The European Registry for Patients with Mechanical Circulatory Support

EACTS

EUROMACS

Upload-My-Data file specification

Version: 2.04 　　　　　document dated 14 Oct 2025

Author: Robin Kinsman　　　　　robin.kinsman@e-dendrite.com

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 **2.04**. 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. Please note that the three age fields in the baseline file are flagged as Optional, but one or more of them must be completed for the operation record to be accepted by the Upload-My-Data portal; these three age fields are, effectively, a composite Mandatory field.

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.

Upload file | Baseline

fields included:

Multichoice separator
Layout specification version
SubmitGroup Code
Patient identifier
Import link ID
Patient Gender
Hospital
Institution
Country
Blood type
Rhesus factor
Age in years
Age in months
Age in weeks
Sex at birth
Ethnic origin
Marital status
If working, please specify
Baseline Data Complete
Date of admission
Echo
Date of Echo
General haemodynamics
Date General Haemodynamics measured
Medication prior to admission
Medication review date
Blood test on admission
Date of blood test
Swan Ganz
Date Swan Ganz inserted
Exercise test
Date of exercise test
Congestive Heart Failure assessment
Date of CHF assessment
Quality of Life assessment

Date Quality of Life assessed
Left ventricle - shortening fraction
Left ventricle - shortening fraction status
Mitral regurgitation
Peak gradient mitral valve
Mitral valve area
Tricuspid regurgitation
Aortic regurgitation
Peak velocity forward flow aortic valve
Aortic valve area (AVA)
Pulmonary regurgitation
Left ventricle ejection fraction (categorical)
Left ventricle ejection fraction (continious)
Left ventricle end-diastolic diameter (LVEDD)
Left ventricle end-diastolic diameter (LVEDD) status
Left ventricule end-systolic diameter
Left ventricule end-systolic diameter status
Left ventricle end-diastolic volume
Left ventricle end-diastolic volume status
Left ventricle end-systolic volume
Left ventricle end-systolic volume status
RV function
RV - EF
RV - EF status
TAPSE
TAPSE Status
Heart rate
Heart Rate Status
Systolic BP
Systolic BP status
Diastolic BP
Diastolic BP Status
Volume Status (peripheral edema)

Ascites
ECG rhythm (cardiac rhythm)
Height
Weight
Pulmonary artery systolic pressure
PA Systolic status
Pulmonary artery diastolic pressure
PA Diastolic status
Mean pulmonary artery pressure
Mean PA pressure status
Pulmonary artery wedge pressure
PAWP status
RA pressure
RA Pressure status
SVR
SVR status
PVR
PVR status
Cardiac Output
Cardiac Output status
Currently on intravenous inotropes
Angiotensin receptor blocker (ARB)
ACE inhibitors
Sildenafil
Iloprost
Bosentan
Amiodarone
Beta-blockers
Loop diuretics
Aldosterone antagonist
Antiplatelet drugs
Other anticoagulant drugs
Cumarin
DOAC
ARNI / ARB

Upload file | Baseline

fields included:

SGLT2 inhibitor
MRA
Sodium
Sodium
Sodium status
Potassium
Potassium
Potassium status
Blood Urea Nitrogen
Blood urea nitrogen status
Creatinine
Creatinine
Creatinine status
SGPT/ALT
SGPT/ALT
SGPT/ALT status
SGOT/AST
SGOT/AST
SGOT/AST status
LDH
LDH status
Total Bilirubin
Total Bilirubin
Total bilirubin status
Bilirubin direct
Bilirubin direct
Bilirubin direct status
Albumin
Albumin
Albumin status
NT pro brain natriuretic peptide Pro BNP
NT pro brain natriuretic peptide pro BNP status
CRP C Reactive Protein
CRPStatusPreOp

White blood cell count
White blood cell count status
Haemoglobin
Haemoglobin status
Platelet
Platelet status
pH
pH status
Lactate
Lactate status
Bicarbonate (HCO3)
Bicarbonate (HCO3) status
Plasma free Haemoglobin
Plasma free haemoglobin status
Positive antiheparin/platelet antibody (HIT)
INR
INR status
PTT
PTT status
Protein C
ProteinCStatusPreOp
NYHA class
Ross Classification of Congestive Heart Failure
CHF - No growth failure details
CHF - Growth failure details
INTERMACS patient profile
Recurrent ventricular tachycardias
Frequent Flyer
Six minute walk
Six minute walk distance
VO2 max
R value at peak
Mobility
Self care

Usual Activities
Pain/discomfort
Anxiety/depression
Your own health state today
Have you experienced serious illness
Have your family experienced serious illness?
Have you experienced serious illness in caring for others
Are you smoking
Do you now or did you ever work in health or social services
Which of the following best describes your main activity
Current device strategy
Additional indication for VAD
Enter cardiac operation
Implant decision date
Eligibility / Contraindications for transplant
Time since first cardiac diagnosis
Primary diagnosis
Congenital heart disease
Congenital heart disease comments
Secondary diagnosis
Responsible toxin
Known cardiac biopsy
Major infection
Location of infection
Infection type
Current ICD device in place
Cardiac arrest
Dialysis
Intubation
Major Myocardial Infarction
Positive blood cultures

Upload file | Baseline

fields included:

Other surgical procedures
Ultrafiltration
Ventilator
Feeding tube
Short term device IABP
IABP Implant date
IABP Explant date
Short term device Impella CP
Impella CP Implant date
Impella CP Explant date
Short term device Impella 5.0
Impella 5.0 Implant date
Impella 5.0 Explant date
Short term device Impella 5.5
Impella 5.5 Implant date
Impella 5.5 Explant date
Short term device Impella RP
Impella RP Implant date
Impella RP Explant date
Short term device Tandemheart
Tandemheart Implant date
Tandemheart Explant date
Short term device ECLS VA
ECLS VA Implant date
ECLS VA Explant date
Short term device ECLS VV
ECLS VV Implant date
ECLS VV Explant date
Short term device ECLS VAV
ECLS VAV Implant date
ECLS VAV Explant date
Short term device ECLS VVA
ECLS VVA Implant date
ECLS VVA Explant date
ECLS cannulation unknown

ECLS implant date
ECLS explant date
Short term device Other
Short term device Other description
Short term device Other Implant date
Short term device Other Explant date
Diabetes
Insulin-dependent
COPD
Symptomatic peripheral vascular disease
Connective tissue or inflammatory rheumatologic disease
History of Hepatitis A
History of Hepatitis B
History of Hepatitis C
HIV
Peripheral myopathy
Protein losing enteropathy
Protein losing enteropathy detail
Carotid artery disease
History of neurological event
Cancer other than local skin cancer
Any active treatment at time of implant for cancer other than local cancer
Smoking history
History of previous alcohol abuse
Drug abuse
History of cardiac surgery
History of transcatheter valve interventions
History of congenital cardiac surgery
Date of VAD procedure
Device Type
Time in OR for implant
Anticipated need for RVAD
The association of the right heart failure

event should be classified as
CPB time
Circulatory support during implantation
Concomitant surgery during VAD procedure
Congenital
Valve surgery
Other procedures
Device brand (LVAD)
LVAD device tracking number
LVAD console tracking number
Surgical incision site LVAD
LVAD: cannulae location- inflow
LVAD: cannulae location - outflow
What is the volume of the artificial ventricle?
Device brand (RVAD)
RVAD device tracking number
RVAD console tracking number
Surgical incision site RVAD
RVAD: cannulae location - inflow
RVAD: cannulae location - outflow
RVAD power
What is the volume of the artificial ventricle?
RVAD select control mode
TAH manufacturer
Surgical incision site TAH
TAH device tracking number
TAH console tracking number
Acute care ICU/CCU stay
Date of approximate discontinuation of inotropes
Ventilation
Intervention since implant during

Upload file | Baseline

fields included:

admission
Date of explant temporary RVAD
Details cardiac surgical procedure
Details of other procedure
Date of other procedure
Patient discharged to
Discharge date
Date of transplant
Can you please confirm the patients death
Date of explant for recovery
Date of Blood Results at Discharge
Sodium
Sodium
Sodium status
Potassium
Potassium
Potasium status
Blood Urea Nitrogen (BUN)
BUNStatus
Creatinine
Creatinine
CreatinineSTPostOp
SGPT/ALT
SGPT/ALT
SGPT/ALTStatusPostOp
SGOT/AST
SGOT/AST
SGOT/ASTStatusPostOp
LDH
LDHStatusPostOp
Total Bilirubin
Total Bilirubin
Total Bilirubin Status Post Op
Bilirubin direct
Bilirubin direct

Bilirubin direct Status Post Op
Albumin
Albumin
AlbuminStatusPostOp
NT pro brain natriuretic peptide Pro BNP
NT pro brain natriuretic peptide pro BNP status
CRP C Reactive Protein
CRPPostOpStatus
White blood cell count (WBC)
WBC Count Status PostOp
Haemoglobin
Haemoglobin Status PostOp
Platelet count
PlateletCountStatusPostOp
pH
Ph Status PostOp
Lactate
LactatePostOpStatus
Bicarbonate
BicarbonatePostOpStatus
Plasma free Haemoglobin
Plasma free HaemoglobinPostOpStatus
Positive Antiheparin/platelet Antibody (HIT)
INR
INRStatusPostOp
PTT
PTT status PostOp
Protein C
Protein C PostOpStatus

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**			**Integer:** use **2.04** for this version of the specification
SubmitGroup Code				
SUBMITCODE	**Mandatory**			**String:** a code used to identify the source of the data.
Patient identifier				
DEMOGID	**Mandatory**			**String:** can contain any value.
Import link ID				
IMPORTLINKID	**Mandatory**			**Integer:** enter a whole number.
Patient Gender				
Gender	Mandatory			Integer: enter a whole number.
Hospital				
HOSPITAL	Optional			**SingleChoice:** the code only see table: **OSITE**
Institution				
INSTITUTION	Optional			**SingleChoice:** the code only see table: **INS**
Country				
COUNTRY	Optional			**SingleChoice:** the code only see table: **OCTRY**
Blood type				
BLOODTYPE	Optional			**SingleChoice:** the code only. **1** - O **2** - A **3** - B **4** - AB

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

Rhesus factor

RHESUSFACTOR	Optional			**SingleChoice:** the code only.
				1 - Positive
				2 - Negative

Age in years

AGEINYEARS	Optional	0	99	**Integer:** enter a whole number.

Age in months

AGEINMONTHS	Optional	0	11	**Integer:** enter a whole number.

Age in weeks

AGEINWEEKS	Optional			**Integer:** enter a whole number.

Sex at birth

GENDER	Optional			**SingleChoice:** the code only.
				2 - 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**

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				
Header field name	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.
Congestive Heart Failure assessment				
CONGESTIVEHEARTFAILUREASSESSME	Optional			**SingleChoice:** the code only. **0** - No **1** - Yes

Field title				
Header field name	Importance	Min value	Max value	Values allowed
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.
Left ventricle - shortening fraction				
LVSF	Optional	0	100	**Integer:** enter a whole number.
Left ventricle - shortening fraction status				
LVSFSTATUS	Optional			**SingleChoice:** the code only.
				0 - Not measured
				1 - Measured
Mitral regurgitation				
MITRALREGURGITATION	Optional			**SingleChoice:** the code only.
				0 - None
				1 - Trivial
				2 - Mild
				3 - Moderate
				4 - Severe
				9 - Not done
Peak gradient mitral valve				
PEAKGRADIENTMITRALVALVE	Optional			**Floating point:** enter a numeric value.
Mitral valve area				
MITRALVALVEAREA	Optional			**Floating point:** enter a numeric value.

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

Tricuspid regurgitation

TRICUSPIDREGURGITATION	Optional			**SingleChoice:** the code only.

     0 - None
     1 - Trivial
     2 - Mild
     3 - Moderate
     4 - Severe
     9 - Not done

Aortic regurgitation

AORTICREGURGITATION	Optional			**SingleChoice:** the code only.

     0 - None
     1 - Trivial
     2 - Mild
     3 - Moderate
     4 - Severe
     9 - Not done

Peak velocity forward flow aortic valve

PEAKVELOCITYFORWARDFLOWAORTICVALVE	Optional			**Floating point:** enter a numeric value.

Aortic valve area (AVA)

AORTICVALVEAREAAVA	Optional			**Floating point:** enter a numeric value.

Pulmonary regurgitation

PULMONARYREGURGITATION	Optional			**SingleChoice:** the code only.

     0 - None
     1 - Trivial
     2 - Mild
     3 - Moderate
     4 - Severe
     9 - Not done

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Left ventricle ejection fraction (categorical)				
EFGRADE	Optional			**SingleChoice:** the code only. **0** - >50% **1** - 41-50% **2** - 31-40% **3** - 21-30% **4** - <21% **9** - Not done
Left ventricle ejection fraction (continious)				
LVEFPERCENT	Optional	0	100	**Integer:** enter a whole number.
Left ventricle end-diastolic diameter (LVEDD)				
LVEDD2	Optional	0		**Floating point:** enter a numeric value.
Left ventricle end-diastolic diameter (LVEDD) status				
LVEDDSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
Left ventricule end-systolic diameter				
LVESD	Optional	0		**Floating point:** enter a numeric value.
Left ventricule end-systolic diameter status				
LVESDSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
Left ventricle end-diastolic volume				
LVEDV	Optional			**Floating point:** enter a numeric value.
Left ventricle end-diastolic volume status				
LVEDVSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured

Field title				
Header field name	**Importance**	**Min value**	**Max value**	**Values allowed**
Left ventricle end-systolic volume				
LVESV	Optional			**Floating point:** enter a numeric value.
Left ventricle end-systolic volume status				
LVESVSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
RV function				
RVEF	Optional			**SingleChoice:** the code only. **1** - Normal **2** - Mild **3** - Moderate **4** - Severe **9** - Not done
RV - EF				
RVEFPERCENT	Optional	0	100	**Integer:** enter a whole number.
RV - EF status				
RVEFSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
TAPSE				
TAPSE	Optional	0		**Integer:** enter a whole number.
TAPSE Status				
TAPSESTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
Heart rate				
HEARTRATE	Optional	10	300	**Integer:** enter a whole number.

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

Heart Rate Status

HEARTRATESTATUS	Optional			**SingleChoice:** the code only.

    0 - Not measured
    1 - Measured

Systolic BP

SYSTOLICBP	Optional	20	300	**Integer:** enter a whole number.

Systolic BP status

SYSTOLICBPSTATUS	Optional			**SingleChoice:** the code only.

    0 - Not measured
    1 - Measured

Diastolic BP

DIASTOLICBP	Optional	10	180	**Integer:** enter a whole number.

Diastolic BP Status

DIASTOLICBPSTATUS	Optional			**SingleChoice:** the code only.

    0 - Not measured
    1 - Measured

Volume Status (peripheral edema)

VOLUMESTATUSPERIPHERALEDEMA	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

Field title				
Header field name	Importance	Min value	Max value	Values allowed
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
Height				
HEIGHT	Optional	30	300	**Integer:** enter a whole number.
Weight				
WEIGHT	Optional	1	300	**Floating point:** enter a numeric value.
Pulmonary artery systolic pressure				
PULMONARYARTERYSYSTOLICPRESSURE	Optional			**Integer:** enter a whole number.
PA Systolic status				
PASYSTOLICSTATUS	Optional			**SingleChoice:** the code only.
				0 - Not measured
				1 - Measured
Pulmonary artery diastolic pressure				
PULMONARYARTERYDIASTOLICPRESSURE	Optional			**Integer:** enter a whole number.
PA Diastolic status				
PADIASTOLICSTATUS	Optional			**SingleChoice:** the code only.
				0 - Not measured
				1 - Measured
Mean pulmonary artery pressure				
PULMONARYARTERYPRESSUREMEAN	Optional			**Integer:** enter a whole number.

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

Mean PA pressure status

| MEANPAPRESSURESTATUS | Optional | | | **SingleChoice:** the code only.
0 - Not measured
1 - Measured |

Pulmonary artery wedge pressure

| PULMONARYARTERYWEDGEPRESSURE | Optional | | | **Integer:** enter a whole number. |

PAWP status

| PAWPSTATUS | Optional | | | **SingleChoice:** the code only.
0 - Not measured
1 - Measured |

RA pressure

| RAPRESSURE | Optional | | | **Integer:** enter a whole number. |

RA Pressure status

| RAPRESSURESTATUS | Optional | | | **SingleChoice:** the code only.
0 - Not measured
1 - Measured |

SVR

| SVR | Optional | | | **Integer:** enter a whole number. |

SVR status

| SVRSTATUS | Optional | | | **SingleChoice:** the code only.
0 - Not measured
1 - Measured |

PVR

| PVR | Optional | | | **Integer:** enter a whole number. |

PVR status

| PVRSTATUS | Optional | | | **SingleChoice:** the code only.
0 - Not measured
1 - Measured |

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

Cardiac Output

| CARDIACOUTPUT | Optional | | | **Floating point:** enter a numeric value. |

Cardiac Output status

| CARDIACOUTPUTSTATUS | Optional | | | **SingleChoice:** the code only. |

    0 - Not measured
    1 - Measured

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

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

Sildenafil

SILDENAFILONADMISSION	Optional			**SingleChoice:** the code only.
				0 - No
				1 - Known previous use
				2 - Currently using
				99 - Unknown

Iloprost

ILOPROSTONADMISSION	Optional			**SingleChoice:** the code only.
				0 - No
				1 - Known previous use
				2 - Currently using
				99 - Unknown

Bosentan

BOSENTANONADMISSION	Optional			**SingleChoice:** the code only.
				0 - No
				1 - Known previous use
				2 - Currently using
				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

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

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

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

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

Other anticoagulant drugs

ANTICOAGULANTDRUGS	Optional			**MultiChoice:** the code(s) only.
				0 - No
				1 - Heparin
				2 - Enoxaparin
				3 - Argatroban
				4 - Bivalirudin
				5 - Fondiparinux
				6 - Hirudin
				7 - Lepirudin
				8 - Ximelagatran
				19 - Other

Cumarin

CUMARIN	Optional			**MultiChoice:** the code(s) only.
				0 - No
				1 - Phenprocoumon
				2 - Warfarin
				3 - Accenocoumarol

DOAC

DOAC	Optional			**MultiChoice:** the code(s) only.
				0 - No
				1 - Apixaban
				2 - Dabigatran
				3 - Edoxaban
				4 - Rivaroxaban

ARNI / ARB

ARNIARB	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**
SGLT2 inhibitor				
SGLT2INHIBITOR	Optional			**SingleChoice:** the code only. **0** - No **1** - Known previous use **2** - Currently using **99** - Unknown
MRA				
MRA	Optional			**SingleChoice:** the code only. **0** - No **1** - Known previous use **2** - Currently using **99** - Unknown
Sodium				
SODIUMPREOPMASS	Optional	0		**Floating point:** enter a numeric value.
Sodium				
SODIUMPREOPMMOL	Optional	0		**Floating point:** enter a numeric value.
Sodium status				
SODIUMPREOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
Potassium				
POTASSIUMPREOPMASS	Optional	0		**Floating point:** enter a numeric value.
Potassium				
POTASSIUMPREOPMMOL	Optional	0		**Floating point:** enter a numeric value.
Potassium status				
POTASSIUMPREOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Blood Urea Nitrogen				
BLOODUREANITROGENPREOP	Optional	0		**Floating point:** enter a numeric value.
Blood urea nitrogen status				
BLOODUREANITROGENPREOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
Creatinine				
CREATININEPREOPMASS	Optional			**Floating point:** enter a numeric value.
Creatinine				
CREATININEPREOPUMOL	Optional			**Integer:** enter a whole number.
Creatinine status				
CREATININEPREOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
SGPT/ALT				
SGPTALTPREOPUL	Optional			**Integer:** enter a whole number.
SGPT/ALT				
SGPTALTPREOPUKAT	Optional			**Floating point:** enter a numeric value.
SGPT/ALT status				
SGPTALTPREOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
SGOT/AST				
SGOTASTPREOPUL	Optional			**Floating point:** enter a numeric value.
SGOT/AST				
SGOTASTPREOPUKAT	Optional			**Floating point:** enter a numeric value.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
SGOT/AST status				
SGOTASTPREOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
LDH				
LDHPREOP	Optional	0		**Floating point:** enter a numeric value.
LDH status				
LDHPREOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
Total Bilirubin				
TOTALBILIRUBINPREOPMASS	Optional			**Floating point:** enter a numeric value.
Total Bilirubin				
TOTALBILIRUBINPREOPUMOL	Optional			**Floating point:** enter a numeric value.
Total bilirubin status				
TOTALBILIRUBINPREOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
Bilirubin direct				
BILIRUBINDIRECTPREOPMASS	Optional	0		**Floating point:** enter a numeric value.
Bilirubin direct				
BILIRUBINDIRECTPREOPUMOL	Optional	0		**Floating point:** enter a numeric value.
Bilirubin direct status				
BILIRUBINDIRECTPREOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
Albumin				
ALBUMINPREOPMASS	Optional			**Floating point:** enter a numeric value.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Albumin				
ALBUMINPREOPUMOL	Optional			**Floating point:** enter a numeric value.
Albumin status				
ALBUMINPREOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
NT pro brain natriuretic peptide Pro BNP				
NTPROBNPPREOP	Optional	0	100000	**Integer:** enter a whole number.
NT pro brain natriuretic peptide pro BNP status				
NTPROBNPSTATUSPREOP	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
CRP C Reactive Protein				
CRPCREACTIVEPROTEIN	Optional			**Floating point:** enter a numeric value.
CRPStatusPreOp				
CRPSTATUSPREOP	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
White blood cell count				
WBCPREOP	Optional			**Floating point:** enter a numeric value.
White blood cell count status				
WHITEBLOODCELLCOUNTPREOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
Haemoglobin				
HEMOGLOBINPREOP	Optional			**Floating point:** enter a numeric value.

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

Haemoglobin status

HAEMOGLOBINPREOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured

Platelet

PLATELETPREOP	Optional			**Integer:** enter a whole number.

Platelet status

PLATELETPREOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured

pH

PHPREOP	Optional			**Floating point:** enter a numeric value.

pH status

PHPREOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured

Lactate

LACTATEPREOP	Optional			**Floating point:** enter a numeric value.

Lactate status

LACTATEPREOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured

Bicarbonate (HCO3)

BICARBONATPREOPHCO3	Optional			**Floating point:** enter a numeric value.

Bicarbonate (HCO3) status

BICARBONATEPREOPHCO3STATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Plasma free Haemoglobin				
PLASMAFREEHAEMOGLOBINPREOP	Optional	0		**Floating point:** enter a numeric value.
Plasma free haemoglobin status				
PLASMAFREEHAEMOGLOBINPREOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
Positive antiheparin/platelet antibody (HIT)				
POSITIVEANTIHEPARINPLATELETANTIBODYHITPREOP	Optional			**SingleChoice:** the code only. **0** - No **1** - Yes **99** - Unknown
INR				
INRPREOP	Optional			**Floating point:** enter a numeric value.
INR status				
INRPREOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
PTT				
PTTPREOP	Optional			**Floating point:** enter a numeric value.
PTT status				
PTTPREOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
Protein C				
PROTEINCPREOP	Optional			**Integer:** enter a whole number.

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

ProteinCStatusPreOp

PROTEINCPREOPSTATUS	Optional			**SingleChoice:** the code only.
				0 - Not measured
				1 - Measured

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**

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

Recurrent ventricular tachycardias

RECURRENTVENTRICULARTACHYCARDIASMODIFIERA	Optional			**SingleChoice:** the code only.
				0 - No
				1 - Yes
				9 - Unknown

Frequent Flyer

MODIFIERFF	Optional			**SingleChoice:** the code only.
				0 - No
				1 - Yes
				9 - Unknown

Six minute walk

SIXMINUTEWALK	Optional			**SingleChoice:** the code only.
				1 - Not done - too sick
				2 - Not done - other reason
				3 - Completed

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.

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

Self care

SELFCARE	Optional			SingleChoice: the code only.
				1 - I hove 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

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

Your own health state today

YOUROWNHEALTHSTATETODAY	Optional	0	100	Integer: enter a whole number.

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

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

AREYOUSMOKING	Optional			**SingleChoice:** the code only.
				0 - No - never
				1 - No - previous
				3 - Yes - current
				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

Which of the following best describes your main activity

WHICHOFTHEFOLLOWINGBESTDESCRIBESYOURMAINACTIVITY	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

Additional indication for VAD

ADDITIONALINDICATIONFORVAD	Optional			**MultiChoice:** the code(s) only.
				0 - None
				1 - Failure to wean from CBP
				2 - Post cardiac surgery

Enter cardiac operation

ENTERCARDIACOPERATION	Optional			**ShortString:** maximum of 1,024 characters.

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			**MultiChoice:** the code(s) only.
				0 - None
				7 - Large BMI
				15 - Peripheral vascular disease
				1 - Advanced age
				23 - Limited cognition / understanding
				13 - Pulmonary disease
				26 - Alcohol abuse
				24 - Limited social support
				18 - Pulmonary hypertension
				20 - Allosensitisation
				11 - Major stroke
				19 - Recent pulmonary embolus
				4 - Contraindication to immunotherapy
				6 - Malnutrition / cachexia
				12 - Renal dysfunction
				22 - Current infection
				32 - Mediastinal radiation
				30 - Repeated non-compliance
				2 - Fixed pulmonary hypertension
				31 - Multiple sternotomies
				17 - Risk of recurrent infection
				5 - Frailty
				8 - Musculoskeletal limitations
				28 - Severe depression
				21 - Heparin induced thrombocytopenia
				49 - Other
				14 - Severe diabetes
				10 - History of lymphoma/leukemia
				16 - Other co-morbidity
				27 - Still smoking
				9 - History of solid organ cancer
				29 - Other major psychiatric diagnosis
				33 - Thoracic aortic disease

Field title				
Header field name	**Importance**	**Min value**	**Max value**	**Values allowed**
				25 - Illicit drug use
				3 - Patient refuses transplant

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
				11 - Dilated myopathy: Post partum
				12 - Dilated myopathy: Viral
				10 - Dilated myopathy: Other
				13 - Hypertrophic cardiomyopathy
				14 - Restrictive myopathy: Amyloidosis
				15 - Restrictive myopathy: Endocardial fibrosis
				16 - Restrictive myopathy: Idiopathic
				18 - Restrictive myopathy: Sarcoidosis
				19 - Restrictive myopathy: Secondary to radiation/ chemo
				17 - Restrictive myopathy: Other
				20 - Valvular heart disease

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

Congenital heart disease

CONGENITALHEARTDISEASE	Optional			**MultiChoice:** the code(s) only.

      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
      14 - ALCAPA
      98 - Other
      99 - Unknown

Congenital heart disease comments

CONGENITALHEARTDISEASECOMMENTS	Optional			**ShortString:** maximum of 1,024 characters.

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

Secondary diagnosis

SECONDARYDIAGNOSIS	Optional			**MultiChoice:** the code(s) only.
				0 - None
				10 - Dilated myopathy: Viral
				1 - Cancer
				8 - Dilated myopathy: Other
				2 - Congenital heart disease
				12 - Hypertrophic cardiomyopathy
				3 - Coronary artery disease
				13 - Restrictive myopathy: Amyloidosis
				4 - Dilated myopathy: Familial
				14 - Restrictive myopathy: Endocardial fibrosis
				5 - Dilated myopathy: Idiopathic
				15 - Restrictive myopathy: Idiopathic
				6 - Dilated myopathy: Ischemic
				17 - Restrictive myopathy: Sarcoidosis
				7 - Dilated myopathy: Myocarditis
				18 - Restrictive myopathy: Secondary to radiation/ chemo
				9 - Dilated myopathy: Post partum
				16 - Restrictive myopathy: Other
				11 - Dilated myopathy: Toxic
				19 - Valvular heart disease

Responsible toxin

RESPONSIBLETOXIN	Optional			**SingleChoice:** the code only.
				1 - Alcohol
				2 - Adriamycin
				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
				3 - Eosinophilic myocarditis
				2 - Giant cell myocarditis
				5 - Hemochromatosis
				6 - Mitochondrial myopathy
				4 - Other myocarditis
				1 - Sarcoidosis
				99 - Other

Major infection

MAJORINFECTIONS	Optional			**SingleChoice:** the code only.
				0 - No
				1 - Yes

Location of infection

LOCATIONOFINFECTION	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

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

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

Intubation

INTUBATION	Optional			**SingleChoice:** the code only. **0** - No **1** - Yes

Major Myocardial Infarction

MAJORMI	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

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

Ultrafiltration

| ULTRAFILTRATION | Optional | | | **SingleChoice:** the code only.
0 - No
1 - Yes |

Ventilator

| VENTILATOR | Optional | | | **SingleChoice:** the code only.
0 - No
1 - Yes |

Feeding tube

| FEEDINGTUBE | Optional | | | **SingleChoice:** the code only.
0 - No
1 - Yes |

Short term device IABP

| SHORTTERMDEVICEIABP | Optional | | | **SingleChoice:** the code only.
0 - No
1 - Yes |

IABP Implant date

| IABPIMPLANTDATE | Optional | | | **Date:** ODBC date as yyyy-mm-dd. |

IABP Explant date

| IABPEXPLANTDATE | Optional | | | **Date:** ODBC date as yyyy-mm-dd. |

Short term device Impella CP

| SHORTTERMDEVICEIMPELLACP | Optional | | | **SingleChoice:** the code only.
0 - No
1 - Yes |

Impella CP Implant date

| IMPELLACPIMPLANTDATE | Optional | | | **Date:** ODBC date as yyyy-mm-dd. |

Impella CP Explant date

| IMPELLACPEXPLANTDATE | Optional | | | **Date:** ODBC date as yyyy-mm-dd. |

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Short term device Impella 5.0				
SHORTTERMDEVICEIMPELLA50	Optional			**SingleChoice:** the code only. **0** - No **1** - Yes
Impella 5.0 Implant date				
IMPELLA50IMPLANTDATE	Optional			**Date:** ODBC date as yyyy-mm-dd.
Impella 5.0 Explant date				
IMPELLA50EXPLANTDATE	Optional			**Date:** ODBC date as yyyy-mm-dd.
Short term device Impella 5.5				
SHORTTERMDEVICEIMPELLA55	Optional			**SingleChoice:** the code only. **0** - No **1** - Yes
Impella 5.5 Implant date				
IMPELLA55IMPLANTDATE	Optional			**Date:** ODBC date as yyyy-mm-dd.
Impella 5.5 Explant date				
IMPELLA55EXPLANTDATE	Optional			**Date:** ODBC date as yyyy-mm-dd.
Short term device Impella RP				
SHORTTERMDEVICEIMPELLARP	Optional			**SingleChoice:** the code only. **0** - No **1** - Yes
Impella RP Implant date				
IMPELLARPIMPLANTDATE	Optional			**Date:** ODBC date as yyyy-mm-dd.
Impella RP Explant date				
IMPELLARPEXPLANTDATE	Optional			**Date:** ODBC date as yyyy-mm-dd.
Short term device Tandemheart				
SHORTTERMDEVICETANDEMHEART	Optional			**SingleChoice:** the code only. **0** - No **1** - Yes

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Tandemheart Implant date				
TANDEMHEARTIMPLANTDATE	Optional			**Date:** ODBC date as yyyy-mm-dd.
Tandemheart Explant date				
TANDEMHEARTEXPLANTDATE	Optional			**Date:** ODBC date as yyyy-mm-dd.
Short term device ECLS VA				
SHORTTERMDEVICEECLSVA	Optional			**SingleChoice:** the code only. **0** - No **1** - Yes
ECLS VA Implant date				
ECLSVAIMPLANTDATE	Optional			**Date:** ODBC date as yyyy-mm-dd.
ECLS VA Explant date				
ECLSVAEXPLANTDATE	Optional			**Date:** ODBC date as yyyy-mm-dd.
Short term device ECLS VV				
SHORTTERMDEVICEECLSVV	Optional			**SingleChoice:** the code only. **0** - No **1** - Yes
ECLS VV Implant date				
ECLSVVIMPLANTDATE	Optional			**Date:** ODBC date as yyyy-mm-dd.
ECLS VV Explant date				
ECLSVVEXPLANTDATE	Optional			**Date:** ODBC date as yyyy-mm-dd.
Short term device ECLS VAV				
SHORTTERMDEVICEECLSVAV	Optional			**SingleChoice:** the code only. **0** - No **1** - Yes
ECLS VAV Implant date				
ECLSVAVIMPLANTDATE	Optional			**Date:** ODBC date as yyyy-mm-dd.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
ECLS VAV Explant date				
ECLSVAVEXPLANTDATE	Optional			**Date:** ODBC date as yyyy-mm-dd.
Short term device ECLS VVA				
SHORTTERMDEVICEECLSVVA	Optional			**SingleChoice:** the code only. **0** - No **1** - Yes
ECLS VVA Implant date				
ECLSVVAIMPLANTDATE	Optional			**Date:** ODBC date as yyyy-mm-dd.
ECLS VVA Explant date				
ECLSVVAEXPLANTDATE	Optional			**Date:** ODBC date as yyyy-mm-dd.
ECLS cannulation unknown				
ECLSUNSPECIFIEDCANNULATION	Optional			**SingleChoice:** the code only. **0** - No **1** - Yes
ECLS implant date				
ECLSUNSPECIFIEDCANNULATIONIMPLANTDATE	Optional			**Date:** ODBC date as yyyy-mm-dd.
ECLS explant date				
ECLSUNSPECIFIEDCANNULATIONEXPLANTDATE	Optional			**Date:** ODBC date as yyyy-mm-dd.
Short term device Other				
SHORTTERMDEVICEOTHER	Optional			**SingleChoice:** the code only. **0** - No **1** - Yes
Short term device Other description				
SHORTTERMDEVICEOTHERDESCRIPTION	Optional			**ShortString:** maximum of 1,024 characters.
Short term device Other Implant date				
SHORTTERMDEVICEOTHERIMPLANTDATE	Optional			**Date:** ODBC date as yyyy-mm-dd.

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

Short term device Other Explant date

SHORTTERMDEVICEOTHEREXPLANTDATE	Optional			**Date:** ODBC date as yyyy-mm-dd.

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

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

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

History of Hepatitis A

| HISTORYOFHEPATITISA | Optional | | | **SingleChoice:** the code only.
0 - No
1 - Yes
9 - Unknown |

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 |

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

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

Carotid artery disease

CAROTIDARTERYDISEASE	Optional			**SingleChoice:** the code only.
				0 - No
				1 - Yes
				9 - Unknown

History of neurological event

HISTORYOFNEUROLOGICALEVENT	Optional			**MultiChoice:** the code(s) 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
				99 - Unknown

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

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

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

History of previous alcohol abuse

HISTORYOFPREVIOUSALCOHOLABUSE	Optional			**SingleChoice:** the code only.
				0 - No
				1 - Yes
				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

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

History of cardiac surgery

HISTORYOFCARDIACSURGERY	Optional			**MultiChoice:** the code(s) only.
				0 - None
				1 - CABG
				2 - Aortic valve replacement - biological
				3 - Aortic valve replacement - mechanical
				4 - Aortic valve repair
				5 - Mitral valve replacement - biological
				6 - Mitral valve replacement - mechanical
				7 - Mitral valve repair
				8 - Tricuspid valve replacement - biological
				9 - Tricuspid valve replacement - mechanical
				10 - Tricuspid valve repair
				11 - Yes, details unknown
				99 - Other

History of transcatheter valve interventions

HISTORYOFTRANSCATHETHERVALVEINTERVENTIONS	Optional			**MultiChoice:** the code(s) only.
				1 - Trancatheter aortic valve replacment (TAVR)
				2 - Mitraclip (mitral valve)
				0 - None

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

History of congenital cardiac surgery

HISTORYOFCONGENITALCARDIACSURGERY	Optional			**MultiChoice:** the code(s) only.

  0 - None
  1 - AP shunt
  2 - Glenn: Classical
  3 - Complete AV Septal Defect repair
  4 - Norwood Stage
  5 - Cong. Corrected Transposition repair
  6 - PA banding
  7 - Damus Kay Stansel (DKS)
  8 - TOF/DORV/RVOTO repair
  9 - Ebstein's Anomaly repair
  10 - Transposition of the Great Vessels repair
  11 - Fontan
  12 - Truncus Arteriosus repair
  13 - Glenn: Bi-directional
  14 - Valve replacement/repair/outflow obstruction

Date of VAD procedure

DATEOFSURGERY	**Mandatory**			**Date:** ODBC date as yyyy-mm-dd.

Device Type

DEVICETYPE	Optional			**SingleChoice:** the code only.

  1 - LVAD
  2 - RVAD
  3 - Both (LVAD + RVAD)
  4 - Total artificial heart

Time in OR for implant

TIMEINORFORIMPLANT	Optional			**Integer:** enter a whole number.

Anticipated need for RVAD

ANTICIPATEDNEEDFORRVAD	Optional			**SingleChoice:** the code only.

  1 - Planned (decision for insertion made prior to surgical incision)
  2 - Unplanned (unanticipated complication)
  99 - Unknown

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

The association of the right heart failure event should be classified as

THEASSOCIATIONOFTHERIGHTHEARTFAILUREEVENTSHOULDBEC	Optional			**SingleChoice:** the code only.
				1 - Patient related
				2 - Managment related
				3 - Device related
				4 - No association identified

CPB time

CPBTIME	Optional			**Integer:** enter a whole number.

Circulatory support during implantation

CIRCULATORYSUPPORTDURINGIMPLANTATION	Optional			**SingleChoice:** the code only.
				1 - Off-pump +/- IABP
				2 - Off-pump + Impella
				3 - Peripheral ECLS
				4 - Central ECLS
				5 - CPB
				6 - Others

Concomitant surgery during VAD procedure

CONCOMITANTSURGERYDURINGVADPROCEDURE	Optional			**MultiChoice:** the code(s) only.
				0 - None
				1 - Congenital procedure
				2 - Valve procedure
				3 - Other cardiac procedure

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

Congenital

CONGENITAL	Optional			**MultiChoice:** the code(s) only.
				7 - AP shunt
				14 - Glenn: Classical
				8 - Complete AV Septal Defect repair
				1 - Norwood Stage
				9 - Cong. Corrected Transposition repair
				2 - PA banding
				10 - Damus Kay Stansel (DKS)
				3 - TOF/DORV/RVOTO repair
				11 - Ebstein's Anomaly repair
				4 - Transposition of the Great Vessels repair
				12 - Fontan
				5 - Truncus Arteriosus repair
				13 - Glenn: Bi-directional
				6 - Valve replacement/repair/outflow obstruction

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
				7 - Mitral replacement - mechanical
				9 - Tricuspid replacement - mechanical
				11 - Pulmonary replacement - mechanical
				6 - Aortic replacement - biological
				8 - Mitral replacement - biological
				10 - Tricuspid replacement - biological
				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
				4 - CABG: LAD
				7 - Ablation
				3 - PFO closure
				5 - CABG: RCX
				2 - VSD closure
				6 - CABG: RCA
				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 - HeartMate3
				15 - HeartWare MVAD
				16 - CorHeart6
				99 - Other

LVAD device tracking number

LVADDEVICETRACKINGNUMBER	Optional			**ShortString:** maximum of 1,024 characters.

LVAD console tracking number

LVADCONSOLETRACKINGNUMBER	Optional			**ShortString:** maximum of 1,024 characters.

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

Surgical incision site LVAD

SURGICALINCISIONSITELVAD	Optional			**SingleChoice:** the code only.
				1 - Full sternotomy
				2 - Left thoracotomy
				3 - Partial sternotomy + left thoracotomy
				4 - Bilateral thoracotomies
				5 - Subcostal
				6 - Others

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.

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

Device brand (RVAD)

DEVICEBRANDRVAD	Optional			**SingleChoice:** the code only.
				  1 - Levitronix CentriMag (temporary)
				  2 - Thoratec pVAD (durable)
				  3 - HeartWare HVAD (durable)
				  4 - Berlin Heart Excor (durable)
				  5 - Maquet CardioHelp (durable)
				  14 - HeartMate3 (durable)
				  6 - Impella CP (temporary)
				  7 - Impella 5.0 (temporary)
				  8 - Impella 5.5 (temporary)
				  9 - Impella RP (temporary)
				  10 - Tandemheart (temporary)
				  99 - Other (durable)

RVAD device tracking number

RVADDEVICETRACKINGNUMBER	Optional			**ShortString:** maximum of 1,024 characters.

RVAD console tracking number

RVADCONSOLETRACKINGNUMBER	Optional			**ShortString:** maximum of 1,024 characters.

Surgical incision site RVAD

SURGICALINCISIONSITERVAD	Optional			**SingleChoice:** the code only.
				  1 - Full Sternotomy
				  2 - Right thoracotomy only
				  3 - Percutaneous
				  4 - Left subcostal
				  5 - Right subcostal
				  6 - Left Thoracotomy only
				  7 - Bilateral Thoracotomy
				  8 - Axillary (cut down)
				  9 - Left Thoracotomy plus Mini Sternotomy
				  10 - Left Thoracotomy to Right Mini Sternotomy

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

RVAD: cannulae location - inflow

RVADCANNULAELOCATIONINFLOW	Optional			**SingleChoice:** the code only.

    1 - RA
    2 - RV
  93 - Other
  94 - Unknown

RVAD: cannulae location - outflow

RVADCANNULAELOCATIONOUTFLOW	Optional			**SingleChoice:** the code only.

    1 - MPA (main pulmonary artery)
    2 - LPA (left pulmonary artery)
    3 - RPA (right pulmonary artery)
    4 - Aorta
    5 - Conduit
  99 - Unknown
    6 - Other

RVAD power

RVADPOWER	Optional			**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

TAH manufacturer

TAHMANUFACTURER	Optional			**SingleChoice:** the code only see table: **TAH**

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Surgical incision site TAH				
SURGICALINCISIONSITETAH	Optional			**SingleChoice:** the code only. **1** - Full Sternotomy **2** - Right thoracotomy only **3** - Percutaneous **4** - Left subcostal **5** - Right subcostal **6** - Left Thoracotomy only **7** - Bilateral Thoracotomy **8** - Axillary (cut down) **9** - Left Thoracotomy plus Mini Sternotomy **10** - Left Thoracotomy to Right Mini Sternotomy
TAH device tracking number				
TAHDEVICETRACKINGNUMBER	Optional			**ShortString:** maximum of 1,024 characters.
TAH console tracking number				
TAHCONSOLETRACKINGNUMBER	Optional			**ShortString:** maximum of 1,024 characters.
Acute care ICU/CCU stay				
ICUCCUSTAY	Optional		1000	**Integer:** enter a whole number.
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.

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

Intervention since implant during admission

| INTERVENTIONSINCEIMPLANTDURINGADMISSION | Optional | | | **MultiChoice:** the code(s) only. |

  0 - None
  6 - Device related surgical procedure
  2 - Invasive cardiac procedure (other than heart cath)
11 - Bronchoscopy
10 - Dialysis
  7 - Non cardiac surgical procedure
  5 - Cardiac surgical procedure
  8 - Explant of temporary RVAD
  9 - Reintubation due to respiratory failure
93 - Other procedure

Date of explant temporary RVAD

| DATEOFEXPLANTTEMPORARYRVAD | Optional | | | **Date:** ODBC date as yyyy-mm-dd. |

Details cardiac surgical procedure

| OTHERCARDIACSURGICALPROCEDURE | Optional | | | **MultiChoice:** the code(s) only. |

  1 - Reoperation for bleeding within 48 hrs of implant
  7 - Valve surgery: Pulmonary repair
  2 - Reoperation for bleeding and/or tamponade > 48 hrs
15 - Valve surgery: Pulmonary replacement - biological
  3 - Surgical drainage of pericardial effusion
14 - Valve surgery: Pulmonary replacement - mechanical
  4 - Valve surgery: Aortic repair
  6 - Valve surgery: Tricuspid repair
  9 - Valve surgery: Aortic replacement - biological
12 - Valve surgery: Tricuspid replacement - mechanical
  8 - Valve surgery: Aortic replacement - mechanical
13 - Valve surgery: Tricuspid replacement - biological
  5 - Valve surgery: Mitral repair
98 - Other
11 - Valve surgery: Mitral replacement - biological
99 - Unknown
10 - Valve surgery: Mitral replacement - mechanical

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

Details of other procedure

DETAILSOFOTHERPROCEDURE	**Mandatory ***			**ShortString:** maximum of 1,024 characters.

Date of other procedure

DATEOFOTHERPROCEDURE	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
				7 - Not applicable - transplant during admission
				8 - Not applicable - explant due to recovery during admission

Discharge date

DISCHARGEDATE	Optional			**Date:** ODBC date as yyyy-mm-dd.

Date of transplant

DATEOFTRANSPLANT	Optional			**Date:** ODBC date as yyyy-mm-dd.

Can you please confirm the patients death

CANYOUPLEASECONFIRMTHEPATIENTSDEATH	Optional			**SingleChoice:** the code only.
				0 - No
				1 - Yes

Date of explant for recovery

DATEOFEXPLANTFORRECOVERY	Optional			**Date:** ODBC date as yyyy-mm-dd.

Date of Blood Results at Discharge

DATEOFBLOODRESULTSATDISCHARGE	Optional			**Date:** ODBC date as yyyy-mm-dd.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Sodium				
SODIUMPOSTOPMASS	Optional			**Floating point:** enter a numeric value.
Sodium				
SODIUMPOSTOPMMOL	Optional			**Floating point:** enter a numeric value.
Sodium status				
SODIUMPOSTOPSTATUS	Optional			**SingleChoice:** the code only. 0 - Not measured 1 - Measured
Potassium				
POTASSIUMPOSTOPMASS	Optional			**Floating point:** enter a numeric value.
Potassium				
POTASSIUMPOSTOPMMOL	Optional			**Floating point:** enter a numeric value.
Potasium status				
POTASIUMPOSTOPSTATUS	Optional			**SingleChoice:** the code only. 0 - Not measured 1 - Measured
Blood Urea Nitrogen (BUN)				
BUNPOSTOP	Optional			**Floating point:** enter a numeric value.
BUNStatus				
BUNPOSTOPSTATUS	Optional			**SingleChoice:** the code only. 0 - Not measured 1 - Measured
Creatinine				
CREATININEPOSTOPMASS	Optional			**Floating point:** enter a numeric value.
Creatinine				
CREATININEPOSTOPUMOL	Optional			**Floating point:** enter a numeric value.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
CreatinineSTPostOp				
CREATININEPOSTOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
SGPT/ALT				
SGPTALTPOSTOPUL	Optional			**Integer:** enter a whole number.
SGPT/ALT				
SGPTALTPOSTOPUKAT	Optional			**Floating point:** enter a numeric value.
SGPT/ALTStatusPostOp				
SGPTALTPOSTOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
SGOT/AST				
SGOTASTPOSTOPUL	Optional			**Floating point:** enter a numeric value.
SGOT/AST				
SGOTASTPOSTOPUKAT	Optional			**Floating point:** enter a numeric value.
SGOT/ASTStatusPostOp				
SGOTASTPOSTOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
LDH				
LDHPOSTOP	Optional	0		**Floating point:** enter a numeric value.
LDHStatusPostOp				
LDHPOSTOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
Total Bilirubin				
TOTALBILIRUBINPOSTOPMASS	Optional			**Floating point:** enter a numeric value.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Total Bilirubin				
TOTALBILIRUBINPOSTOPUMOL	Optional			**Floating point:** enter a numeric value.
Total Bilirubin Status Post Op				
TOTALBILIRUBINPOSTOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Unknown
Bilirubin direct				
BILIRUBINDIRECTPOSTOPMASS	Optional	0		**Floating point:** enter a numeric value.
Bilirubin direct				
BILIRUBINDIRECTPOSTOPUMOL	Optional	0		**Floating point:** enter a numeric value.
Bilirubin direct Status Post Op				
BILIRUBINDIRECTPOSTOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
Albumin				
ALBUMINPOSTOPUMOL	Optional			**Integer:** enter a whole number.
Albumin				
ALBUMINPOSTOPMASS	Optional			**Floating point:** enter a numeric value.
AlbuminStatusPostOp				
ALBUMINPOSTOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
NT pro brain natriuretic peptide Pro BNP				
NTPROBNPPOSTOP	Optional	0	100000	**Integer:** enter a whole number.
NT pro brain natriuretic peptide pro BNP status				
NTPROBNPPOSTOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured

Field title				
Header field name	Importance	Min value	Max value	Values allowed
CRP C Reactive Protein				
CREACTIVEPROTEINPOSTOP	Optional			**Floating point:** enter a numeric value.
CRPPostOpStatus				
CREACTIVEPROTEINPOSTOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
White blood cell count (WBC)				
WHITEBLOODCELLCOUNTPOSTOP	Optional			**Floating point:** enter a numeric value.
WBC Count Status PostOp				
WBCCOUNTPOSTOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Unknown
Haemoglobin				
HAEMOGLOBINPOSTOP	Optional			**Floating point:** enter a numeric value.
Haemoglobin Status PostOp				
HAEMOGLOBINPOSTOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
Platelet count				
PLATELETCOUNTPOSTOP	Optional			**Integer:** enter a whole number.
PlateletCountStatusPostOp				
PLATELETCOUNTPOSTOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
pH				
PHPOSTOP	Optional			**Floating point:** enter a numeric value.

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

Ph Status PostOp

PHPOSTOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured

Lactate

LACTATEPOSTOP	Optional			**Floating point:** enter a numeric value.

LactatePostOpStatus

LACTATEPOSTOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured

Bicarbonate

BICARBONATEPOSTOP	Optional			**Floating point:** enter a numeric value.

BicarbonatePostOpStatus

BICARBONATEPOSTOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured

Plasma free Haemoglobin

PLASMAFREEHMGLBNPOSTOP	Optional	0		**Floating point:** enter a numeric value.

Plasma free HaemoglobinPostOpStatus

PLASMAFREEHMGLBNPOSTOPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured

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
INR				
INRPOSTOP	Optional			**Floating point:** enter a numeric value.
INRStatusPostOp				
INRPOSTOPSTATUS	Optional			**SingleChoice:** the code only. 0 - Not measured 1 - Measured
PTT				
PTTPOSTOP	Optional			**Floating point:** enter a numeric value.
PTT status PostOp				
PTTPOSTOPSTATUS	Optional			**SingleChoice:** the code only. 0 - Not measured 1 - Measured
Protein C				
PROTEINCPOSTOP	Optional			**Integer:** enter a whole number.
Protein C PostOpStatus				
PROTEINCPOSTOPSTATUS	Optional			**SingleChoice:** the code only. 0 - Not measured 1 - Measured

Upload file | Follow up

fields included:

Multichoice separator
Layout specification version
SubmitGroup Code
Patient identifier
Import link ID
Import Child ID
Date of follow up / event
Type of event / follow up
Location of the patient
Major adverse event
Adverse event / complication
Details of adverse event
Reason for unexpected re-admission
Discharge date
Type of device
Explant reason
Type of Device Malfunction
Criteria major device malfunction
If an intervention is required which criteria applies
Device thrombosis
Subtype device thrombosis
Type of bleeding
Type 2: select what applies
Type 3b: select what applies
Type 4: select what applies
Type 5 subclassification
Source/Cause/Location of the bleeding
MCS related infection
Type of infection
MCS Related Infections: Select all that apply
Percutaneous lead site infection: Select one
Non-MCS Related Infections: Select all that apply
Mediastinitis: Select subtype

Procedure-related mediastinitis: Select one
Intervention
Did the infection contribute to the patient's death
Type of neurological dysfunction
Type 1 subclassification
Type 2 subclassification
Type 3 subclassification
Length of symtopms
Type 1ah subclassification
Stroke recovery or disability
Method used to diagnose CNS event
Cardiac arrhythmia, select type
Signs of tamponade
Methods of drainage
Plasma free haemoglobin
Cause of haemolysis
SGPT/ALT
SGOT/AST
Total Bilirubin
Intubation
Intubation duration
Was tracheostomy performed
Dialysis
Dialysis duration (days)
Creatinine
Dialysis start date
Type of renal dysfunction
Location of arterial thrombo embolism
Diagnosis of arterial thrombo-embolism
Location of the venous thrombo-embolism
Type of follow up
Follow up data entry
LV - SF
LV-SF Status

Mitral regurgitation
Peak gradient mitral valve
Mitral valve area
Tricuspid regurgitation
Aortic regurgitation
Aortic valve area
Peak velocity forward flow aortic valve
Pulmonary regurgitation
LV - EF
LV - EF
LV - EDD
LV-EDD Status
RV function
LV - ESD
LV-ESD Status
LV - EDV
LV-EDV Status
LV - ESV
LV-ESV Status
RV - EF
RV-EF status
TAPSE
TAPSE Status
Heart Rate Status
Heart rate
Systolic BP Status
Systolic BP
Diastolic BP Status
Diastolic BP
Volume Status (peripheral edema)
Ascites
ECG rhythm (cardiac rhythm)
Height
Weight
Pulmonary artery systolic pressure

Upload file | Follow up

fields included:

PA systolic status	LDH	Six minute walk
Pulmonary artery diastolic pressure	LDH status	Six minute walk distance
PA diastolic status	Total Bilirubin	VO2 max
Mean pulmonary artery pressure	Total bilirubin status	R value at peak
Mean PA pressure status	Bilirubin direct	NYHA class
RA pressure	Bilirubin direct	Ross Classification of Congestive Heart Failure
PA pressure status	Bilirubin direct status	CHF - No growth failure details
Pulmonary artery wedge pressure	Albumin	CHF - Growth failure details
PAWP status	Albumin	Mobility
SVR	Albumin status	Self care
SVR status	NT pro brain natriuretic peptide Pro BNP	Usual Activities
PVR	NT pro brain natriuretic peptide pro BNP status	Pain/discomfort
PVR Status	CRP C reactive protein	Anxiety/depression
Cardiac Index	CRPStatus	Your own health state today
Cardiac Index status	White blood cell count	Have your family experienced serious illness?
Cardiac Output	White blood cell count status	Are you smoking
Cardiac output status	Haemoglobin	Which of the following best describes your main activity
Antiplatelet drugs	Haemoglobin status	Have you experienced serious illness
Cumarin	Platelet	Have you experienced serious illness in caring for others
Other anticoagulant drugs	Platelet status	Do you now or did you ever work in health or social services
DOAC	pH	Device type explanted
Sodium	pH status	New device after somatic outgrowth
Sodium	Lactate	Hospital treating patient
Sodium status	Lactate status	Care transferred to another Hospital
Potassium	Bicarbonate (HCO3)	Care permanently transferred to Intervention
Potassium	Bicarbonate (HCO3) status	Cardiac surgery
Potassium status	Positive antiheparin/platelet antibody (HIT)	Transcatheter intervention
Blood Urea Nitrogen	INR	Congenital surgery
Blood urea nitrogen status	INR status	Other procedure
Creatinine	PTT	
Creatinine status	PTT status	
SGPT/ALT	Protein C	
SGPT/ALT status	ProteinC FU Status	
SGOT/AST	Plasma free haemoglobin status	
SGOT/AST status		

Upload file | Follow up

fields included:

Was the device function normal
Was there an operation associated with the
device malfunction
Post mortem device explant
Did the device go to the manufacturer
Location of death
Timing of death
Autopsy
Primary cause of death
Cancer death 1
Secondary cause of death
Cancer death 2
Followup Data Complete
Reason decommission
Other reason decommission
Explant reason
Subtype of Right heart failure
Early post-implant RHF: Select category
If late RHF, select category

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** | | | **Integer:** use **2.04** for this version of the specification |

SubmitGroup Code

| SUBMITCODE | **Mandatory** | | | **String:** a code used to identify the source of the data. |

Patient identifier

| DEMOGID | **Mandatory** | | | **String:** can contain any value. |

Import link ID

| IMPORTLINKID | **Mandatory** | | | **Integer:** enter a whole number. |

Import Child ID

| IMPORTCHILDID | **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. |

　　1 - Follow up
　　7 - Explant / transplant
　　5 - Patient transferred to another hospital
　　6 - Patient died
　　9 - Lost to follow-up
　　3 - Major adverse event
　　8 - Intervention
　　2 - Event / complication
　　4 - Unexpected re-admission
　10 - Pump decommission
　11 - Pump recommission
　12 - Explant of temporary RVAD

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

Location of the patient

LOCATIONOFTHEPATIENTADEV	Optional			**SingleChoice:** the code only. **1** - In hospital **2** - Out of hospital

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

Details of adverse event

DETAILSOFADVERSEEVENT	Optional			**ShortString:** maximum of 1,024 characters.

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
   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
  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
  30 - Pericardial fluid collection
  32 - Respiratory failure
  33 - Arterial non CNS thromboembolism
  34 - Wound dehiscence
  35 - Venous thromboembolism

Discharge date

DISCHARGEDATEUNEXPECTEDREADMISSION	Optional			**Date:** ODBC date as yyyy-mm-dd.

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

Type of device

TYPEOFDEVICE	Optional			**SingleChoice:** the code only. **1** - LVAD **2** - RVAD **4** - TAH

Explant reason

EXPLANTREASON	Optional			**SingleChoice:** the code only. **1** - Transplant **3** - Device Malfunction - Elective **4** - Device Malfunction - Emergent **5** - Ventricle Recovery/Wean **9** - Other **6** - End of decommission **7** - Somatic outgrowth device

Type of Device Malfunction

TYPEDEVICEMAL	Optional			**SingleChoice:** the code only. **1** - Major Device Malfunction **2** - Minor device malfunction

Criteria major device malfunction

CRITERIAMAJORDEVICEMALFUNCTION	Optional			**MultiChoice:** the code(s) only. **1** - Death **2** - Hospitalization **3** - Life-threatening event **4** - Results in significant disability or incapacity **5** - Requires an intervention to prevent impairment/injury **99** - Unknown

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

If an intervention is required which criteria applies

IFANINTERVENTIONISREQUIREDWHICHCRITERIAAPPLIES	Optional			**MultiChoice:** the code(s) only.

    1 - Urgent transplantation listing (immediate urgent listing for the transplant)
    2 - Pump replacement
    3 - Pump explant
    4 - Pump deactivation without explant or partial explant of components
    5 - Breach of integrity of percutaneous lead requiring repair
    6 - Operation to repair or replace any internal component of the circulatory support system
    7 - Procedure to repair or stent an outflow graft
    99 - Unknown

Device thrombosis

DEVICETHROMBOSIS	Optional			**SingleChoice:** the code only.

    0 - No
    1 - Yes
    99 - Unknown

Subtype device thrombosis

SUBTYPEDEVICETHROMBOSIS	Optional			**SingleChoice:** the code only.

    1 - Suspected device thrombus
    2 - Confirmed device thrombus

Type of bleeding

TYPEOFBLEEDING	Optional			**SingleChoice:** the code only.

    1 - Type 1
    2 - Type 2
    3 - Type 3a
    4 - Type 3b
    5 - Type 4
    6 - Type 5
    7 - Type 3 NOS, (type A and B unspecified)
    99 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
Type 2: select what applies				
TYPE2SELECTWHATAPPLIES	Optional			**MultiChoice:** the code(s) only.
				1 - Requiring non-surgical, medical intervention by a healthcare professional
				2 - Leading to hospitalization or increased level of care
				3 - Prompting evaluation
				99 - Unknown
Type 3b: select what applies				
TYPE3BSELECTWHATAPPLIES	Optional			**MultiChoice:** the code(s) only.
				1 - Cardiac tamponade
				2 - Bleeding requiring surgical intervention for control (excluding dental/nasal/skin/hemorrhoid)
				3 - Bleeding requiring intravenous vasoactive agents
				99 - Unknown
Type 4: select what applies				
TYPE4SELECTWHATAPPLIES	Optional			**MultiChoice:** the code(s) only.
				1 - Reoperation after the closure of incision or incisions used to implant the VAD to control bleeding
				2 - >= 50 kg: >= 4U PRBC within any 48 hours during the first 7 days postimplant < 50 kg: >= 20 cm3/kg PRBC within any 24 hours during the first 7 days post-implant
				3 - Chest tube output > 2 liters within 24 hours
				99 - Unknown
Type 5 subclassification				
TYPE5SUBCLASSIFICATION	Optional			**SingleChoice:** the code only.
				1 - Type 5a: Probable fatal bleeding
				2 - Type 5b: Definite fatal bleeding
				99 - Unknown

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

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

MCS related infection

MCSRELATEDINFECTION	Optional			**MultiChoice:** the code(s) only.

    1 - MCS related infection
    2 - non-MCS related infection

Type of infection

TYPEOFINFECTION	Optional			**SingleChoice:** the code only.

    1 - Bacterial
    2 - Fungal
    3 - Viral
    4 - Protozoan
    99 - Unknown

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

MCS Related Infections: Select all that apply

MCSRELATEDINFECTIONSSELECTALLTHATAPPLY	Optional			**MultiChoice:** the code(s) only.

    1 - Percutaneous lead site infection
    2 - Infection of external surfaces of an implantable component
    3 - Infection of blood-contacting surfaces of an implantable component (device endocarditis)
    98 - Other
    99 - Unknown

Percutaneous lead site infection: Select one

PERCUTANEOUSLEADSITEINFECTIONSELECTONE	Optional			**SingleChoice:** the code only.

    1 - Superficial percutaneous lead infection
    2 - Deep percutaneous lead infection
    99 - Unknown

Non-MCS Related Infections: Select all that apply

NONMCSRELATEDINFECTIONSSELECTALLTHATAPPLY	Optional			**MultiChoice:** the code(s) only.

    1 - Infective Endocarditis
    2 - Bloodstream Infection
    3 - Mediastinitis
    4 - Sepsis
    5 - Localized non-MCS infection
    98 - Other

Mediastinitis: Select subtype

MEDIASTINITISSELECTSUBTYPE	Optional			**SingleChoice:** the code only.

    1 - Procedure-related mediastinitis
    2 - Non-MCS related mediastinitis
    3 - Superficial mediastinal or thoracotomy wound infection
    99 - Unknown

Procedure-related mediastinitis: Select one

PROCEDURERELATEDMEDIASTINITISSELECTONE	Optional			**SingleChoice:** the code only.

    1 - Deep sternal wound infection (isolated)
    2 - Deep sternal wound infection involving MCS device components
    99 - Unknown

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

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

DIDTHEINFECTIONCONTRIBUTETOTHEPATIENTSDEATH	Optional			**SingleChoice:** the code only.

    0 - No
    1 - Yes
    99 - Unknown

Type of neurological dysfunction

TYPEOFNEUROLOGICALDYSFUNCTION	Optional			**SingleChoice:** the code only.

    1 - Type 1 - Overt CNS injury
    2 - Type 2 - Covert CNS injury
    3 - Type 3 - Neurologic dysfunction (acutely symptomatic) without CNS injury

Type 1 subclassification

TYPE1SUBCLASSIFICATION	Optional			**MultiChoice:** the code(s) only.

    1 - Type 1a - Ischemic stroke
    2 - Type 1ah - Ischemic stroke with hemorrhagic conversion
    3 - Type 1b - Symptomatic intracerebral hemorrhage
    4 - Type 1c - Symptomatic subarachnoid hemorrhage
    5 - Type 1d - Stroke, not otherwise specified
    6 - Type 1e - Symptomatic hypoxic-ischemic injury
    7 - Type 1f - Symptomatic subdural hemorrhage
    8 - Type 1g - Traumatic
    99 - Unknown

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

Type 2 subclassification

TYPE2SUBCLASSIFICATION	Optional			**SingleChoice:** the code only.
				1 - Type 2a - Covert CNS infarction
				2 - Type 2ah - Covert CNS infarction with hemorrhagic conversion
				3 - Type 2b - Covert CNS hemorrhage
				99 - Unknown

Type 3 subclassification

TYPE3SUBCLASSIFICATION	Optional			**SingleChoice:** the code only.
				1 - Type 3a - TIA
				2 - Type 3b - Delirium
				3 - Seizure
				99 - Unknown

Length of symtopms

LENGTHOFSYMTOPMS	Optional			**SingleChoice:** the code only.
				1 - Persist for 24 hours or until death
				2 - Symptoms lasting < 24 hours

Type 1ah subclassification

TYPE1AHSUBCLASSIFICATION	Optional			**SingleChoice:** the code only.
				1 - Class A (non-space occupying hemorrage)
				2 - Class B (space-occupying hemorrhage)

Stroke recovery or disability

STROKERECOVERYORDISABILITY	Optional			**SingleChoice:** the code only.
				0 - 0 - No symptoms at all
				1 - 1 - No Significant disability
				2 - 2 - Slight disability
				3 - 3 - Moderate disability
				4 - 4 - Moderately severe disability
				5 - 5 - Severe disability
				6 - 6 - Dead
				7 - Not Documented
				8 - Not Done

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

Method used to diagnose CNS event

METHODUSEDTODIAGNOSECNSEVENT	Optional			**SingleChoice:** the code only.
				1 - CT
				2 - MRI
				3 - Angiogram
				4 - Clinical
				9 - Other
				99 - Unknown

Cardiac arrhythmia, select type

TYPEOFCARDIACARRHYTHMIA	Optional			**SingleChoice:** the code only.
				1 - Sustained ventricular arrhythmia
				2 - Sustained supraventricular arrhythmia
				99 - Unknown

Signs of tamponade

SIGNSOFTAMPONADE	Optional			**SingleChoice:** the code only.
				0 - No
				1 - Yes
				99 - Unknown

Methods of drainage

METHODSOFDRAINAGE	Optional			**SingleChoice:** the code only.
				1 - Cath
				2 - Surgical intervention
				99 - Other

Plasma free haemoglobin

PLASMAFREEHAEMOGLOBINFU	Optional	0		**Floating point:** enter a numeric value.

Cause of haemolysis

CAUSEOFHAEMOLYSIS	Optional			**SingleChoice:** the code only.
				1 - Device related
				9 - Other
				99 - Unknown

Field title				
Header field name	Importance	Min value	Max value	Values allowed
SGPT/ALT				
SGPTALTFUUL	Optional	0		**Integer:** enter a whole number.
SGOT/AST				
SGOTASTFUUL	Optional	0		**Floating point:** enter a numeric value.
Total Bilirubin				
TOTALBILIRUBINFUMASS	Optional			**Floating point:** enter a numeric value.
Intubation				

INTUBATION	Optional			**SingleChoice:** the code only.
				  0 - No
				  1 - Yes
				99 - Unknown

Intubation duration				
INTUBATIONDURATION	Optional			**Integer:** enter a whole number.
Was tracheostomy performed				

WASATRACHEOSTOMYPERFORMED	Optional			**SingleChoice:** the code only.
				  0 - No
				  1 - Yes
				99 - Unknown

Dialysis				

DIALYSIS	Optional			**SingleChoice:** the code only.
				  0 - No
				  1 - Yes
				99 - Unknown

Dialysis duration (days)				
DIALYSISDURATIONDAYS	Optional	0		**Integer:** enter a whole number.
Creatinine				
CREATININEFUMASS	Optional			**Floating point:** enter a numeric value.

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

Dialysis start date

| DIALYSISSTARTDATE | Optional | | | **Date:** ODBC date as yyyy-mm-dd. |

Type of renal dysfunction

| TYPEOFRENALDYSFUNCTION | Optional | | | **SingleChoice:** the code only. |

    1 - Acute
    2 - Chronic
    3 - Unspecified

Location of arterial thrombo embolism

| LOCATIONOFTHROMBOEMBOLISM | Optional | | | **MultiChoice:** the code(s) only. |

    1 - Pulmonary
    2 - Renal
    3 - Hepatic
    4 - Splenic
    5 - Limb
   98 - Other
   99 - Unknown

Diagnosis of arterial thrombo-embolism

| CONFIRMATIONSOURCEOFTE | Optional | | | **SingleChoice:** the code only. |

    0 - Standard clinical laboratory testing
    1 - Operative findings
    2 - Autopsy findings
   98 - Other
   99 - Unknown

Location of the venous thrombo-embolism

| LOCATIONOFVTE | Optional | | | **MultiChoice:** the code(s) only. |

    1 - PE
    2 - DVT
    9 - Other

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

Type of follow up

TYPEOFFOLLOWUP	Optional			**SingleChoice:** the code only. **0** - In-patient **1** - Out-patient **2** - Telephone

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 **8** - Medical condition **9** - Quality of Life assessment

LV - SF

LVSF	Optional	0	100	**Integer:** enter a whole number.

LV-SF Status

LVSFSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured

Mitral regurgitation

MITRALREGURGITATION	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

Peak gradient mitral valve

PEAKGRADIENTMITRALVALVE	Optional			**Integer:** enter a whole number.

Mitral valve area

MITRALVALVEAREA	Optional			**Floating point:** enter a numeric value.

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

Aortic valve area

AORTICVALVEAREA	Optional			**Floating point:** enter a numeric value.

Peak velocity forward flow aortic valve

PEAKVELOCITYFORWARDFLOWAORTICVALVE	Optional			**Floating point:** enter a numeric value.

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

LVEF	Optional			**SingleChoice:** the code only.
				0 - >50%
				1 - 41-50%
				2 - 31-40%
				3 - 21-30%
				4 - <21%
				98 - Not done
				99 - Unknown

LV - EF

LVEFPERCENT	Optional	0	100	**Integer:** enter a whole number.

LV - EDD

LVEDD	Optional	0		**Floating point:** enter a numeric value.

LV-EDD Status

LVEDDSTATUS	Optional			**SingleChoice:** the code only.
				0 - Not measured
				1 - Measured

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
LV - ESD				
LVESD	Optional	0		**Floating point:** enter a numeric value.
LV-ESD Status				
LVESDSTATUS	Optional			**SingleChoice:** the code only.
				0 - Not measured
				1 - Measured
LV - EDV				
LVEDV	Optional			**Floating point:** enter a numeric value.
LV-EDV Status				
LVEDVSTATUS	Optional			**SingleChoice:** the code only.
				0 - Not measured
				1 - Measured
LV - ESV				
LVESV	Optional			**Floating point:** enter a numeric value.
LV-ESV Status				
LVESVSTATUS	Optional			**SingleChoice:** the code only.
				0 - Not measured
				1 - Measured
RV - EF				
RVEFPERCENT	Optional	0	100	**Integer:** enter a whole number.

Field title				
Header field name	Importance	Min value	Max value	Values allowed
RV-EF status				
RVEFSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
TAPSE				
TAPSE	Optional	0		**Integer:** enter a whole number.
TAPSE Status				
TAPSESTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
Heart Rate Status				
HEARTRATESTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
Heart rate				
HEARTRATE	Optional			**Integer:** enter a whole number.
Systolic BP Status				
SYSTOLICBPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
Systolic BP				
SYSTOLICBP	Optional	20	300	**Integer:** enter a whole number.
Diastolic BP Status				
DIASTOLICBPSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
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)

VOLUMESTATUSPERIPHERALEDEMA	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	Desirable	20	250	**Integer:** enter a whole number.

Weight

WEIGHT	Desirable	1	300	**Floating point:** enter a numeric value.

Pulmonary artery systolic pressure

PULMONARYARTERYSYSTOLICPRESSURE	Optional			**Integer:** enter a whole number.

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

PA systolic status

PASYSTOLICSTATUS	Optional			**SingleChoice:** the code only.
				0 - Not measured
				1 - Measured

Pulmonary artery diastolic pressure

PULMONARYARTERYDIASTOLICPRESSURE	Optional			**Integer:** enter a whole number.

PA diastolic status

PADIASTOLICSTATUS	Optional			**SingleChoice:** the code only.
				0 - Not measured
				1 - Measured

Mean pulmonary artery pressure

MEANPULMONARYARTERYPRESSURE	Optional			**Integer:** enter a whole number.

Mean PA pressure status

MEANPAPRESSURESTATUS	Optional			**SingleChoice:** the code only.
				0 - Not measured
				1 - Measured

RA pressure

RAPRESSURE	Optional			**Integer:** enter a whole number.

PA pressure status

PAPRESSURESTATUS	Optional			**SingleChoice:** the code only.
				0 - Not measured
				1 - Measured

Pulmonary artery wedge pressure

PULMONARYARTERYWEDGEPRESSURE	Optional			**Integer:** enter a whole number.

PAWP status

PAWPSTATUS	Optional			**SingleChoice:** the code only.
				0 - Not measured
				1 - Measured

Field title				
Header field name	**Importance**	**Min value**	**Max value**	**Values allowed**
SVR				
SVR	Optional			**Integer:** enter a whole number.
SVR status				
SVRSTATUS	Optional			**SingleChoice:** the code only. 0 - Not measured 1 - Measured
PVR				
PVR	Optional			**Integer:** enter a whole number.
PVR Status				
PVRSTATUS	Optional			**SingleChoice:** the code only. 0 - Not measured 1 - Measured
Cardiac Index				
CARDIACINDEX	Optional			**Floating point:** enter a numeric value.
Cardiac Index status				
CARDIACINDEXSTATUS	Optional			**SingleChoice:** the code only. 0 - Not measured 1 - Measured
Cardiac Output				
CARDIACOUTPUT	Optional			**Floating point:** enter a numeric value.
Cardiac output status				
CARDIACOUTPUTSTATUS	Optional			**SingleChoice:** the code only. 0 - Not measured 1 - Measured

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

Antiplatelet drugs

ANTIPLATELETDRUGS	Optional			**MultiChoice:** the code(s) only.

    0 - No
    1 - ASS
    2 - Dexpran
    3 - Dipyridamole
    4 - Clopidogrel
    5 - Ticlopidine
    98 - Other
    99 - Unknown

Cumarin

CUMARIN	Optional			**MultiChoice:** the code(s) only.

    0 - No
    1 - Phenprocoumon
    2 - Warfarin
    3 - Accenocoumarol
    99 - Unknown

Other anticoagulant drugs

OTHERANTICOAGULANTDRUGS	Optional			**MultiChoice:** the code(s) only.

    0 - No
    1 - Heparin
    2 - Enoxaparin
    3 - Agratroban
    4 - Bivarudin
    5 - Fondiparinux
    6 - Hirudin
    7 - Lepirudin
    8 - Ximelagratan
    19 - Other
    99 - Unknown

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

DOAC

DOAC	Optional			**MultiChoice:** the code(s) only.
				0 - No
				1 - Apixaban
				2 - Dabigatran
				3 - Edoxaban
				4 - Rivaroxaban
				99 - Unknown

Sodium

SODIUMFUMASS	Optional			**Floating point:** enter a numeric value.

Sodium

SODIUMFUMMOL	Optional			**Floating point:** enter a numeric value.

Sodium status

SODIUMFUSTATUS	Optional			**SingleChoice:** the code only.
				0 - Not measured
				1 - Measured

Potassium

POTASSIUMFUMASS	Optional			**Floating point:** enter a numeric value.

Potassium

POTASSIUMFUMMOL	Optional			**Floating point:** enter a numeric value.

Potassium status

POTASSIUMFUSTATUS	Optional			**SingleChoice:** the code only.
				0 - Not measured
				1 - Measured

Blood Urea Nitrogen

BLOODUREANITROGENFU	Optional			**Floating point:** enter a numeric value.

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

Blood urea nitrogen status

BLOODUREANITROGENFUSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured

Creatinine

CREATININEFUUMOL	Optional			**Floating point:** enter a numeric value.

Creatinine status

CREATININEFUSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured

SGPT/ALT

SGPTALTFUUKAT	Optional			**Floating point:** enter a numeric value.

SGPT/ALT status

SGPTALTFUSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured

SGOT/AST

SGOTASTFUUKAT	Optional			**Floating point:** enter a numeric value.

SGOT/AST status

SGOTASTFUSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured

LDH

LDHFU	Optional	0		**Floating point:** enter a numeric value.

LDH status

LDHFUSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured

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

Total Bilirubin

| TOTALBILIRUBINFUUMOL | Optional | | | **Floating point:** enter a numeric value. |

Total bilirubin status

TOTALBILIRUBINFUSTATUS	Optional			**SingleChoice:** the code only.
				0 - Not measured
				1 - Measured

Bilirubin direct

| BILIRUBINDIRECTFUMASS | Optional | 0 | | **Floating point:** enter a numeric value. |

Bilirubin direct

| BILIRUBINDIRECTFUUMOL | Optional | 0 | | **Floating point:** enter a numeric value. |

Bilirubin direct status

BILIRUBINDIRECTFUSTATUS	Optional			**SingleChoice:** the code only.
				0 - Not measured
				1 - Measured

Albumin

| ALBUMINFUMASS | Optional | | | **Floating point:** enter a numeric value. |

Albumin

| ALBUMINFUUMOL | Optional | | | **Floating point:** enter a numeric value. |

Albumin status

ALBUMINFUSTATUS	Optional			**SingleChoice:** the code only.
				0 - Not measured
				1 - Measured

NT pro brain natriuretic peptide Pro BNP

| NTPROBRAINNATRIURETICPEPTIDEPROBNPFU | Optional | | | **Integer:** enter a whole number. |

NT pro brain natriuretic peptide pro BNP status

NTPROBRAINNATRIURETICPEPTIDEPROBNPFUSTATUS	Optional			**SingleChoice:** the code only.
				0 - Not measured
				1 - Measured

Field title				
Header field name	**Importance**	**Min value**	**Max value**	**Values allowed**
CRP C reactive protein				
CRPCREACTIVEPROTEINFU	Optional			**Floating point:** enter a numeric value.
CRPStatus				
CRPFUSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
White blood cell count				
WHITEBLOODCELLCOUNTFU	Optional			**Floating point:** enter a numeric value.
White blood cell count status				
WHITEBLOODCELLCOUNTFUSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
Haemoglobin				
HAEMOGLOBINFU	Optional			**Floating point:** enter a numeric value.
Haemoglobin status				
HAEMOGLOBINFUSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
Platelet				
PLATELETFU	Optional			**Integer:** enter a whole number.
Platelet status				
PLATELETFUSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured
pH				
PHFU	Optional			**Floating point:** enter a numeric value.

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

pH status

PHFUSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured

Lactate

LACTATEFU	Optional			**Floating point:** enter a numeric value.

Lactate status

LACTATEFUSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured

Bicarbonate (HCO3)

BICARBONATEHCO3FU	Optional			**Floating point:** enter a numeric value.

Bicarbonate (HCO3) status

BICARBONATEHCO3FUSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured

Positive antiheparin/platelet antibody (HIT)

POSITIVEANTIHEPARINPLATELETANTIBODYHITFU	Optional			**SingleChoice:** the code only. **0** - No **1** - Yes **99** - Unknown

INR

INRFU	Optional			**Floating point:** enter a numeric value.

INR status

INRFUSTATUS	Optional			**SingleChoice:** the code only. **0** - Not measured **1** - Measured

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

PTT

| PTTFU | Optional | | | **Floating point:** enter a numeric value. |

PTT status

PTTFUSTATUS	Optional			**SingleChoice:** the code only.
				0 - Not measured
				1 - Measured

Protein C

| PROTEINCFU | Optional | | | **Integer:** enter a whole number. |

ProteinC FU Status

PROTEINCFUSTATUS	Optional			**SingleChoice:** the code only.
				0 - Not measured
				1 - Measured

Plasma free haemoglobin status

PLASMAFREEHAEMOGLOBINFUSTATUS	Optional			**SingleChoice:** the code only.
				0 - Not measured
				1 - Measured

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. |

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

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

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

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

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

Self care

SELFCARE	Optional			**SingleChoice:** the code only.
				1 - I hove 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

Your own health state today

YOUROWNHEALTHSTATETODAY	Optional	0	100	**Integer:** enter a whole number.

Have your family experienced serious illness?

HAVEYOURFAMILYEXPERIENCEDSERIOUSILLNESS	Optional			**SingleChoice:** the code only.
				0 - No
				1 - Yes
				99 - Unknown

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

Are you smoking

AREYOUSMOKING	Optional			**SingleChoice:** the code only. **0** - No - never **1** - No - previous **3** - Yes - current **99** - Unknown

Which of the following best describes your main activity

WHICHOFTHEFOLLOWINGBESTDESCRIBESYOURMAINACTIVITY	Optional			**SingleChoice:** the code only. **1** - Employed **2** - Retired **3** - Keeping house **4** - Student **5** - Seeking work **9** - Other **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 - Durable RVAD
				3 - Total artificial heart

New device after somatic outgrowth

NEWDEVICEAFTERSOMATICOUTGROWTH	Optional			**SingleChoice:** the code only.
				0 - No
				1 - Yes

Hospital treating patient

HOSPITALTREATINGPATIENT	Optional			**ShortString:** maximum of 1,024 characters.

Care transferred to another Hospital

CARETRANSFERREDTOANOTHERHOSPIT	Optional			**SingleChoice:** the code only.
				0 - No
				1 - Yes

Care permanently transferred to

CAREPERMANENTLYTRANSFERREDTO	Optional			**ShortString:** maximum of 1,024 characters.

Intervention

INTERVENTION	Optional			**MultiChoice:** the code(s) only.
				1 - Device related operation
				2 - Other cardiac surgical procedure
				3 - Non cardiac surgical procedure
				4 - Other procedure
				5 - Percutaneous cardiac procedure
				6 - Congenital procedure

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

Cardiac surgery

CARDIACSURGERY	Optional			**MultiChoice:** the code(s) only.

           0 - None
           1 - CABG
           2 - Aortic valve replacement - biological
           3 - Aortic valve replacement - mechanical
           4 - Aortic valve repair
           5 - Mitral valve replacement - biological
           6 - Mitral valve repair
           7 - Tricuspid valve replacement - biological
           8 - Tricuspid Valve replacement - mechanical
           9 - Tricuspid valve repair

Transcatheter intervention

TRANSCATHETHERINTERVENTION	Optional			**MultiChoice:** the code(s) only.

           0 - None
           1 - Transcatheter aortic valve replacement
           2 - Mitraclip
           3 - Percutaneous coronary intervention

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

Congenital surgery

CONGENITALSURGERY	Optional			**MultiChoice:** the code(s) only.
				1 - AP shunt
				2 - Glenn: Classical
				3 - Complete AV Septal Defect repair
				4 - Norwood Stage
				5 - Cong. Corrected Transposition repair
				6 - PA banding
				7 - Damus Kay Stansel (DKS)
				8 - TOF/DORV/RVOTO repair
				9 - Ebstein's Anomaly repair
				10 - Transposition of the Great Vessels repair
				11 - Fontan
				12 - Truncus Arteriosus repair
				13 - Glenn: Bi-directional
				14 - Valve replacement/repair/outflow obstruction

Other procedure

OTHERPROCEDURE	Optional			**MultiChoice:** the code(s) only.
				3 - Bronchoscopy
				98 - Other

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

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

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

Autopsy

AUTOPSY	Optional			**SingleChoice:** the code only.
				0 - No
				1 - Yes
				99 - Unknown

Primary cause of death

PRIMARYCAUSEOFDEATH	Optional			**SingleChoice:** the code only see table: **COD**

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

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			**SingleChoice:** the code only see table: **COD**

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

Followup Data Complete

FOLLOWUPDATACOMPLETE	Optional			**SingleChoice:** the code only.

    0 - No
    1 - Yes

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

Reason decommission

REASONDECOMMISSION	Optional			**MultiChoice:** the code(s) only.
				1 - Ventricle recovery
				2 - Patient enters palliative setting / wish patient
				3 - Other

Other reason decommission

OTHERREASONDECOMMISSION	Optional			**ShortString:** maximum of 1,024 characters.

Explant reason

EXPLANTREASONTEMPRVAD	Optional			**SingleChoice:** the code only.
				1 - Ventricle recovery/wean
				2 - Device malfunction - elective
				3 - Device malfunction - urgent

Subtype of Right heart failure

SUBTYPEOFRIGHTHEARTFAILURE	Optional			**SingleChoice:** the code only.
				1 - Early Acute RHF
				2 - Early post-implant RHF
				3 - Late RHF

Early post-implant RHF: Select category

EARLYPOSTIMPLANTRHFSELECTCATEGORY	Optional			**SingleChoice:** the code only.
				1 - Need for implantation of a temporary or durable RVAD (including ECMO) within 30 days following LVAD implantation for any duration of time
				2 - Initiation or continuation of inotropic or vasopressor support or inhaled nitric oxide after 14 days following LVAD implantation or having to initiate this support within 30 days of implant for a duration of at least 14 days
				3 - Death occurring in patients within 30 days of LVAD implant who have not received an RVAD but who remain on inotropes or vasopressors at the time of death and meet criteria for the diagnosis of RHF T

Field title				
Header field name	**Importance**	**Min value**	**Max value**	**Values allowed**
If late RHF, select category				
IFLATERHFSELECTCATEGORY	Optional			**SingleChoice:** the code only.

SingleChoice: the code only.

1 - Need for implantation of an RVAD (including ECMO) greater than 30 days after an LVAD implantation

2 - Hospitalization that occurs greater than 30 days post-implant and which requires intravenous diuretics or inotropic support for at least 72 hours

Upload file

Tables

fields included:

COD
INS
OCTRY
OSITE
TAH

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

COD

B01	Bleeding		P05	Pulmonary artery embolisation
C01	Cancer		R03	Right heart failure
C04	Cerebro-vascular accident		S02	Suicide
C05	Cardio-pulmonary failure		S03	Sepsis
D01	Device failure		T01	Trauma
I01	Infection		T02	Technical problems
L02	Left heart failure		T03	Thrombosis
L03	Lung failure		Z98	Other cause of death
M01	Multi-organ failure		Z99	Unknown cause of death
M02	Myocardial infarction			

INS

AKH	Allgemeines Krankenhaus der Stadt Wien (Vienna General Hospital)		INSEL	Inselspital in Bern - DEPRECATED - USE University Hospital Berne
ARHU	Arhus University Hospital		ISM	ISMETT - Mediterranean Institute for Transplantation and Advanced Specialized Therapies
AUT	AHEPA University Hospital - Thessaloniki			
BAK	Central Clinic Hospital in Baku Azerbaijan		KAZ	National Research Cardiac Surgery Center - Kazakhstan
BAS	Baskent University Hospital		KIN	Kinderspital Zürich
BGPH	Bambino Gesù Pediatric Hospital Rome		KKN	Klinika Kardiochirurgie NUSCH Bratislava
BHH	Berlin Heart GmbH		KPAIP	Krakow Polish-American Institute of Pediatrics
BIR	University Hospital of Birmingham		LPUH	La Paz University Hospital
BOH	Bad Oeynhausen Hospital		LUMC	Leiden University Medical Center Leiden
CMHW	Childrens Memorial Hospital Warsaw		MIN	Republican Scientific and Practical Center Cardiology Minsk
COL	Ospedale dei Colli - Naples		MLH	Marie Lannelongue Hospital Le Plessis Robinson
CRN	Institute for Clinical and Experimental Medicine - Czech Republic		MUV	Medical university of Vienna
DHZB	German Heart Institute Berlin		NAV	Clinica Universidad de Navarra Pamplona
EGE	Ege University Hospital Izmir		NIG	Niguarda Ca Granda Hospital
EPP	University Hospital Eppendorf - Hamburg		NUT	Freeman Hospital
ESPA	ESPAMACS Spain		OLVZ	OLVZ Hospital
FLO	Florence Nightingale University Hospital Istanbul		ONA	Onassis Cardiac Surgery Center
FREI	Freiburg University Heart Clinic		OSL	Oslo University Hospital
GHI	Gottsegen Hungarian Institute of Cardiology		OSP	Ospedale San Camillo - Rome
GOSH	Great Ormond Street Hospital London		PAP	Ospedale Papa Giovanni XIII - Bergamo
HLE	Herzzentrum Leipzig		PSCCAH	Prince Sultan Cardiac Center-Al Hassa
HWR	Heartware		QEH	Queen Elizabeth Hospital Birmingham UK
IMACS	iMacs (University of Alabama Birmingham)			
INNAU	Innsbruck University Clinics			

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

INS continued …

REM	Rotterdam Erasmus Medical Center	UHH	Universitäres Herzzentrum Hamburg
RIG	Rigshospitalet	UHT	Universitats-Herzzentrum Thuringen
RON	Rikshospitalet - Oslo Norway	UMCG	Universitair Medisch Centrum Groningen
SBH	St Bartholomews Hospital London	UMCU	Utrecht University Medical Center
SCHD	Silesian Center for Heart Diseases	USH	University Hospital Schleswig-Holstein
SEM	Heart Center of the Semmelweis University - Budapest	UZG	Universitair Ziekenhuis Gent
SOH	San Orsola Hospital - Bologna	UZL	Universitair ziekenhuis UZ Leuven
TRM	Torino Regina Margherita Children's Hospital	VMU	Vienna Medical University
TSB	Center for Cardiovascular and Transplant Surgery Brno	WAR	Cardiac surgery and transplantology Department Warsaw
TYU	Turkiye Yuksek Ihtisas Hospital	ZAG	University Hospital Centre Zagreb
UHB	University Hospital Berne	ZZZ	Non Euromacs centre
UHC	University Hospital of Cologne		
UHCF	University Heart Center Freiburg Bad Krozingen		

OCTRY

ABW	Aruba	BGD	Bangladesh
AFG	Afghanistan	BGR	Bulgaria
AGO	Angola	BHR	Bahrain
AIA	Anguilla	BHS	Bahamas
ALB	Albania	BIH	Bosnia and Herzegovina
AND	Andorra	BLR	Belarus
ANT	Netherlands Antilles	BLZ	Belize
ARE	United Arab Emirates	BMU	Bermuda
ARG	Argentina	BOL	Bolivia
ARM	Armenia	BRA	Brazil
ASM	American Samoa	BRB	Barbados
ATA	Antarctica	BRN	Brunei Darussalam
ATF	French Southern Territories	BTN	Bhutan
ATG	Antigua and Barbuda	BVT	Bouvet Island (Bouvetoya)
AUS	Australia	BWA	Botswana
AUT	Austria	CAF	Central African Republic
AZE	Azerbaijan	CAN	Canada
BDI	Burundi	CCK	Cocos (Keeling) Islands
BEL	Belgium	CHE	Switzerland
BEN	Benin	CHL	Chile
BFA	Burkina Faso	CHN	China

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

OCTY continued …

CIV	Cote D'Ivoire		**GBR-SCO**	Scotland
CMR	Cameroon		**GBR-WLS**	Wales
COD	Congo, Democratic Republic of		**GEO**	Georgia
COG	Congo		**GHA**	Ghana
COK	Cook Islands		**GIB**	Gibraltar
COL	Colombia		**GIN**	Guinea
COM	Comoros		**GLP**	Guadaloupe
CPV	Cape Verde		**GMB**	Gambia the
CRI	Costa Rica		**GNB**	Guinea-Bissau
CUB	Cuba		**GNQ**	Equatorial Guinea
CXR	Christmas Island		**GRC**	Greece
CYM	Cayman Islands		**GRD**	Grenada
CYP	Cyprus		**GRL**	Greenland
CZE	Czech Republic		**GTM**	Guatemala
DEU	Germany		**GUF**	French Guiana
DJI	Djibouti		**GUM**	Guam
DMA	Dominica		**GUY**	Guyana
DNK	Denmark		**HKG**	Hong Kong SAR
DOM	Dominican Republic		**HMD**	Heard and McDonald Islands
DZA	Algeria		**HND**	Honduras
ECU	Ecuador		**HRV**	Hrvatska (Croatia)
EGY	Egypt		**HTI**	Haiti
ERI	Eritrea		**HUN**	Hungary
ESH	Western Sahara		**IDN**	Indonesia
ESP	Spain		**IND**	India
EST	Estonia		**IOT**	British Indian Ocean Territory (Chagos Archipelago
ETH	Ethiopia		**IRL**	Ireland
FIN	Finland		**IRN**	Iran
FJI	Fiji		**IRQ**	Iraq
FLK	Falkland Islands (Malvinas)		**ISL**	Iceland
FRA	France		**ISR**	Israel
FRO	Faeroe Islands		**ITA**	Italy
FSM	Micronesia		**JAM**	Jamaica
GAB	Gabon		**JOR**	Jordan
GBR	United Kingdom		**JPN**	Japan
GBR-ENG	England		**KAZ**	Kazakhstan
GBR-NIR	Northern Ireland		**KEN**	Kenya

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

OCTY continued …

KGZ	Kyrgyz Republic		MYS	Malaysia
KHM	Cambodia		MYT	Mayotte
KIR	Kiribati		NAM	Namibia
KNA	St. Kitts and Nevis		NCL	New Caledonia
KOR	Korea (South)		NER	Niger the
KWT	Kuwait		NFK	Norfolk Island
LAO	Laos		NGA	Nigeria
LBN	Lebanon		NIC	Nicaragua
LBR	Liberia		NIU	Niue
LBY	Libya		NLD	Netherlands the
LCA	St. Lucia		NOR	Norway
LIE	Liechtenstein		NPL	Nepal
LKA	Sri Lanka		NRU	Nauru
LSO	Lesotho		NZL	New Zealand
LTU	Lithuania		OMN	Oman, Sultanate of
LUX	Luxembourg		PAK	Pakistan
LVA	Latvia		PAN	Panama
MAC	Macao (China)		PCN	Pitcairn Island
MAR	Morocco		PER	Peru
MCO	Monaco		PHL	Philippines the
MDA	Moldova		PLW	Palau
MDG	Madagascar		PNG	Papua New Guinea
MDV	Maldives		POL	Poland
MEX	Mexico		PRI	Puerto Rico
MHL	Marshall Islands		PRK	Korea (North)
MKD	Macedonia		PRT	Portugal
MLI	Mali		PRY	Paraguay
MLT	Malta		PSE	Palestinian Territory, Occupied
MMR	Myanmar (Burma)		PYF	French Polynesia
MNG	Mongolia		QAT	Qatar
MNP	Northern Mariana Islands		REU	Reunion
MOZ	Mozambique		ROU	Romania
MRT	Mauritania		RUS	Russian Federation
MSR	Montserrat		RWA	Rwanda
MTQ	Martinique		SAU	Saudi Arabia
MUS	Mauritius		SCG	Serbia and Montenegro
MWI	Malawi		SDN	Sudan

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

OCTY continued …

SEN	Senegal	TTO	Trinidad and Tobago
SGP	Singapore	TUN	Tunisia
SGS	South Georgia and the South Sandwich Islands	TUR	Turkey
SHN	St. Helena	TUV	Tuvalu
SJM	Svalbard & Jan Mayen Islands	TWN	Taiwan, Province of China
SLB	Solomon Islands	TZA	Tanzania
SLE	Sierra Leone	UGA	Uganda
SLV	El Salvador	UKR	Ukraine
SMR	San Marino	UMI	United States Minor Outlying Islands
SOM	Somalia	URY	Uruguay
SPM	St. Pierre and Miquelon	USA	United States of America
STP	Sao Tome and Principe	UZB	Uzbekistan
SUR	Suriname	VAT	Holy See (Vatican City State)
SVK	Slovakia	VCT	St. Vincent and the Grenadines
SVN	Slovenia	VEN	Venezuela
SWE	Sweden	VGB	British Virgin Islands
SWZ	Swaziland	VIR	US Virgin Islands
SYC	Seychelles	VNM	Viet Nam
SYR	Syrian Arab Republic	VUT	Vanuatu
TCA	Turks and Caicos Islands	WLF	Wallis and Futuna Islands
TCD	Chad	WSM	Samoa (formerly Western Samoa)
TGO	Togo	XXX	Unspecified
THA	Thailand	YEM	Yemen
TJK	Tajikistan	ZAF	South Africa
TKL	Tokelau (Tokelau Islands)	ZMB	Zambia
TKM	Turkmenistan	ZWE	Zimbabwe
TLS	Timor-Leste		
TON	Tonga		

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

OSITE

AKH	Allgemeines Krankenhaus der Stadt Wien (Vienna General Hospital)
ARHU	Arhus University Hospital
AUT	AHEPA University Hospital - Thessaloniki
BAK	Central Clinic Hospital in Baku Azerbaijan
BAS	Baskent University Hospital
BGPH	Bambino Gesù Pediatric Hospital Rome
BHH	Berlin Heart GmbH
BIR	University Hospital of Birmingham
BOH	Bad Oeynhausen Hospital
CMHW	Childrens Memorial Hospital Warsaw
COL	Ospedale dei Colli - Naples
CRN	Institute for Clinical and Experimental Medicine - Czech Republic
DHZB	German Heart Institute Berlin
EGE	Ege University Hospital Izmir
EPP	University Hospital Eppendorf - Hamburg
ESPA	ESPAMACS Spain
FLO	Florence Nightingale University Hospital Istanbul
FREI	Freiburg University Heart Clinic
GHI	Gottsegen Hungarian Institute of Cardiology
GOSH	Great Ormond Street Hospital London
HLE	Herzzentrum Leipzig
HWR	Heartware
IMACS	iMacs (University of Alabama Birmingham)
INNAU	Innsbruck University Clinics
INSEL	Inselspital in Bern - DEPRECATED - USE University Hospital Berne
ISM	ISMETT - Mediterranean Institute for Transplantation and Advanced Specialized Therapies
KAZ	National Research Cardiac Surgery Center - Kazakhstan
KIN	Kinderspital Zürich
KKN	Klinika Kardiochirurgie NUSCH Bratislava
KPAIP	Krakow Polish-American Institute of Pediatrics
LPUH	La Paz University Hospital
LUMC	Leiden University Medical Center Leiden
MIN	Republican Scientific and Practical Center Cardiology Minsk
MLH	Marie Lannelongue Hospital Le Plessis Robinson
MUV	Medical university of Vienna
NAV	Clinica Universidad de Navarra Pamplona

NIG	Niguarda Ca Granda Hospital
NUT	Freeman Hospital
OLVZ	OLVZ Hospital
ONA	Onassis Cardiac Surgery Center
OSL	Oslo University Hospital
OSP	Ospedale San Camillo - Rome
PAP	Ospedale Papa Giovanni XIII - Bergamo
PSCCAH	Prince Sultan Cardiac Center-Al Hassa
QEH	Queen Elizabeth Hospital Birmingham UK
REM	Rotterdam Erasmus Medical Center
RIG	Rigshospitalet
RON	Rikshospitalet - Oslo Norway
SBH	St Bartholomews Hospital London
SCHD	Silesian Center for Heart Diseases
SEM	Heart Center of the Semmelweis University - Budapest
SOH	San Orsola Hospital - Bologna
TRM	Torino Regina Margherita Children's Hospital
TSB	Center for Cardiovascular and Transplant Surgery Brno
TYU	Turkiye Yuksek Ihtisas Hospital
UHB	University Hospital Berne
UHCF	University Heart Center Freiburg Bad Krozingen
UHC	University Hospital of Cologne
UHH	Universitäres Herzzentrum Hamburg
UHT	Universitats-Herzzentrum Thuringen
UMCG	Universitair Medisch Centrum Groningen
UMCU	Utrecht University Medical Center
USH	University Hospital Schleswig-Holstein
UZG	Universitair Ziekenhuis Gent
UZL	Universitair ziekenhuis UZ Leuven
VMU	Vienna Medical University
WAR	Cardiac surgery and transplantology Department Warsaw
ZAG	University Hospital Centre Zagreb
ZZZ	Non Euromacs centre

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

TAH

	1	CardioWest
	5	Jarvik 2000
	6	Carmat Aeson

Mr *** ******

The EuropeanAssociation for Cardio-Thoracic Surgery

*****

***

S44 5BL

United Kingdom

phone   +44 (*) **** *** ***

  fax   +44 (*) **** *** ***

 email   ****.*****@****.*****

www.eacts.org

Peter K.H. Walton

Dendrite Clinical Systems

Managing Director

The Hub, Station Road

Henley-on-Thames

Oxfordshire RG9 1AY

United Kingdom

phone   01491 411 288

  fax   01491 411 377

 email   peter.walton@e-dendrite.com

www.e-dendrite.com