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	Variable	Variable Name	Table Name	Definition	ASCTS #	PDU Data Code
1000	Age	Age	Demography	Age of patient in years		continuous variable
1001	DOB	DOB	Demography	The date of birth of the patient (day/month/year)	7	date
1002	Eligible for inclusion in data set	Eligible	Demography	Eligible procedures includes isolated CABG, isolated AVR, isolated MVR, isolated MV repair		0=no; 1=yes
1003	Ethnicity	Ethnicity	Demography	Indicate the patients ethnicity as determined by patient or family	12	0;"Caucasian";1;"Aboriginal or Torres Strait Islander";3;"Maori";9;"Pacific Islander";4;"Native American";5;"Hispanic";6;"Indian";7;"Asian";8;"African American";2;"Other";-99;"Not Entered"
1004	Height	Ht	Demography	Height in centimetres in bare or stockinged feet.	84	continuous variable
1008	PDU #	PDU_ID	Demography	PDU database ID number (auto generated)		auto generated internal number
1011	Sex	Sex	Demography	The sex of the patient	9	1 = Male, 2 = Female
1012	Weight	Wt	Demography	Weight in kilograms in light clothing and stockinged feet.	85	continuous variable
1015	Completion status	Completed	Demography	Is the record completion status checked and ready for submission?		0;"Not ready for submission";1;"Ready for submission"
2000	Active endocarditis	Act_endo	Clinical	If the patient is currently being treated for endocarditis, the disease is considered active. If no antibiotic medication (other than prophylactic medication) is being given at the time of surgery, then the infection is considered treated.	42	0=no; 1=yes
2001	Angina	Angina	Clinical	Canadian Cardiovascular Society Classification. The highest class leading to episode of hospitalisation and/or intervention - 0: No angina symptoms. 1: Ordinary physical activity, such as walking or climbing the stairs does not cause angina. Angina may occur with strenuous, rapid or prolonged exertion at work or recreation. 2: There is slight limitation of ordinary activity. Angina may occur with moderate activity such as walking or climbing stairs rapidly, walking uphill, walking or stair climbing after meals or in the cold, in the wind or under emotional stress, or walking more than two blocks on the level, and climbing more than one flight of stairs at normal pace under normal conditions. 3: There is marked limitation of ordinary physical activity. Angina may occur after walking one or two blocks on the level or climbing one flight of stairs under normal conditions at a normal pace. 4: There is inability to carry on any physical activity without discomfort; angina may be present at rest.	47	0;"Not classified";1;"Class I";2;"Class II";3;"Class III";4;"Class IV";-99;"Not Entered"
2003	Cerebrovascular Disease	CVD	Clinical	Whether the patient has had Cerebrovascular Disease, documented by any one of the following - a: Unresponsive coma >24 hrs. b: CVA (symptoms >72 hrs after onset). c: RIND (recovery within 72 hrs). d: TIA (recovery with 24 hrs). e: Non-invasive carotid test with >75% stenosis.	35	1;"Yes";0;"No";-99;"Not Entered"
2004	Cerebrovascular Disease - CVA - When	CVDwhen	Clinical	Those events occurring within two weeks of the surgical procedure are considered recent, while all others are considered remote.	37	1;" Recent <= 2/52";2;" Remote > 2/52";-99;"Not Entered"
2005	Cerebrovascular Disease - Type	CVDtype	Clinical	What type of Cerebrovascular Disease does the patient have? Please select the most severe type of cerebrovascular disease experienced by the patient. Severity is in the order: Coma>CVA>RIND/TIA>Carotid. Choose one of the following -Coma: Unresponsive coma >24 hrs. CVA: (neurologic deficit >72hrs). RIND: (ischemic deficit > 24hrs that is reversed). TIA: (ischemic deficit < 24hrs that is reversed). Carotid > 75%: Non-invasive carotid test with > 75% occlusion.	36	1;"Coma >24hrs";2;"CVA symptoms > 72hrs";3;"RIND symptoms > 72hrs";6;"TIA symptoms > 72hrs";4;"Carotid Test >75%";-99;"Not Entered";0;"None"
2006	Critical preoperative state	Crit_preop	Clinical	Any of the following immediately prior to surgery: ventricular tachycardia / ventricular fibrillation or aborted sudden death, cardiac massage, ventilation before anaesthetic room, inotropes or IABP, Acute Renal Failure		0=no; 1=yes
2007	Current Smoker	Smokcurr	Clinical	Patients having smoked cigarettes within one month of surgery are considered to be current smokers.	26	1;"Yes";0;"No";-99;"Not Entered"
2008	Diabetes	Diabet	Clinical	A history of diabetes, regardless of type, duration of disease or need for anti-diabetic agents.	28	0=no; 1=yes
2009	Diabetes - Control	Diabcont	Clinical	Method of diabetic control, at time of intervention. The most aggressive therapy should be indicated as per the following order: insulin > oral > diet. Section requirement one choice only - None: No treatment for diabetes, Diet: Diet treatment only, Oral: Oral agent treatment, Insulin: Insulin treatment (includes any combination of above with insulin).	29	1;"None";2;"Diet";3;"Oral";4;"Insulin";-99;"Not Entered"
2010	Dialysis	Dialysis_pre	Clinical	Is the patient on renal dialysis pre-operatively?	32	0=no; 1=yes
2011	EF Estimate	EF	Clinical	The percentage of the blood emptied from the left ventricle at the end of the contraction. Use the most recent determination prior to intervention. Enter a percentage in the range of 5 - 90.	98	continuous variable
2012	Extracardiac arteriopathy	Excardart	Clinical	Extracardiac arteriopathy One or more of claudication, carotid occlusion or >50% stenosis, previous or planned intervention on the abdominal aorta, limb arteries or carotids		0=no; 1=yes

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	Variable	Variable Name	Table Name	Definition	ASCTS #	PDU Data Code
2013	Family history	Famhist	Clinical	Whether any direct blood relatives (parents, siblings, children) have had any of the following - a: Angina, b: Myocardial infarction (MI), c: Sudden cardiac death presumed to be from ischaemic heart disease because of no other obvious cause, d: Coronary intervention.	27	1;"Yes";0;"No";2;"Unknown";-99;"Not Entered"
2015	History of Stroke	Strokhist	Clinical	History of previous stroke at any time preoperatively (CVA symptoms >72 hrs after onset).		0=no; 1=yes
2016	Hypercholesterolaemia/treated for elevated cholesterol	Hypchol	Clinical	Whether the patient has a history of hypercholesterolemia diagnosed and/or treated by a physician, and/or Cholesterol > 5.0 mmol.	30	0=no; 1=yes
2017	Hypertension	Hypert	Clinical	Does the patient have a diagnosis of hypertension documented by one of the following - a: Documented history of hypertension diagnosed and treated with medication, diet and/or exercise, b: Blood pressure >140 systolic or >90 diastolic on at least 2 occasions, c: Currently on antihypertensive medication.	34	0=no; 1=yes
2018	Infective Endocarditis	Inf_endo	Clinical	A patient presenting with valvular disease of infectious aetiology with positive blood culture, or post-operative pathology confirmation.	41	0=no; 1=yes
2019	LV Function	LV_func	Clinical	If nuclear scan, echo or angiogram did not yield a digital EF %, provide an estimate from reviewing the study. Choose ONE of: Normal (LV-EF >60%), Mild Impairment (EF 46-60%), Moderate (EF 30-45%), Severe (EF <30%)	99	1;" Normal";2;"Mild";3;"Moderate";4;"Severe";-99;"Not Entered"
2020	Myocardial infarction	MI	Clinical	Patient hospitalised at any time for a Myocardial Infarction documented in the medical record. Two of the following four criteria are necessary - a: Prolonged (>20min) typical chest pain not relieved by rest and/or nitrates. b: Enzyme level elevation: either (1) CK-MB>5% of total CK; (2) troponin > 2.0 micrograms/L. c: New wall motion abnormalities. d: Serial ECG (at least two) showing Q waves in at least two (2) leads.	44	0=no; 1=yes
2021	Neurological dysfunction	Neuro_dysf	Clinical	Neurological dysfunction Disease severely affecting ambulation or day-to-day functioning		0=no; 1=yes
2022	Post infarct septal rupture	Inf_rupt	Clinical	Recent post infarct septal rupture preoperatively		1;"Yes";0;"No";-99;"Not Entered"
2023	Previous cardiac intervention	Prev_card	Clinical	Was Percutaneous Transluminal Coronary Angioplasty, Coronary Atherectomy, and/or coronary Stent done at any time prior to this surgical procedure (which may include the current admission).	84	2;"Moderate (31-55mmHg);1;"Severe (>55mmHg)";0;"No";-99;"Not Entered"
2024	Previous Cardiac Surgery	Prev_cardsurg	Clinical	Previous surgical replacement and/or repair of a cardiac valve by any approach, and/or CABG either with or without CPB. If multiple previous surgeries have been performed, select either multiple CABG, multiple valve, or multiple combined.	78, 79	0;"No";1;"CABG";2;"OPCABG";3;"Valve repair/replacement";4;"Valve/CABG";5;"Other";6;"Multiple CABG";7;"Multiple valve";8;"Multiple combined";-99;"Not Entered"
2025	Pulmonary Hypertension		Clinical	Moderate; measured systolic pulmonary artery pressure 31-55 mmHg, Severe >55 mmHg		2;"Moderate (31-55mmHg)";1;"Severe (>55mmHg)";0;"No";-99;"Not Entered"
2026	Recent MI	Mirecent	Clinical	Myocardial infarction within 90 days. Specify if < 21 days or between 21-90 days.	46	1;"Yes <90 days";2;"Yes <21 days";0;"No";-99;"Not Entered"
2027	Respiratory Disease	Resp_dis	Clinical	Whether the patient has chronic lung disease; including emphysema, chronic bronchitis, asthma (treated with medication) or bronchiectasis.	39	0=no; 1=yes
2028	Smoking History	Smokhist	Clinical	A history confirming any form of tobacco use in the past.	25	0=no; 1=yes
2029	Unstable angina	Unst_ang	Clinical	The presence of ischaemia that requires hospitalisation and use of intravenous nitrate, heparin therapy or s.c. clexane (include other low mol. Wt. Heparinoids) for control.	48, 49, 50	0=no; 1=yes
2030	Urgency	Emerg	Clinical	Elective; The procedure could be deferred without risk of compromised cardiac outcome. Urgent; Not routine – clinical reason for operating in this admission: a. Within 72 hours of angiography if index operation was performed in the same admission as angiography (here 'same admission' includes situations where angiography was performed in another hospital prior to direct transfer to current hospital where index operation is to be performed). OR b. Within 72 hours of an unplanned admission (in patients who had a previous angiogram and was scheduled for surgery but was admitted acutely). OR c. Procedure required during same hospitalisation in a clinically compromised patient in order to minimise chance of further clinical deterioration. Emergency; Unscheduled surgery required in the next available theatre on the same day (as admission) due to refractory angina or haemodynamic compromise. Salvage; The patient underwent CPR en route to, or in the operating room, prior to surgical incision.	104	1;"Elective";2;"Urgent";3;"Emergency";4;"Salvage";-99;"Not Entered"
2031	Blood products refused	JW	Clinical	Patient refuses transfusion of blood products due to Jehovah's witness religion or other reason.		1;"Yes - Jehovah's Witness";2;"Yes - Other reason";0;"No";-99;"Not Entered"
2032	CHF	CHF	Clinical	Whether a physician has ever diagnosed congestive heart failure by one of the following: A: Paroxysmal nocturnal dyspnoea; B: Dyspnoea on exertion due to heart failure; C: Chest X-ray showing pulmonary congestion, or D: Patient has received treatment for this - ACE inhibition, diuretics, carvedilol or digoxin.	51	1;"Yes";0;"No";-99;"Not Entered"

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	Variable	Variable Name	Table Name	Definition	ASCTS #	PDU Data Code
2033	NYHA classification	NYHA	Clinical	New York Heart Association Class - the highest level leading to episode of hospitalisation and/or procedure. I: Patients with cardiac disease but without resulting limitation of ordinary physical activity. Ordinary physical activity does not cause undue fatigue, palpitation, or dyspnoea. II. Patients with cardiac disease resulting in slight limiation of physical activity They are comfortable at rest. Ordinary physical results in fatigue, palpitations, or dyspnoea. III. Patients with cardiac disease resulting in marked limitation of physical activity. They are comfortable at rest. Less than ordinary physical activity results in fatigue, palpitations, or dyspnoea. IV. Patients with cardiac disease resulting in inability to carry on any physical activity without discomfort. Symptoms of cardiac insufficiency may be present even at rest. If any physical activity is undertaken, discomfort is increased.	53	1;"Class I";2;"Class II";3;"Class III";4;"Class IV";-99;"Not Entered"
2034	Peripheral vascular disease	PVD	Clinical	Whether the patient has peripheral vascular disease, as indicated by claudication either with exertion or rest; amputation for arterial insufficiency, aortoiliac occlusive disease reconstruction; peripheral vascular bypass surgery, angioplasty or stent, documented abdominal aortic aneurysm, abdominal aortic aneurysm repair or stent; positive noninvasive testing documented.	38	0=no; 1=yes
2035	Cardiogenic shock	Cardshock	Clinical	Was the patient in cardiogenic shock at the time of procedure? Only code yes if all of the following criteria apply: a. Sustained (>30 minutes) episode of systolic blood pressure <90mmHg or the requirement for parenteral inotropic or vasopressor agents or mechanical support (e.g. Intra-aortic balloon pump (IABP), extracorporeal circulation, ventricular assist devices to maintain BP >90mmHg); AND b. Evidence of elevated filling pressures (e.g. elevated PAWP or pulmonary oedema on examination or chest radiograph); AND c. Evidence of end organ hypoperfusion (e.g. urine output <30mL/hour; or cold/diaphoretic extremities; or altered mental status, etc.)	53	0=no; 1=yes
2036	Poor mobility preoperatively	Mobility	Clinical	Severe impairment of mobility secondary to musculoskeletal or neurological dysfunction		1;"Yes";0;"No";-99;"Not Entered"
2037	Weight of intervention	Interven	Clinical	Include major interventions on the heart such as; CABG, valve repair or replacement; replacement of part of the aorta; repair of a structural defect; maze procedure; resection of a cardiac tumour.		1;"Isolated CABG";2;"Single non CABG";3;"2 procedures";4;"3 procedures";-99;"Not Entered"
2038	Renal impairment	RenImpair	Clinical	The 3 categories are: on dialysis (regardless of serum creatinine level), moderately impaired renal function (50-85 ml/min), severely impaired renal function (<50 ml/min) off dialysis. Creatinine clearance (ml/min) = (140-age (years)) x weight (kg) x (0.85 if female) / [72 x serum creatinine (mg/dl)].		0;"Normal";1;"Dialysis";2;"Moderate";3;"Severe";-99;"Not Entered"
3000	Aortic dissection	AODS	Procedure	Aortic dissection	133	1;"Yes";0;"No";-99;"Not Entered"
3001	Aortic anuerysm	AOAN	Procedure	Aortic anuerysm	138	1;"Yes";0;"No";-99;"Not Entered"
3002	Aortic Occlusion	AortOcc	Procedure	What was the method of aortic occlusion		1;"X clamp only";2;"X clamp and side biter";3;"Balloon occlusion";4;"No X clamp";5;"Side biter only";-99;"Not Entered"
3003	Aortic transection	AOTS	Procedure	Aortic transection	141	1;"Yes";0;"No";-99;"Not Entered"
3004	Aortic valve replacement	AVR	Procedure	Was the aortic valve replaced and type of implant	170	0=no; 1=mechanical prosthesis; 2=bioprosthetic prosthesis
3005	Atrial arrythmia surgery	AAS	Procedure	Atrial arrythmia surgery	128	1;"Yes";0;"No";-99;"Not Entered"
3006	Atrial septal defect	ASD	Procedure	Atrial septal defect	116	1;"Yes";0;"No";-99;"Not Entered"
3007	Cardiac Transplant	CT	Procedure	Cardiac Transplant	125	1;"Yes";0;"No";-99;"Not Entered"
3008	Cardiac tumour	TUMOUR	Procedure	Cardiac tumour	124	1;"Yes";0;"No";-99;"Not Entered"
3009	Carotid endarterectomy	CEND	Procedure	Carotid endarterectomy	142	1;"Yes";0;"No";-99;"Not Entered"
3010	Coronary artery bypass graft	CCAB	Procedure	Was a coronary artery bypass graft performed? Specify if on pump (Yes), off pump (OPCABG), or OPCABG then requiring CPB (Converted to CPB).	111	1;"Yes";0;"No";2;"OPCABG";3;"Converted to CPB;-99;"
3011	Gastroeploic artery graft	GEPA	Procedure	Was a Gastroeploic Artery Used for Coronary Bypass?		1;"Yes";0;"No";-99;"Not Entered"
3012	Left internal mammary graft	LIMA	Procedure	Was a Left Internal Mammary Artery Used for Coronary Bypass?	160	1;"Yes";0;"No";-99;"Not Entered"
3013	Left ventricular aneurysm (acquired)	LVA	Procedure	Left ventricular aneurysm (acquired)	114	1;"Yes";0;"No";-99;"Not Entered"
3014	Left Ventricular Outflow Tract myectomy for HOCM	HOCM	Procedure	Left Ventricular Outflow Tract myectomy for HOCM	119	1;"Yes";0;"No";-99;"Not Entered"
3015	Pulmonary endarterectomy	PTE	Procedure	Pulmonary endarterectomy	122	1;"Yes";0;"No";-99;"Not Entered"
3016	Left ventricular reconstruction	LVRECON	Procedure	Left ventricular reconstruction	123	1;"Yes";0;"No";-99;"Not Entered"
3017	LV rupture repair	LVRR	Procedure	LV rupture repair	120	1;"Yes";0;"No";-99;"Not Entered"
3018	Mitral valve repair	Mvrep	Procedure	Was the mitral valve repaired or converted to replacement?		0=no; 1=yes 2=converted to replacement
3019	Mitral valve replacement	MVR	Procedure	Was the mitral valve replaced and type of implant	184	0=no; 1=mechanical prosthesis; 2=bioprosthetic prosthesis
3020	Number Left internal mammary distal anastomoses	LIMA#	Procedure	Number of LIMA distal anastomosis	164	continuous variable
3021	Number of distal anastomoses (vein grafts)	SVGdist	Procedure	Number of saphenous vein distal anastomosis	167	continuous variable
3022	Number of side biter applications	Sidebite#	Procedure	Number of side biter clamp applications		continuous variable
3023	Number of vein grafts	SVG#	Procedure	Number of saphenous vein conduits used		continuous variable

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	Variable	Variable Name	Table Name	Definition	ASCTS #	PDU Data Code
3024	Number of X clamp applications	Xclamp#	Procedure	Number of cross clamp applications		continuous variable
3025	Number radial distal anastomoses	RADG#	Procedure	Number of Radial artery distal anastomosis	166	continuous variable
3026	Number radialgastroeploic distal anastomoses	GEPA#	Procedure	Number of Gastroeploic artery distal anastomosis	168	continuous variable
3027	Number right internal mammary distal anastomoses	RIMA#	Procedure	Number of RIMA distal anastomosis	171	continuous variable
3028	Other congenital abnormality corrective procedure	OTHCON	Procedure	Other congenital abnormality corrective procedure	126	1;"Yes";0;"No";-99;"Not Entered"
3029	Other thoracic surgery	TOTH	Procedure	Other thoracic surgery	144	1;"Yes";0;"No";-99;"Not Entered"
3030	Other vascular surgery	VOTH	Procedure	Other vascular surgery	143	1;"Yes";0;"No";-99;"Not Entered"
3031	Pericardectomy	PERIC	Procedure	Pericardectomy	121	1;"Yes";0;"No";-99;"Not Entered"
3032	Permenant LV pacing lead insertion	PLVEL	Procedure	Permenant LV pacing lead insertion	127	1;"Yes";0;"No";-99;"Not Entered"
3033	Procedure Type	Proctype	Procedure	Define procedure type as one of the following options; isolated CABG, Isolated mitral valve repair or replacement, isolated aortic valve repair or replacement, or CABG combined with aortic or mitral valve repair/replacement, or other. If the procedure is undertaken as a subsequent procedure within an admission, select: multiple procedure within admission.		1;"isolated CABG";2;"isolated MV Surgery";3;"isolated AV Surgery";5;"AVR + CABG";6;"MVR + CABG";4;"Other";7;"Multiple procedure within admission";-99;"Not Entered"
3034	Pulmonary valve replacement	PVR	Procedure	Was the pulmonary valve replaced and type of implant	196	0=no; 1=mechanical prosthesis; 2=bioprosthetic prosthesis
3035	Radial artery graft	RADG	Procedure	Was a Radial Artery Used for Coronary Bypass?		0=no; 1=yes
3036	Right internal mammary graft	RIMA	Procedure	Was a Right Internal Mammary Artery Used for Coronary Bypass?		0=no; 1=yes
3037	Surgery on thoracic aorta	ThAor_surg	Procedure	Current surgical procedure involving the thoracic aorta		1;"Yes";0;"No";-99;"Not Entered"
3038	Trauma	TRAUMA	Procedure	Trauma	117	1;"Yes";0;"No";-99;"Not Entered"
3039	Tricuspid valve replacement	TVR	Procedure	Was the tricuspid valve replaced and type of implant	190	0=no; 1=mechanical prosthesis; 2=bioprosthetic prosthesis
3040	Ventricular septal defect	VSD	Procedure	Acquired ventricular septal defect	115	1;"Yes";0;"No";-99;"Not Entered"
3041	Tricuspid valve repair	Tvrep	Procedure	Was the tricuspid valve repaired or converted to replacement?		0=no; 1=yes 2=converted to replacement
3042	Lung transplant	LungTx	Procedure	Lung transplant		1:Yes, 0:No
3043	Minimally invasive incision	Minivs	Procedure	Was a non-standard (sternotomy or thoracotomy) incision used for the cardiac procedure (on- or off-pump)?	72	1=yes, 0=no, 2=yes, converted to open
4000	*Time flow index < 1.6 L/m2/min	FlowLt16	Perfusion	Time cardiac index less than 1.6 l/min/m2		
4001	*Time MAP on bypass <50mmHg	MAPLt50	Perfusion	Time mean arterial pressure < 50 mmHg (mins)		
4004	ABG continuous/ intermittent	Bgmon	Perfusion	Type of blood gas analysis used; offline = intermittent, inline = continuous		1=continuous; 2=intermittent
4005	ACT device	ACTdevice	Perfusion	Device type of ACT machine		1;"Hemochron";2;"ACT plus";3;"i-stat";4;"ACT II";9;"Other";-99;"Not entered"
4006	ACT1st	ACT1st	Perfusion	1st ACT after initial anticoagulant dose		continuous variable
4007	ACTmax	ACTmax	Perfusion	Maximum ACT during CPB		continuous variable
4008	ACTmin	ACTmin	Perfusion	Minimum ACT during CPB		continuous variable
4009	ACTtype	ACTtype	Perfusion	Type of ACT activator (celite or kaolin)		1;"Celite";2;"Kaolin";3;"Other";-99;"Not entered"
4010	Adm date	Adm date	Perfusion	Date Patient admitted/transferred to hospital where surgery performed.	17	date
4011	All PSB reinfused unprocessed	PSB_all	Perfusion	Pericardial suction blood usage		1;"All PSB reinfused unprocessed";2;"Some PSB reinfused unprocessed";3;"Reinfused processed";4;"Not reinfused";-99;"Not Entered"
4012	Anticoag	Anticoag	Perfusion	Type of anticoagulant used for CPB		1;"Heparin";2;"Bivalirudin";3;"Other";-99;"Not entered"
4013	AnticoOth	AnticoOth	Perfusion	Specify name of anticoagulant used if not heparin or bivalirudin, or if a second anticoagulant used.		free text
4015	Antifibtype	Antifibtype	Perfusion	Name of antifibrinolytic drug used		0;"None";1;"Trasylol";2;"Tranexamic acid";3;"Other";-99;"Not entered"
4016	AntiInf	AntiInf	Perfusion	Method of administration of anticoagulant by the anaesthetist.		1;"Bolus";2;"Infusion";3;"Bolus + Infusion";-99;"Not entered"
4017	Aortic cannulation	AortCan	Perfusion	Site of Aortic cannulation		0;"No";1;"Ascending";2;"Transverse";3;"Descending"
4018	Arterial Filter	Artfilt	Perfusion	What type of arterial filter was used?		1;"38-40um";2;"20um";3;"Other";0;"No";-99;"Not Entered"
4019	Arterial Pump roller/centrifugal	Pump	Perfusion	What was the arterial pump type?		1=roller; 2=centrifugal
4020	Average bypass flow (LPM)	Flowavg	Perfusion	Average flow for the duration of bypass from bypass on to bypass off. For electronic data calculate from all data points collected. For manual data average mean arterial pressure from hand reported record		
4021	Average MAP pressure	MAPavg	Perfusion	Average pressure for the duration of bypass from bypass on to bypass off. For electronic data calculate from all data points collected. For manual data average mean arterial pressure from hand reported record		
4022	Axillary Cannulation	AxilCan	Perfusion	Was axillary artery cannulation used?		true/false
4023	Baseline ACT	ACTbase	Perfusion	Baseline ACT before administration of anticoagulant.		
4024	BIS	BIS	Perfusion	Was a bi-spectral index monitor used?		true/false
4025	Blood prime (Red cell concentrate)	BUnitsPrime	Perfusion	Number of units of donor blood in the cardiopulmonary bypass prime		
4026	Bypass Time	CPB_time	Perfusion	Total number of minutes on cardiopulmonary bypass. Enter zero if no cardiopulmonary bypass was used. 0 - 999 minutes.	152	continuous variable

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4027	CoagOth	CoagOth	Perfusion	List other drugs used to promote hemostasis and dose, separated by a comma (eg DDAVP 20ug, etc,)		free text
4028	Coating (total partial none)	Coat	Perfusion	Partial = some components coated, some components uncoated, Total = all components of bypass circuit coated (excluding cannulas), Total + cannula = tip to tip coating, None = no components of the bypass circuit are coated.		0=none; 1=total; 2=partial 3 = total+cannula
4029	Coattype	Coattype	Perfusion	CPB circuit coating type		1;"Carmeda";2;"Trillium";3;"Smart";4;"Physio";5;"X Coating";7;"Softline";6;"Other";-99;"Not entered"
4030	Core temperature on separation (bladder)	Coresep	Perfusion	Core temperature on separation (bladder)		
4031	CPBAnti	CPBAnti	Perfusion	Bolus anticoagulant dose during CPB (units: heparin = iu, bivalirudin = mg)		continuous variable
4032	Duration of rewarming arterial outlet to 36	Art36	Perfusion	Time from minimum temperature to 36C		
4033	Duration of rewarming nasopharyngeal to 36	Naso36	Perfusion	Time from start of rewarming to reach a nasopharyngeal temperature of 36.		
4034	Duration of rewarming to separation	warmtimesep	Perfusion	Time from start of rewarming to separation of bypass.		continuous variable
4035	Femoral arterial cannulation	FemartCan	Perfusion	Was femoral arterial cannulation used?		true/false
4036	Final ACT	ACTlast	Perfusion	Last ACT result before the patient leaves theatre.		
4037	Glucose Management strategy on bypass	Glucstrat	Perfusion	Management strategy for glycemic control during CPB		0=none; 1=bolus insulin, 2=insulin infusion 3 = bolus insulin + infusion
4038	Hemofilter	Hemofilter	Perfusion	Was a Hemofilter used, and when was it set up?		0;"None";1;"Set up pre CPB";2;"Set up during CPB";-99;"Not Entered"
4039	HotShot	HotShot	Perfusion	Was a hot shot used?		0=no; 1=yes
4040	if Other myocardial protection strategy	Myo_oth	Perfusion	Cardioplegia details if not descibed in previous field		free text
4041	Incident - pefusion	Incident	Perfusion	Did a perfusion incident occur? Near miss: an event that could have had adverse consequences but did not. Accident: a failure causing damage or disruption to system or patient		0;"No";1;"Accident";2;"Near Miss";-99;"Not Entered"
4042	Incident - PIRS report	PIRSrep	Perfusion	Was the incident reported to the ANZCP Perfusion Incident Reporting System? (www.anzcp.org)		0=no; 1=yes
4043	Induction temperature	Ind_temp	Perfusion	Temperature of induction dose of cardioplegia		1;"Warm: >35 degrees celcius";2;"Tepid: 32-35 degrees celcius";3;"Mild hypothermia: 28-31.9 degrees celcius";4;"Cold: <28 degrees celcius";6;"Other";90;"None";-99;"Not Entered"
4044	Maintenance temperature	CP_temp	Perfusion	Temperature of cardioplegia maintenance doses (doses subsequent to induction)		1;"Warm: >35 degrees celcius";2;"Tepid: 32-35 degrees celcius";3;"Mild hypothermia: 28-31.9 degrees celcius";4;"Cold: <28 degrees celcius";6;"Other";90;"None";-99;"Not Entered"
4045	Max glucose on bypass	Glucmax	Perfusion	Maximum glucose during CPB (mmol/l)		
4046	Max Hemoglobin on bypass	Hbmax	Perfusion	Maximum haemoglobin concentration during CPB (g/L)		
4047	Maximum arterial outlet temperature on bypass	Artmax	Perfusion	Maximum arterial outlet temperature on bypass		
4048	Maximum flow on bypass (LPM)	Flowmax	Perfusion	Maximum arterial flow recorded during CPB (as stored in electronic record or written on paper chart as applicable).		
4049	Minimum MAP on bypass	MAPmin	Perfusion	Minimum mean arterial pressure during CPB (as stored in electronic record or written on paper chart as applicable).		
4050	Maximum nasopharyngeal temperature on bypass	Nasomax	Perfusion	Maximum nasopharyngeal temperature on bypass		
4051	Min glucose on bypass	Glucmin	Perfusion	Minimum glucose during CPB (mmol/l)		
4052	Min Hemoglobin on bypass	Hbmin	Perfusion	Minimum haemoglobin concentration during CPB (g/L)		
4053	Minimum arterial outlet temperature on bypass	Artmin	Perfusion	Minimum arterial outlet temperature on bypass		
4054	Minimum flow on bypass (LPM)	Flowmin	Perfusion	Minimum flow recorded during CPB (as stored in electronic record or written on paper chart as applicable).		
4055	Maximum MAP on bypass	MAPmax	Perfusion	Maximum mean arterial pressure during CPB (as stored in electronic record or written on paper chart as applicable).		
4056	Minimum nasopharyngeal temperature on bypass	Nasomin	Perfusion	Minimum nasopharyngeal temperature on bypass		
4057	Myocardial protection strategy	Myo_prot	Perfusion	Myocardial protection strategy; cardioplegia type & route, fibrillation, beating heart or other		current codes: 20;"Antegrade cardioplegia";21;"Retrograde cardioplegia";22;"Antegrade + Retrograde cardioplegia"; 7;"Intermitent X clamp + fibrillation";6;"other";-99;"Not Entered";90;"Beating heart" old codes: 1;"blood cardioplegia antegrade only";8;"blood cardioplegia retrograde only";2;"blood cardioplegia antegrade and retrograde" ;3;"microplegia antegrade only";11;"microplegia retrograde only";4;"microplegia antegrade and retrograde" ;5;"crystalloid cardiopleg
4058	Nasopharyngeal temperature on separation from bypass	Nasosep	Perfusion	Nasopharyngeal temperature on separation from bypass		
4059	Other	Mon_oth	Perfusion	Description of other cerebral monitor		free text

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	Variable	Variable Name	Table Name	Definition	ASCTS #	PDU Data Code
4060	Other venous cannulation	VothCan	Perfusion	Method of venous cannulation other than via right atrium		0;"No";1;"IVC direct";2;"SVC direct";4;"Femoral";5;"Other"
4061	pH strategy alph/ph/other	pH_strat	Perfusion	Blood gas(pH) management strategy		1;"alpha stat";2;"pH stat";4;"pH cooling/alpha rewarm";3;"other";-99;"Not Entered"
4062	PreCPBAnti	PreCPBAnti	Perfusion	Total anticoagulant dose (bolus + infusion) pre-bypass given by the anaethetist (units: heparin = iu, bivalirudin = mg)		continuous variable
4063	Preoperative creatinine	Creatpre	Perfusion	Most recent preoperative creatinine (mmol/L) preoperatively	31	
4064	Preoperative glucose	Glucpre	Perfusion	Most recent preoperative glucose concentration (mmol/l)		
4065	Preoperative Hemoglobin	Hbpreop	Perfusion	Most recent preoperative haemoglobin concentration (g/L)		
4066	ProtDose	ProtDose	Perfusion	Total Protamine dose in mg		continuous variable
4067	rCRMO2	rCRMO2	Perfusion	Was a cerebral saturation monitor used?		true/false
4068	Reservoir open / closed	Reserv	Perfusion	What type of venous reservoir was used?		1=open; 2=closed
4069	Right atrial cannulation	AtrCan	Perfusion	Type of right atrial cannulation		0;"No";1;"Single stage";2;"Multiple stage";3;"Bicaval"
4070	Surg date	Surg date	Perfusion	Date on which the first surgical incision was made for the current Cardiac Surgical Procedure.	18	date
4071	SVo2	SVo2	Perfusion	Was a venous saturation monitor used?		true/false
4072	Time arterial outlet temperature >37C	ArtGt37	Perfusion	Cummulative time (minutes) arterial outlet temperature > 37C		
4073	Transfusion in theatre (FFP)	FFP	Perfusion	Number of units of FFP given by the anaesthetist		
4074	Transfusion in theatre (Platelets)	Platelets	Perfusion	Number of units of platelets given by the anaesthetist (or ml/50 rounded up)		
4075	Transfusion in theatre by anaesthesia pre CPB (Red cell concentrate)	BUnitsPreCPB	Perfusion	Number of units of donor blood given by the anaesthetist pre CPB		
4076	Transfusion in theatre by anaesthesia post CPB (Red cell concentrate)	BUnitsAnaes	Perfusion	Number of units of donor blood given by the anaesthetist post CPB		
4077	Transfusion on bypass (Red cell concentrate)	BUnitsCPB	Perfusion	Number of units of donor blood given during cardiopulmonary bypass (not in prime)		
4078	X-clamp Time	X_time	Perfusion	Total number of minutes the aorta is completely cross-clamped and the heart was ischaemic during bypass. Enter zero if no cross clamp was used. 0 - 600 minutes.	151	continuous variable
4079	Heparin In Prime	HepPrime	Perfusion	Dose of anticoagulant in the CPB prime (units: heparin = iu, bivalirudin = mg)		
4080	Coating type - oxygenator	CoatOx	Perfusion	Oxygenator coating type		1;"Carmeda";2;"Trillium";3;"Smart";4;"Physio";5;"X Coating";7;"Softline";6;"Other";-99;"Not entered"
4081	Cell salvage used	Csaver	Perfusion	If a cell saver was set up, what was the model?		1;"Yes";0;"No";-99;"Not Entered"0;"No";2;"Brat 2";3;"Xtra";4;"CATS";5;"Cell saver 5";6;"Electa";-99;"Not Entered"
4083	Cell salvage blood volume reinfused	CsavRein	Perfusion	Cell salvage blood volume reinfused into patient either intravenously or via CPB circuit		
4084	Arterial flow pulsatility	Flowtype	Perfusion	Pulsatility of arterial flow and method		1;"Non pulsatile";2;"Pulsatile - roller pump";3;"Pulsatile - IABP";-99;"Not entered"
4085	Retrograde autologous priming	RAP	Perfusion	Retrograde autologous priming used		1;"Yes";0;"No";-99;"Not Entered"
4086	Retrograde autologous priming volume	RAPvol	Perfusion	The amount of CPB prime removed by retrograde autologous priming		
4087	Prime volume static	PrimeVol	Perfusion	The minimum volume required to prime the CPB circuit tip to tip, including minimum reservoir level and cardioplegia system (not including additional additives after priming).		
4088	Prime volume total	PrimeTot	Perfusion	Static priming volume + additional additives after priming.		
4089	Anticoagulant other dose	AntiOtDose	Perfusion	Specify total dosage (bolus + infusion) of other (or second) anticoagulant.		
4090	Naso temp at start of rewarmimg	WarmTemp	Perfusion	Nasopharyngeal temperature at the initiation of rewarming.		
4091	Anticoagulant other infusion dose	AntiOtInf	Perfusion	Method of administration of anticoagulant by the anaesthetist.		1;"Bolus";2;"Infusion";3;"Bolus + Infusion";-99;"Not entered"
4092	Number of CPB periods	CPBnum	Perfusion	Specify number of CPB periods.		
4093	Number of FFPunits during CPB	FFPunitsCPB	Perfusion	Number of units of FFP given during CPB		
4094	Capnography	Capno	Perfusion	Was oxygenator exhaust gas capnography used to guide pCO2 control?		1;"Yes";0;"No";-99;"Not Entered"
4095	Acute normovolemic hemodilution	ANH	Perfusion	Was acute normovolemic hemodilution used pre CPB?		1;"Yes";0;"No";-99;"Not Entered"
4096	ANH volume	ANHvol	Perfusion	Volume of blood collected pre CPB		
4097	Cell salvage bowl size	Bowl	Perfusion	Enter the bowl size in ml or enter 1 if continuous (CATS)		1;"Continuous";2;"55ml";3;"125ml";4;"135ml";5;"175ml";6;"225ml";7;"250ml"
4098	Number of bowls processed	Bowls	Perfusion	Enter the number of bowls processed or enter 1 if continuous (CATS)		
4099	Cell salvage wash volume	Cswash	Perfusion	Enter the total volume of wash solution used in ml.		
4100	Cell salvage operating mode	Csmode	Perfusion	Which mode was used primarily for processing?		
4101	Haematocrit of processed blood	Csavhct	Perfusion	Enter the haematocrit of the processed blood		
4102	Utilisation of cell salvage	Csutil	Perfusion	Define the operative period for collection of blood into the cell saver		0;"Not used";1;"Throughout";2;"CPB only";3;"Not during CPB";-99;"Not Entered"
4103	Processing of residual pump blood	Csrpb	Perfusion	Processed = some or all residual pump blood processed, Not processed = no residual pump blood processed		
4104	Residual pump blood volume	Pbloodvol	Perfusion	Volume of residual pump blood reinfused unprocessed		
4105	Oxygenator type	Oxygenator	Perfusion	What model of oxygenator was used?		1;"Capiox SX18";2;"Capiox SX25";3;"Capiox RX15";4;"Capiox RX25";5;"Capiox FX15";6;"Capiox FX25";7;"Affinity NT";8;"Synthesis";9;"Primox";10;"Avant";11;"CompactFlo";12;"EOS";13;"Apex HP";14;"Fusion";15;"Inspire 6";16;"Inspire 8";-99;"Not Entered"

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	Variable	Variable Name	Table Name	Definition	ASCTS #	PDU Data Code
4108	Red blood cell units washed	CSRBC	Perfusion	Number of units of red blood cells washed using the cell saver.		
4109	Patient entry into theatre time	Intheatre	Perfusion	Patient entry into theatre time.		
4110	Preoperative HbA1C	HbA1C	Perfusion	Preoperative HbA1C (mmol/mol)		
4111	Innominate artery cannulation	InomArt	Perfusion	Was innominate arterial cannulation used?		true/false
4112	Additional heparin	HepAdd	Perfusion	Additional heparin required to achieve target ACT		true/false
4113	Additional protamine	ProtAdd	Perfusion	Additional protamine required to achieve target ACT		true/false
4114	Cryoprecipitate in theatre	CryoAnaes	Perfusion	Number of units of cryoprecipitate transfused intraoperatively		
4115	Prothrombinex in theatre	ProAnaes	Perfusion	Dosage of Prothrombinex given intaoperatively (IU)		
4116	Trial	Trial	Perfusion	Participation in a randomised clinical trial		
4117	Circulatory arrest	CircArrest	Perfusion	Did the procedure involve deep hypothermic circulatory arrest?		1;"Yes";0;"No";-99;"Not Entered"
4118	Cerebral perfusion	CerPerf	Perfusion	Was cerebral perfusion used?		1;"Antegrade";2;"Retrograde";0;"No";-99;"Not Entered"
4119	Circulatory arrest time	Catime	Perfusion	Duration of circulatory arrest (minutes)		
4120	Cardioplegia type	Cptype	Perfusion	What type of cardioplegia solution was used?	74.2	1;"Hyperkalaemic blood";2;"Hyperkalaemic crystalloid";3;"Bretschneider (Custodial)";4;"Del Nido";5;"Microplegia";6;"Other";90;"None";-99;"Not Entered"
4121	Vacuum assisted venous drainage	VAVD	Perfusion	Was vacuum assisted venous drainage utilised?		true/false
4122	CO2 insufflation	CO2ins	Perfusion	Was CO2 insufflation utilised?		true/false
4123	Electronic data fault	DataError	Perfusion	Was electronic data not recorded for all or part of the case? Indicate whether all data parameters were not recorded for all or part of the case, or whether 1 or more paramters were not recorded.		0;"No";1;"No data collected";2;"Transient loss of data";3;"1 or more variables not collected";-99;"Not Entered"
4124	TEG or ROTEM	TEG	Perfusion	Was TEG or ROTEM performed intraoperatively?		
4125	Cell saver Hct In	HctIn	Perfusion	What was the average Hct In for the cell salvage blood collected?		Yes/No
4126	Continuous blood gas monitoring device	Bgdev	Perfusion	What type of continuous blood gas monitor(s) were used?		1;"CDI";2;"M4";3;"CDI+M4";-99;"Not Entered";90;"None"
4127	Antifibrinolytic dose	Antifibdose2	Perfusion	What was the dose of antifibrinolytic given? (Use: Tranexamic acid = g, Aprotinin = iu)		
4128	Induction temperature	Ind_temp2	Perfusion	Temperature of induction dose of cardioplegia		1;"Warm: >35 degrees celcius";2;"Tepid: 32-35 degrees celcius";3;"Mild hypothermia: 28-31.9 degrees celcius";4;"Cold: <28 degrees celcius";6;"Other";90;"None";-99;"Not Entered"
4129	Maintenance temperature	CP_temp2	Perfusion	Temperature of cardioplegia maintenance doses (doses subsequent to induction)		1;"Warm: >35 degrees celcius";2;"Tepid: 32-35 degrees celcius";3;"Mild hypothermia: 28-31.9 degrees celcius";4;"Cold: <28 degrees celcius";6;"Other";90;"None";-99;"Not Entered"
5000	Death in hospital	Death	Outcomes	Specify whether the patient was alive or dead at discharge from the hospital following the admission during which the surgery occurred (Discharged to Hospital in the Home is considered discharge from hospital.	244	0=no; 1=yes
5001	Disch date	disch date	Outcomes	Date Patient discharged from being an inpatient at the hospital where the procedure was performed. Discharged to Hospital in the Home, rehabilitation hospital or unit or to a local referring hospital is considered as discharge from hospital.	20	
5002	Discharge	Disch	Outcomes	Patient was discharged from the hospital following the admission during which the surgery occurred. Home: Discharged to home, with no planned contact before routine review. Hospital in the home: Discharged to home, with planned visits to home by medical or paramedical staff. Rehabilitation Unit/Hospital: Discharged for inpatient rehabilitation. Local or reffering hospital: Discharged to hospital for continuing acute care.	243	1;"Home";2;"Hospital in the Home";3;"Rehabilitation Unit/Hospital";4;"Local or referring hospital";-99;"Not Entered"
5003	Siezures postoperatively	Enceph	Outcomes	Incidence of postoperative seizures		0=no; 1=yes
5004	Extubation time	ExtubTime	Outcomes	Date/time patient was extubated		
5005	ICU blood transfusions	ICURCC	Outcomes	Number of units of donor blood transfused postoperatively (ICU and ward)	200	continuous variable
5006	ICU FFP tansfusions	ICUFFP	Outcomes	Number of units of FFP transfused postoperatively (ICU and ward)	203	continuous variable
5007	ICU platelet transfusions	ICUPlate	Outcomes	Indicate the number of platelet units transfused. Note: Indicate units and not pooled bags (i.e. a pooled bag is 5 units of platelets, therefore 5 should be entered).	201	continuous variable
5008	ICU stay duration initial	ICU_time	Outcomes	Number of hours spent by the patient in the ICU prior to transfer to the HDU or General Ward (does not include readmission to ICU). Round to the nearest hour eg 6 hours 25 minutes is rounded down to 6 hours, and 6 hours 35 minutes is rounded up to 7 hours. In the unlikely event that the time is exactly 30 minutes between the hour then round up.	207	hr
5010	ICUBloss	ICUBloss	Outcomes	Indicate the blood loss in mls from the pericardial/mediastinal drains in the first 4 hrs post-operation.	208	
5011	Insertion of IABP	IABP	Outcomes	What was the time of earliest IABP insertion? (No if IABP removed preop)	154	1;"Pre Op";2;"CPB";3;"Post CPB";4;"Post Op";0;"No";-99;"Not Entered"

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	Variable	Variable Name	Table Name	Definition	ASCTS #	PDU Data Code
5012	Ventilation time	Int_time	Outcomes	Indicate the number of hours post operation for which the patient was ventilated. Calculate from the date and time of exit from theatre to that of extubation. Round to the nearest hour eg 6 hours 25 minutes is rounded down to 6 hours, and 6 hours 35 minutes is rounded up to 7 hours. In the unlikely event that the time is exactly 30 minutes then round up. Use zero if the patient was extubated on the operating table. Do no count delayed re-intubation time.	206	hr
5013	Intubation time	IntubTime	Outcomes	Date/time patient was intubated		
5014	Length of hospital stay	LOS	Outcomes	Number of total days spent by the patient in hospital		days
5015	Length of postoperative stay	LOpoS	Outcomes	Number of days spent by the patient in hospital postoperatively		days
5016	Max postoperative creatinine	Creatpost	Outcomes	Maximum post-operative creatinine (mmol/L)		
5017	MI intra/postop	Mipost	Outcomes	A peri-operative myocardial infarction is diagnosed by finding at least two of the following three criteria: a: Enzyme level elevation - either (1) CK-MB >30; or (2) trponin > 20.0 mics/L. Or troponin level equivalent documented at your institution. b: New wall motion abnormalities. c: Serial ECG (at least two) showing new Q waves.	218	1;"Yes";0;"No";-99;"Not Entered"
5018	Mortality Data	Mortdata	Outcomes	What was the date of death?	246	date
5019	Mortality Location	Mortloc	Outcomes	Specify the patient location at time of death. Operating Room (OR), Hospital (Other than operating room), Home (Including hospital in the home) Other Care Facility.	247	1;"OR";2;"Hospital";3;"Home";4;"Other Facility";-99;"Not Entered"
5020	Mortality within 30 days of surgery	Mort30day	Outcomes	Specify whether the patient was alive or dead 30 days after the procedure was performed. (Date of surgery counts as day 0).	245	1;"Yes";0;"No";-99;"Not Entered"
5021	New Continous Coma >=24 hours	Newcoma	Outcomes	New post-operative coma that persists for at least 24 hours.	230	1;"Yes";0;"No";-99;"Not Entered"
5022	New Renal Failure	Newrenal	Outcomes	Was there acute post-operative renal insufficiency characterised by one of the following: a. Increased serum creatinine to >0.2mmol/l (>200?mol/l) AND a doubling or greater increase in creatinine over the baseline pre-operative value AND the patient did not require pre-operative dialysis/heamofiltration OR b. A new post-operative requirement for dialysis/haemofiltration (when the patient did not require this pre-operatively). Note: Renal insufficiency must not be present pre-operatively. Pre-operative renal transplant does not count as renal insufficiency if the patient did not have impaired liver function and did not require dialysis/heamofiltration.	216	1;"Yes";0;"No";-99;"Not Entered"
5023	Return to theatre	ReturnTh	Outcomes	Reason for return to theatre	232-237	0=no; 1=Valve dysfunction; 2=Bleeding; 3=Graft occlusion; 4=Deep sternal infection; 5=Other cardiac; 6= Other non-cardiac
5024	Stroke in hospital	Stroke	Outcomes	A new central neurologic deficit persisting for > 72 hours.	228	1;"Yes";0;"No";-99;"Not Entered"
5025	Return to ICU	ICUreturn	Outcomes	Was the patient returned to ICU following transfer to the HDU or general ward?	205	1;"Yes";0;"No";-99;"Not Entered"
5027	Postoperative dialysis	poDialys	Outcomes	Dialysis/hemofiltration used postoperatively		1;"Yes";0;"No";-99;"Not Entered"
5028	Cause of death	MortCause	Outcomes	Specify the PRIMARY cause of death, i.e. the first significant abnormal event which ultimately led to death	209	1;"Cardiac";2;"Neurologic";3;"Renal";4;"Vascular";5;"Infection";6;"Pulmonary";7;"Valvular";8;"Multisystem failure";9;"Other";10;"Unknown";11;"Pulmonary";12;"Aortic";-99;"Not Entered";0;"Survived"
5030	ICU Cryoprecipitate	ICUcryo	Outcomes	Number of units of cryoprecipitate transfused postoperatively (ICU and ward)		
5031	ICU Factor7	ICUF7	Outcomes	Dosage of Factor 7 given postoperatively (ICU and ward) (units)	220	
5032	Use of VAD following CPB	VAD	Outcomes	Was a ventricular assist device used following CPB?		1;"Yes";0;"No";-99;"Not Entered"
5033	Use of ECMO following CPB	ECMO	Outcomes	Was extracorporeal membrane oxygenation used following CPB?		1;"Yes";0;"No";-99;"Not Entered"
5034	Septicaemia	Septic	Outcomes	Septicaemia requires positive blood cultures supported by at least two of the following indeces of clinical infection: A. Fever B. Elevated granulocyte cell counts C. Elevated and increasing CRP D. Elevated and increasing ESR, post-operatively.	281	1:Yes, 0:No
5035	Deep sternal wound infection	DSWI	Outcomes	Involves muscle and bone, with or without mediastinal involvement, as demonstrated by surgical exploration. Must have: wound debridement and one of the following: a. Positive culture b. Treatment with antibiotics	269	1:Yes, 0:No
5036	Pneumonia	Pneum	Outcomes	Pneumonia diagnosed by one of the following: positive cultures of sputum or trans-tracheal aspirate and consistent with clinical findings of pneumonia (should include radiological changes).	267	1:Yes, 0:No
5037	ICU readmission	ICUread	Outcomes	What was the reason for readmission to the ICU?		
5038	GI complication	GIcomp	Outcomes	Did the patient develop any GIT complication post-operatively including any of the following: a.GI bleeding requiring transfusion b.Pancreatitis with abnormal amylase/lipase requiring nasogastric suction therapy c.Cholecystitis requiring cholecystectomy or drainage d.Mesenteric ischaemia requiring exploration e.Hepatitis. F.Other GI complication	129	1;"Yes";0;"No";-99;"Not Entered"
5039	Prothrombinex in ICU	ProICU	Outcomes	Dosage of Prothrombinex given postoperatively (IU) ICU & ward		
5040	Max creatinine 48hrs postop	Creat48	Outcomes	Maximum creatinine within 48hrs postoperatively. (AKIN definition requirement)		

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	Variable	Variable Name	Table Name	Definition	ASCTS #	PDU Data Code
6000	artP30	artP30	QC	Cummulative time (minutes) arterial pressure < 30 mmHg		
6001	artP40	artP40	QC	Cummulative time (minutes) arterial pressure < 40 > 30 mmHg		
6002	artP50	artP50	QC	Cummulative time (minutes) arterial pressure < 50 > 40 mmHg		
6003	artP60	artP60	QC	Cummulative time (minutes) arterial pressure < 60 > 50 mmHg		
6004	artP70	artP70	QC	Cummulative time (minutes) arterial pressure < 70 > 60 mmHg		
6005	artPGT70	artPGT70	QC	Cummulative time (minutes) arterial pressure > 70 mmHg		
6006	ATemp>37	ATemp>37	QC	Cummulative time (minutes) arterial temperature > 37 C		
6007	ATemp>375	ATemp>375	QC	Cummulative time (minutes) arterial temperature > 37.5 C		
6008	ATemp>38	ATemp>38	QC	Cummulative time (minutes) arterial temperature > 38 C		
6009	ATemp>385	ATemp>385	QC	Cummulative time (minutes) arterial temperature > 38.5 C		
6010	ATemp>39	ATemp>39	QC	Cummulative time (minutes) arterial temperature > 39 C		
6011	CI	CI	QC	Cummulative time (minutes) cardiac index < 1.6 l/min/m2 (not including partial CPB)		
6012	CI16	CI16	QC	Was there a cummulative time (minutes) cardiac index < 1.6 l/min/m2 > 2 minutes?		1;"Yes";0;"No";-99;"Not Entered"
6013	CI18	CI18	QC	Cummulative time (minutes) cardiac index < 1.8 l/min/m2 (not including partial CPB)		
6014	CI20	CI20	QC	Cummulative time (minutes) cardiac index < 2.0 l/min/m2 (not including partial CPB)		
6015	CPP<30	CPP<30	QC	Cummulative time (minutes) cerebral perfusion pressure < 30 mmHg		
6016	CPP<40	CPP<40	QC	Cummulative time (minutes) cerebral perfusion pressure < 40 mmHg		
6017	CPP<50	CPP<50	QC	Cummulative time (minutes) cerebral perfusion pressure < 50 mmHg		
6018	Hb	Hb	QC	Was there a minimum Hb during CPB < 70 g/l		
6019	maxArtP30	maxArtP30	QC	Maximum consecutive time (minutes) arterial pressure < 30 mmHg		
6020	maxArtP40	maxArtP40	QC	Maximum consecutive time (minutes) arterial pressure < 40 mmHg		
6021	maxArtP50	maxArtP50	QC	Maximum consecutive time (minutes) arterial pressure < 50 mmHg		
6022	maxAWarmRate	maxAWarmRate	QC	Maximum rate of arterial rewarming (C/min) over 1 minute		
6023	maxAWarmRate2	maxAWarmRate2	QC	Maximum rate of arterial rewarming (C/min) over 2 minutes		
6024	maxNWarmRate	maxNWarmRate	QC	Maximum rate of nasopharyngeal rewarming (C/min) over 1 minute		
6025	maxNWarmRate2	maxNWarmRate2	QC	Maximum rate of nasopharyngeal rewarming (C/min) over 2 minutes		
6026	P40	P40	QC	Was there a cummulative time (minutes) arterial pressure < 40 > 5 mins		
6027	PCO2	PCO2	QC	Was there a PCO2 during CPB < 35 or > 45 mmHg?		
6028	pH	pH	QC	Was there a pH during CPB < 7.35 or > 7.45 mmHg?		
6029	PO2	PO2	QC	Was there a minimum pO2 during CPB < 100mmHg?		
6030	temp38	temp38	QC	Was there an arterial outlet temperature during CPB > 37 C > 2 minutes?		
6031	venSat	venSat	QC	Cummulative time (minutes) venous saturation < 60% (not including partial CPB)		
6032	venSat50	venSat50	QC	Cummulative time (minutes) venous saturation < 50% (not including partial CPB)		
6033	venSat70	venSat70	QC	Cummulative time (minutes) venous saturation < 70% (not including partial CPB)		
6034	VSat60	VSat60	QC	Was there a cummulative time (minutes) venous saturation < 60% (not including partial CPB) > 5 minutes?		
6035	Hb6	Hb6	QC	Was there a minimum Hb during CPB < 60 g/l		
6036	Comments	Comments	QC	Describe factors that influenced why quality indicators were detected in addition to the drop down boxes for pCO2, arterial temperature and blood glucose. The purpose of obtaining this information is to identify factors that we can focus on for quality improvement and also as an explanation of why quality indicators were detected. If there is a reason for the case to be alerted from a safety or improvement perspective then check the tickbox and provide a reason for the alert.		
6037	Benchmark arterial temperature quality indicator reason	Bmart	QC	Describe the leading factor that influenced why the quality indicator was detected for each of the benchmark criteria.		
6038	Benchmark CO2 quality indicator reason	BMco2	QC	Describe the leading factor that influenced why the quality indicator was detected for each of the benchmark criteria.		
6039	Benchmark glucose quality indicator reason	Bmgluc	QC	Describe the leading factor that influenced why the quality indicator was detected for each of the benchmark criteria.		
6040	CDIpCO35	CDIpCO35	QC	Cummulative time (minutes) arterial pCO2 < 35 mmHg		
6041	CDIpCO45	CDIpCO45	QC	Cummulative time (minutes) arterial pCO2 > 45 mmHg		
6042	CDIpO2	CDIpO2	QC	Cummulative time (minutes) arterial pO2 < 100 mmHg		
6043	Blood gas samples CPB	Bgsamp	QC	Number of blood gas samples performed during CPB		
6044	ACT samples CPB	ACTsamp	QC	Number of ACT samples performed during CPB		
6047	Alert for quality review	Alert	QC	Should the procedure be reviewed for quality improvement purposes?		
6048	ATemp>36	ATemp>36	QC	Cummulative time (minutes) arterial temperature > 36 C		
6049	ATemp>36.5	ATemp>365	QC	Cummulative time (minutes) arterial temperature > 36.5 C		
6050	Glucose QI	Gluc	QC	CPB blood glucose QI <4 or >10		
6051	Maximum CPB lactate	Lacmax	QC	Maximum CPB lactate		
6052	Minimum CPB lactate	Lacmin	QC	Minimum CPB lactate		

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	Variable	Variable Name	Table Name	Definition	ASCTS #	PDU Data Code
6053	Low flow request	lowflow	QC	Was there a request for low flow during CPB?		
6054	Minimum CPB pCO2	PCO2min	QC	Minimum CPB pCO2		
6055	Maximum CPB pCO2	PCO2max	QC	Maximum CPB pCO2		
6056	Minimum CPB pH	pHmin	QC	Minimum CPB pH		
6057	Maximum CPB pH	pHmax	QC	Maximum CPB pH		
6058	Minimum CPB pCO2	PCO2min	QC	Minimum CPB pCO2		
6059	Maximum CPB pH	pHmax	QC	Maximum CPB pH		