

The European Registry for Patients with Mechanical Circulatory Support



Upload-My-Data file specification

Version: 1.4

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Glossary of terms and definitions

Multi-choice separator

The Multi-choice separator (MCS) is a character that is used to separate values in a multi-choice field that contains two or more coded values. This separator is included in the first column of each row of every upload file. The separator may be a comma, a semicolon, a caret, *etc.*.

Field separator

As described above, the first column in any Upload-My-Data data-file should contain a single-character to be used as the multi-choice separator. The second character in any Upload-My-Data must, therefore, be the file's field separator. The Upload-My-Data program scans the data-file and detects this second character, and then assumes that this is the field separator for the whole file. So, the field separator may be any character, as long as it is used consistently throughout the upload file, but cannot be any character that is included in the dataset, nor the character used as the multi-choice separator.

Layout specification version

Layout Specification Version is the version of layout defined by this specification. For this specification the column should contain the value "1". This allows the Upload-My-Data utility to check that the data files being imported are interpreted using the correct definition.

Submitter code

The Submitter code is an alpha code that is used to identify the group to which the data belong. The code will be provided to each person who registers on the system by the euroMACS / Dendrite administration team. Each record in the upload files must be tagged with a valid Submitter code, otherwise they will be rejected out-of-hand.

DEMOGID

DEMOGID is a value that uniquely identifies each patient. Only one patient record is created for each DEMOGID. If there are multiple Baseline records for a given patient, they must all have the same DEMOGID. This will typically be an integer value, such as a RowID from the source database's demographic data table.

The euroMACS database is an anonymised database, so it is important that this DEMOGID should NOT be something that could be used to identify the patient in reality (such as a hospital number).

ImportLinkID

ImportLinkID is an integer value that is unique to each operation record in the Baseline upload file, and is used to identify the operation. Data in the Baseline and Follow up files are linked *via* this identifier.

Database field type

Mandatory

Must be present in the record. Any record with missing mandatory data will NOT be imported into the merged euroMACS.

Desirable

Deemed to be important for data analysis, but not a requisite for an entry in the merged registry.

Optional

Part of the euroMACS minimum dataset, but neither mandatory nor desirable.

Date

All date data must be in ODBC format: yyyy-mm-dd *e.g.*, 2012-04-23

Time

All time data must be in ODBC format: hh:nn:ss *e.g.*, 12:43:22

SingleChoice

One code from the specified list.

TableSingleChoice

One code from the lookup table indicated.

MultiChoice

The code(s) only. Multiple codes should be separated by your defined delimiter of choice (see "Multi-choice separator" on page 2); *e.g.*, 1,2,3.

Integer

A whole number such as 1 or 25 or 55 or 105, providing the constraints are not breached.

Floating point

Numeric values like 0.54 or 243.21, providing the constraints are not breached.

String

Any combination of characters excepting control characters. Only a single line of text is permitted; carriage returns are not acceptable. Other conditions / limitations for specific string fields are detailed on a field-by-field basis.

Changes in version 1.2

Changes to spellings

Version 1.3 of the specification makes changes to the spellings of various field header names that were misspelled in the original implementation of the Registry. These errors have now been fixed in the registry, and the Upload-My-Data header names need to change to reflect these changes. The following lists summarise the changes that were made.

Baseline

Previous spelling	Corrected spelling
BICABONATEPOSTOP	BICARBONATEPOSTOP
HISTORYOFPREVIOUSALCHHOHOLABUSE	HISTORYOFPREVIOUSALCOHOLABUSE
LVADCONSOLETRACKINGNUMER	LVADCONSOLETRACKINGNUMBER
NITRIDOXIDE	NITRICOXIDE
PULMONARYREGUGITATION	PULMONARYREGURGITATION
SYMPTOMATICPERIPHERALVASCULARDI	SYMPTOMATICPERIPHERALVASCULARDISEASE
WHICHOFTHETFOLLOWINGBESTDESCRIBESYOURMAINACTIVITY	WHICHOFTHETFOLLOWINGBESTDESCRIBESYOURMAINACTIVITY

Followup

Current Spelling	Correct Spelling
PULMONARYREGUGITATION	PULMONARYREGURGITATION
WHICHOFTHETFOLLOWINGBESTDESCRIBESYOURMAINACTIVITY	WHICHOFTHETFOLLOWINGBESTDESCRIBESYOURMAINACTIVITY

Changes in version 1.3

Version 1.3 of the specification makes further changes to include two fields that were inadvertently omitted from the previous specification.

Initial

The field DATESWANGANZINSERTED has been added. NOTE: this was previously called DATESWANGANZMEASURED in the Registry definition.

Followup

The field PULMONARYREGURGITATION has been added.

Changes in version 1.4

The field **DEVICETYPE** was changed from a **Desirable** to **Mandatory** question type.

Upload file

Baseline

fields included:

Multichoice separator	Date of CHF assessment	Shunt Ratio (Qp/Qs)
Layout specification version	Quality of Life assessment	Pulmonary artery systolic pressure
Submitter code	Date Quality of Life assessed	Pulmonary artery diastolic pressure
Import link ID	LV - SF	Mean pulmonary artery pressure
Patient identifier	LVSF Status	Pulmonary artery wedge pressure
Institution	Mitral regurgitation	PA capillary wedge pressure
Country	Tricuspid regurgitation	RA pressure
Blood type	Aortic regurgitation	SVR
Rhesus factor	Pulmonary regurgitation	PVR
Age in years	LV - EF	Cardiac Index
Age in months	LV - EF	Cardiac Output
Age in weeks	LV - EDD	Currently on intravenous inotropes
Gender	LV-EDD Status	Angiotensin receptor blocker (ARB)
Ethnic origin	LV - ESD	ACE inhibitors
Marital status	LV-ESD Status	Nitric oxide
Highest education attainment	LV - EDV	Neseritide
Working for income	LV-EDV Status	Amiodarone
Reason for not working	LV - ESV	Beta-blockers
If working, please specify	LV-ESV Status	Loop diuretics
Baseline Data Complete	RV function	Aldosterone antagonist
Date of admission	TAPSE	Antiplatelet drugs
Echo	TAPSE Status	Other anticoagulant drugs status
Date of Echo	Heart Rate Status	Other anticoagulant drugs
General haemodynamics	Heart rate	Sodium
Date General Haemodynamics measured	Systolic BP status	Sodium
Medication prior to admission	Systolic BP	Sodium status
Medication review date	Diastolic BP Status	Potassium
Blood test on admission	Diastolic BP	Potassium
Date of blood test	Volume Status (peripheral edema)	Potassium status
Swan Ganz	Ascites	Blood Urea Nitrogen
Date Swan Ganz inserted	ECG rhythm (cardiac rhythm)	Blood urea nitrogen status
Exercise test	Height	Creatinine
Date of exercise test	Weight	Creatinine
Six minute walk	BSA	Creatinine status
Congestive Heart Failure assessment	Body Mass Index	SGPT/ALT

Upload file

Baseline

fields included:

SGPT/ALT	Platelet	Modifier 'A' - Arrhythmia
SGPT/ALT status	Platelet status	Modifier 'TCS'
SGOT/AST	pH	Modifier 'FF'
SGOT/AST	pH status	Six minute walk distance
SGOT/AST status	Lactate	VO2 max
LDH	Lactate status	R value at peak
LDH status	Bicarbonate (HCO3)	Mobility
Total Bilirubin	Bicarbonate (HCO3) status	Self care
Total Bilirubin	Plasma free Haemoglobin	Usual Activities
Total bilirubin status	Plasma free haemoglobin status	Pain/discomfort
Bilirubin direct	Positive antiheparin/platelet antibody (HIT)	Anxiety/depression
Bilirubin direct	Is the patient on anticoagulants?	EuroQOL - EQ5D Health Status
Bilirubin direct status	INR	Your own health state today
Bilirubin indirect	INR status	Have you experienced serious illness
Bilirubin indirect	PTT	Have your family experienced serious illness?
Bilirubin indirect status PreOp	PTT status	Have you experienced serious illness in caring for others
Albumin	TEG profile - MA k	Are you smoking
Albumin	TEG Profile MAkStatusPreOp	Do you now or did you ever work in health or social services
Albumin status	TEG profile - R k	Which of the following best describes your main activity
Pre Albumin	TEG Profile R k Status PreOp	Current device strategy
Pre albumin status	TEG profile - R h	Possible listing for transplantation
Cholesterol	TEG Profile RhStatusPreOp	Additional indication for VAD
Cholesterol	Protein C	Enter cardiac operation
Cholesterol status	ProteinCStatusPreOp	Enter List Date
Brain natriuretic peptide BNP	Protein S	Implant decision date
Brain natriuretic peptide BNP status	ProteinSStatusPreOp	Eligibility / Contraindications for transplant
NT pro brain natriuretic peptide Pro BNP	Anti phospholipid IgG	Time since first cardiac diagnosis
CRP C Reactive Protein	AnitphosphoipidIgGStatusPreOp	Primary diagnosis
CRPStatusPreOp	NYHA class	Congenital heart disease
White blood cell count	Ross Classification of Congestive Heart Failure	Secondary diagnosis
White blood cell count status	CHF - No growth failure details	Responsible toxin
Reticulocyte count	CHF - Growth failure details	
Reticulocyte count status	CHF - Symptoms at rest details	
Haemoglobin	INTERMACS patient profile	
Haemoglobin status		

Upload file

Baseline

fields included:

Known cardiac biopsy	Carotid artery disease	LVAD PI
Reason for admission	History of neurological event	LVAD OI
Major infections	Cancer other than local skin cancer	LVAD output
Location of infection	Any active treatment at time of implant for cancer other than local cancer	LVAD Rate
Infection type	Smoking history	LVAD control mode
Current ICD device in place	Number of pack years	LVAD eject
Cardiac arrest	Pack years status	LVAD time
Dialysis	History of previous alcohol abuse	LVAD minimum pressure
Intubation	Current alcohol use	LVAD maximum pressure
Major Myocardial Infarction	Drug abuse	LVAD Systole
Cardiac surgery	Transfusion history	LVAD Diastole
Positive blood cultures	Date of VAD procedure	LVAD % systole
Other surgical procedures	Device type	Device brand (RVAD)
IV inotrope therapy immediately prior to implant	Time in OR for implant	RVAD device tracking number
IABP	CPB time	RVAD console tracking number
Other VAD	Other surgery associated with this VAD procedure	RVAD type of driving
Ultrafiltration	Date of other surgery	RVAD: cannulae location - inflow
Ventilator	Congenital	RVAD Flow oxygenator
ECMO	Valve surgery	RVAD flow
Feeding tube	Other procedures	RVAD pump speed
Diabetes	Device brand (LVAD)	RVAD power
Insulin-dependent	LVAD device tracking number	RVAD pressure venous
Cardiac rhythm	LVAD console tracking number	RVAD pressure arterial
COPD	LVAD type of driving	RVAD pressure intern.
Symptomatic peripheral vascular disease	LVAD: cannulae location- inflow	RVAD output
Connective tissue or inflammatory rheumatologic disease	LVAD: cannulae location - outflow	What is the volume of the artificial ventricle?
History of Hepatitis A	What is the volume of the artificial ventricle?	RVAD select control mode
History of Hepatitis B	Date pump data recorded LVAD	RVAD eject
History of Hepatitis C	LVAD flow	RVAD time
HIV	LVAD pump speed	RVAD minimum pressure
Peripheral myopathy	LVAD power	RVAD maximum pressure
Protein losing enteropathy	LVAD current	RVAD % systole
Protein losing enteropathy detail		Device brand (SVAD)
		SVAD device tracking number

Upload file

Baseline

fields included:

SVAD console tracking number	CreatinineSTPostOp	Haemoglobin Status PostOp
SVAD type of driving	SGPT/ALT	Platelet count
SVAD: cannulae location- inflow	SGPT/ALT	PlateletCountStatusPostOp
SVAD: cannulae location - outflow	SGPT/ALTStatusPostOp	pH
SVAD pump drive pressure	SGOT/AST	Ph Status PostOp
SVAD -fixed- enter rate	SGOT/AST	Lactate
SVAD flow	SGOT/ASTStatusPostOp	LactatePostOpStatus
SVAD pump speed	LDH	Bicarbonate
SVAD power	LDHStatusPostOp	BicarbonatePostOpStatus
SVAD current	Total Bilirubin	Plasma free Haemoglobin
SVAD control mode	Total Bilirubin	Plasma free HaemoglobinPostOpStatus
TAH manufacturer	Total Bilirubin Status Post Op	Positive Antiheparin/platelet Antibody (HIT)
TAH device tracking number	Bilirubin direct	Is the patient on anticoagulants?
TAH console tracking number	Bilirubin direct	INR
Discharge date	Bilirubin direct Status Post Op	INRStatusPostOp
Patient discharged to	Bilirubin indirect	PTT
Acute care ICU/CCU stay	Bilirubin indirect	PTT status PostOp
Step-down care stay	Bilirubin Indirect Status Discharge	Factor V
Date of approximate discontinuation of inotropes	Albumin	FactorVPostOpStatus
Ventilation	Albumin	TEG profile - MA k
Intervention since implant	AlbuminStatusPostOp	TEGProfileMAKPostOpStatus
Other cardiac surgical procedure	Pre Albumin	TEG profile - R k
Other procedure	Pre Albumin	TEG profile - R k PostOpStatus
Date of Blood Results at Discharge	Cholesterol	TEG profile - R h
Sodium	Cholesterol	TEGProfile R h PostOpStatus
Sodium	CholesterolStatusPostOp	Protein C
Sodium status	Brain Natriuretic peptide BNP	Protein C PostOpStatus
Potassium	BNPStatusPostOp	Protein S
Potassium	CRP C Reactive Protein	Protein S PostOpStatus
Potassium status	CRPPostOpStatus	Anti Phospholipid IgG
Blood Urea Nitrogen (BUN)	White blood cell count (WBC)	Anti Phospholipid IgG Status
BUNStatus	WBC Count Status PostOp	Currently on Inotrope intravenous therapy?
Creatinine	Reticulocyte Count	Intravenous inotropes
Creatinine	Reticulocyte Count Status PostOp	Angiotensin receptor blocker (ARB)
	Haemoglobin	ACE inhibitors

Upload file

Baseline

fields included:

Neseritide
Amiodarone
Beta-Blockers
Loop diuretics
Aldosterone antagonist
Warfarin
Antiplatelet drugs
Other anticoagulant drugs

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Multichoice separator				
S	Mandatory			A character: you may define the single character you wish to use to separate values in multi-value fields.
Layout specification version				
SPECVERSION	Mandatory			String: use 1.3 for this version of the specification
Submitter code				
SUBMITCODE	Mandatory			TableSingleChoice: a code used to identify the source of the data.
Import link ID				
IMPORTLINKID	Mandatory			Integer: enter a whole number.
Patient identifier				
DEMOGID	Mandatory			String: can contain any value.
Institution				
INSTITUTION	Optional			TableSingleChoice: see table INS
Country				
COUNTRY	Optional			TableSingleChoice: see table CTY
Blood type				
BLOODTYPE	Mandatory			SingleChoice: the code only. 1 - O 2 - A 3 - B 4 - AB 99 - Unknown
Rhesus factor				
RHESUSFACTOR	Optional			SingleChoice: the code only. 1 - Positive 2 - Negative
Age in years				
AGEINYEARS	Optional	0	99	Integer: enter a whole number.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Age in months				
AGEINMONTHS	Optional	0	11	Integer: enter a whole number.
Age in weeks				
AGEINWEEKS	Optional			Integer: enter a whole number.
Gender				
GENDER	Optional			SingleChoice: the code only. 0 - Female 1 - Male 99 - Unknown
Ethnic origin				
ETHNICORIGIN	Optional			SingleChoice: the code only. 1 - Asian 2 - African American or Black 3 - Hawaiian or other pacific islander 4 - Caucasian 9 - Other 99 - Unknown
Marital status				
MARITALSTATUS	Optional			SingleChoice: the code only. 1 - Single 2 - Married 3 - Divorced/Separated 4 - Widowed 99 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Highest education attainment				
EDUCATIONALATTAINMENT	Optional			SingleChoice: the code only. 0 - Early childhood education 1 - Primary education 2 - Lower secondary education 3 - Upper secondary education 4 - Post secondary / non-tertiary education 5 - Tertiary level - Short cycle 6 - Tertiary level - Bachelor or equivalent 7 - Tertiary level - Master's or equivalent 8 - Tertiary level - Doctoral or equivalent 9 - Infant 99 - Unknown
Working for income				
WORKINGFORINCOME	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown
Reason for not working				
REASONFORNOTWORKING	Optional			SingleChoice: the code only. 1 - Disability 2 - Demands of treatment 3 - Insurance conflict 4 - Inability to find work 5 - Patient choice - Homemaker 6 - Patient choice - Student Full time/Part time 7 - Patient choice - Retired 8 - Patient choice - Other 9 - Not applicable - patient in hospital 99 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
If working, please specify				
IFWORKINGPLEASESPECIFY	Optional			SingleChoice: the code only. 1 - Full time 2 - Part time due to demands of treatment 3 - Part time due to disability 4 - Part time due to insurance conflict 5 - Part time due to inability to find a full time job 6 - Part time due to patient choice 7 - Housewife 99 - Part time reason unknown 100 - Part time vs. full time reason unknown
Baseline Data Complete				
BASELINEDATACOMPLETE	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Date of admission				
DATEOFADMISSION	Optional			Date: ODBC date as yyyy-mm-dd.
Echo				
ECHO	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Date of Echo				
DATEOFECHO	Optional			Date: ODBC date as yyyy-mm-dd.
General haemodynamics				
GENERALHEMODYNAMICS	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Date General Haemodynamics measured				
DATEGENERALHAEMODYNAMICMEASURED	Optional			Date: ODBC date as yyyy-mm-dd.

Field title	Importance	Min value	Max value	Values allowed
Medication prior to admission				
MEDICATIONONADMISSION	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Medication review date				
MEDICATIONDATEADM	Optional			Date: ODBC date as yyyy-mm-dd.
Blood test on admission				
BLOODTESTONADMISSION	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Date of blood test				
DATEOFBLOODTEST	Optional			Date: ODBC date as yyyy-mm-dd.
Swan Ganz				
SWANGANZ	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Date Swan Ganz inserted				
DATESWANGANZINSERTED	Optional			Date: ODBC date as yyyy-mm-dd.
Exercise test				
EXERCISETEST	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Date of exercise test				
DATEOFEXERCISETEST	Optional			Date: ODBC date as yyyy-mm-dd.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Six minute walk				
SIXMINUTEWALK	Optional			SingleChoice: the code only. 1 - Not done - too sick 2 - Not done - other reason 3 - Completed
Congestive Heart Failure assessment				
CONGESTIVEHEARTFAILUREASSESSME	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Date of CHF assessment				
DATEOFCHFASSESSMENT	Optional			Date: ODBC date as yyyy-mm-dd.
Quality of Life assessment				
QUALITYOFLIFEASSESSMENT	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Date Quality of Life assessed				
DATEOFQUALITYOFLIFEASSESS	Optional			Date: ODBC date as yyyy-mm-dd.
LV - SF				
LVSF	Optional	0	100	Integer: enter a whole number.
LVSF Status				
LVSFSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Mitral regurgitation				
MITRALREGURGITATION	Optional			SingleChoice: the code only. 0 - None 1 - Trivial 2 - Mild 3 - Moderate 4 - Severe 9 - Not done 99 - Unknown
Tricuspid regurgitation				
TRICUSPIDREGURGITATION	Optional			SingleChoice: the code only. 0 - None 1 - Trivial 2 - Mild 3 - Moderate 4 - Severe 9 - Not done 99 - Unknown
Aortic regurgitation				
AORTICREGURGITATION	Optional			SingleChoice: the code only. 0 - None 1 - Trivial 2 - Mild 3 - Moderate 4 - Severe 9 - Not done 99 - Unknown

Field title	Header field name	Importance	Min value	Max value	Values allowed
Pulmonary regurgitation					
	PULMONARYREGURGITATION	Optional			SingleChoice: the code only. 0 - None 1 - Trivial 2 - Mild 3 - Moderate 4 - Severe 9 - Not done 99 - Unknown
LV - EF					
	EFGRADE	Optional			SingleChoice: the code only. 0 - Over 50% 1 - 40-50% 2 - 30-39% 3 - 20-29% 4 - <19% 9 - Not done 99 - Unknown
LV - EF					
	LVEFPERCENT	Optional	0	100	Integer: enter a whole number.
LV - EDD					
	LVEDD2	Optional	0		Floating point: enter a numeric value.
LV-EDD Status					
	LVEDDSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
LV - ESD					
	LVESD	Optional	0		Floating point: enter a numeric value.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
LV-ESD Status				
LVESDSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
LV - EDV				
LVEDV	Optional			Floating point: enter a numeric value.
LV-EDV Status				
LVEDVSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
LV - ESV				
LVESV	Optional			Floating point: enter a numeric value.
LV-ESV Status				
LVESVSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
RV function				
RVEF	Optional			SingleChoice: the code only. 1 - Normal 2 - Mild 3 - Moderate 4 - Severe 9 - Not done 99 - Unknown
TAPSE				
TAPSE	Optional	0		Integer: enter a whole number.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
TAPSE Status				
TAPSESTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Heart Rate Status				
HEARTRATESTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Heart rate				
HEARTRATE	Optional	10	300	Integer: enter a whole number.
Systolic BP status				
SYSTOLICBPSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Systolic BP				
SYSTOLICBP	Optional	20	300	Integer: enter a whole number.
Diastolic BP Status				
DIASTOLICBPSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Diastolic BP				
DIASTOLICBP	Optional	10	180	Integer: enter a whole number.

Field title					
Header field name	Importance	Min value	Max value	Values allowed	
Volume Status (peripheral edema)					
VOLUMESTATUSPERIPHERAEDEMA	Optional			SingleChoice: the code only. 0 - None 1 - Mild 2 - Moderate 3 - Severe 9 - Not done 99 - Unknown	
Ascites					
ASCITES	Optional			SingleChoice: the code only. 0 - No 1 - Yes 9 - Unknown	
ECG rhythm (cardiac rhythm)					
ECGRHYTHMCARDIACRHYTHM	Optional			SingleChoice: the code only. 0 - Sinus 1 - Atrial fibrillation 2 - Atrial flutter 3 - Paced 4 - Other 9 - Not done 99 - Unknown	
Height					
HEIGHT	Optional	30	300	Integer: enter a whole number.	
Weight					
WEIGHT	Optional	1	300	Floating point: enter a numeric value.	
BSA					
BSA	Optional			Floating point: enter a numeric value.	
Body Mass Index					
BODYMASSINDEX	Optional			Floating point: enter a numeric value.	

Field title	Header field name	Importance	Min value	Max value	Values allowed
Shunt Ratio (Qp/Qs)					
	SHUNTRATIOQPQS	Optional			Floating point: enter a numeric value.
Pulmonary artery systolic pressure					
	PULMONARYARTERYSYSTOLICPRESSURE	Optional			Integer: enter a whole number.
Pulmonary artery diastolic pressure					
	PULMONARYARTERYDIASTOLICPRESSURE	Optional			Integer: enter a whole number.
Mean pulmonary artery pressure					
	PULMONARYARTERYPRESSUREMEAN	Optional			Integer: enter a whole number.
Pulmonary artery wedge pressure					
	PULMONARYARTERYWEDGEPRESSURE	Optional			Integer: enter a whole number.
PA capillary wedge pressure					
	PACAPILLARYWEDGEPRESSURE	Optional			Integer: enter a whole number.
RA pressure					
	RAPRESSURE	Optional			Integer: enter a whole number.
SVR					
	SVR	Optional			Integer: enter a whole number.
PVR					
	PVR	Optional			Integer: enter a whole number.
Cardiac Index					
	CARDIACINDEX	Optional			Floating point: enter a numeric value.
Cardiac Output					
	CARDIACOUTPUT	Optional			Floating point: enter a numeric value.

Field title	Importance	Min value	Max value	Values allowed
Currently on intravenous inotropes				
CURRENTLYONINTRAVENOUSINOTROPES	Optional			MultiChoice: the code(s) only. 0 - No 1 - Dobutamine 2 - Dopamine 3 - Milrinone 4 - Levosimendan 5 - Epinephrine 6 - Norepinephrine 7 - Isoproterenol 9 - Other
Angiotensin receptor blocker (ARB)				
ARBONADMISSION	Optional			SingleChoice: the code only. 0 - No 1 - Known previous use 2 - Currently using 99 - Unknown
ACE inhibitors				
ACEINHIBITORSONADMISSION	Optional			SingleChoice: the code only. 0 - No 1 - Known previous use 2 - Currently using 99 - Unknown
Nitric oxide				
NITRICOXIDEONADMISSION	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Neseritide				
NESERITIDEONADMISSION	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown
Amiodarone				
AMIODARONEONADMISSION	Optional			SingleChoice: the code only. 0 - No 1 - Known previous use 2 - Currently using 99 - Unknown
Beta-blockers				
BETABLOCKERS	Optional			SingleChoice: the code only. 0 - No 1 - Known previous use 2 - Currently using 99 - Unknown
Loop diuretics				
LOOPDIURETICS	Optional			SingleChoice: the code only. 0 - No 1 - Known previous use 2 - Currently using 99 - Unknown
Aldosterone antagonist				
ALDOSTERONEANTAGONIST	Optional			SingleChoice: the code only. 0 - No 1 - Known previous use 2 - Currently using 99 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Antiplatelet drugs				
ANTIPLATELETDRUGTHERAPY	Optional			MultiChoice: the code(s) only. 0 - No 1 - ASS 2 - Dexpran 3 - Dipyridamole 4 - Clopidogrel 5 - Ticlopidine 9 - Other 99 - Unknown
Other anticoagulant drugs status				
ANTICOAGULANTTHERAPYDRUGSSTATUS	Optional			SingleChoice: the code only. 0 - No 1 - Known previous use 2 - Currently using 99 - Unknown
Other anticoagulant drugs				
ANTICOAGULANTDRUGS	Optional			MultiChoice: the code(s) only. 1 - Heparin 2 - Enoxaparin 3 - Argatroban 4 - Bivalirudin 5 - Fondiparinux 6 - Hirudin 7 - Lepirudin 8 - Ximelagatran 19 - Other
Sodium				
SODIUMPREOPMASS	Optional	0		Floating point: enter a numeric value.
Sodium				
SODIUMPREOP	Optional	0		Floating point: enter a numeric value.

Field title	Importance	Min value	Max value	Values allowed
Sodium status				
SODIUMSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 1 - Unknown
Potassium				
POTASSIUMPREOPMG	Optional	0		Floating point: enter a numeric value.
Potassium				
POTASSIUMPREOP	Optional	0		Floating point: enter a numeric value.
Potassium status				
POTASSIUMSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Blood Urea Nitrogen				
BLOODUREANITROGENPREOP	Optional	0		Floating point: enter a numeric value.
Blood urea nitrogen status				
BLOODUREANITROGENSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Creatinine				
CREATININEPREOPMASS	Optional			Floating point: enter a numeric value.
Creatinine				
CREATININEPREOPMOL	Optional			Integer: enter a whole number.
Creatinine status				
CREATININESTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
SGPT/ALT				
SGPTALTPREOP	Optional			Integer: enter a whole number.

Field title	Header field name	Importance	Min value	Max value	Values allowed
SGPT/ALT					
	SGPTALTPREOPKAT	Optional			Floating point: enter a numeric value.
SGPT/ALT status					
	SGPTALTSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
SGOT/AST					
	SGOTASTPREOPKAT	Optional			Floating point: enter a numeric value.
SGOT/AST					
	SGOTASTPREOP	Optional			Integer: enter a whole number.
SGOT/AST status					
	SGOTASTSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
LDH					
	LDHPREOP	Optional	0		Floating point: enter a numeric value.
LDH status					
	LDHSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Total Bilirubin					
	TOTALBILIRUBINPREOP	Optional			Floating point: enter a numeric value.
Total Bilirubin					
	BILIRUBINTOTALPREOPMOL	Optional			Floating point: enter a numeric value.
Total bilirubin status					
	TOTALBILIRUBINSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Bilirubin direct				
BILIRUBINDIRECT	Optional	0		Floating point: enter a numeric value.
Bilirubin direct				
BILIRUBINDIRECTPREOPMOL	Optional	0		Floating point: enter a numeric value.
Bilirubin direct status				
BILIRUBINDIRECTSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Bilirubin indirect				
BILIRUBININDIRECTPREOP	Optional			Floating point: enter a numeric value.
Bilirubin indirect				
BILIRUBININDIRECTPREOPMOL	Optional			Floating point: enter a numeric value.
Bilirubin indirect status PreOp				
BILIRUBININDIRECTPRESTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Albumin				
ALBUMINPREOPMASS	Optional			Floating point: enter a numeric value.
Albumin				
ALBUMINPREOP	Optional			Floating point: enter a numeric value.
Albumin status				
ALBUMINSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Pre Albumin				
PREALBUMINPREOP	Optional			Floating point: enter a numeric value.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Pre albumin status				
PREALBUMINSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Cholesterol				
CHOLESTEROLPREOPMASS	Optional			Floating point: enter a numeric value.
Cholesterol				
CHOLESTEROLPREOP	Optional			Floating point: enter a numeric value.
Cholesterol status				
CHOLESTEROLSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Brain natriuretic peptide BNP				
BNPPREOP	Optional			Integer: enter a whole number.
Brain natriuretic peptide BNP status				
BRAINNATRIURETICPEPTIDEBNPSTAT	Optional			SingleChoice: the code only. 0 - Not measured 2 - Unknown
NT pro brain natriuretic peptide Pro BNP				
NTPROBNPPREOP	Optional	0	100000	Integer: enter a whole number.
CRP C Reactive Protein				
CRPCREACTIVEPROTEIN	Optional			Floating point: enter a numeric value.
CRPStatusPreOp				
CRPSTATUSPREOP	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
White blood cell count				
WBCPREOP	Optional			Floating point: enter a numeric value.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
White blood cell count status				
WHITEBLOODCELLCOUNTSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Reticulocyte count				
RETICULOCYTESPREOP	Optional	0	100	Floating point: enter a numeric value.
Reticulocyte count status				
RETICULOCYTECOUNTSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Haemoglobin				
HEMOGLOBINPREOP	Optional			Floating point: enter a numeric value.
Haemoglobin status				
HAEMOGLOBINSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Platelet				
PLATELET	Optional			Integer: enter a whole number.
Platelet status				
PLATELETSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
pH				
PH	Optional			Floating point: enter a numeric value.
pH status				
PHSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Lactate				
LACTATE	Optional			Floating point: enter a numeric value.
Lactate status				
LACTATESTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Bicarbonate (HCO3)				
BICARBONATHCO3	Optional			Floating point: enter a numeric value.
Bicarbonate (HCO3) status				
BICARBONATEHCO3STATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Plasma free Haemoglobin				
PLASMAFREEHAEMOGLOBINPREOP	Optional	0		Floating point: enter a numeric value.
Plasma free haemoglobin status				
PLASMAFREEHAEMOGLOBINSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Positive antiheparin/platelet antibody (HIT)				
POSITIVEANTIHEPARINPLATELETANTIBODYHIT	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown

Field title	Header field name	Importance	Min value	Max value	Values allowed
Is the patient on anticoagulants?					
	ISPATIENTONDIRECTTHROMBININHIBITORS	Optional			MultiChoice: the code(s) only. 0 - No 1 - ASS 2 - Dipyridamole 3 - Clopidogrel 4 - Heparin 5 - Vitamin K antagonists 6 - Direct thrombin inhibitors 9 - Other 99 - Unknown
INR					
	INR	Optional			Floating point: enter a numeric value.
INR status					
	INRSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
PTT					
	PTT	Optional			Floating point: enter a numeric value.
PTT status					
	PTTSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
TEG profile - MA k					
	TEGPROFILEMAK	Optional			Integer: enter a whole number.
TEG Profile MAkStatusPreOp					
	TEGPROFILEMAKSTATUSPREOP	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown

Field title	Importance	Min value	Max value	Values allowed
TEG profile - R k				
TEGPROFILERK	Optional			Integer: enter a whole number.
TEG Profile R k Status PreOp				
TEGPROFILERKSTATUSPREOP	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
TEG profile - R h				
TEGPROFILERH	Optional			Integer: enter a whole number.
TEG Profile RhStatusPreOp				
TEGPROFILERHSTATUSPREOP	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Protein C				
PROTEINC	Optional			Integer: enter a whole number.
ProteinCStatusPreOp				
PROTEINCSTATUSPREOP	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Protein S				
PROTEINS	Optional			Integer: enter a whole number.
ProteinSStatusPreOp				
PROTEINSSTATUSPREOP	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Anti phospholipid IgG				
ANTIPHOSPHOLIPIDIGG	Optional			Integer: enter a whole number.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
AnitphosphoipidIlgGStatusPreOp				
ANITPHOSPHOIPIDIGGSTATUSPREOP	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
NYHA class				
NYHACLASS	Optional			SingleChoice: the code only. 1 - Class 1 2 - Class 2 3 - Class 3 4 - Class 4 99 - Unknown
Ross Classification of Congestive Heart Failure				
ROSSCLASSIFICATIONOFCONGESTIVEHEARTFAILURE	Optional			SingleChoice: the code only. 1 - Class I - No limitations or symptoms 2 - Class II - No growth failure 3 - Class III - Growth failure 4 - Class IV - Symptoms at rest
CHF - No growth failure details				
CHFNOGROWTHFAILUREDETAILS	Optional			MultiChoice: the code(s) only. 1 - Mild tachypnoea with feeds in infant 2 - Mild diaphoresis with feeds in infant 3 - Dyspnoea on exercise in older children 99 - Unknown
CHF - Growth failure details				
CHFGROWTHFAILUREDETAILS	Optional			MultiChoice: the code(s) only. 1 - Marked tachypnoea with exertion or with feeding 2 - Marked diaphoresis with exertion or with feeding 99 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
CHF - Symptoms at rest details				
CHFSYMPPTOMSATRESTDETAILS	Optional			MultiChoice: the code(s) only. 1 - Tachypnoea 2 - Retractions 3 - Grunting 4 - Diaphoresis 99 - Unknown
INTERMACS patient profile				
INTERMACSPATIENTPROFILE	Optional			SingleChoice: the code only. 1 - 1 - Critical cardiogenic shock 2 - 2 - Progressive decline 3 - 3 - Stable but inotrope dependent 4 - 4 - Resting symptoms 5 - 5 - Exertion intolerant 6 - 6 - Exertion limited 7 - 7 - Advanced NYHA class 3
Modifier 'A' - Arrhythmia				
MODIFIERAARRHYTHMIA	Optional			SingleChoice: the code only. 0 - No 1 - Yes 9 - Unknown
Modifier 'TCS'				
MODIFIERTCSTEMPORARYCIRCULATOR	Optional			SingleChoice: the code only. 0 - No 1 - Yes 9 - Unknown
Modifier 'FF'				
MODIFIERFF	Optional			SingleChoice: the code only. 0 - No 1 - Yes 9 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Six minute walk distance				
SIXMINUTEWALKDISTANCE	Optional			Integer: enter a whole number.
VO2 max				
VOMAX	Optional			Floating point: enter a numeric value.
R value at peak				
RVALUEATPEAK	Optional			Floating point: enter a numeric value.
Mobility				
MOBILITY	Optional			SingleChoice: the code only. 1 - I have no problem walking about 2 - I have some problems in walking about 3 - I am confined to bed
Self care				
SELFCARE	Optional			SingleChoice: the code only. 1 - I have no problems with self-care 2 - I have some problems washing or dressing myself 3 - I am confined to bed
Usual Activities				
USUALACTIVITIES	Optional			SingleChoice: the code only. 1 - I have no problems with performing my usual activities 2 - I have some problems with performing my usual activities 3 - I am unable to perform my usual activities
Pain/discomfort				
PAINDISCOMFORT	Optional			SingleChoice: the code only. 1 - I have no pain or discomfort 2 - I have moderate pain or discomfort 3 - I have severe pain or discomfort

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Anxiety/depression				
ANXIETYDEPRESSION	Optional			SingleChoice: the code only. 1 - I am not anxious or depressed 2 - I am moderately anxious or depressed 3 - I am severely anxious or depressed
EuroQOL - EQ5D Health Status				
EUROQOLEQ5DHEALTHSTATUS	Optional			Floating point: enter a numeric value.
Your own health state today				
YOUROWNHEALTHSTATETODAY	Optional	0	100	Integer: enter a whole number.
Have you experienced serious illness				
HAVEYOUEXPERIENCEDSERIOUSILLNESS	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown
Have your family experienced serious illness?				
HAVEYOURFAMILYEXPERIENCEDSERIOUSILLNESS	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown
Have you experienced serious illness in caring for others				
HAVEYOUEXPERIENCEDSERIOUSILLNESSINCARINGFOROTHERS	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown
Are you smoking				
AREYOU SMOKING	Optional			SingleChoice: the code only. 0 - No - never 1 - No - previous 3 - Yes - current 99 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Do you now or did you ever work in health or social services				
DOYOUNOWORDIDYOUEVERWORKINHEALTHORSOCIALSERVICES	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown
Which of the following best describes your main activity				
WHICHOFTHETFOLLOWINGBESTDESCRIBESYOURMAINACTIVITY	Optional			SingleChoice: the code only. 1 - Employed 2 - Retired 3 - Keeping house 4 - Student 5 - Seeking work 9 - Other 99 - Unknown
Current device strategy				
CURRENTDEVICESTRATEGY	Optional			SingleChoice: the code only. 1 - Bridge to recovery 2 - Rescue therapy 3 - Bridge to transplant (patient currently listed for transplant) 4 - Possible bridge to transplant 5 - Destination therapy 98 - Other
Possible listing for transplantation				
POSSIBLELISTINGFORTRANSPLANT	Optional			SingleChoice: the code only. 1 - Likely to be eligible 2 - Moderately likely to become eligible 3 - Unlikely to become eligible 4 - Definitely not eligible

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Additional indication for VAD				
ADDITIONALINDICATIONFORVAD	Optional			SingleChoice: the code only. 0 - None 1 - Failure to wean from CBP 2 - Post cardiac surgery
Enter cardiac operation				
ENTERCARDIACOPERATION	Optional			ShortString: maximum of 1,024 characters.
Enter List Date				
ENTERLISTDATE	Optional			Date: ODBC date as yyyy-mm-dd.
Implant decision date				
IMPLANTDECISIONDATE	Optional			Date: ODBC date as yyyy-mm-dd.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Eligibility / Contraindications for transplant				
ELIGIBILITYCONTRAINDICATIONSFORTRANSPLANT	Optional			<p>MultiChoice: the code(s) only.</p> <ul style="list-style-type: none"> 0 - None 1 - Advanced age 2 - Fixed pulmonary hypertension 3 - Patient refuses transplant 4 - Contraindication to immunotherapy 5 - Frailty 6 - Malnutrition / cachexia 7 - Large BMI 8 - Musculoskeletal limitations 9 - History of solid organ cancer 10 - History of lymphoma/leukemia 11 - Major stroke 12 - Renal dysfunction 13 - Pulmonary disease 14 - Severe diabetes 15 - Peripheral vascular disease 16 - Other co-morbidity 17 - Risk of recurrent infection 18 - Pulmonary hypertension 19 - Recent pulmonary embolus 20 - Allosensitisation 21 - Heparin induced thrombocytopenia 22 - Current infection 23 - Limited cognition / understanding 24 - Limited social support 25 - Illicit drug use 26 - Alcohol abuse 27 - Still smoking 28 - Severe depression 29 - Other major psychiatric diagnosis 30 - Repeated non-compliance 31 - Multiple sternotomies 32 - Mediastinal radiation

Field title	Importance	Min value	Max value	Values allowed
Header field name				
				33 - Thoracic aortic disease 49 - Other
Time since first cardiac diagnosis				
TIMESINCEFIRSTCARDIACDIAGNOSIS	Optional			SingleChoice: the code only. 1 - Less than one month 2 - One month to a year 3 - One to two years 4 - Over two years 99 - Unknown
Primary diagnosis				
PRIMARYDIAGNOSIS	Optional			SingleChoice: the code only. 1 - Cancer 2 - Congenital heart disease 3 - Coronary artery disease 4 - Dilated myopathy: Toxic 6 - Dilated myopathy: Familial 7 - Dilated myopathy: Idiopathic 8 - Dilated myopathy: Ischemic 9 - Dilated myopathy: Myocarditis 10 - Dilated myopathy: Other 11 - Dilated myopathy: Post partum 12 - Dilated myopathy: Viral 13 - Hypertrophic cardiomyopathy 14 - Restrictive myopathy: Amyloidosis 15 - Restrictive myopathy: Endocardial fibrosis 16 - Restrictive myopathy: Idiopathic 17 - Restrictive myopathy: Other 18 - Restrictive myopathy: Sarcoidosis 19 - Restrictive myopathy: Secondary to radiation/ chemo 20 - Valvular heart disease

Field title	Importance	Min value	Max value	Values allowed
Congenital heart disease				
CONGENITALHEARTDISEASE	Optional			<p>MultiChoice: the code(s) only.</p> <ul style="list-style-type: none"> 1 - Complete AV septal defect 2 - Congenitally corrected transposition 3 - Ebstein's anomaly 4 - Hypoplastic left heart 5 - Left heart valvular /structural hypoplasia 6 - Pulmonary atresia with IVS 7 - Single ventricle 8 - TF/TOF variant 9 - Transposition of the great arteries 10 - Truncus arteriosus 11 - VSD/ASD 12 - VSD/ASD other 13 - Kawasaki disease 98 - Other 99 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Secondary diagnosis				
SECONDARYDIAGNOSIS	Optional			MultiChoice: the code(s) only. 0 - None 1 - Cancer 2 - Congenital heart disease 3 - Coronary artery disease 4 - Dilated myopathy: Familial 5 - Dilated myopathy: Idiopathic 6 - Dilated myopathy: Ischemic 7 - Dilated myopathy: Myocarditis 8 - Dilated myopathy: Other 9 - Dilated myopathy: Post partum 10 - Dilated myopathy: Viral 11 - Dilated myopathy: Toxic 12 - Hypertrophic cardiomyopathy 13 - Restrictive myopathy: Amyloidosis 14 - Restrictive myopathy: Endocardial fibrosis 15 - Restrictive myopathy: Idiopathic 16 - Restrictive myopathy: Other 17 - Restrictive myopathy: Sarcoidosis 18 - Restrictive myopathy: Secondary to radiation/ chemo 19 - Valvular heart disease
Responsible toxin				
RESPONSIBLETOXIN	Optional			SingleChoice: the code only. 1 - Alcohol 2 - Adriomycin 3 - Other chemotherapeutics 4 - Other

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Known cardiac biopsy				
KNOWNCARDIACBIOPSY	Optional			SingleChoice: the code only. 0 - No biopsy known 1 - Sarcoidosis 2 - Giant cell myocarditis 3 - Eosinophilic myocarditis 4 - Other myocarditis 5 - Hemochromatosis 6 - Mitochondrial myopathy 99 - Other
Reason for admission				
REASONFORADMISSION	Optional			SingleChoice: the code only. 1 - Heart failure 2 - Cardiac surgery 3 - Non-cardiac medical problem 4 - VAD placement 5 - TAH placement 9 - Other cardiology 10 - Acute Myocardial Infarction 99 - Unknown
Major infections				
MAJORINFECTIONS	Optional			SingleChoice: the code only. 0 - No 1 - Yes

Field title	Importance	Min value	Max value	Values allowed
Location of infection				
LOCATIONNOFINFECTION	Optional			MultiChoice: the code(s) only. 0 - Blood 1 - Endocarditis, native 2 - Line Sepsis 3 - Mediastinum 4 - Pneumonia 5 - Urine 97 - Other 98 - Unknown
Infection type				
INFECTIONTYPE	Optional			SingleChoice: the code only. 1 - Bacterial 2 - Fungal 3 - Viral 4 - Protozoan 10 - Unknown
Current ICD device in place				
CURRENTICDDEVICEINPLACE	Optional			SingleChoice: the code only. 0 - No 1 - Yes 9 - Unknown
Cardiac arrest				
CARDIACARREST	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Dialysis				
DIALYSIS	Optional			SingleChoice: the code only. 0 - No 1 - Yes

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Intubation				
INTUBATION	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Major Myocardial Infarction				
MAJORMI	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Cardiac surgery				
CARDIACSURGERY	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Positive blood cultures				
POSITIVEBLOODCULTURES	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Other surgical procedures				
OTHERSURGICALPROCEDURES	Optional			SingleChoice: the code only. 0 - No 1 - Yes
IV inotrope therapy immediately prior to implant				
IVINOTROPETHERAPYIMMEDIATELYPR	Optional			SingleChoice: the code only. 0 - No 1 - Yes 9 - Unknown
IABP				
IABP	Optional			SingleChoice: the code only. 0 - No 1 - Yes

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Other VAD				
OTHERVAD	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Ultrafiltration				
ULTRAFILTRATION	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Ventilator				
VENTILATOR	Optional			SingleChoice: the code only. 0 - No 1 - Yes
ECMO				
ECMO	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Feeding tube				
FEEDINGTUBE	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Diabetes				
DIABETES	Optional			SingleChoice: the code only. 0 - No 1 - Yes 9 - Unknown
Insulin-dependent				
INSULINDEPENDENT	Optional			SingleChoice: the code only. 0 - No 1 - Yes 9 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Cardiac rhythm				
CARDIACRHYTHM	Optional			SingleChoice: the code only. 0 - Not done 1 - Sinus 2 - Atrial Fibrillation 3 - Atrial Flutter 4 - Paced 98 - Other 99 - Unknown
COPD				
COPD	Optional			SingleChoice: the code only. 0 - No 1 - Yes- treatment 2 - Yes- no treatment 3 - Yes- treatment unknown 99 - Unknown
Symptomatic peripheral vascular disease				
SYMPTOMATICPERIPHERALVASCULARDISEASE	Optional			SingleChoice: the code only. 0 - No 1 - Yes 9 - Unknown
Connective tissue or inflammatory rheumatologic disease				
CONNECTIVETISSUEORINFLAMMATORY	Optional			SingleChoice: the code only. 0 - No 1 - Yes 9 - Unknown
History of Hepatitis A				
HISTORYOFHEPATITISA	Optional			SingleChoice: the code only. 0 - No 1 - Yes 9 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
History of Hepatitis B				
HISTORYOFHEPATITISB	Optional			SingleChoice: the code only. 0 - No 1 - Yes 9 - Unknown
History of Hepatitis C				
HISTORYOFHEPATITISC	Optional			SingleChoice: the code only. 0 - No 1 - Yes 3 - Unknown
HIV				
HIV	Optional			SingleChoice: the code only. 0 - No 1 - Yes 9 - Unknown
Peripheral myopathy				
PERIPHERALMYOPATHY	Optional			SingleChoice: the code only. 0 - No 1 - Yes 9 - Unknown
Protein losing enteropathy				
PROTEINLOSINGENTEROPATHY	Optional			SingleChoice: the code only. 0 - No 1 - Yes 9 - Unknown
Protein losing enteropathy detail				
PERIPHERALMYOPATHYDETAIL	Optional			MultiChoice: the code(s) only. 1 - Elevated alpha-1 anti-trypsin 2 - Albumin iv requirement 3 - Clinical diagnosis 9 - Other

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Carotid artery disease				
CAROTIDARTERYDISEASE	Optional			SingleChoice: the code only. 0 - No 1 - Yes 9 - Unknown
History of neurological event				
HISTORYOFNEUROLOGICALEVENT	Optional			SingleChoice: the code only. 0 - None 1 - CVA 2 - ICB 3 - TIA 9 - Unknown
Cancer other than local skin cancer				
CANCEROTHERTHANLOCALSKINCANCER	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Any active treatment at time of implant for cancer other than local cancer				
ANYACTIVETREATMENTATTIMEOFIMPL	Optional			SingleChoice: the code only. 0 - No 1 - Yes 9 - Unknown
Smoking history				
SMOKINGHISTORY	Optional			SingleChoice: the code only. 0 - Never 1 - Currently 2 - Within the past 3 months 3 - More than 3 months ago 99 - Unknown
Number of pack years				
NUMBEROFPACKYEARS	Optional		100	Integer: enter a whole number.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Pack years status				
PACKYEARSSTATUS	Optional			SingleChoice: the code only. 99 - Unknown
History of previous alcohol abuse				
HISTORYOFPREVIOUSALCOHOLABUSE	Optional			SingleChoice: the code only. 0 - No 1 - Yes 9 - Unknown
Current alcohol use				
CURRENTALCOHOLUSE	Optional			SingleChoice: the code only. 0 - None, but known abuse within past year 1 - Modest 2 - Heavy 3 - None; but known abuse more than one year ago 9 - Unknown
Drug abuse				
DRUGABUSE	Optional			SingleChoice: the code only. 0 - Never 1 - More than 3 months ago 2 - Within the past 3 months 3 - Currently 9 - Unknown
Transfusion history				
TRANSFUSIONHISTORY	Optional			SingleChoice: the code only. 0 - No 1 - Yes 9 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Date of VAD procedure				
DATEOFSURGERY	Mandatory			Date: ODBC date as yyyy-mm-dd.
Device type				
DEVICETYPE	Mandatory			MultiChoice: the code(s) only. 1 - LVAD 2 - RVAD 3 - BiVAD 4 - Total artificial heart 5 - SVAD
Time in OR for implant				
TIMEINORFORIMPLANT	Optional			Integer: enter a whole number.
CPB time				
CPBTIME	Optional			Integer: enter a whole number.
Other surgery associated with this VAD procedure				
OTHERSURGERYASSOCIATEDWITHTHISVADPROCEDURE	Optional			MultiChoice: the code(s) only. 0 - None 1 - Congenital procedure 2 - Valve procedure 3 - Other cardiac procedure
Date of other surgery				
DATEOFOTHERSURGERY	Optional			Date: ODBC date as yyyy-mm-dd.

Field title	Importance	Min value	Max value	Values allowed
Congenital				
CONGENITAL	Optional			MultiChoice: the code(s) only. 1 - Norwood Stage 2 - PA banding 3 - TOF/DORV/RVOTO repair 4 - Transposition of the Great Vessels repair 5 - Truncus Arteriosus repair 6 - Valve replacement/repair/outflow obstruction 7 - AP shunt 8 - Complete AV Septal Defect repair 9 - Cong. Corrected Transposition repair 10 - Damus Kay Stansel (DKS) 11 - Ebstein's Anomaly repair 12 - Fontan 13 - Glenn: Bi-directional 14 - Glenn: Classical
Valve surgery				
VALVE	Optional			MultiChoice: the code(s) only. 1 - Aortic repair 2 - Mitral repair 3 - Tricuspid repair 4 - Pulmonary repair 5 - Aortic replacement - mechanical 6 - Aortic replacement - biological 7 - Mitral replacement - mechanical 8 - Mitral replacement - biological 9 - Tricuspid replacement - mechanical 10 - Tricuspid replacement - biological 11 - Pulmonary replacement - mechanical 12 - Pulmonary replacement - biological

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Other procedures				
OTHERPROCEDURES	Optional			MultiChoice: the code(s) only. 1 - ASD closure 2 - PFO closure 3 - VSD closure 4 - ECMO 5 - Ecmo decannulation 6 - Ablation 7 - CABG: LAD 8 - CABG: RCX 9 - CABG: RCA 10 - Previous heart transplant 11 - Previous MCS 99 - Other
Device brand (LVAD)				
DEVICEBRANDLVAD	Optional			SingleChoice: the code only. 1 - AB5000 2 - Thoratec pVAD 3 - Berlin Heart Excor 4 - Berlin Heart Incor 5 - Jarvik 2000 6 - HeartWare HVAD 7 - HeartAssist5 8 - Terumo DuraHeart 9 - HeartMate II LVAS 11 - VentraCor VentrAssist 13 - CircuLite Synergy 14 - Thoratec - HeartMate III 15 - HeartWare MVAD 99 - Other
LVAD device tracking number				
LVADDEVICETRACKINGNUMBER	Optional			ShortString: maximum of 1,024 characters.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
LVAD console tracking number				
LVADCONSOLETRACKINGNUMBER	Optional			ShortString: maximum of 1,024 characters.
LVAD type of driving				
LVADTYPEOFDRIVING	Optional			SingleChoice: the code only. 1 - Pulsatile 2 - Rotary
LVAD: cannulae location- inflow				
LVADCANNULAELOCATIONINFLOW	Optional			SingleChoice: the code only. 0 - LA appendage 1 - LA interatrial groove 2 - LV apex 98 - Other
LVAD: cannulae location - outflow				
LVADCANNULAELOCATIONOUTFLOW	Optional			SingleChoice: the code only. 0 - Ascending aorta 1 - Descending thoracic aorta 2 - Abdominal aorta 98 - Other
What is the volume of the artificial ventricle?				
LVADVOLARTIFICIALVENTRICLE	Optional			Integer: enter a whole number.
Date pump data recorded LVAD				
DATEPUMPDATALVAD	Optional			Date: ODBC date as yyyy-mm-dd.
LVAD flow				
LVADFLOW	Optional			Floating point: enter a numeric value.
LVAD pump speed				
LVADPUMPSPEED	Optional			Floating point: enter a numeric value.
LVAD power				
LVADPOWER	Optional			Floating point: enter a numeric value.

Field title	Header field name	Importance	Min value	Max value	Values allowed
LVAD current					
	LVADCURRENT	Optional			Floating point: enter a numeric value.
LVAD PI					
	LVADPI	Optional			Floating point: enter a numeric value.
LVAD OI					
	LVADOI	Optional			Floating point: enter a numeric value.
LVAD output					
	LVADOUTPUT	Optional	0		Floating point: enter a numeric value.
LVAD Rate					
	LVADRATE	Optional	0		Integer: enter a whole number.
LVAD control mode					
	LVADCONTROLMODE	Optional			SingleChoice: the code only. 1 - Auto mode 2 - Fixed 99 - Unknown
LVAD eject					
	LVAEJECT	Optional			Floating point: enter a numeric value.
LVAD time					
	LVADTIME	Optional			Integer: enter a whole number.
LVAD minimum pressure					
	LVADMINIMUMPRESSURE	Optional			Integer: enter a whole number.
LVAD maximum pressure					
	LVADMAXIMUMPRESSURE	Optional	0		Integer: enter a whole number.
LVAD Systole					
	LVADSYSTOLE	Optional	0		Integer: enter a whole number.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
LVAD Diastole				
LVADDIASTOLE	Optional			Integer: enter a whole number.
LVAD % systole				
LVADPERCENTSYSTOLE	Optional	0		Floating point: enter a numeric value.
Device brand (RVAD)				
DEVICEBRANDRVAD	Optional			SingleChoice: the code only. 1 - Levitronix CentriMag 2 - Thoratec pVAD 3 - HeartWare HVAD 4 - Berlin Heart Excor 5 - Maquet CardioHelp 99 - Other
RVAD device tracking number				
RVADDEVICETRACKINGNUMBER	Optional			ShortString: maximum of 1,024 characters.
RVAD console tracking number				
RVADCONSOLETRACKINGNUMBER	Optional			ShortString: maximum of 1,024 characters.
RVAD type of driving				
RVADTYPEOFDRIVING	Optional			SingleChoice: the code only. 1 - Pulsatile 2 - Rotary
RVAD: cannulae location - inflow				
RVADCANNULAELOCATIONINFLOW	Optional			SingleChoice: the code only. 1 - RA 2 - RV 93 - Other 94 - Unknown
RVAD Flow oxygenator				
RVADFLOWOXYGENATOR	Optional	0		Floating point: enter a numeric value.

Field title	Header field name	Importance	Min value	Max value	Values allowed
RVAD flow					
	RVADFLOWRIGHTSIDE	Optional			Floating point: enter a numeric value.
RVAD pump speed					
	RVADPUMPSPEED	Optional			Floating point: enter a numeric value.
RVAD power					
	RVADPOWER	Optional			Floating point: enter a numeric value.
RVAD pressure venous					
	RVADPRESSUREVENOUS	Optional	0		Integer: enter a whole number.
RVAD pressure arterial					
	RVADPRESSUREARTERIAL	Optional	0		Integer: enter a whole number.
RVAD pressure intern.					
	RVADPRESSUREINTERN	Optional			Integer: enter a whole number.
RVAD output					
	RVADOUTPUT	Optional	0		Floating point: enter a numeric value.
What is the volume of the artificial ventricle?					
	RVADVOLARTIFICIALVENTRICLE2	Optional			Integer: enter a whole number.
RVAD select control mode					
	RVADSELECTCONTROLMODE	Optional			SingleChoice: the code only. 1 - Auto mode 2 - Fixed 99 - Unknown
RVAD eject					
	RVADJECT	Optional			Floating point: enter a numeric value.
RVAD time					
	RVADTIME	Optional	0		Integer: enter a whole number.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
RVAD minimum pressure				
RVADMINIMUMPRESSURE	Optional			Integer: enter a whole number.
RVAD maximum pressure				
RVADMAXIMUMPRESSURE	Optional	0		Integer: enter a whole number.
RVAD % systole				
RVADPERCENTSYSTOLE	Optional	0		Floating point: enter a numeric value.
Device brand (SVAD)				
DEVICEBRANDSVAD	Optional			SingleChoice: the code only. 1 - AB500 2 - Thoratec pneumatic 3 - Berlin Heart Excor 4 - Berlin Heart Incor 5 - Jarvik 2000 6 - HeartWare HVAD 7 - HeartAssist5 8 - Terumo DuraHeart 9 - HeartMate LVAS 10 - Syncardia CardioWest 11 - VentraCor VentrAssist 12 - Maquet CardioHelp 98 - Unknown 99 - Other
SVAD device tracking number				
SVADDEVICETRACKINGNUMBER	Optional			ShortString: maximum of 1,024 characters.
SVAD console tracking number				
SVADCONSOLETRACKINGNUMBER	Optional			ShortString: maximum of 1,024 characters.
SVAD type of driving				
SVADTYPEOFDRIVING	Optional			SingleChoice: the code only. 1 - Pulsatile 2 - Rotary

Field title				
Header field name	Importance	Min value	Max value	Values allowed
SVAD: cannulae location- inflow				
SVADCANNULAELOCATIONINFLOW	Optional			SingleChoice: the code only. 0 - LA appendage 1 - LA interatrial groove 2 - LV apex 98 - Other 99 - Unknown
SVAD: cannulae location - outflow				
SVADCANNULAELOCATIONOUTFLOW	Optional			SingleChoice: the code only. 0 - Ascending aorta 1 - Descending thoracic aorta 2 - Abdominal aorta 98 - Other 99 - Unknown
SVAD pump drive pressure				
SVADPUMPDRIVEPRESSURE	Optional			Floating point: enter a numeric value.
SVAD -fixed- enter rate				
SVADFIXEDENTERRATE	Optional			Integer: enter a whole number.
SVAD flow				
SVADFLOW	Optional			Floating point: enter a numeric value.
SVAD pump speed				
SVADPUMPSPEED	Optional			Floating point: enter a numeric value.
SVAD power				
SVADPOWER	Optional			Floating point: enter a numeric value.
SVAD current				
SVADCURRENT	Optional			Floating point: enter a numeric value.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
SVAD control mode				
SVADCONTROLMODE	Optional			SingleChoice: the code only. 1 - Auto mode 2 - Fixed 99 - Unknown
TAH manufacturer				
TAHMANUFACTURER	Optional			TableSingleChoice: see table TAH
TAH device tracking number				
TAHDEVICETRACKINGNUMBER	Optional			ShortString: maximum of 1,024 characters.
TAH console tracking number				
TAHCONSOLETRACKINGNUMBER	Optional			ShortString: maximum of 1,024 characters.
Discharge date				
DISCHARGEDATE	Optional			Date: ODBC date as yyyy-mm-dd.
Patient discharged to				
PATIENTDISCHARGEDTO	Optional			SingleChoice: the code only. 1 - Home (residential setting) 2 - Nursing Home/ Assisted care 3 - Hospice 4 - Another hospital 5 - Rehabilitation facility 6 - Not applicable- patient died 98 - Other
Acute care ICU/CCU stay				
ICUCCUSTAY	Optional		1000	Integer: enter a whole number.
Step-down care stay				
STEPCARESTAY	Optional		1000	Integer: enter a whole number.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Date of approximate discontinuation of inotropes				
DATEOFAPPROXIMATEDISCONTINUATI	Optional			SingleChoice: the code only. 1 - 1 -7 days 2 - 8 - 13 days 3 - 14 - 27 days 5 - >27 days
Ventilation				
VENTILATION	Optional	0	4000	Integer: enter a whole number.
Intervention since implant				
INTERVENTIONSINCEIMPLANT	Optional			MultiChoice: the code(s) only. 0 - None 2 - Invasive cardiac procedure (other than heart cath) 5 - Cardiac surgical procedure 6 - Device related surgical procedure 7 - Non cardiac surgical procedure 93 - Other procedure

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Other cardiac surgical procedure				
OTHERCARDIACSURGICALPROCEDURE	Optional			MultiChoice: the code(s) only. 1 - Reoperation for bleeding within 48 hrs of implant 2 - Reoperation for bleeding and/or tamponade > 48 hrs 3 - Surgical drainage of pericardial effusion 4 - Valve surgery: Aortic repair 5 - Valve surgery: Mitral repair 6 - Valve surgery: Tricuspid repair 7 - Valve surgery: Pulmonary repair 8 - Valve surgery: Aortic replacement - mechanical 9 - Valve surgery: Aortic replacement - biological 10 - Valve surgery: Mitral replacement - mechanical 11 - Valve surgery: Mitral replacement - biological 12 - Valve surgery: Tricuspid repair - mechanical 13 - Valve surgery: Tricuspid replacement - biological 14 - Valve surgery: Pulmonary replacement - mechanical 15 - Valve surgery: Pulmonary replacement - biological 98 - Other 99 - Unknown
Other procedure				
OTHERPROCEDURE	Optional			SingleChoice: the code only. 1 - Reintubation due to Respiratory Failure 2 - Dialysis 3 - Bronchoscopy 19 - Other
Date of Blood Results at Discharge				
DATEOFBLOODRESULTSATDISCHARGE	Optional			Date: ODBC date as yyyy-mm-dd.
Sodium				
SODIUMPOSTOPMG	Optional			Floating point: enter a numeric value.
Sodium				
SODIUMPOSTOP	Optional			Floating point: enter a numeric value.

Field title	Importance	Min value	Max value	Values allowed
Header field name				
Sodium status				
SODIUMSTATUSPOSTOP	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Potassium				
POTASSIUMPOSTOPMG	Optional			Floating point: enter a numeric value.
Potassium				
POTASSIUMPOSTOP	Optional			Floating point: enter a numeric value.
Potassium status				
POTASSIUMSTATUSPOSTOP	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Blood Urea Nitrogen (BUN)				
BLOODUREANITROGENBUNPOSTOP	Optional			Floating point: enter a numeric value.
BUNStatus				
BUNSTATUSPOSTOP	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Creatinine				
CREATININEPOSTOPMASS	Optional			Floating point: enter a numeric value.
Creatinine				
CREATININEPOSTOP	Optional			Floating point: enter a numeric value.
CreatinineSTPostOp				
CREATININESTPOSTOP	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
SGPT/ALT				
SGPTALTPOSTOP	Optional			Integer: enter a whole number.

Field title	Importance	Min value	Max value	Values allowed
SGPT/ALT				
SGPTALTPOSTOPKAT	Optional			Floating point: enter a numeric value.
SGPT/ALTStatusPostOp				
SGPTALTSTATUSPOSTOP	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
SGOT/AST				
SGOTASTPOSTOP	Optional			Floating point: enter a numeric value.
SGOT/AST				
SGOTASTPOSTOPKAT	Optional			Floating point: enter a numeric value.
SGOT/ASTStatusPostOp				
SGOTASTSTATUSPOSTOP	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
LDH				
LDHPOSTOP	Optional	0		Floating point: enter a numeric value.
LDHStatusPostOp				
LDHSTATUSPOSTOP	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Total Bilirubin				
TOTALBILIRUBINPOSTOP	Optional			Floating point: enter a numeric value.
Total Bilirubin				
BILIRUBINTOTALPOSTOPMOL	Optional			Floating point: enter a numeric value.
Total Bilirubin Status Post Op				
TOTALBILIRUBINSTATUSPOSTOP	Optional			SingleChoice: the code only. 0 - Not measured 1 - Unknown

Field title	Importance	Min value	Max value	Values allowed
Bilirubin direct				
BILIRUBINDIRECTPOSTOP	Optional	0		Floating point: enter a numeric value.
Bilirubin direct				
BILIRUBINDIRECTPOSTOPMOL	Optional	0		Floating point: enter a numeric value.
Bilirubin direct Status Post Op				
BILIRUBINDIRECTSTATUSPOSTOP	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Bilirubin indirect				
BIKIRUBININDIRECTPOSTOP	Optional	0		Floating point: enter a numeric value.
Bilirubin indirect				
BILIRUBININDIRECTPOSTOPMOL	Optional			Floating point: enter a numeric value.
Bilirubin Indirect Status Discharge				
BILIRUBININDIRECTSTATUSDISCHARGE	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Albumin				
ALBUMINPOSTOP	Optional			Integer: enter a whole number.
Albumin				
ALBUMINPOSTOPMASS	Optional			Floating point: enter a numeric value.
AlbuminStatusPostOp				
ALBUMINSTATUSPOSTOP	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Pre Albumin				
PREALBUMINPOSTOP	Optional			Floating point: enter a numeric value.

Field title	Importance	Min value	Max value	Values allowed
Header field name				
Pre Albumin				
PREALBUMINSTATUSPOSTOP	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Cholesterol				
CHOLESTEROLPOSTOPMASS	Optional			Floating point: enter a numeric value.
Cholesterol				
CHOLESTEROLPOSTOP	Optional			Floating point: enter a numeric value.
CholesterolStatusPostOp				
CHOLESTEROLSTATUSPOSTOP	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Brain Natriuretic peptide BNP				
BNPPOSTOP	Optional			Integer: enter a whole number.
BNPStatusPostOp				
BNPSTATUSPOSTOP	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
CRP C Reactive Protein				
CREACTIVEPROTEINPOSTOP	Optional			Floating point: enter a numeric value.
CRPPostOpStatus				
CRPPOSTOPSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
White blood cell count (WBC)				
WHITEBLOODCELLCOUNTPOSTOP	Optional			Floating point: enter a numeric value.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
WBC Count Status PostOp				
WBCCOUNTSTATUSPOSTOP	Optional			SingleChoice: the code only. 0 - Not measured 1 - Unknown
Reticulocyte Count				
RETICULOCYTECOUNTPOSTOP	Optional	0	100	Floating point: enter a numeric value.
Reticulocyte Count Status PostOp				
RETICULOCYTECOUNTSTATUSPOSTOP	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Haemoglobin				
HAEMOGLOBINPOSTOP	Optional			Floating point: enter a numeric value.
Haemoglobin Status PostOp				
HAEMOGLOBINSTATUSPOSTOP	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Platelet count				
PLATELETCOUNTPOSTOP	Optional			Integer: enter a whole number.
PlateletCountStatusPostOp				
PLATELETCOUNTSTATUSPOSTOP	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
pH				
PHPOSTOP	Optional			Floating point: enter a numeric value.
Ph Status PostOp				
PHSTATUSPOSTOP	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Lactate				
LACTATEPOSTOP	Optional			Floating point: enter a numeric value.
LactatePostOpStatus				
LACTATEPOSTOPSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Bicarbonate				
BICARBONATEPOSTOP	Optional			Floating point: enter a numeric value.
BicarbonatePostOpStatus				
BICARBONATEPOSTOPSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Plasma free Haemoglobin				
PLASMAFREEHBPOSTOP	Optional	0		Floating point: enter a numeric value.
Plasma free HaemoglobinPostOpStatus				
PLASMAFREEHBPOSTOPSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Positive Antiheparin/platelet Antibody (HIT)				
HITPOSTOP	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown

Field title	Header field name	Importance	Min value	Max value	Values allowed
Is the patient on anticoagulants?					
	DIRECTTHROMBININHIBITORSPOSTOP	Optional			MultiChoice: the code(s) only. 0 - No 1 - ASS 2 - Dipyridamole 3 - Clopidogrel 4 - Vitamin K antagonists 5 - Heparin 6 - Direct thrombin inhibitors 98 - Other 99 - Unknown
INR					
	INRPOSTOP	Optional			Floating point: enter a numeric value.
INRStatusPostOp					
	INRSTATUSPOSTOP	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
PTT					
	PTTPOSTOP	Optional			Floating point: enter a numeric value.
PTT status PostOp					
	PTTSTATUSPOSTOP	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Factor V					
	FACTORVPOSTOP	Optional			Integer: enter a whole number.
FactorVPostOpStatus					
	FACTORVPOSTOPSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
TEG profile - MA k				
TEGPROFILEMAKPOSTOP	Optional			Integer: enter a whole number.
TEGProfileMAKPostOpStatus				
TEGPROFILEMAKPOSTOPSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
TEG profile - R k				
TEGPROFILERKPOSTOP	Optional			Integer: enter a whole number.
TEG profile - R k PostOpStatus				
TEGPROFILERKPOSTOPSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
TEG profile - R h				
TEGPROFILERHPOSTOP	Optional			Integer: enter a whole number.
TEGProfile R h PostOpStatus				
TEGPROFILERHPOSTOPSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Protein C				
PROTEINCPOSTOP	Optional			Integer: enter a whole number.
Protein C PostOpStatus				
PROTEINCPOSTOPSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Protein S				
PROTEINSPPOSTOP	Optional			Integer: enter a whole number.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Protein S PostOpStatus				
PROTEINSPSTOPSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Anti Phospholipid IgG				
ANTIPHOSPHOLIPIDIGGPOSTOP	Optional			Integer: enter a whole number.
Anti Phospholipid IgG Status				
ANTIPHOSPHOLIPIDIGGPOSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Currently on Inotrope intravenous therapy?				
CURRENTLYONINOTROPEINTRAVEONOU	Optional			SingleChoice: the code only. 0 - No 1 - Yes 9 - Unknown
Intravenous inotropes				
INTRAVENOUSINOTROPESPOSTOP	Optional			MultiChoice: the code(s) only. 1 - Dobutamine 2 - Dopamine 3 - Milrinone 4 - Levosimendan 5 - Epinephrine 6 - Norepinephrine 7 - Isoproterenol 98 - Other 99 - Unknown
Angiotensin receptor blocker (ARB)				
ANGIOTENSINRECEPTORBLOCKERDRUG	Optional			SingleChoice: the code only. 0 - No 1 - Yes

Field title				
Header field name	Importance	Min value	Max value	Values allowed
ACE inhibitors				
ACEINHIBITORSONDISCHARGE	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Neseritide				
NESERITIDEMEDICATION	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Amiodarone				
AMIODARONEONDISCHARGE	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Beta-Blockers				
BETABLOCKERSMEDICATION	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Loop diuretics				
LOOPDIURETICSMEDICATION	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Aldosterone antagonist				
ALDOSTERONEANTAGONISTMEDICATIO	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Warfarin				
WARFARINONDISCHARGE	Optional			SingleChoice: the code only. 0 - No 1 - Yes

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Antiplatelet drugs				
IFONANTEPLATELETTHERAPYDRUGSWH	Optional			MultiChoice: the code(s) only. 0 - None 1 - ASS 2 - Dexpran 3 - Dipyridamole 4 - Clopidogrel 5 - Ticlopidine 95 - Other
Other anticoagulant drugs				
ANTICOAGULANTTHERAPYDRUGS	Optional			MultiChoice: the code(s) only. 0 - None 1 - Heparin 2 - Enoxaparin 3 - Argatroban 4 - Bivalirudin 5 - Fondaparinux 6 - Hirudin 7 - Lepirudin 8 - Ximelagatran 99 - Other

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Follow up

fields included:

Multichoice separator	Evidence of INR being out of range	Mitral regurgitation
Layout specification version	Evidence of PTT being out of range	Tricuspid regurgitation
Submitter code	Details of CNS event	Aortic regurgitation
Import link ID	Location of CNS event	Pulmonary regurgitation
Date of follow up / event	Method used to diagnose CNS event	LV - EF
Type of event / follow up	Description of clinical event	LV - EDD
Location of the patient	Surgical intervention	RV function
Major adverse event	Drug intervention	LV - ESD
Adverse event / complication	Did the CNS event contribute to the patient's death	LV - EDV
Other adverse event or complication	Patient has hyperbilirubinemia	LV - ESV
Date of re-admission	Haematocrit	RV - EF
Discharge date	Systolic BP	TAPSE
Reason for unexpected re-admission	Diastolic BP	Heart Rate Status
Type of device	Type of cardiac arrhythmia	Heart rate
Type of device malfunction	Signs of tamponade	Systolic BP Status
Surgical procedure required	Methods of drainage	Diastolic BP Status
Device explanted	Plasma free haemoglobin	Volume Status (peripheral edema)
Did the device malfunction cause the patient's death	Plasma free haemoglobin status	Ascites
Date of bleeding onset	Cause of haemolysis	ECG rhythm (cardiac rhythm)
Outcome of the bleeding episode	SGPT/ALT	Height
Units transfused	SGOT/AST	Weight
Drug intervention	Total Bilirubin	BSA
Source/Cause/Location of the bleeding	Dialysis duration (weeks)	Body Mass Index
Causative or contributing factor to the bleed	Creatinine	Shunt Ratio (Qp/Qs)
Is this infection	Intubation duration	Pulmonary artery systolic pressure
Location of the infection	Was a tracheostomy performed	Pulmonary artery diastolic pressure
Type of infection	Signs of Right Heart Failure	RA pressure
Contributing factors to the infection	Location of thromboembolism	Pulmonary artery wedge pressure
Intervention	Confirmation source of thromboembolism	SVR
Did the infection contribute to the patient's death	Anti-thrombotic medication	PVR
Neurological Dysfunction Category	Location of VTE	Cardiac Index
Causes of Neurological Dysfunction	Type of follow up	Cardiac Output
	Follow up data entry	Currently on intravenous inotropes
	LV - SF	Angiotensin receptor blocker (ARB)
		ACE inhibitors

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Follow up

fields included:

Nitric oxide	TEG profile - R k	Self care
Neseritide	TEG profile - R h	Usual Activities
Amiodarone	Protein C	Pain/discomfort
Beta-blockers	Protein S	Anxiety/depression
Loop diuretics	Anti phospholipid IgG	EuroQOL - EQ5D Health Status
Aldosterone antagonist	Six minute walk	Your own health state today
Warfarin	Six minute walk distance	Have your family experienced serious illness?
Antiplatelet drugs	VO2 max	Are you smoking
Other anticoagulant drugs status	R value at peak	Have you experienced serious illness
Other anticoagulant drugs	NYHA class	Have you experienced serious illness in caring for others
Sodium	Ross Classification of Congestive Heart Failure	Do you now or did you ever work in health or social services
Potassium	CHF - No growth failure details	Device type explanted
Blood Urea Nitrogen	CHF - Growth failure details	Explant reason
LDH	CHF - Symptoms at rest details	Transplant date
Bilirubin direct	Device brand (LVAD)	Device type
Bilirubin indirect	LVAD device tracking number	Hospital treating patient
Albumin	LVAD type of driving	Care transferred to another Hospital
Pre Albumin	LVAD: cannulae location- inflow	Care permanently transferred to
Cholesterol	LVAD: cannulae location - outflow	Type of surgical procedure
Brain natriuretic peptide BNP	LVAD flow	Other procedure
NT pro brain natriuretic peptide Pro BNP	LVAD pump speed	Transferred care to another hospital
CRP C reactive protein	LVAD power	Transferred care to
White blood cell count	LVAD current	Date care was transferred
Reticulocyte count	LVAD control mode	Patient death
Haemoglobin	Device brand (RVAD)	Date of death
Platelet	RVAD device tracking number	Was the device function normal
pH	RVAD console tracking number	Was there an operation associated with the device malfunction
Lactate	RVAD type of driving	Post mortem device explant
Bicarbonate (HCO ₃)	RVAD: cannulae location - inflow	Did the device go to the manufacturer
Positive antiheparin/platelet antibody (HIT)	RVAD flow	Location of death
Is the patient on anticoagulants?	RVAD pump speed	Timing of death
INR	RVAD power	
PTT	RVAD control mode	
Factor V	Mobility	
TEG profile - MA k		

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Follow up

fields included:

Autopsy
Primary cause of death
Cancer death 1
Secondary cause of death
Cancer death 2
Secondary cause of death 2
Cancer death 3
Followup Data Complete

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Multichoice separator				
S	Mandatory			A character: you may define the single character you wish to use to separate values in multi-value fields.
Layout specification version				
SPECVERSION	Mandatory			String: use 1.3 for this version of the specification
Submitter code				
SUBMITCODE	Mandatory			TableSingleChoice: a code used to identify the source of the data.
Import link ID				
IMPORTLINKID	Mandatory			Integer: enter a whole number.
Date of follow up / event				
DATEOFFOLLOWUP	Mandatory			Date: ODBC date as yyyy-mm-dd.
Type of event / follow up				
TYPEOFEVENTFOLLOWUP	Mandatory			MultiChoice: the code(s) only. 2 - Event / complication 3 - Major adverse event 4 - Unexpected re-admission 5 - Patient transferred to another hospital 6 - Patient died 7 - Explant 8 - Intervention
Location of the patient				
LOCATIONOFTHEPATIENTADEV	Optional			SingleChoice: the code only. 1 - In hospital 2 - Out of hospital

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Major adverse event				
MAJORADVERSEEVENT	Optional			MultiChoice: the code(s) only. 1 - Device malfunction 2 - Major bleed 3 - Major infection 4 - Neurological dysfunction
Adverse event / complication				
ADVERSEEVENTCOMPLICATION	Optional			MultiChoice: the code(s) only. 1 - Cardiac arrhythmia 2 - Pericardial fluid collection 3 - Haemolysis 4 - Hepatic dysfunction 5 - Hypertension 6 - Psychiatric episode 7 - Renal dysfunction 8 - Respiratory failure 9 - Right heart failure 10 - Arterial non CNS thromboembolism 11 - Wound dehiscence 12 - Venous thromboembolism 13 - Myocardial infarction 98 - Other
Other adverse event or complication				
OTHEREORCOMPLICATION	Optional			ShortString: maximum of 1,024 characters.
Date of re-admission				
DATEOFADMISSION	Optional			Date: ODBC date as yyyy-mm-dd.
Discharge date				
DISCHARGEDATE	Optional			Date: ODBC date as yyyy-mm-dd.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Reason for unexpected re-admission				
REASONFORUNEXPECTEDREADMISSION	Optional			MultiChoice: the code(s) only. 1 - Cardiac arrhythmia 2 - Bleeding 3 - Cardiac tamponade 4 - Haematoma 5 - Haemolysis 6 - Hepatic dysfunction 7 - Hypertension 8 - Infection 9 - GI disorder 10 - Pulmonary disorder 11 - Limb vascular complication 12 - Pulmonary embolism/haemorrhage 13 - Planned procedure 14 - Device malfunction 15 - Myocardial infarction 16 - Neurological dysfunction 17 - Psychiatric episode 18 - Renal dysfunction 19 - Right heart failure 20 - Non-CNS thromboembolic event 21 - Wound complication 99 - Other
Type of device				
TYPEOFDEVICE	Optional			SingleChoice: the code only. 1 - LVAD 2 - RVAD 4 - TAH

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Type of device malfunction				
TYPEOFDEVICEMALFUNCTION	Optional			<p>MultiChoice: the code(s) only.</p> <ul style="list-style-type: none"> 1 - Blood pump 2 - Drive unit failure 3 - External control unit failure 4 - Device thrombosis 5 - External battery malfunction 6 - Internal battery malfunction 7 - External controller malfunction 8 - Internal controller malfunction 9 - Driveline malfunction 10 - Inflow graft malfunction / positioning 11 - Outflow graft malfunction / positioning 12 - Pump drive unit failure 13 - TET system malfunction 14 - Inflow valve 15 - Outflow valve 16 - Volume compensator malfunction 17 - Other component malfunction 18 - Patient non-compliance in device maintenance and protection 19 - Patient error in caring for system 20 - Inadequate instruction from carers 21 - No specific cause identified 22 - Replacement of internal battery 23 - Replacement of external battery 24 - Replacement of external controller 25 - Replacement of internal controller 26 - Replacement of drivetrain 27 - Replacement of inflow graft 28 - Replacement of outflow graft 29 - Replacement of pump 30 - Replacement of TET system 31 - Replacement of pump valve 32 - Replacement of volume compensator 33 - Replacement of other component

Field title				
Header field name	Importance	Min value	Max value	Values allowed
				34 - Switch from vented electric to pneumatic mode 99 - Unknown
Surgical procedure required				
SURGICALPROCEDUREREQUIRED	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Device explanted				
DEVICEEXPLANTED	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Did the device malfunction cause the patient's death				
DEVICEMALFUNCTIONCAUSEDEATH	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Date of bleeding onset				
DATEOFBLEEDINGONSET	Optional			Date: ODBC date as yyyy-mm-dd.
Outcome of the bleeding episode				
OUTCOMEOFTHEBLEEDINGEPISODE	Optional			MultiChoice: the code(s) only. 0 - None 1 - Transfusion 2 - Re-admission 3 - Re-operation 4 - Death

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Units transfused				
UNITSTRANSFUSED	Optional			SingleChoice: the code only. 0 - < 2 units 1 - 2-3 units 2 - 4-7 units 3 - 8 or more units 4 - 10-19 cc/kg (Patient < 50 kg) 5 - 20-39 cc/kg (Patient < 50 kg) 6 - >= 40 cc/kg (Patient <50 kg) 7 - <10 cc/kg (Patient <50 kg)
Drug intervention				
DRUGINTERVENTIONFORBLEED	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown
Source/Cause/Location of the bleeding				
SOURCECAUSELOCATIONBLEED	Optional			MultiChoice: the code(s) only. 1 - Mediastinal 2 - Pump pocket 3 - Thoracic pleural space 4 - Intra abdominal 5 - Respiratory 6 - Retroperitoneal 7 - Device anastomosis 8 - Outflow or inflow conduit 9 - Aortic or venous cannulation sites 10 - Chest wall 11 - Urinary tract 12 - Upper gastrointestinal 13 - Lower gastrointestinal 29 - Other

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Causative or contributing factor to the bleed				
CAUSATIVEORCONTRIBUTINGFACTORT	Optional			MultiChoice: the code(s) only. 1 - History of lesion or organ site that could potentiate a bleed 2 - Elevated INR or platelet count < 60000 3 - Management - over anticoagulation 4 - Complexities of medical management 5 - Procedural - related to implant procedure 6 - Procedural - related to re-operative procedure 7 - Procedural - related to diagnostic procedure 99 - Unknown
Is this infection				
ISTHISINFECTION	Optional			SingleChoice: the code only. 0 - Newly diagnosed 1 - Ongoing
Location of the infection				
LOCATIONOFTHEINFECTION	Optional			MultiChoice: the code(s) only. 1 - Pump related - drive line 2 - Pump related - pump pocket 3 - Pump related - Pump interior 4 - Positive blood cultures 5 - Line sepsis 6 - Pulmonary 7 - Urinary tract infection 8 - Mediastinum 9 - Peripheral wound 10 - GI 29 - Other 99 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Type of infection				
TYPEOFINFECTION	Optional			SingleChoice: the code only. 1 - Bacterial 2 - Fungal 3 - Viral 4 - Protozoan 99 - Unknown
Contributing factors to the infection				
CONTRIBUTINGFACTORSINFECTION	Optional			MultiChoice: the code(s) only. 1 - Patient condition 2 - Patient non-compliance with medication 3 - Patient non-compliance with device maintenance 4 - Patient non-compliance with follow up visits 5 - Device related 6 - Complexities of medical management 99 - Unknown
Intervention				
INTERVENTIONFORINFECTION	Optional			SingleChoice: the code only. 1 - Drug therapy only 2 - Surgical and drug therapy 3 - Surgical therapy only 99 - Other
Did the infection contribute to the patient's death				
INFECTIONCONTRIBUTETODEATH	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Neurological Dysfunction Category				
NEURODYSFUNCTIONCATEGORY	Optional			SingleChoice: the code only. 1 - Neurological dysfunction < 24 hours 2 - Neurological dysfunction > 24 hours 3 - Abnormality of head ultrasound (Patient < 6 months) 4 - Positive EEG (Patient < 6 months) 9 - Other neurological dysfunction
Causes of Neurological Dysfunction				
CAUSESNEUROLODYSFUNCTION	Optional			MultiChoice: the code(s) only. 1 - Patient not taking anticoagulation medication properly 2 - Complexities of medical management 3 - Device related 99 - Unknown
Evidence of INR being out of range				
EVIDENCEOFINRBEINGOUTOFRANGE	Optional			MultiChoice: the code(s) only. 0 - No 1 - INR above target range 2 - INR below target range
Evidence of PTT being out of range				
EVIDENCEOFPTTBEINGOUTOFRANGE	Optional			MultiChoice: the code(s) only. 0 - No 1 - PTT above target range 2 - PTT below target range
Details of CNS event				
DETAILSOFCNSEVENT	Optional			SingleChoice: the code only. 1 - Intracranial bleed 2 - Embolism 9 - Other

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Location of CNS event				
LOCATIONOFCNSEVENT	Optional			SingleChoice: the code only. 1 - Right hemisphere 2 - Left hemisphere 3 - Occipital 4 - Brain stem 9 - Other
Method used to diagnose CNS event				
METHODUSEDTODIAGNOSECNSEVENT	Optional			SingleChoice: the code only. 1 - CT 2 - MRT 3 - Angiogram 4 - Clinical 9 - Other
Description of clinical event				
DESCRIPTIONOFCNSCLINICALEVENT	Optional			SingleChoice: the code only. 1 - Stroke 2 - Seizure 99 - Other
Surgical intervention				
SURGICALINTERVENTIONCNSEVENT	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Drug intervention				
DRUGINTERVENTIONCNSEVENT	Optional			MultiChoice: the code(s) only. 0 - None 1 - Heparin 2 - Thrombolytics 3 - Anti-seizure 99 - Other

Field title					
Header field name	Importance	Min value	Max value	Values allowed	
Did the CNS event contribute to the patient's death					
CNSEVENTCONTRIBUTETODEATH	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown	
Patient has hyperbilirubinemia					
PATIENTHASHYPERBILIRUBINEMIA	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown	
Haematocrit					
HAEMATOCRIT	Optional			Integer: enter a whole number.	
Systolic BP					
SYSTOLICBP	Optional	20	300	Integer: enter a whole number.	
Diastolic BP					
DIASTOLICBP	Optional	10	180	Integer: enter a whole number.	
Type of cardiac arrhythmia					
TYPEOFCARDIACARRHYTHMIA	Optional			SingleChoice: the code only. 1 - Sustained ventricular arrhythmia requiring defibrillation or cardioversion 2 - Sustained supraventricular arrhythmia requiring drug treatment or cardioversion 99 - Other	
Signs of tamponade					
SIGNSOFTAMPONADE	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown	

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Methods of drainage				
METHODSOFDRAINAGE	Optional			SingleChoice: the code only. 1 - Cath 2 - Surgical intervention 99 - Other
Plasma free haemoglobin				
PLASMAFREEHAEMOGLOBIN	Optional	0		Floating point: enter a numeric value.
Plasma free haemoglobin status				
PLASMAFREEHAEMOGLOBINSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Cause of haemolysis				
CAUSEOFHAEMOLYSIS	Optional			SingleChoice: the code only. 1 - Device related 9 - Other 99 - Unknown
SGPT/ALT				
SGPTALT	Optional	0		Integer: enter a whole number.
SGOT/AST				
SGOTAST	Optional	0		Floating point: enter a numeric value.
Total Bilirubin				
TOTALBILIRUBIN	Optional			Floating point: enter a numeric value.
Dialysis duration (weeks)				
DIALYSISDURATIONWEEKS	Optional	0		Integer: enter a whole number.
Creatinine				
CREATININE	Optional			Floating point: enter a numeric value.
Intubation duration				
INTUBATIONDURATION	Optional			Integer: enter a whole number.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Was a tracheostomy performed				
WASATRACHEOSTOMYPERFORMED	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown
Signs of Right Heart Failure				
SIGNSOFRIGHTHEARTFAILURE	Optional			MultiChoice: the code(s) only. 1 - CVP >18 mmHg 2 - CI < 2.0 L/min/m ² 3 - Ascites 4 - Peripheral oedema
Location of thromboembolism				
LOCATIONOFTHROMBOEMBOLISM	Optional			SingleChoice: the code only. 1 - Pulmonary 2 - Renal 3 - Hepatic 4 - Splenic 5 - Limb 98 - Other 99 - Unknown
Confirmation source of thromboembolism				
CONFIRMATIONSOURCEOFTE	Optional			SingleChoice: the code only. 0 - Standard clinical laboratory testing 1 - Operative findings 2 - Autopsy findings 98 - Other 99 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Anti-thrombotic medication				
ANTITHROMBOTICMEDICATION	Optional			MultiChoice: the code(s) only. 0 - None 1 - Warfarin 2 - Heparin 3 - Lovenox 4 - Aspirin 5 - Dipyridamole 6 - Clopidogrel 7 - Argatroban 8 - Bivalirudin 9 - Fondaparinux 10 - Hirudin 11 - Lepirudin 12 - Ximelagatran 98 - Other
Location of VTE				
LOCATIONNOFVTE	Optional			MultiChoice: the code(s) only. 1 - PE 2 - DVT 9 - Other
Type of follow up				
TYPEOFFOLLOWUP	Optional			SingleChoice: the code only. 0 - In-patient 1 - Out-patient 2 - Telephone

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Follow up data entry				
FOLLOWUPDATAENTRY	Optional			MultiChoice: the code(s) only. 1 - Echo 2 - General haemodynamics 3 - Swan Ganz 4 - Medication 5 - Blood results 6 - Exercise test 7 - Pump data 8 - Medical condition 9 - Quality of Life assessment 10 - Patient Registry Status
LV - SF				
LVSF	Optional	0	100	Integer: enter a whole number.
Mitral regurgitation				
MITRALREGURGITATION	Optional			SingleChoice: the code only. 0 - None 1 - Trivial 2 - Mild 3 - Moderate 4 - Severe 9 - Not done 99 - Unknown
Tricuspid regurgitation				
TRICUSPIDREGURGITATION	Optional			SingleChoice: the code only. 0 - None 1 - Trivial 2 - Mild 3 - Moderate 4 - Severe 9 - Not done 99 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Aortic regurgitation				
AORTICREGURGITATION	Optional			SingleChoice: the code only. 0 - None 1 - Trivial 2 - Mild 3 - Moderate 4 - Severe 9 - Not done 99 - Unknown
Pulmonary regurgitation				
PULMONARYREGURGITATION	Optional			SingleChoice: the code only. 0 - None 1 - Trivial 2 - Mild 3 - Moderate 4 - Severe 9 - Not done 99 - Unknown
LV - EF				
LVEF	Optional			SingleChoice: the code only. 0 - >50% (normal) 1 - 41-50% (mild) 2 - 31-40% (moderate) 3 - 21-30% (moderate/severe) 4 - <20% (severe) 98 - Not done 99 - Unknown
LV - EDD				
LVEDD	Optional	0		Floating point: enter a numeric value.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
RV function				
RVEF	Optional			SingleChoice: the code only. 1 - Normal 2 - Mild 3 - Moderate 4 - Severe 9 - Not done 99 - Unknown
LV - ESD				
LVESD	Optional	0		Floating point: enter a numeric value.
LV - EDV				
LVEDV	Optional			Floating point: enter a numeric value.
LV - ESV				
LVESV	Optional			Floating point: enter a numeric value.
RV - EF				
RVEFPERCENT	Optional	0	100	Integer: enter a whole number.
TAPSE				
TAPSE	Optional	0		Integer: enter a whole number.
Heart Rate Status				
HEARTRATESTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Heart rate				
HEARTRATE	Optional			Integer: enter a whole number.
Systolic BP Status				
SYSTOLICBPSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Diastolic BP Status				
DIASTOLICBPSTATUS	Optional			SingleChoice: the code only. 0 - Not measured 99 - Unknown
Volume Status (peripheral edema)				
VOLUMESTATUSPERIPHERAEDEMA	Optional			SingleChoice: the code only. 0 - None 1 - Mild 2 - Moderate 3 - Severe 9 - Not done 99 - Unknown
Ascites				
ASCITES	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown
ECG rhythm (cardiac rhythm)				
ECGRHYTHMCARDIACRHYTHM	Optional			SingleChoice: the code only. 0 - Sinus 1 - Atrial fibrillation 2 - Atrial flutter 3 - Paced 4 - Other 9 - Not done 99 - Unknown
Height				
HEIGHT	Optional	20	250	Integer: enter a whole number.
Weight				
WEIGHT	Optional	1	300	Floating point: enter a numeric value.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
BSA				
BSA	Optional			Floating point: enter a numeric value.
Body Mass Index				
BODYMASSINDEX	Optional			Floating point: enter a numeric value.
Shunt Ratio (Qp/Qs)				
SHUNTRATIOQPQS	Optional			Floating point: enter a numeric value.
Pulmonary artery systolic pressure				
PULMONARYARTERYSYSTOLICPRESSURE	Optional			Integer: enter a whole number.
Pulmonary artery diastolic pressure				
PULMONARYARTERYDIASTOLICPRESSURE	Optional			Integer: enter a whole number.
RA pressure				
RAPRESSURE	Optional			Integer: enter a whole number.
Pulmonary artery wedge pressure				
PULMONARYARTERYWEDGEPRESSURE	Optional			Integer: enter a whole number.
SVR				
SVR	Optional			Integer: enter a whole number.
PVR				
PVR	Optional			Integer: enter a whole number.
Cardiac Index				
CARDIACINDEX	Optional			Floating point: enter a numeric value.
Cardiac Output				
CARDIACOUTPUT	Optional			Floating point: enter a numeric value.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Currently on intravenous inotropes				
CURRENTLYONINTRAVERNOUSINOTROPES	Optional			MultiChoice: the code(s) only. 0 - No 1 - Dobutamine 2 - Dopamine 3 - Milrinone 4 - Levosimendan 5 - Epinephrine 6 - Norepinephrine 7 - Isoproterenol 9 - Other 99 - Unknown
Angiotensin receptor blocker (ARB)				
ANGIOTENSINRECEPTORBLOCKER	Optional			SingleChoice: the code only. 0 - No 1 - Known previous use 2 - Currently using 99 - Unknown
ACE inhibitors				
ACEINHIBITORS2	Optional			SingleChoice: the code only. 0 - No 1 - Known previous use 2 - Currently using 99 - Unknown
Nitric oxide				
NITRICOXIDE	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Neseritide				
NESERITIDE	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown
Amiodarone				
AMIODARONE	Optional			SingleChoice: the code only. 0 - No 1 - Known previous use 2 - Currently using 99 - Unknown
Beta-blockers				
BETABLOCKERS	Optional			SingleChoice: the code only. 0 - No 1 - Known previous use 2 - Currently using 99 - Unknown
Loop diuretics				
LOOPDIURETICS	Optional			SingleChoice: the code only. 0 - No 1 - Known previous use 2 - Currently using 99 - Unknown
Aldosterone antagonist				
ALDOSTERONEANTAGONIST	Optional			SingleChoice: the code only. 0 - No 1 - Known previous use 2 - Currently using 99 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Warfarin				
WARFARIN	Optional			SingleChoice: the code only. 0 - No 1 - Known previous use 2 - Currently using 99 - Unknown
Antiplatelet drugs				
ANTIPLATELETDRUGTHERAPY	Optional			MultiChoice: the code(s) only. 0 - No 1 - ASS 2 - Dexpran 3 - Dipyridamole 4 - Clopidogrel 5 - Ticlopidine 9 - Other 99 - Unknown
Other anticoagulant drugs status				
ANTICOAGULANTTHERAPYDRUGSSTATUS	Optional			SingleChoice: the code only. 0 - No 1 - Known previous use 2 - Currently using 99 - Unknown
Other anticoagulant drugs				
ANTICOAGULANTDRUGS	Optional			MultiChoice: the code(s) only. 1 - Heparin 2 - Enoxaparin 3 - Argatroban 4 - Bivalirudin 5 - Fondiparinux 6 - Hirudin 7 - Lepirudin 8 - Ximelagatran 19 - Other

Field title	Header field name	Importance	Min value	Max value	Values allowed
Sodium					
	SODIUMFUMMOL	Optional			Floating point: enter a numeric value.
Potassium					
	POTASSIUM	Optional			Floating point: enter a numeric value.
Blood Urea Nitrogen					
	BLOODUREANITROGEN	Optional			Floating point: enter a numeric value.
LDH					
	LDH	Optional	0		Floating point: enter a numeric value.
Bilirubin direct					
	BILIRUBINDIRECT	Optional	0		Floating point: enter a numeric value.
Bilirubin indirect					
	BILIRUBININDIRECT	Optional	0		Floating point: enter a numeric value.
Albumin					
	ALBUMIN	Optional			Floating point: enter a numeric value.
Pre Albumin					
	PREALBUMIN	Optional			Floating point: enter a numeric value.
Cholesterol					
	CHOLESTEROL	Optional			Floating point: enter a numeric value.
Brain natriuretic peptide BNP					
	BRAINNATRIURETICPEPTIDEBNP	Optional			Integer: enter a whole number.
NT pro brain natriuretic peptide Pro BNP					
	NTPROBRAINNATRIURETICPEPTIDPROBNP	Optional			Integer: enter a whole number.
CRP C reactive protein					
	CRPCREACTIVEPROTEIN	Optional			Floating point: enter a numeric value.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
White blood cell count				
WHITEBLOODCELLCOUNT	Optional			Floating point: enter a numeric value.
Reticulocyte count				
RETICULOCYTECOUNT	Optional	0	100	Floating point: enter a numeric value.
Haemoglobin				
HAEMOGLOBIN	Optional			Floating point: enter a numeric value.
Platelet				
PLATELET	Optional			Integer: enter a whole number.
pH				
PH	Optional			Floating point: enter a numeric value.
Lactate				
LACTATE	Optional			Floating point: enter a numeric value.
Bicarbonate (HCO₃)				
BICARBONATEHCO3	Optional			Floating point: enter a numeric value.
Positive antiheparin/platelet antibody (HIT)				
POSITIVEANTIHEPARINPLATELETANTIBODYHIT	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown

Field title	Importance	Min value	Max value	Values allowed
Is the patient on anticoagulants?				
ISPATIENTONDIRECTTHROMBININHIBITORS	Optional			MultiChoice: the code(s) only. 0 - No 1 - ASS 2 - Dipyridamole 3 - Clopidogrel 4 - Heparin 5 - Vitamin K antagonists 6 - Direct thrombin inhibitors 9 - Other 99 - Unknown
INR				
INR	Optional			Floating point: enter a numeric value.
PTT				
PTT	Optional			Floating point: enter a numeric value.
Factor V				
FACTORV	Optional			Integer: enter a whole number.
TEG profile - MA k				
TEGPROFILEMAK	Optional			Integer: enter a whole number.
TEG profile - R k				
TEGPROFILERK	Optional			Integer: enter a whole number.
TEG profile - R h				
TEGPROFILERH	Optional			Integer: enter a whole number.
Protein C				
PROTEINC	Optional			Integer: enter a whole number.
Protein S				
PROTEINS	Optional			Integer: enter a whole number.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Anti phospholipid IgG				
ANTIPHOSPHOLIPIDIGG	Optional			Integer: enter a whole number.
Six minute walk				
SIXMINUTEWALK	Optional			SingleChoice: the code only. 1 - Not done - too sick 2 - Not done - other reason 3 - Completed 99 - Unknown
Six minute walk distance				
SIXMINUTEWALKDISTANCE	Optional			Integer: enter a whole number.
VO2 max				
VO2MAX	Optional			Floating point: enter a numeric value.
R value at peak				
RVALUEATPEAK	Optional			Floating point: enter a numeric value.
NYHA class				
NYHACLASS	Optional			SingleChoice: the code only. 1 - Class 1 2 - Class 2 3 - Class 3 4 - Class 4 99 - Unknown
Ross Classification of Congestive Heart Failure				
ROSSCLASSIFICATIONOFCONGESTIVEHEARTFAILURE	Optional			SingleChoice: the code only. 0 - Class I - No limitation or symptoms 1 - Class II - No growth failure 2 - Class III - Growth failure 3 - Class IV - Symptomatic at rest

Field title				
Header field name	Importance	Min value	Max value	Values allowed
CHF - No growth failure details				
CHFNOGROWTHFAILUREDETAILS	Optional			MultiChoice: the code(s) only. 1 - Mild tachypnoea with feeds in infant 2 - Mild diaphoresis with feeds in infant 3 - Dyspnoea on exercise in older children 99 - Unknown
CHF - Growth failure details				
CHFGROWTHFAILUREDETAILS	Optional			MultiChoice: the code(s) only. 1 - Marked tachypnoea with exertion or with feeding 2 - Marked diaphoresis with exertion or with feeding 99 - Unknown
CHF - Symptoms at rest details				
CHFSYMPTOMSATRESTDETAILS	Optional			MultiChoice: the code(s) only. 1 - Tachypnoea 2 - Retractions 3 - Grunting 4 - Diaphoresis 99 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Device brand (LVAD)				
DEVICEBRANDLVAD	Optional			SingleChoice: the code only. 1 - AB5000 2 - Thoratec pVAD 3 - Berlin Heart Excor 4 - Berlin Heart Incor 5 - Jarvik 2000 6 - HeartWare HVAD 7 - HeartAssist5 8 - Terumo DuraHeart 9 - HeartMate II LVAS 11 - VentraCor VentrAssist 13 - CircuLite Synergy 14 - Thoratec - HeartMate III 15 - HeartWare MVAD 99 - Other
LVAD device tracking number				
LVADDEVICETRACKINGNUMBER	Optional			ShortString: maximum of 1,024 characters.
LVAD type of driving				
LVADTYPEOFDRIVING	Optional			SingleChoice: the code only. 1 - Pulsatile 2 - Rotary
LVAD: cannulae location- inflow				
LVADCANNULAELOCATIONINFLOW	Optional			SingleChoice: the code only. 0 - LA appendage 1 - LA interatrial groove 2 - LV apex 98 - Other 99 - Unknown

Field title	Importance	Min value	Max value	Values allowed
LVAD: cannulae location - outflow				
LVADCANNULAELOCATIONOUTFLOW	Optional			SingleChoice: the code only. 0 - Ascending aorta 1 - Descending thoracic aorta 2 - Abdominal aorta 98 - Other 99 - Unknown
LVAD flow				
LVADFLOW	Optional			Floating point: enter a numeric value.
LVAD pump speed				
LVADPUMPSPEED	Optional			Floating point: enter a numeric value.
LVAD power				
LVADPOWER	Optional			Floating point: enter a numeric value.
LVAD current				
LVADCURRENT	Optional			Floating point: enter a numeric value.
LVAD control mode				
LVADCONTROLMODE	Optional			SingleChoice: the code only. 0 - Auto mode 1 - Fixed 99 - Unknown
Device brand (RVAD)				
DEVICEBRANDRVAD	Optional			SingleChoice: the code only. 1 - Levitronix CentriMag 2 - Thoratec pVAD 3 - HeartWare HVAD 4 - Berlin Heart Excor 5 - Maquet CardioHelp 99 - Other

Field title	Importance	Min value	Max value	Values allowed
RVAD device tracking number				
RVADDEVICETRACKINGNUMBER	Optional			ShortString: maximum of 1,024 characters.
RVAD console tracking number				
RVADCONSOLETRACKINGNUMBER	Optional			ShortString: maximum of 1,024 characters.
RVAD type of driving				
RVADTYPEOFDRIVING	Optional			SingleChoice: the code only. 1 - Pulsatile 2 - Rotary
RVAD: cannulae location - inflow				
RVADCANNULAELOCATIONINFLOW	Optional			SingleChoice: the code only. 1 - RA 2 - RV 93 - Other 94 - Unknown
RVAD flow				
RVADFLOW	Optional			Floating point: enter a numeric value.
RVAD pump speed				
RVADPUMPSPEED	Optional			Floating point: enter a numeric value.
RVAD power				
RVADPOWER	Optional			Floating point: enter a numeric value.
RVAD control mode				
RVADSELECTCONTROLMODE	Optional			SingleChoice: the code only. 1 - Auto mode 2 - Fixed 99 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Mobility				
MOBILITY	Optional			SingleChoice: the code only. 1 - I have no problem walking about 2 - I have some problems in walking about 3 - I am confined to bed 99 - Unknown
Self care				
SELFCARE	Optional			SingleChoice: the code only. 1 - I have no problems with self-care 2 - I have some problems washing or dressing myself 3 - I am confined to bed 99 - Unknown
Usual Activities				
USUALACTIVITIES	Optional			SingleChoice: the code only. 1 - I have no problems with performing my usual activities 2 - I have some problems with performing my usual activities 3 - I am unable to perform my usual activities 99 - Unknown
Pain/discomfort				
PAINDISCOMFORT	Optional			SingleChoice: the code only. 1 - I have no pain or discomfort 2 - I have moderate pain or discomfort 3 - I have severe pain or discomfort 99 - Unknown
Anxiety/depression				
ANXIETYDEPRESSION	Optional			SingleChoice: the code only. 1 - I am not anxious or depressed 2 - I am moderately anxious or depressed 3 - I am severely anxious or depressed 99 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
EuroQOL - EQ5D Health Status				
EUROQOLEQ5DHEALTHSTATUS	Optional			Floating point: enter a numeric value.
Your own health state today				
YOUROWNHEALTHSTATETODAY	Optional			Integer: enter a whole number.
Have your family experienced serious illness?				
HAVEYOURFAMILYEXPERIENCEDSERIOUSILLNESS	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown
Are you smoking				
AREYOU SMOKING	Optional			SingleChoice: the code only. 0 - No - never 1 - No - previous 3 - Yes - current 99 - Unknown
Have you experienced serious illness				
HAVEYOUEXPERIENCEDSERIOUSILLNESS	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown
Have you experienced serious illness in caring for others				
HAVEYOUEXPERIENCEDSERIOUSILLNESSINCARINGFOROTHERS	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown
Do you now or did you ever work in health or social services				
DOYOUNOWORDIDYOUEVERWORKINHEALTHORSOCIALSERVICES	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Device type explanted				
DEVICETYPEEXPLANTED	Optional			MultiChoice: the code(s) only. 1 - LVAD 2 - RVAD 3 - BiVAD 4 - Total artificial heart 5 - SVAD
Explant reason				
EXPLANTREASON	Optional			SingleChoice: the code only. 1 - Transplant 2 - Death 3 - Device Malfunction - Elective 4 - Device Malfunction - Emergent 5 - Ventricle Recovery/Wean 9 - Other
Transplant date				
TRANSPLANTDATE	Optional			Date: ODBC date as yyyy-mm-dd.
Device type				
DEVICETYPE	Optional			MultiChoice: the code(s) only. 1 - LVAD 2 - RVAD 3 - BiVAD 4 - Total artificial heart 5 - SVAD
Hospital treating patient				
HOSPITALTREATINGPATIENT	Optional			TableSingleChoice: see table INS
Care transferred to another Hospital				
CARETRANSFERREDTOANOTHERHOSPIT	Optional			SingleChoice: the code only. 0 - No 1 - Yes

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Care permanently transferred to				
CAREPERMANENTLYTRANSFERREDTO	Optional			TableSingleChoice: see table INS
Type of surgical procedure				
TYPEOFSURGICALPROCEDURE	Optional			SingleChoice: the code only. 0 - Device related operation 1 - Other cardiac surgical procedure 2 - Non cardiac surgical procedure 3 - Other procedure
Other procedure				
OTHERPROCEDURE	Optional			SingleChoice: the code only. 1 - Reintubation due to Respiratory Failure 2 - Dialysis 3 - Bronchoscopy 19 - Other
Transferred care to another hospital				
TRANSFERREDCARETOANOTHERHOSPITAL	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Transferred care to				
TRANSFERREDCARETO	Optional			SingleChoice: the code only.
Date care was transferred				
DATECAREWASTRANSFERRED	Optional			Date: ODBC date as yyyy-mm-dd.
Patient death				
PATIENTDEATH	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Date of death				
DATEOFDEATH	Optional			Date: ODBC date as yyyy-mm-dd.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Was the device function normal				
WASTHEDEVICEFUNCTIONNORMAL	Optional			SingleChoice: the code only. 0 - No 1 - Yes
Was there an operation associated with the device malfunction				
OPRELATEDDEVICEDEATH	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown
Post mortem device explant				
POSTMORTEMDEVICEEXPLANT	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown
Did the device go to the manufacturer				
DEVICEGOTOTHEMANUFACTURER	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown
Location of death				
LOCATIONOFDEATH	Optional			SingleChoice: the code only. 0 - In hospital 1 - Out of hospital 99 - Unknown
Timing of death				
TIMINGOFDEATH	Optional			SingleChoice: the code only. 0 - Expected 1 - Unexpected 99 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Autopsy				
AUTOPSY	Optional			SingleChoice: the code only. 0 - No 1 - Yes 99 - Unknown
Primary cause of death				
PRIMARYCAUSEOFDEATH	Optional			TableSingleChoice: see table COD
Cancer death 1				
CANCERDEATH1	Optional			SingleChoice: the code only. 1 - CNS 2 - GI 3 - Lymph 4 - ENT 5 - Pulmonary 6 - Renal 7 - Breast 8 - Reproductive 9 - Skin 98 - Other 99 - Unknown
Secondary cause of death				
SECONDARYCAUSEOFDEATH	Optional			TableSingleChoice: see table COD

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Cancer death 2				
CANCERDEATH2	Optional			SingleChoice: the code only. 1 - CNS 2 - GI 3 - Lymph 4 - ENT 5 - Pulmonary 6 - Renal 7 - Breast 8 - Reproductive 9 - Skin 98 - Other 99 - Unknown
Secondary cause of death 2				
SECONDARYCAUSEOFDEATH2	Optional			TableSingleChoice: see table COD
Cancer death 3				
CANCERDEATH3	Optional			SingleChoice: the code only. 1 - CNS 2 - GI 3 - Lymph 4 - ENT 5 - Pulmonary 6 - Renal 7 - Breast 8 - Reproductive 9 - Skin 98 - Other 99 - Unknown
Followup Data Complete				
FOLLOWUPDATACOMPLETE	Optional			SingleChoice: the code only. 0 - No 1 - Yes

Upload file

Tables

fields included:

COD
CTY
INS
TAH

Field title	Importance	Min value	Max value	Values allowed
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Table **COD**

B01	Bleeding			M02	Myocardial infarction
C01	Cancer			P05	Pulmonary artery embolisation
C04	Cerebro-vascular accident			R03	Right heart failure
C05	Cardio-pulmonary failure			S02	Suicide
D01	Device failure			S03	Sepsis
I01	Infection			T01	Trauma
L02	Left heart failure			T02	Technical problems
L03	Lung failure			Z98	Other cause of death
M01	Multi-organ failure			Z99	Unknown cause of death

Table **CTY**

AT	Austria			GR	Greece
AZ	Azerbaijan			HU	Hungary
BE	Belgium			IT	Italy
BY	Belarus			KZ	Kazakhstan
CH	Switzerland			LU	Luxembourg
CZ	Czech Republic			NL	Netherlands
DE	Germany			NO	Norway
DK	Denmark			PL	Poland
ES	Spain			PT	Portugal
FI	Finland			SE	Sweden
FR	France			TUR	Turkey
GB	United Kingdom				

Field title	Importance	Min value	Max value	Values allowed
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Table **INS**

AUT	AHEPA University Hospital - Thessaloniki			NIG Niguarda Ca Granda Hospital
BAK	Central Clinic Hospital in Baku, Azerbaijan			NUT Freeman Hospital
BIR	University Hospital of Birmingham			OLVZ OLVZ Hospital
BOH	Bad Oeynhausen Hospital			OSP Ospedale San Camillo - Rome
COL	Ospedale dei Colli - Naples			PAP Ospedale Papa Giovanni XIII - Bergamo
CRN	Institute for Clinical and Experimental Medicine - Czech Republic			REM Rotterdam Erasmus Medical Center
DCS	Dendrite			RIG Rigshospitalet
DHZB	German Heart Institute Berlin			SEM Heart Center of the Semmelweis University - Budapest
EGE	Ege University Hospital Izmir			SOH San Orsola Hospital - Bologna
EPP	University Hospital Eppendorf - Hamburg			TRM Torino Regina Margherita Children's Hospital
ESPA	ESPAMACS, Spain			TSB Center for Cardiovascular and Transplant Surgery Brno
FLO	Florence Nightingale University Hospital, Istanbul			TYU Turkiye Yuksek Ihtisas Hospital
FREI	Freiburg University Heart Clinic			UHB University Hospital Berne
GHI	Gottsegen Hungarian Institute of Cardiology			UHCF University Heart Center Freiburg Bad Krozingen
HWR	Heartware			UHH Universitäts Herzzentrum Hamburg
IMACS	iMacs (University of Alabama, Birmingham)			UMCU University Medical Center Utrecht
INSEL	Inselspital in Bern, Switzerland			USH University Hospital Schleswig-Holstein
ISM	ISMETT - Mediterranean Institute for Transplantation and Advanced Specialized Therapies			UZG Universitair Ziekenhuis Gent
KAZ	National Research Cardiac Surgery Center - Kazakhstan			UZL Universitair ziekenhuis UZ Leuven
KIN	Kinderspital Zürich			WAR Cardiac surgery and transplantology Department, Warsaw
MIN	Republican Scientific and Practical Center Cardiology Minsk			ZAG University Hospital Centre Zagreb
NAV	Clinica Universidad de Navarra, Pamplona			ZZZ Non Euromacs centre

Table **TAH**

1	CardioWest	3	HeartWare
2	Thoratec	4	Berlin Heart

Field title				
Header field name	Importance	Min value	Max value	Values allowed



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