Blood transfusions and Total Parenteral Nutrition (TPN) also included. III – Requiring surgical, endoscopic or radiological intervention: IIIA – Intervention not under general anaesthesia. IIIB – Intervention under general anaesthesia. IV – Life threatening complications (including CNS complications) requiring critical care management: IVA – Single organ dysfunction (including dialysis). IVB – Multi-organ dysfunction. V – Death.		
If Grade II o	or above:			
7.2a	Was patient treated for a suspected postoperative infection?	 None Surgical site infection Chest Urine / renal tract Neurological Empirical – patient unwell with suspected infection, but source unclear 		
7.2b	Other complications:	□ None □ Cardiovascular □ Respiratory - please specify: □ Mild □ Moderate □ Severe □ Venous thromboembolism □ Gastrointestinal □ Stroke □ Delirium □ Renal replacement therapy		



Item	Question	Response	
COVID-19	status		
7.3	Please indicate the patient's SARS-CoV-2 / COVID-19 infection status for this admission. Choose one option only.	 □ Confirmed Covid positive at time of surgery □ Suspected Covid positive at time of surgery □ Covid positive during hospitalisation; indeterminate timing of infection □ Nosocomial infection □ Covid negative □ Covid status unknown □ Unable to answer 	
Post-opera	Post-operative blood transfusion		
7.4	Did the patient receive any transfusions of packed red blood cells postoperatively?	☐ Yes ☐ No	

