

Table	Description
DEMOGRAPHICS	Table of cohort demographics, one row per patient
OUTCOMES	Table of patient outcomes, one row per patient
PATHOLOGY	Table of blood tests & results
COMORBIDITIES	Table of comorbidities and diagnoses
DIAGNOSIS	Table of time and clinical findings at diagnosis
VITALSIGNS	Table of vital signs
THERAPIES	Table of therapies administered including transfusions
RESPSUPPORT	Table of respiratory support
RADIOLOGY	Table of radiological studies
SURGERY	Table of surgical procedures and findings
BLOODCULTURES	Table of pathological results for blood cultures

Table	Column	Type	Manual	Enumerations	Description
DEMOGRAPHICS	SITE	Text		Yes	Identifier of the source Hospital Trust
DEMOGRAPHICS	STUDY_ID	Text			Pseudonymised ID unique to each patient
DEMOGRAPHICS	SEX	Text		Yes	Patient sex
DEMOGRAPHICS	BIRTHWEIGHT	Float			Patient birthweight (in grams)
DEMOGRAPHICS	GESTATIONAL_AGE	Float			Patient gestational age at birth in weeks and days
OUTCOMES	STUDY_ID	Text			Pseudonymised ID unique to each patient
OUTCOMES	DATE_OF_DEATH	Datetime			Date of death, including timestamp
OUTCOMES	NEC_DEATHCERT	Text	x	Yes	Necrotising enterocolitis on death certificate?
OUTCOMES	DATE_PN_STOP	Date			Date parenteral nutrition stopped
OUTCOMES	DISCHARGE_DATE	Date			Date of discharge from hospital
PATHOLOGY	STUDY_ID	Text			Pseudonymised ID unique to each patient
PATHOLOGY	TEST_CODE	Text		Yes	Pathology test code
PATHOLOGY	SAMPLE_DATE	Datetime			Date sample obtained
PATHOLOGY	RESULT_DATE	Datetime			Date result reported
PATHOLOGY	RESULT	Text			Result value stored as text
PATHOLOGY	RESULT_NUMERIC	Float			Result value converted to float, if result is numeric
PATHOLOGY	OPERATOR	Text		Yes	'<' and '>' operators, if result falls outside of range of quantification
PATHOLOGY	RANGE_FLAG	Text		Yes	Classification of result with respect to normal ranges
PATHOLOGY	RANGE_LOW	Float			Lower normal numerical range
PATHOLOGY	RANGE_HIGH	Float			Upper normal numerical range
PATHOLOGY	UNITS	Text			Result units (e.g. ng/L)
COMORBIDITIES	STUDY_ID	Text			Pseudonymised ID unique to each patient
COMORBIDITIES	DATE_RECORDED	Datetime			Date of comorbidity recording
COMORBIDITIES	ICD_DIAGNOSIS	Text			Diagnosis ICD10 Code
COMORBIDITIES	TYPE	Text		Yes	Diagnosis or comorbidity
DIAGNOSIS	STUDY_ID	Text			Pseudonymised ID unique to each patient
DIAGNOSIS	NEC_DATE	Datetime	x		Date and time of NEC diagnosis
DIAGNOSIS	NEC_AGE	Float	x		Age in days at NEC diagnosis
DIAGNOSIS	NEC_WEIGHT	Float	x		Weight at diagnosis (in grams)
DIAGNOSIS	NEC_ENT	Text	x	Yes	Enterally fed prior to diagnosis?
DIAGNOSIS	NEC_SEIZ	Text	x	Yes	Seizure in 24 hours prior to diagnosis?
DIAGNOSIS	NEC_BLOOD	Text	x	Yes	Blood in stool at diagnosis?
DIAGNOSIS	ABDO_DIS	Text	x	Yes	Abdominal distension at diagnosis?
DIAGNOSIS	ABDO_COL	Text	x	Yes	Abdominal discolouration at diagnosis?
DIAGNOSIS	ABDO_ERY	Text	x	Yes	Abdominal erythema at diagnosis?
DIAGNOSIS	ABDO_TEN	Text	x	Yes	Abdominal tender at diagnosis?
DIAGNOSIS	ABDO_MASS	Text	x	Yes	Abdominal mass at diagnosis?
DIAGNOSIS	ABDO_IND	Text	x	Yes	Abdominal induration at diagnosis?
DIAGNOSIS	ABDO_PER	Text	x	Yes	Peritonitis at diagnosis?

DIAGNOSIS	CAP_REFILL	Text	x	Capillary refill at diagnosis?
VITALSIGNS	STUDY_ID	Text		Pseudonymised ID unique to each patient
VITALSIGNS	TYPE_CODE	Text	Yes	Vital sign type code
VITALSIGNS	RESULT_DATE	Datetime		Date result reported
VITALSIGNS	RESULT	Float		Result value converted to float, if result is numeric
VITALSIGNS	UNITS	Text		Result units (e.g. mmHg)
THERAPIES	STUDY_ID	Text		Pseudonymised ID unique to each patient
THERAPIES	DRUG_TRANF	Text		Name of drug administered, infusion or transfusion type
THERAPIES	DRUGTRANF_DATE	Datetime		Date and time of administration
RESPSUPPORT	STUDY_ID	Text		Pseudonymised ID unique to each patient
RESPSUPPORT	RESP_METHOD	Text	Yes	Method of respiratory support
RESPSUPPORT	VENT_PIP	Float		Peak inspiratory pressure (cmH2O)
RESPSUPPORT	VENT_PEEP	Float		Positive end expiratory pressure (cmH2O)
RESPSUPPORT	FIO2	Float		Inspired oxygen fraction (%)
RESPSUPPORT	RESP_DATE	Datetime		Date and time of respiratory support
RESPSUPPORT	NIO2	Text	Yes	Nitric oxide administered?
RADIOLOGY	STUDY_ID	Text		Pseudonymised ID unique to each patient
RADIOLOGY	RAD_TYPE	Text	Yes	Type of radiology study
RADIOLOGY	RAD_DATE	Datetime		Date and time of study
RADIOLOGY	RAD_REPORT	Text		Report findings
SURGERY	STUDY_ID	Text		Pseudonymised ID unique to each patient
SURGERY	SURG_DATE	Datetime		Date and time of surgery
SURGERY	SURG_FIND	Text		Surgical findings
SURGERY	SURG_PROC	Text		Surgical procedure undertaken
BLOODCULTURES	STUDY_ID	Text		Pseudonymised ID unique to each patient
BLOODCULTURES	REQUEST_DATE	Datetime		Date that the blood culture was ordered/requested
BLOODCULTURES	SAMPLE_DATE	Datetime		Date that the blood sample was taken
BLOODCULTURES	RESULT_DATE	Datetime		Date that the result was reported
BLOODCULTURES	RESULT	Text	Yes	Test result
BLOODCULTURES	HOURS_INCUBATED	Float		Hours incubated for positive result
BLOODCULTURES	DATE_SAMPLE_LOADED	Datetime		Datetime that the culture bottle was loaded
BLOODCULTURES	SAMPLE_LOADED_TYPE	Text	Yes	Whether the load datetime was specifically recorded, or was instead derived or estimated

Table	Column	Code	Description	Additional Notes	ParameterID
DEMOGRAPHICS	SITE	UHS	University Hospital Southampton		
DEMOGRAPHICS	SITE				
DEMOGRAPHICS	SITE				
DEMOGRAPHICS	SITE				
DEMOGRAPHICS	SEX	M	Male		
DEMOGRAPHICS	SEX	F	Female		
DEMOGRAPHICS	NEC_DEATHCERT	Y	Yes		
DEMOGRAPHICS	NEC_DEATHCERT	N	No		
PATHOLOGY	TEST_CODE	BAS	Basophils		
PATHOLOGY	TEST_CODE	EOS	Eosinophils		
PATHOLOGY	TEST_CODE	HB	Haemoglobin (Lab Tested)		
PATHOLOGY	TEST_CODE	LYM	Lymphocytes		
PATHOLOGY	TEST_CODE	MON	Monocytes		
PATHOLOGY	TEST_CODE	NEUT	Neutrophils		
PATHOLOGY	TEST_CODE	PLT	Platelets		
PATHOLOGY	TEST_CODE	RBC	Red Blood Cells		
PATHOLOGY	TEST_CODE	WBC	White Blood Cells		
PATHOLOGY	TEST_CODE	CREAT	Creatinine		
PATHOLOGY	TEST_CODE	K	Potassium		
PATHOLOGY	TEST_CODE	NA	Sodium		
PATHOLOGY	TEST_CODE	UREA	Urea		
PATHOLOGY	TEST_CODE	CRP	C-Reactive Protein		
PATHOLOGY	TEST_CODE	APTR	Activated Partial Thromboplastin Time Ratio		
PATHOLOGY	TEST_CODE	INR	International Normalised Ratio		
PATHOLOGY	TEST_CODE	TP	Total Protein		
PATHOLOGY	TEST_CODE	ALB	Albumin		
PATHOLOGY	TEST_CODE	BIL	Bilirubin		
PATHOLOGY	TEST_CODE	ALP	Alkaline Phosphatase		
PATHOLOGY	TEST_CODE	ALT	Alanine Aminotransferase		
PATHOLOGY	TEST_CODE		Base Excess (POCT)		
PATHOLOGY	TEST_CODE		Bicarbonate (POCT)		
PATHOLOGY	TEST_CODE		paCO2 (POCT)		
PATHOLOGY	TEST_CODE		Glucose (POCT)		
PATHOLOGY	TEST_CODE		Lactate (POCT)		
PATHOLOGY	TEST_CODE		pH (POCT)		
PATHOLOGY	TEST_CODE		Potassium (POCT)		
PATHOLOGY	TEST_CODE		Sodium (POCT)		
PATHOLOGY	TEST_CODE		Total Haemoglobin (POCT)		
PATHOLOGY	OPERATOR	<	Less than the lower limit of quantification		

PATHOLOGY	OPERATOR	>	Greater than the upper limit of quantification		
PATHOLOGY	RANGE_FLAG	H	Greater than the upper bound of the normal range		
PATHOLOGY	RANGE_FLAG	L	Less than the lower bound of the normal range		
PATHOLOGY	RANGE_FLAG	N	Within the normal range		
DIAGNOSIS	NEC_ENT	Y	Yes		
DIAGNOSIS	NEC_ENT	N	No		
DIAGNOSIS	NEC_SEIZ	Y	Yes		
DIAGNOSIS	NEC_SEIZ	N	No		
DIAGNOSIS	NEC_BLOOD	Y	Yes		
DIAGNOSIS	NEC_BLOOD	N	No		
DIAGNOSIS	ABDO_DIS	Y	Yes		
DIAGNOSIS	ABDO_DIS	N	No		
DIAGNOSIS	ABDO_COL	Y	Yes		
DIAGNOSIS	ABDO_COL	N	No		
DIAGNOSIS	ABDO_ERY	Y	Yes		
DIAGNOSIS	ABDO_ERY	N	No		
DIAGNOSIS	ABDO_TEN	Y	Yes		
DIAGNOSIS	ABDO_TEN	N	No		
DIAGNOSIS	ABDO_MASS	Y	Yes		
DIAGNOSIS	ABDO_MASS	N	No		
DIAGNOSIS	ABDO_IND	Y	Yes		
DIAGNOSIS	ABDO_IND	N	No		
DIAGNOSIS	ABDO_PER	Y	Yes		
DIAGNOSIS	ABDO_PER	N	No		
VITALSIGNS	TYPE_CODE	HR	Heart rate (bpm)	*Heart rate	78
VITALSIGNS	TYPE_CODE	SBP	Systolic blood pressure (non-invasive)	*Non-invasive systolic blood pressure	132
VITALSIGNS	TYPE_CODE	DBP	Diastolic blood pressure (non-invasive)	*Non-invasive diastolic blood pressure	130
VITALSIGNS	TYPE_CODE	MAP	Mean blood pressure (non-invasive)	Non-invasive mean arterial pressure	131
VITALSIGNS	TYPE_CODE	SBPI	Systolic blood pressure (invasive)	*Systolic blood pressure	219
VITALSIGNS	TYPE_CODE	DBPI	Diastolic blood pressure (invasive)	*Diastolic blood pressure	51
VITALSIGNS	TYPE_CODE	MAPI	Mean blood pressure (invasive)	Mean arterial pressure	120
VITALSIGNS	TYPE_CODE	SATS	Oxygen sats peripheral	Peripheral oxygen saturation	1549
VITALSIGNS	TYPE_CODE	RR	Respiratory rate	*Respiration rate	183
VITALSIGNS	TYPE_CODE	CTEMP	Core temperature	Skin Temperature (Core)	6150
VITALSIGNS	TYPE_CODE	PTEMP	Peripheral temperature	Skin Temperature (Toe)	6151
VITALSIGNS	TYPE_CODE	UOP	Urine output (mls/hr)	Urine output (ml/kg/hour)	16161
RESPSUPPORT	RESP_METHO	HFO2	High flow oxygen		
RESPSUPPORT	RESP_METHO	CPAP	Continuous positive airway pressure		
RESPSUPPORT	RESP_METHO	BiPAP	Biphasic Positive Airway Pressure		
RESPSUPPORT	RESP_METHO	VENT	Endotracheal ventilation		28282
RESPSUPPORT	RESP_METHO	HFO	High frequency oscillation		

RESPSUPPORT	NIO2	Y	Yes
RESPSUPPORT	NIO2	N	No
RADIOLOGY	RAD_TYPE	CXR	Chest radiograph
RADIOLOGY	RAD_TYPE	AXR	Abdominal radiograph
RADIOLOGY	RAD_TYPE	CAXR	Chest and abdomen radiograph
RADIOLOGY	RAD_TYPE	AUS	Abdominal ultrasound
RADIOLOGY	RAD_TYPE	CUS	Cranial ultrasound
COMORBIDITIES	TYPE	DIAG	Primary Diagnosis
COMORBIDITIES	TYPE	COMORB	Comorbidity
BLOOD_CULTURES	RESULT	Absent	Negative blood culture
BLOOD_CULTURES	RESULT	Present	Positive blood culture
BLOOD_CULTURES	SAMPLE_LOADED_TYPE	Estimated	Bottle loading time estimated or derived (e.g. from result/report time minus hours incubated)
BLOOD_CULTURES	SAMPLE_LOADED_TYPE	Reported	Bottle loading time specifically reported