

Import Guide – Cardiac Rhythm Management (CRM) – EPS v3.01

Basic Instructions

Please export your EPS data in Comma Separated Value format (CSV). The default file for import into the CRM database is 'eps.csv', but this can be renamed to anything you require.

CSV Required Format

The file is a CSV (comma separated variable) file. All values (even empty ones) must be enclosed in quotes (""), and values must be separated with a comma. Multi-value fields values must be separated using a semi-colon.

Each line (record) of the file must be properly terminated with a CRLF (carriage return and line feed, ASCII characters 13 and 10 in decimal, 0D and 0A in hex).

Each line (record) is made up of 73 variables (fields) in the prescribed order.

Format Example: "value 1","value 2a; values 2b; value 2c","value3","",....."value 72","value 73"

Note:

2a; 2b; 2c represent multi-value values.

Dataset

Full details about the legal values for the fields can be found in the dataset, <http://www.ucl.ac.uk/nicor/audits/cardiacrhythm/datasets>

Import Order

The first number is the position of the variable followed by a comma then a tab, the next number is the dataset number, then a hyphen, followed by the field description, followed by a full stop then the datatype.

Details about the legal values for the fields can be found in the dataset, <http://www.ucl.ac.uk/nicor/audits/cardiacrhythm/datasets>

- | | |
|-----|---|
| 1, | 1.00 - DatasetVersion - Dataset version. Text (single value) |
| 2, | 1.01 - Hospital - Hospital identifier. Text (single value) |
| 3, | 1.02 - HospitalNumber - Patient Case Record Number. Free Text |
| 4, | 1.03 - NHSNumber - NHS Number. Free Text |
| 5, | 1.04 - Surname - Patient Surname. FreeText |
| 6, | 1.05 - Forename - Patient Forename. FreeText |
| 7, | 1.06 - Dateofbirth - Patient Date of Birth. Date (dd/mm/yyyy) |
| 8, | 1.07 - Gender - Patient Sex. Text (single value) |
| 9, | 1.09 - FullPostCode - Patient Post Code. FreeText |
| 10, | 1.10 - PatientStatus - Patient Status. Text (single value) |
| 11, | 2.01 - EPSAetiologyNew - Underlying heart disease. Text (multivalued semicolon separated) |
| 12, | 2.02 - EPSPrevCSTI - Previous cardiac surgery or transcatheter intervention. Text (single value) |
| 13, | 2.03 - EPSSCongHD - Structural Congenital Heart Disease. Text (multivalued semicolon separated) |
| 14, | 2.04 - EPSdafpp - Documented AF pre-procedure?. Text (single value) |
| 15, | 2.05 - EPSArrhythmia - Other documented arrhythmias pre-procedure. Text (multivalued ; separated) |
| 16, | 2.06 - EPSIndicationNew - Ablation indication. Text (multivalued semicolon separated) |
| 17, | 2.07 - EPSPreviousIntervention - Previous ablation. Text (multivalued semicolon separated) |

- 18, 3.01 - ProcedureDate - Procedure Date/Time. DateTime (dd/mm/yyyy hh:mm)
- 19, 3.02 - Urgency - Procedure Urgency. Text (single value)
- 20, 3.03 - Operator1 - Scrubbed Operator 1 Name. FreeText
- 21, 3.04 - Operator1GMC - Scrubbed Operator 1 GMC. FreeText
- 22, 3.05 - Operator1Status - Scrubbed Operator 1 Grade. Text (single value)
- 23, 3.06 - Operator2 - Scrubbed Operator 2 Name. FreeText
- 24, 3.07 - Operator2GMC - Scrubbed Operator 2 GMC. FreeText
- 25, 3.08 - Operator2Status - Scrubbed Operator 2 Grade. Text (single value)
- 26, 3.09 - Operator3 - Consultant responsible name. FreeText
- 27, 3.10 - Operator3GMC - Consultant responsible GMC. FreeText
- 28, 3.11 - Operator3Status - Consultant responsible Grade. Text (single value)
- 29, 3.12 - EPSProcedure - Ablation procedure(s). Text (multivalued ; separated)
- 30, 3.13 - EPSMapNew - Mapping/anatomic techniques. Text (multivalued semicolon separated)
- 31, 3.14 - EPSSteerTech - Steering techniques. Text (multivalued semicolon separated)
- 32, 3.15 - EPSAnticoagDP - Anticoagulation during procedure. Text (multivalued semicolon separated)
- 33, 3.16 - CathFluroTime - Total fluoroscopy time. Numeric (integer)
- 34, 3.17 - EPSDAP - Dose Area Product. Numeric (integer)
- 35, 3.18 - CathProcTime - Procedure duration (skin-skin). Numeric (integer)
- 36, 3.19 - AblationAttempted - Ablation attempted?. Text (single value)
- 37, 3.20 - EnergyTime - Total time of all energy applications. Numeric (integer)
- 38, 3.21 - EnergySource - Ablation energy source. Text (multivalued semicolon separated)
- 39, 3.22 - EPSContactSen - Contact sensing. Text (single value)
- 40, 3.23 - EPSTransApp - Transseptal approach. Text (single value)
- 41, 3.24 - EPSEpicApp - Epicardial approach. Text (single value)
- 42, 3.25 - GA - Sedation / GA. Text (single value)
- 43, 3.26 - Success - Success?. Text (single value)
- 44, 3.27 - EPSShockDelivered - Shock delivered. Text (single value)
- 45, 3.28 - Complications - Acute ablation complications. Text (multivalued ; separated)
- 46, 3.29 - ProcedureComment - Procedure report. FreeText
- 47, 3.30 - EPSCommOth - Comments. Text (single value)
- 48, 4.01 - EPSLAsize - LA size . Numeric (integer)
- 49, 4.02 - EPSLAVolume - LA Volume. Numeric (integer)
- 50, 4.03 - EPSRSPProd - Rhythm at start of procedure. Text (single value)
- 51, 4.04 - EPSPrevAntiarrDrugs - Previous antiarrhythmic drugs. Text (multivalued semicolon separated)
- 52, 4.05 - EPSCurrAntiarrDrugs - Current anti-arrhythmic drugs . Text (multivalued semicolon separated)
- 53, 4.06 - EPSEHRAAFClass - EHRA AF Classification. Text (single value)
- 54, 4.07 - EPSFuncStatNYHA - Functional status (NYHA). Text (single value)
- 55, 4.08 - EPSLSPVISO - LSPV isolated?. Text (single value)
- 56, 4.09 - EPSLIPVISO - LIPV isolated?. Text (single value)
- 57, 4.10 - EPSRSPVISO - RSPV isolated?. Text (single value)
- 58, 4.11 - EPSRIPVISO - RIPV isolated?. Text (single value)
- 59, 4.12 - EPSRoof - Roof . Text (single value)
- 60, 4.13 - EPSMitralIsth - Mitral isthmus. Text (single value)
- 61, 4.14 - EPSTVIVCisth - TV-IVC isthmus. Text (single value)
- 62, 4.15 - EPSCSEndo - CS endocardial. Text (single value)
- 63, 4.16 - EPSCSEpic - CS epicardial. Text (single value)
- 64, 4.17 - EPSOthLns - Other line(s). Text (single value)
- 65, 4.18 - EPSCFAEs - CFAEs. Text (single value)
- 66, 4.19 - EPSAbISR - Ablated to SR. Text (single value)
- 67, 5.01 - EPSVasInterDSA - Vascular intervention during same admission. Text (single value)
- 68, 5.02 - EPSDeathSA - Death on same admission?. Text (single value)
- 69, 6.01 - EPSFuMSP - Months Since Procedure. Numeric (integer)
- 70, 6.02 - EPSFuCPD - Complications Post Discharge. Text (multivalued semicolon separated)
- 71, 6.03 - EPSFuOutFPalp - Outcomes: Frequency of Palpitations. Text (single value)
- 72, 6.04 - EPSFuOutDPalp - Outcomes: Duration of Palpitation. Text (single value)
- 73, 6.05 - EPSFuAntiArrh - Anti-Arrhythmics at Follow up . Text (multivalued semicolon separated)

Format of an export file:

"value 1","value 2a; values 2b; value 2c","value3","",....."value 72","value 73"

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Note:

Empty quotes ("") to highlight how to handle empty values..... signifies the continuation of the values.