

# Import Guide – Cardiac Rhythm Management (CRM) – Device (PMICD) v5.01

## Basic Instructions

Please export your PMICD data in Comma Separated Value format (CSV). The default file for import into the CRM database is 'PMICD.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 117 variables (fields) in the prescribed order.

Format Example: "value 1","value 2a; values 2b; value 2c","value3","",....."value 116","value 117"

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,  | 1.08-FullPostCode-Patient Post Code.FreeText                                  |
| 10, | 1.09-PatientStatus-Status.Text (single value)                                 |
| 11, | 2.01-PMDate1stPaced-Date of first implant .Date (dd/mm/yyyy)                  |
| 12, | 2.02-PMAetiology-PreDevice Aetiology.Text (multivalued ; separated)           |
| 13, | 2.03-PMPresentingSymptom-PreDevice Symptom.Text (multivalued ; separated)     |
| 14, | 2.04-PMPresentingECG-ECG Indication for Device.Text (multivalued ; separated) |
| 15, | 2.05-PMAttrRhythmImp-Atrial rhythm at time of implant.Text (single value)     |
| 16, | 2.06-NYHAScore-Functional status (NYHA).Text (single value)                   |
| 17, | 2.07-ICDLVFunction-LV function.Text (single value)                            |

- 18, 2.08-ICDIndication-ICD Indication.Text (single value)
- 19, 2.09-QRSD-PreDevice/Ablation QRS duration.Numeric (integer)
- 20, 2.10-QRSM-QRS morphology if >120ms.Text (single value)
- 21, 3.01-ProcedureDate-Procedure Date/time.DateTime (dd/mm/yyyy hh:mm)
- 22, 3.02-Operator1-First operator (scrubbed) NAME.FreeText
- 23, 3.03-Operator1GMC-First operator (scrubbed) GMC.FreeText
- 24, 3.04-Operator1Status-First Operator (scrubbed) GRADE.Text (single value)
- 25, 3.05-Operator2-Second operator (scrubbed) NAME.FreeText
- 26, 3.06-Operator2GMC-Second operator (scrubbed) GMC.FreeText
- 27, 3.07-Operator2Status-Second Operator (scrubbed) GRADE.Text (single value)
- 28, 3.08-localcons-Consultant responsible NAME.FreeText
- 29, 3.09-Operator3GMC-Consultant responsible GMC.FreeText
- 30, 3.10-Operator3Status-Consultant responsible GRADE.Text (single value)
- 31, 3.11-PMInterCat-Intervention category.Text (single value)
- 32, 3.12-GenMode-Maximum system capability.Text (single value)
- 33, 3.13-PMFluoroTme-Fluoroscopy time.Numeric (integer)
- 34, 3.14-PMDAP-Dose Area Product.Numeric (integer)
- 35, 3.15-ProcedureComment-Operation report/comment.FreeText
- 36, 3.16-ProcedureType-Generator/device procedure.Text (single value)
- 37, 3.17-GenSite-Generator/Device Implant site.Text (single value)
- 38, 3.18-WhyGenChanged-Reason for generator change/removal.Text (single value)
- 39, 3.19-GenMFG-Generator/Device Manufacturer.Text (single value)
- 40, 3.20-GenModel-Generator/Device Model.Text (single value)
- 41, 3.21-GenSN-Generator/Device Serial No.Text (single value)
- 42, 3.22-PMLeadInterRV1-Lead Intervention RV1.Text (single value)
- 43, 3.23-VentricLeadSite-Access RV1.Text (single value)
- 44, 3.24-PMPSRV1-Pacing site RV1.Text (single value)
- 45, 3.25-WhyVLeadChangedNew-Indication for RV1 lead revision/change/removal.Text  
(multivalue semicolon separated)
- 46, 3.26-VentricLeadMFG-Lead Manufacturer RV1.Text (single value)
- 47, 3.27-VentricLeadModel-Lead Model RV1.Text (single value)
- 48, 3.28-VentricLeadSN-Lead Serial Number RV1.Text (single value)
- 49, 3.29-PMLeadTypeRV1-Lead/Connector type RV1.Text (single value)
- 50, 3.30-PMLeadInterRV2-Lead Intervention RV2.Text (single value)
- 51, 3.31-VentricLead2Site-Access RV2.Text (single value)
- 52, 3.32-PMPSRV2-Pacing site RV2.Text (single value)
- 53, 3.33-WhyVLead2ChangedNew-Indication for RV2 lead revision/change/removal.Text  
(multivalue ; separated)
- 54, 3.34-VentricLead2MFG-Lead Manufacturer RV2.Text (single value)
- 55, 3.35-VentricLead2Model-Lead Model RV2.Text (single value)
- 56, 3.36-VentricLead2SN-Lead Serial Number RV2.Text (single value)
- 57, 3.37-PMLeadTypeRV2-Lead/Connector type RV2.Text (single value)
- 58, 3.38-PMLeadInterAL1-Lead Intervention AL1.Text (single value)
- 59, 3.39-AtrialLeadSite-Access AL1.Text (single value)
- 60, 3.40-PMPSAL1-Pacing site AL1.Text (single value)
- 61, 3.41-WhyALeadingChangedNew-Indication for AL1 lead revision/change/removal.Text  
(multivalue semicolon separated)
- 62, 3.42-AtrialLeadMFG-Lead Manufacturer AL1.Text (single value)
- 63, 3.43-AtrialLeadModel-Lead Model AL1.Text (single value)
- 64, 3.44-AtrialLeadSN-Lead Serial Number AL1.Text (single value)
- 65, 3.45-PMLeadTypeAL1-Lead/Connector type AL1.Text (single value)
- 66, 3.46-PMLeadInterAL2-Lead Intervention AL2.Text (single value)
- 67, 3.47-AtrialLead2Site-Access AL2.Text (single value)
- 68, 3.48-PMPSAL2-Pacing site AL2.Text (single value)
- 69, 3.49-WhyA2LeadChangedNew-Indication for AL2 lead revision/change/removal.Text  
(multivalue semicolon separated)
- 70, 3.50-AtrialLead2MFG-Lead Manufacturer AL2.Text (single value)
- 71, 3.51-AtrialLead2Model-Lead Model AL2.Text (single value)
- 72, 3.52-AtrialLead2SN-Lead Serial Number AL2.Text (single value)
- 73, 3.53-PMLeadTypeAL2-Lead/Connector type AL2.Text (single value)

- 74, 3.54-PMLeadInterLV1-Lead Intervention LV1.Text (single value)
- 75, 3.55-LVLead1Site-Access LV1.Text (single value)
- 76, 3.56-PMPSLV1-Pacing site LV1.Text (single value)
- 77, 3.57-WhyLV1LeadChanged-Indication for LV1 lead revision/change/removal.Text (single value)
- 78, 3.58-LVLead1MFG-Lead Manufacturer LV1.Text (single value)
- 79, 3.59-LVLead1Model-Lead Model LV1.Text (single value)
- 80, 3.60-LVLead1SN-Lead Serial Number LV1.Text (single value)
- 81, 3.61-PMLeadTypeLV1-Lead/Connector type LV1.Text (single value)
- 82, 3.62-PMLeadInterLV2-Lead Intervention LV2.Text (single value)
- 83, 3.63-LVLead2Site-Access LV2.Text (single value)
- 84, 3.64-PMPSLV2-Pacing site LV2.Text (single value)
- 85, 3.65-WhyLV2LeadChanged-Indication for LV2 lead revision/change/removal.Text (single value)
- 86, 3.66-LVLead2MFG-Lead Manufacturer LV2.Text (single value)
- 87, 3.67-LVLead2Model-Lead Model LV2.Text (single value)
- 88, 3.68-LVLead2SN-Lead Serial Number LV2.Text (single value)
- 89, 3.69-PMLeadTypeLV2-Lead/Connector type LV2.Text (single value)
- 90, 3.70-PMLeadInterDEFIB1-Lead Intervention DEFIB1.Text (single value)
- 91, 3.71-DefibLead-Location DEFIB1.Text (single value)
- 92, 3.72-PMDEFIB1Main-Indication for new/additional (nonpacing) DEFIB1 lead.Text (single value)
- 93, 3.73-WhyDEFIB1LeadChanged-Indication for replacement/revision/removal of DEFIB1 lead .Text (multivalue semicolon separated)
- 94, 3.74-DEFIBLead1MFG-Lead Manufacturer DEFIB1.Text (single value)
- 95, 3.75-DEFIBLead1Model-Lead Model DEFIB1.Text (single value)
- 96, 3.76-DEFIBLead1SN-Lead Serial Number DEFIB1.Text (single value)
- 97, 3.77-PMLeadTypeDEFIB1-Lead/Connector type DEFIB1.Text (single value)
- 98, 3.78-PMLeadInterDEFIB2-Lead Intervention DEFIB2.Text (single value)
- 99, 3.79-DefibLead2-Location DEFIB2.Text (single value)
- 100, 3.80-PMDEFIB2Main-Indication for new/additional (nonpacing) DEFIB2 lead.Text (single value)
- 101, 3.81-WhyDEFIB2LeadChanged-Indication for replacement/revision/removal of DEFIB2 lead .Text (multivalue semicolon separated)
- 102, 3.82-DEFIBLead2MFG-Lead Manufacturer DEFIB2.Text (single value)
- 103, 3.83-DEFIBLead2Model-Lead Model DEFIB2.Text (single value)
- 104, 3.84-DEFIBLead2SN-Lead Serial Number DEFIB2.Text (single value)
- 105, 3.85-PMLeadTypeDEFIB2-Lead/Connector type DEFIB2.Text (single value)
- 106, 4.01-PMIndLeadEx-Indication for lead extraction.Text (single value)
- 107, 4.02-PMUsedMeth-Methods used.Text (multivalue semicolon separated)
- 108, 4.03-PMNoPLRC-Number of pacing leads removed completely.Numeric (integer)
- 109, 4.04-PMNoPLRP-Number of pacing leads removed partially.Numeric (integer)
- 110, 4.05-PMNoCSRC-Number of coronary sinus leads removed completely.Numeric (integer)
- 111, 4.06-PMNoCSRП-Number of coronary sinus leads removed partially.Numeric (integer)
- 112, 4.07-PMNoDFRC-Number of DF leads removed completely.Numeric (integer)
- 113, 4.08-PMNoDFRP-Number of DF leads removed partially.Numeric (integer)
- 114, 5.01-PacingProcedureComplications-Acute complications prior to discharge.Text (multivalue semicolon separated)
- 115, 5.02-PMLateComp-Late complications from discharge to 1 year.Text (multivalue semicolon separated)
- 116, 6.01-PMDateFileClosure-Date of file closure.Date (dd/mm/yyyy)
- 117, 6.02-PMFileClosure-Device File Closure.Text (single value)

**Format of an export file:**

"value 1","value 2a; values 2b; value 2c","value3",",",....."value 116","value 117"  
 "value 1","value 2a; values 2b; value 2c","value3",",",....."value 116","value 117"  
 "value 1","value 2a; values 2b; value 2c","value3",",",....."value 116","value 117"

**Note:**

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