CRF1	TIENT IDENTIFICATION NUMBER:
	TE OF SURGERY:
Month and year of birth	TE OF 30KGENT.
Sex [m/f]	
Height [cm]	
Weight [kg]	
Clinical Frailty Scale (Rockwood): point 0 to 9. (Will be explained in final	CRF)
Previous medical history:	
Coronary Artery Disease: Y/N Cerebrovascular Disease: Y/N	
Peripheral vascular disease: Y/N	
Atrial fibrillation: Y/N	
Heart failure: Y/N Hypertension: Y treated and controlled, Y treated but not controlled, No	
Diabetes: Takes insulin/managed without insulin/None	
Chronic liver disease: Y/N	
Chronic respiratory disease: COPD/other/None	
Chronic immunosuppression: HIV/other/none Chronic Kidney Disease: No/Yes/Yes and receives renal replacement therapy	
Long-term steroid use: Y/N	
Recent/current treatment for cancer (including chemotherapy, radiotherapy, s	irgery)
Regular medications	
ACE inhibitor: Y and took today/ Y omitted today/N Alpha blocker: Y and took today/ Y omitted today/N	
Angiotensin Receptor Blocker: Y and took today/ Y omitted today/N	
Beta blocker: Y and took today/ Y omitted today/N	
Calcium channel blocker: Y and took today/ Y omitted today	
Diuretic: Y and took today/ Y omitted today/N Regular NSAIDs: Y/N	
Haemodynamics	
Measurement in the past 6 months, at least 12h prior to the operating room, a	rest:
Systolic, Diastolic	
Heart rate	
The reading immediately prior to induction of anaesthesia: Systolic, Diastolic	
Heart rate	
Laboratory results, most recent (if known within 2 months prior to surge	ry) (we need to ask for units for each hospital)
Creatinine	
Albumin Haemoglobin concentration	
SURGERY	
Reason for surgery: Infection/cancer/exploratory/fracture/bleeding/oth	er
SORT (will be implemented in the eCRF from the sortsurgery.com websi	
Details of type of surgery	-,-
ASA-PS (provide link to favoured definitions, to slightly reduce varial	ilitv)
Urgency	
Cancer treatment Y/N	
INTRA-OPERATIVE	
Start of anaesthesia: hhmm DDMMYY	
Start of surgery: hhmm DDMMYY	
End of surgery: hhmm DDMMYY	
End of anaesthesia: hhmm DDMMYY	
SURGICAL	
Estimated blood loss (EBL, ml): <250ml, 251-1000ml, 1001-3000ml,	>3000ml
ANAESTHETIC	
Blood pressure	
Lowest recorded blood pressure: Systolic/Diastolic (MAP can b	calculated)
Anaesthesia: tick all applicable	······
Volatile/TIVA/sedation without securing airway/regional/spina	/CSE/epidural
Endotracheal tube/supraglottic airway/O2 facemask or nasal ca	
Interventions:	
Arterial line: Y/N	
Central venous line: Y/N	

Intra-operative vasoactive drugs

	No	Y as	Y as
		bolus	infusion
Angiotensin II			
Atropine			
Akrinor * (Cafedrin/Theodrenalin)			
Dobutamine			
Dopamine			
Ephedrine			
Epinephrine (Adrenaline)			
Etilefrine			
Glycopyrronnium			
Metaraminol			
Milrinone			
Nitrates			
Norepinephrine (Noradrenaline)			
Phenylephrine			
Vasopressin or terlipressin			
Other 1			

Was the patient receiving a vasopressor infusion prior to surgery starting: Y/N

Fluids and blood products received INTRA-operatively only, volume of

Crystalloid:

Colloid (starch, gelofusine, albumin): Packed red blood cells:

Fresh frozen plasma:

Platelets:

Whole blood or autotransfusion (in ml):

POST-OPERATIVE

- We are interested in which vasoactive drugs
- were given and how they were given.We have split all vasoactive drugs into those that
- are VASOPRESSORS (in green column) and those that are not (blue).
- We only want additional information (completion of CRF2) if it was POSTOPERATIVE, was a VASOPRESSOR and was INFUSED.

Vasoactive drugs						
Vasopressor	Not predominantly vasopressor					
Dopamine	Atropine					
Epinephrine (Adrenaline)	Dobutamine					
Metaraminol	Ephedrine					
Norepinephrine (Noradrenaline)	Etilefrine					
Phenylephrine	Glycopyrronnium					
Vasopressin or Terlipressin	Nitrates					
Akrinor *	Milrinone					
Angiotensin II						
We appreciate that many drugs have mixed actions						

Following the end of surgery, did the patient receive any vasopressor boluses Y/N

vasopressor boluses infusion

Y/N, if Y, then did this continue for more than 1 hour after the end of surgery: Y/N if yes then this fulfils our criteria for PVI, so please also complete CRF2.

LATE COMPLICATIONS = WITHIN FIRST WEEK

Organ support

Pulmonary

Ventilation: invasive mechanical ventilation / NIV / both / neither Cardiovascular

New dysrhythmia: AF/other/none

Acute Myocardial Infarction (type 1, using WHO 4th universal definition)

Renal

Highest creatinine (within the first week) postoperatively: Value/Not available [we calculate KDIGO] Received renal replacement therapy: Y/N (excluding chronic RRT users)

Gastrointestinal

Received parenteral nutrition: Y/N

Infection

Treated with antibiotics for a newly diagnosed infection: Y/N

If Y: skin or soft tissue / respiratory / urinary / abdominal / lines / other

Surgical

Accordion Severity Classification of Postoperative Complications (Annals 2009): 0 (none) to 4 (death)

Commented [BC1]: Detection of a rise and/or fall of cTn values with at least one value above the 99th percentile URL and with at least one of the following: •Symptoms of acute myocardial ischaemia; •New ischaemic ECG changes; •Development of pathological Q waves; •Imaging evidence of new loss of viable myocardium or new regional wall motion abnormality in a pattern consistent with an ischaemic aetiology; •Identification of a coronary thrombus by angiography including intracoronary imaging or by autopsy.ª Commented [2]: 1. Mild complication Requires only minor invasive procedures that can be done at the bedside such as insertion of intravenous lines, urinary catheters, and nasogastric tubes, and drainage of wound infections. Physiotherapy and the following drugs are allowed-antiemetics, antipyretics, analgesics, diuretics, electrolytes, and physiotherapy. 2. Moderate complication Requires pharmacologic treatment with drugs other than such allowed for minor complications, for instance antibiotics. Blood transfusions and total parenteral nutrition are also included. 3. Severe complication All complications requiring endoscopic or interventional radiologic

procedures or re-operation as well as complications resulting in failure

of one or more organ systems. 4. Death

END OF EPISODE (intra-hospital follow up to 30 days) Did the patient receive PVI that started more than 24h following surgery?: Y/N During this admission, did the patient die: Y/N Date of discharge, death or end of observational period: DDMMYY

CRF2: Additional information for those who received postoperative vasopressor infusion (PVI)

PLEASE DO NOT complete if:

- receiving inotropes without vasopressors
 - received vasopressor only intra-operatively or for less than one hour postoperatively
- received vasopressors starting more than 24 hours postoperatively

At one hour after the completion of surgery, is the patient:

Receiving continuous infusion of neuraxial anaesthesia/analgesia i.e. epidural infusion	Y/N
Still receiving a sedative infusion	Y/N
Still has an airway in place (endotracheal tube, tracheostomy or supraglottic airway)	Y/N

1. How was it initially assessed that this patient should receive a vasopressor infusion?

Options:

- 1. Already receiving a vasopressor infusion and attempts to lower the infusion rate produced unacceptable hypotension
- 2. It was decided that the patient would no longer benefit from further attempts to increase the cardiac output through administration of IV fluids and the blood pressure was unacceptably low. This was on the basis of:
 - A. clinical assessment alone (vital signs, examination, lab results)
 - B. clinical assessment AND a measurement of preload responsiveness using cardiac output monitoring (or some direct surrogate of)
 - C. clinical assessment AND a measurement of preload responsiveness using echocardiography
 - D. clinical assessment AND a previously established maximum for IV fluid administration has been met i.e. 2L or 20ml/kg etc...
 - E. other free text
 - F. unknown

Day 0 = the calendar day of the start of the operation

2. Organ failure scores

	Day 0	POD1	POD2	POD3	POD4	POD5	POD6
SOFA score							

3. Blood pressure target and levels

	Day 0	POD1	POD2	POD3	POD4	POD5	POD6
Target MAP (if							
known)							
Lowest recorded							
MAP							
Highest							
recorded MAP							

4. Vasoactive drug infusion details

	Day 0	POD1	POD2	POD3	POD4	POD5	POD6
Vasopressor infusion 1							
Vasopressor infusion 2							
Vasopressor infusion 3							
Vasopressor infusion 4							

For each vasopressor drug, for each day, we want the highest infused rate – for example, noradrenaline 0.5 mcg/kg/min

	Day 0	POD1	POD2	POD3	POD4	POD5	POD6
Inotrope 1							
Inotrope 2							

For each inotropic drug, for each day, we want the highest infused rate - for example, milrinone 0.3 mcg/kg/min

5. Organ support in the first 28 days

Total number of days of receipt of ventilation (invasive or NIV):

Total number of days of receipt of vasopressor infusion:

Total number of days of receipt of parenteral nutrition:

Total number of days of receipt of renal replacement therapy:

Commented [BC3]: Whole days. If received for any period of time (>1h) then to be included as a day