



Standard Operating Procedures

Version Control

Version	Date	Changes
2.3	23/10/23	Changes made to dataset according to CRF, some question numbers may have also changed.
2.2	12/08/20	New questions: 2.14b; 2.44; 7.3; 7.4. Updated explanation of procedure mode in 2.2b. Option of packed red blood cells transfusion added to 3.13.
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. Question numbers may not increment sequentially as some questions may not be applicable to your hospital. New or modified questions highlighted. Question on smoking cessation removed (formerly Q2.31).

Introduction

The Perioperative Quality Improvement Programme (PQIP) was set up in 2016 by the Health Services Research Centre at the Royal College of Anaesthetists. It is an NIHR portfolio adopted research study supported by UCL (the sponsor), and the Royal College of Anaesthetists, UCL NIHR Surgical Outcomes Research Centre and Health Foundation (funders).

Our aim is to improve the outcomes of patients undergoing major non-cardiac surgery. PQIP measures complications, risk-adjusted mortality and patient reported outcomes on a random sample of five cases per week so we can try to reduce complication rates, improve patient experience and quality of life after surgery.

We have constructed a dataset which we would like you to complete for each patient participating in this study. As there can be many interpretations of questions we have provided this document, a standard operating procedure (SOP) for the PQIP dataset, to provide guidance on correct completion of the form.

Please note that this SOP refers only to the questions that are to be completed by the clinicians or researchers and not by patients themselves.

As you complete the questions in the web-tool, the menu bar will change colour to highlight your progress: blue for empty or unsaved sections; red for sections with errors; orange for incomplete sections requiring further data entry; green for fully completed sections.

If you have any questions please contact the PQIP team at pqip@rcoa.ac.uk

Thank you for your support.

Patient demographics	
1.1	Enter the patient's local hospital ID number .
1.2	Enter the patient's surname .
1.3	Enter the patient's first name as registered on the hospital system.
1.4	Enter the patient's date of birth in the format 'DD/MM/YYYY'.
1.5	Select the patient's biological sex .
Address details	
1.6	Enter the patient's current postcode – enter the outward code (1 st part) in the first box and the inward code (2 nd part) in the second box.
1.7	Select one of the options that best describes the patient's usual residence: <ul style="list-style-type: none"> • Own home owned outright (without mortgage) • Own home with help of mortgage or loan • Own home shared ownership (part rent and part mortgage) • Private home rented • Private home rent free (including rent free in a relative or friends property, excluding squatting) • Care home – residential or nursing home where assisted living is provided.
1.8	Enter the date that patient consent was obtained in the format 'DD/MM/YYYY'.
Surgical admission	
1.9	Enter the patient's date of admission to hospital for this procedure in the format 'DD/MM/YYYY'.
1.10	Enter the patient's date of surgery in the format 'DD/MM/YYYY'.
1.11	Patient's age on data of surgery is automatically calculated in years and months.
ID numbers	
1.12-1.13	For Scottish hospitals , enter the patient's CHI (Community Health Index) number . For hospitals in Northern Ireland , enter the patient's Health and Care (H&C) number . For hospitals in the rest of the UK enter the patient's NHS (National Health Service) number . All numbers contain 10 digits.
1.14	Enter the patient's height in centimetres (cm).
1.15	Enter the patient's weight in kilograms (kg).
1.16-1.18	The patient's body surface area (BSA) , body mass index (BMI) and ideal body weight (IBW) will be automatically calculated by the web-tool.
Linked data	
1.19-1.20	Linked data on mortality and unplanned hospital re-admission will be automatically filled in by the web tool as these data become available.
Patient follow-up	
1.21	Indicate how the patient would prefer to be contacted in 6 and 12 months' time to complete the follow-up questionnaires. This should be indicated on the completed

	consent form. Patients can also opt in or out to receive e-mail updates from the PQIP study team, approximately once per year. If the patient has chosen to be contacted by e-mail, the webtool will automatically record if reminders have been sent to the patient.
Pre-operative data	
Several of these questions form part of the P-POSSUM risk scoring tool which assigns increasing weight as you descend the tick box options or as a numeric value changes. Some questions have pre-defined wording and criteria which cannot be adjusted. Where this occurs, we have provided further explanation below in an attempt to remove any ambiguity. Please note the acceptable value ranges for questions 2.7-2.16. In the case of extreme values outside this range please double check. If you believe it to be correct then please round to the nearest acceptable value.	
2.1-2.2a	Select the surgical specialty and planned procedure from the lists provided. The eligible specialties and procedures are listed on the Procedure List available from the PQIP web site. The magnitude of surgery will be automatically generated from the choices made in questions 2.1–2.2. Surgical magnitude is determined using the AXA-PPP schedule of procedures and is the same as that used in the Surgical Outcome Risk Tool (SORT) (www.sortsurgery.com).
2.2b	Select the mode(s) of surgery that apply to this operation: open; laparoscopic; robotic; thoracoscopic. The mode of surgery doesn't necessarily reflect the orifice of entry. It may be open (an incision) or minimally-invasive using the assistance of a camera (laparoscopic if its entering the abdomen/pelvis (including via the rectum) or thoracoscopic if entering the chest) or robot-assisted (minimally invasive surgery using a surgical robot).
2.2c	Indicate if this surgery is part of a planned multistage procedure . If so, enter the date of the final stage in the format 'DD/MM/YYYY'. This may result in the record not being locked until the final stage has occurred. This will allow us to contact the patient to complete their questionnaires at 6 and 12 months after the final procedure. We would suggest that you record the first stage procedure within the PQIP webtool.
2.3	PQIP is currently only collecting data on patients having planned surgery. Choose from the following: <ul style="list-style-type: none"> • Expedited – Patient requiring early treatment where the condition is not an immediate threat to life, limb or organ survival. Normally within days of decision to operate. This might include urgent cancer surgery for example. • Elective – Intervention planned or booked in advance of routine admission to hospital. Timing to suit patient, hospital and staff.
2.4	State whether the indication for surgery is a cancer diagnosis .
2.4a	If this is cancer surgery, indicate the pre-operative staging using the TNM classification .
2.4b	If this is cancer surgery, indicate whether neoadjuvant chemotherapy was received pre-operatively.

2.5	Indicate if the patient is on an enhanced recovery pathway . This includes any protocolised pathway aimed at improving patient outcome and reducing length of stay.
2.6	Select one or more options from the list which best describe the form of preoperative assessment undertaken prior to hospital admission . Free text available if 'other' chosen. For the purposes of PQIP, assessment on the morning of surgery or an admission clerking would not be considered pre-admission pre-operative assessment.
2.7	Enter the patient's most recent serum sodium prior to surgery in mmol/L [range 105-165].
2.8	Enter the patient's most recent serum urea prior to surgery in mmol/L (to one decimal place) [range 1.5-30; if outside this range please round to the nearest acceptable value].
2.9	Enter the patient's most recent serum creatinine prior to surgery in µmol/L [any value up to 999 acceptable].
2.11	Enter the patient's most recent serum albumin prior to surgery in g/L [range [10-60].
2.12	Enter the patient's most recent white cell count prior to surgery in x10 ⁹ /L (to one decimal place) [range 0-30; if outside this range please round to the nearest acceptable value].
2.13	Select whether the patient has received any treatment for anaemia in the 3 months prior to surgery
2.14	Enter the patient's most recent haemoglobin prior to surgery in g/dL (to one decimal place) [range 5-22; if outside this range please round to the nearest acceptable value].
2.14a	Select whether this Hb measurement was before, during or after anaemia treatment
2.15	Enter the patient's most recent serum ferritin level prior to surgery in micrograms/L (to one decimal place) [range 0-400; if outside this range please round to the nearest acceptable value].
2.15a	Select whether this Ferritin measurement was before during or after anaemia treatment
2.16	Enter the patient's pulse rate in beats per minute (bpm) [range 30-199].
2.17	Enter the patient's systolic blood pressure in mmHg [range 55-250].
2.18	Enter the patient's oxygen saturations (%) measured in the supine position and after resting for one minute. If the patient is on supplemental oxygen please remove for 10 minutes and then measure oxygen saturations at rest.
2.19	Select if the patient has a diagnosis of cardiac failure . . Cardiac failure is not always clearly documented and if there is ambiguity it may require a review of documented examination findings and echocardiogram reports.
2.20	Select one option that best describes the patient's current heart failure status according to the New York Heart Association (NYHA) Functional Classification :

	<ul style="list-style-type: none"> • I - No limitation of physical activity. Ordinary physical activity does not cause undue fatigue, palpitation, dyspnoea. • II - Slight limitation of physical activity. Comfortable at rest. Ordinary physical activity results in fatigue, palpitation, dyspnoea. • III - Marked limitation of physical activity. Comfortable at rest. Less than ordinary activity causes fatigue, palpitation, or dyspnoea. • IV - Unable to carry on any physical activity without discomfort. Symptoms of heart failure at rest. If any physical activity is undertaken, discomfort increases. <p>The NYHA Functional Classification is a tool for scoring severity of cardiac failure based on clinical symptoms and the degree to which a patient is limited during physical exertion.</p>
2.21	<p>Select one option provided as to the patient's history of cerebrovascular disease:</p> <ul style="list-style-type: none"> • No. • Yes – without hemiplegia: history of TIA or stroke
2.22	<p>Select one or more of the cancer diagnosis options that are current or have been in remission for less than five years:</p> <ul style="list-style-type: none"> • No. • Yes – solid tumour: local only (exclude if > 5 years from diagnosis). • Yes – solid tumour: metastatic disease (including lymph node). • Yes – Lymphoma (NHL, Hodgkin's, Waldenström, multiple myeloma). • Yes – Leukaemia (acute or chronic).
2.23	<p>Select if the patient has a diagnosis of chronic cognitive deficit or dementia.</p>
2.24	<p>Select if the patient has diabetes mellitus if the patient is type 2 diabetic please select the option of how the diabetes is controlled. If on oral medication and insulin enter as on insulin.</p>
2.24a	<p>If it was measured, enter the patient's most recent HbA1c prior to surgery as a % (to one decimal place) if they are being treated for diabetes mellitus. A conversion calculator from mmol/mol or mmol/L can be accessed through the web tool.</p>
2.26	<p>Grade the patient's risk according to the American Society of Anesthesiologists physical status (ASA-PS) classification (see p15).</p>
2.27	<p>Select if the patient had pre-operative cardiopulmonary exercise testing.</p> <p>If the patient had preoperative cardiopulmonary exercise testing enter the required results if available.</p> <ul style="list-style-type: none"> • VO₂ Peak Indexed (ml/kg/min) • Anaerobic Threshold (AT) Indexed (ml/kg/min) • VE/VCO₂ at AT • Max work rate (Watt) • Max heart rate (bpm) • Max oxygen pulse (ml/beat) • FEV₁/FVC (%)

2.28	Select one option which best describes the patient's smoking history . Smoking includes all forms of inhaled tobacco (but not electronic cigarettes or other nicotine delivery systems, e.g. chewing gum).
2.29	Select the type of perioperative risk assessment , if any, that was recorded in the notes or consent form. This should convey risk of mortality or morbidity arising from the surgery, individualised to the patient. This does not include population risks of anaesthesia-related procedures. All forms of risk stratification accepted: Qualitative (e.g. low / medium / high); Quantitative (e.g. percentage risk of death or complications, e.g. using P-POSSUM/SORT).
2.30	Select the patient's planned post-operative destination . <ul style="list-style-type: none"> • Level 0 (ward) – Patients whose needs can be met through normal ward care in an acute hospital. • Level 1 – Patients at risk of their condition deteriorating, or those recently relocated from higher levels of care, whose needs can be met on an acute ward with additional advice and support from the critical care team. • Enhanced care (Level 1+) – An intermediate level of care where a higher level of observation, monitoring and interventions can be provided than on a general ward, but patients not requiring high dependency care/organ support. For example, a patient requiring vasopressor support whilst receiving an epidural for postoperative pain relief is different to an acutely unwell patient requiring vasopressor support due to postoperative sepsis. Enhanced advice and support from the critical care team can be accessed. • Level 2 – Patients requiring more detailed observation or intervention including support for a single failing organ system or post-operative care, and those stepping down from higher levels of care. When basic respiratory and basic cardiovascular support are provided at the same time during the same critical care spell, and no other organ support is required, the care is considered to be level 2 care. • Level 3 – Patients requiring advanced respiratory support alone or basic respiratory support together with support of at least two organ systems. This level includes all complex patients requiring support for multi-organ failure. Basic respiratory and basic cardiovascular care do not count as two organs if they occur simultaneously, but will count as level 3 if another organ is supported at the same time.
Surgical admission	
2.31	Select if the patient received oral mechanical bowel preparation . If yes, please specify the type of bowel preparation: antibiotic and/or mechanical.
2.32	Select if the patient received a clear carbohydrate drink approximately 2 hours prior to surgery.
Frailty score	
2.37	Complete the Rockwood Clinical Frailty Score to determine the patient's degree of frailty (see p16).
COVID-19	

2.38	Select if the patient had suspected or confirmed COVID-19 infection before this hospital admission. No – confirmed: antibody test negative. No – presumed: no symptoms but has not had antibody test. Yes: confirmed with swab or antibody test. Suspected: swab or antibody test not done but symptoms suggestive of COVID-19.
2.38a	If the answer to 2.38 is yes or <i>suspected</i> , please state (or estimate to the nearest day) the date of symptom onset in the format 'DD/MM/YYYY'.
2.38b	If the answer to 2.38 is yes, please select the highest level of treatment that the patient received. Select one option only.
2.39	Select if the patient received one or more doses of vaccination for COVID19.
2.39a	If the answer to 2.39 s yes, please state the date (or estimate to the nearest day) of the most recent vaccination in the format 'DD/MM/YYYY'
Operative data	
3.1	Select all of the anaesthetic techniques that the patient received, including the form(s) of perioperative analgesia they received. Intravenous analgesia remains an option, but if you select this option please be more specific by ticking the other options which apply: IV paracetamol; IV NSAID; IV opioids; IV ketamine; IV dexmedetomidine; IV lignocaine.
3.1i	If the patient received a general anaesthetic, indicate the type(s) of inhalational or intravenous agent used.
3.2	Select any additional intraoperative monitoring that the patient had in addition to the standard AAGBI monitoring for all operations. Standard AAGBI monitoring includes: pulse oximeter, non-invasive blood pressure, electrocardiograph, airway pressure and airway gases (oxygen, carbon dioxide, anaesthetic agent). Cardiac output monitoring includes any device that was inserted or used to assess the fluid responsiveness of the patient during the surgical procedure. It includes Oesophageal Doppler, Pleth Variability Index (PVI), echocardiogram, arterial pulse contour analysis, pulmonary artery catheter, partial non-rebreathing systems, thoracic bio impedance, endotracheal cardiac output monitor.
3.3	Indicate the type(s) of intraoperative warming device , if any, used for this patient. Multiple options can be selected.
Operative findings	
3.4	Including the present procedure, indicate the number of operations the patient has had in the previous 30 days .
3.5-3.7	Select if the actual procedure was the same as the overall planned procedure. If different, select the actual procedure performed from the lists available, including the actual mode of surgery . More than one mode may be selected if the mode change intraoperatively (e.g. change from laparoscopic to open approach). Refer to the answers in sections 2.1–2.2. Also select any secondary procedure that was performed.

3.8	Indicate which surgical incision was performed. If more than one incision, choose the higher ranking incision : Thoracic > upper abdominal > lower abdominal > other/laparoscopic/thoracoscopic.										
3.9	Select the range of estimated total blood loss for the procedure. If greater than 1000ml indicate the actual amount in ml.										
3.10	Select the length of time that the patient was under general anaesthesia for the procedure.										
3.11	Indicate if the patient received any additional treatments intra-operatively , including: tranexamic acid; a bolus dose of vasopressor or inotrope; an infusion (of any duration) of vasopressor or inotrope; transfusion of packed red blood cells.										
Postoperative destination											
3.12	Select the patient's actual postoperative destination . For definitions, refer to the notes above for question 2.35.										
3.13	If the actual destination is different from that planned (see answer to question 2.35) please indicate the reason why . Choose from the options listed or type in the free text box.										
Recovery care											
If the patient is transferred directly to a higher-level care facility postoperatively then the "recovery period" should be regarded as the immediate three hours postoperatively.											
4.1	Select yes if the first core temperature taken in recovery is greater than or equal to 36°C.										
4.2	Select yes if a drain is present on arrival from theatre; please indicate where the drain is										
4.3	Select yes if a nasogastric tube is present on arrival from theatre.										
4.4	Select the patient's highest recorded pain score during their stay in recovery. We would suggest converting numerical pain scales as follows: <table border="0"> <tr> <td>0-3 scale:</td> <td>0-10 scale:</td> </tr> <tr> <td>0 = None</td> <td>0 = None</td> </tr> <tr> <td>1 = Mild</td> <td>1-3 = Mild</td> </tr> <tr> <td>2 = Moderate</td> <td>4-6 = Moderate</td> </tr> <tr> <td>3 = Severe</td> <td>7-10 = Severe</td> </tr> </table>	0-3 scale:	0-10 scale:	0 = None	0 = None	1 = Mild	1-3 = Mild	2 = Moderate	4-6 = Moderate	3 = Severe	7-10 = Severe
0-3 scale:	0-10 scale:										
0 = None	0 = None										
1 = Mild	1-3 = Mild										
2 = Moderate	4-6 = Moderate										
3 = Severe	7-10 = Severe										
Postoperative visit on day 2 or day 3											
Answer these questions with regard to the patient's status on post-operative day 1 (within 24 hours from completion of surgery). These assess achievement of the enhanced recovery objectives of the CHEERS-DREAM campaign.											
5.1	Select yes if IV maintenance fluids were discontinued within 24 hours of surgery ending.										

5.2	Select yes if the patient was tolerating free fluids within 24 hours after completion of surgery. No minimum volume currently specified. See web tool for links to recent guidelines.
5.3	Select yes if the patient restarted oral diet (at least soft diet e.g. yoghurt, porridge, fruit) within 24 hours of completion of surgery and tolerated it. This does not have to be full normal diet. If no, indicate if the patient received supplementary nutrition within 24hr of surgery ending. If they did receive supplementary nutrition, indicate the type .
5.4	Select yes if the patient mobilised from bed to chair with maximum assistance of one person within 24 hours of completion of surgery.

Day 7 postoperatively

6.1-6.2	Select yes if the patient is currently in hospital on day 7. If yes, select the patient's current location from the options listed. For definitions, refer to the notes above for question 2.30. Select 'Level 2/3 care' for a combined critical care unit. If the patient is no longer in hospital, proceed to answer Q6.18.
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Post-Operative Morbidity

The following questions form the Post-Operative Morbidity Survey (POMS), an 18-item survey addressing nine domains of postoperative morbidity. In answering them you should consider the patient's status on **day 7 post-operatively**.

6.3	<p>Pulmonary – select all options that apply.</p> <p>If the patient has been receiving long-term oxygen therapy and has recovered back to their original level of oxygen requirement prior to surgery, please select None of the above. If the patient is receiving any advanced respiratory (including non-invasive ventilation or high flow nasal cannula) support that was not present before surgery, please select New requirement for ventilator.</p>
6.4	<p>Infection – select all options that apply.</p> <ul style="list-style-type: none"> • Select if the patient is on IV antibiotics – this does not include oral antibiotics. • Select if the patient has had a temperature of 38°C or greater during the 24 hours preceding the time point at which the day 7 data is being collected.
6.5	<p>Gastrointestinal – Select all options that apply.</p> <ul style="list-style-type: none"> • Select Unable to tolerate enteral nutrition if: receiving TPN; nil by mouth; clear fluids only; free fluids only; soft diet only; NG tube on free drainage or high NG aspirates; NG fed but not tolerating full prescribed amount and therefore needs to remain in hospital. • Select Nausea, vomiting or abdominal distention if the patient is unable to return to their previous normal diet for the above reasons, this includes paralytic ileus and patients who are requiring anti-emetics.
6.6	<p>Renal – Select all options that apply.</p> <ul style="list-style-type: none"> • Select Oliguria if the urine output was less than 500ml during the 24 hours preceding the time point at which the day 7 data is being collected. Do not select this option if the urine output is greater than or equal to 500ml in the preceding 24 hours, if the urine output is not recorded or the fluid balance is inexact.

	<ul style="list-style-type: none"> • Select Creatinine 30% greater than pre-operative level if the serum creatinine during the 24 hours preceding the time-point at which the day 7 data is being collected is 30% greater than the pre-operative value. This should not be selected if less than 30% increase or if not measured in the preceding 24 hours. Use the pre-operative creatinine value closest to the date of surgery as the baseline value. • Select Urinary catheter in-situ if the patient has a urethral or supra-pubic catheter in-situ that was not present prior to surgery.
6.7	<p>Cardiovascular – Select all options that apply.</p> <ul style="list-style-type: none"> • Select Hypotension if, during the 24 hours preceding the time point at which the day 7 data is being collected, the patient has required >200ml of fluid resuscitation or has required a mini-jet or infusion of adrenaline or noradrenaline. This does not include GTN infusion for pulmonary oedema. • Select New myocardial infarction or ischaemia if, during the 24 hours preceding the time point at which the day 7 data is being collected, the patient has had a serum troponin sample taken, an ECG, echocardiogram, thrombolysis, a stent, PCI or if they require GTN spray or infusion for chest pain or ischaemic changes. This does not include routine post-operative ECGs. • Select Thrombotic event requiring anticoagulation if, at present or during the 24 hours preceding the time point at which the day 7 data is being collected, the patient required warfarin, heparin, treatment-dose low molecular weight heparin, or other anticoagulation. This does not include prophylactic anticoagulation, return to treatment dose anticoagulation if the patient was on anticoagulation prior to hospital admission, clopidogrel or aspirin. • Select Arrhythmias if, during the 24 hours preceding the time point at which the day 7 data is being collected, the ECG shows any dysrhythmia or if the patient had a non-routine ECG (unless this is for diagnosis of MI in which case "New myocardial infarction or ischemia" should be selected). • Select Cardiogenic pulmonary oedema if at present or during the 24 hrs preceding the time point at which the 7 day data is being collected, the patient has been started on GTN or furosemide for pulmonary oedema.
6.8	<p>Neurological – Select all options that apply.</p> <ul style="list-style-type: none"> • Select New neurological deficit if, at present or during the 24 hours preceding the time point at which the day 7 data is being collected, the patient has a new focal neurological deficit that was not present pre-operatively. • Select Delirium or confusion if, at present or during the 24 hours preceding the time point at which the day 7 data is being collected, the patient's family or nursing staff report the patient's behavior is not normal (new confusion or delirium that was not present pre-operatively, or if the patient has pre-existing confusion or delirium that is worse compared to their preoperative state). • Select Sedative-induced coma if the patient is in a sedative-induced coma.
6.9	<p>Wound – Select all options that apply.</p> <p>Select if the patient has required surgical exploration of a dehiscenced surgical wound, drainage of pus from the operation wound, oozing from the surgical wound, if a swab is sent to a laboratory or if a VAC drain is in situ.</p>

6.10	<p>Haematological – Select all options that apply.</p> <ul style="list-style-type: none"> • Select Red cell transfusion if the patient has received a red blood cell transfusion during the 24 hours preceding the time point at which the day 7 data is being collected. • Select Fresh frozen plasma/cryoprecipitate/platelets if any were given at any point during the 24 hours preceding the time point at which the day 7 data is being collected.
6.11	<p>Pain – Select all options that apply.</p> <p>Select if the patient has received parenteral opioids or regional anaesthesia during the 24 hours preceding the time point at which the day 7 data is being collected. This includes PCA, epidural, IV or IM pain relief. This does not include oral analgesia or using transdermal patches.</p>
6.12	Select yes if the patient has returned to their baseline level of mobility during the 24 hours preceding the time point at which the day 7 data is being collected.
6.13	Select all the reasons that explain why the patient still requires admission on day 7 post-operatively.
6.18a	If the patient does not have chronic renal failure with renal replacement therapy (RRT), record the highest creatinine value (µmol/L) recorded in the first 7 days post-operatively.
6.18b	Excluding patients on long term renal replacement therapy (RRT) preoperatively, select yes if the patient received new renal replacement therapy in the first 7 days post-operatively.
6.19	Oesophagectomies only. Indicate whether a Gastrografin swallow (or similar radiological contrast study) was undertaken, and if so, enter the date of the test.
Death, discharge or withdrawal	
7.1	Select the discharge destination or if patient has died prior to discharge or withdrawal from study.
7.1a-c	Enter the date of discharge, death or withdrawal as applicable in the format 'DD/MM/YYYY'.
7.1a i	Select the option which best describes the patient's opioid status on discharge . For this question we consider Tramadol to be an opioid. The definition for opioid naïve patients varies but can generally be regarded as those who have not received opioids in the 30 days prior to surgery.
Clavien-Dindo grade of complication	
7.2	<p>Select the grade of complication experienced by the patient during their primary admission for surgery. If the patient experienced multiple complications please list each relevant level of complication. If the patient experienced multiple complications, please list each grade experienced.</p> <ul style="list-style-type: none"> • The treatments allowed for Grade I include: analgesic, antipyretic, antiemetic, and antidiarrheal drugs or drugs required for lower urinary tract infection.

	<ul style="list-style-type: none"> • Radiological interventions can be taken to mean radiologically-guided procedures rather than radiological investigations. • Grade II includes TPN, blood transfusion and any other drugs not included in Grade I.
7.2a	If Grade II or above , indicate whether the patient was treated for a suspected postoperative infection .
7.2b	If Grade II or above , select from the list any complications experienced .
COVID-19 status	
7.3	<p>Indicate the patient's SARS-CoV-2 / COVID-19 infection status for this admission. Choose one option only:</p> <ul style="list-style-type: none"> • <i>Confirmed Covid positive at time of surgery</i>: infected at time of surgery based on a recent positive RT-PCR antigen (swab) test. • <i>Suspected Covid positive at time of surgery</i>: considered as infected at time of surgery on clinical grounds despite negative (i.e. false negative) or indeterminate antigen test. • <i>Covid positive during hospitalisation; indeterminate timing of infection</i>: positive antigen test or clinical diagnosis of COVID-19 during admission but unable to determine whether pre/post-op from the medical record. • <i>Nosocomial infection</i>: not infected at time of surgery based on clinical presentation AND negative swab, but had a new positive antigen test or clinical diagnosis of COVID-19 post-operatively. • <i>Covid negative</i>: considered to be not infected throughout inpatient stay. • <i>Covid status unknown</i>: COVID-19 antigen test not done. • <i>Unable to answer</i>.
Post-operative blood transfusion	
7.4	Indicate if the patient received any transfusions of packed red blood cells postoperatively.

ASA-PS Score

ASA grade	Definition	Further explanation
ASA I	A normal healthy patient	Healthy, non-smoking, no or minimal alcohol use
ASA II	A patient with mild systemic disease	Mild diseases only without substantive functional limitations. Examples include (but not limited to): current smoker, social alcohol drinker, pregnancy, obesity (30 < BMI < 40), well-controlled DM/HTN, mild lung disease
ASA III	A patient with severe systemic disease	Substantive functional limitations: one or more moderate to severe diseases. Examples include (but not limited to): poorly controlled DM or HTN, COPD, morbid obesity (BMI ≥40), active hepatitis, alcohol dependence or abuse, implanted pacemaker, moderate reduction

		of ejection fraction, ESRD undergoing regularly scheduled dialysis, premature infant PCA < 60 weeks, history (>3 months) of MI, CVA, TIA, or CAD/stents.
ASA IV	A patient with severe systemic disease that is a constant threat to life	Examples include (but not limited to): recent (< 3 months) MI, CVA, TIA, or CAD/stents, ongoing cardiac ischemia or severe valve dysfunction, severe reduction of ejection fraction, sepsis, DIC, ARD or ESRD not undergoing regularly scheduled dialysis
ASA V	A moribund patient who is not expected to survive without the operation	Examples include (but not limited to): ruptured abdominal/thoracic aneurysm, massive trauma, intracranial bleed with mass effect, ischemic bowel in the face of significant cardiac pathology or multiple organ/system dysfunction
ASA VI	A declared brain-dead patient whose organs are being removed for donor purposes	

Rockwood Clinical Frailty Scale

Clinical Frailty Scale*



1 Very Fit – People who are robust, active, energetic and motivated. These people commonly exercise regularly. They are among the fittest for their age.



2 Well – People who have **no active disease symptoms** but are less fit than category 1. Often, they exercise or are very **active occasionally**, e.g. seasonally.



3 Managing Well – People whose **medical problems are well controlled**, but are **not regularly active** beyond routine walking.



4 Vulnerable – While **not dependent** on others for daily help, often **symptoms limit activities**. A common complaint is being “slowed up”, and/or being tired during the day.



5 Mildly Frail – These people often have **more evident slowing**, and need help in **high order IADLs** (finances, transportation, heavy housework, medications). Typically, mild frailty progressively impairs shopping and walking outside alone, meal preparation and housework.



6 Moderately Frail – People need help with **all outside activities** and with **keeping house**. Inside, they often have problems with stairs and need **help with bathing** and might need minimal assistance (cuing, standby) with dressing.



7 Severely Frail – **Completely dependent for personal care**, from whatever cause (physical or cognitive). Even so, they seem stable and not at high risk of dying (within ~ 6 months).



8 Very Severely Frail – Completely dependent, approaching the end of life. Typically, they could not recover even from a minor illness.



9. Terminally Ill - Approaching the end of life. This category applies to people with a **life expectancy <6 months**, who are **not otherwise evidently frail**.

Scoring frailty in people with dementia

The degree of frailty corresponds to the degree of dementia. Common **symptoms in mild dementia** include forgetting the details of a recent event, though still remembering the event itself, repeating the same question/story and social withdrawal.

In **moderate dementia**, recent memory is very impaired, even though they seemingly can remember their past life events well. They can do personal care with prompting.

In **severe dementia**, they cannot do personal care without help.

* 1. Canadian Study on Health & Aging, Revised 2008.

2. K. Rockwood et al. A global clinical measure of fitness and frailty in elderly people. CMAJ 2005;173:489-495.

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