

# **NHFA Troubleshooting Session**

## **Dataset Changes v5.0**

**10<sup>th</sup> June 2021**

**NHFA Team & DEG**

# Background to NHFA dataset changes

- 3 datasets since the start of the audit – Currently v5.0
- Key reasons:
  1. Response to queries from the HF community
  2. Response to changes to the healthcare agenda (I.e. Cardiomyopathy Association)
  4. To improve data capture – changes in therapy (DOACs)
  3. Glitches in platform functionality, I.e. Lotus Notes and QReg5
- Two types of changes: Library changes (options) **OR** New dataset (new fields)
- Process of dataset changes across NICOR – lengthy and complex, involves discussion and agreement, joint working across departments & orgs, testing, reviews, updates.

# Process of dataset changes

- Discussion and agreement of changes/new dataset – Domain Expert Group (DEG)
- Development team – Implement changes to platform (test environment)
- User Acceptance Testing – subgroup of centres & suppliers trial changes (incl. various software – Philips, HD Clinical)
- Communication – centres and software houses to implement changes
- Going 'live' and publication on NICOR website
- Review and updates if necessary

# Overview of dataset changes

## 1. Added new fields:

- Is this an emergency/elective admission for Heart Failure?
- Atrial fibrillation/ flutter
- Previous/current malignancy
- Amyloid, Creatinine (admission)
- ARNI, LVEF, SGLT2, DOACs
- Date of most recent Echo: Date of most recent Echo with options for a Date or Unknown
- Heart failure diagnosis
- Replaced field: Alcohol with Cardiomyopathy

## 2. Added new options:

- **Specialist input**: New option 7. HF Specialist Pharmacist
- **Echo**: New option 6. Cor Pulmonale/Right Heart failure due to lung disease
- **Main place of care**: New option 5. Ambulatory care/ "Diuretic Lounge"

# Overview of dataset changes



## 3. Renamed fields:

- **Date of discharge**: New field name: Date of discharge or death
- **Review appointment with the heart failure MDT**: Renamed field: Review appointment with the heart failure MDT to Was a review appointment with the specialist multidisciplinary HF team made?

## 4. Renamed options:

- **Specialist input**: Renamed option 1. Consultant cardiologist to 1. Consultant cardiologist with interest in HF
- **Echo**: Renamed option 1. LV systolic dysfunction to 1. Significant LV systolic dysfunction (LVEF  $\leq 40\%$ )
- **Diabetes therapy**: Renamed option 5. Other Oral to 5. SGLT2 inhibitors

# Overview of dataset changes



## 5. Changed field importance:

- **Warfarin**: Changed from Non-core to Core Mandatory
- **Other oral anticoagulant**: Changed from Non Core to Core Mandatory
- **BNP**: Changed from Core to Core Mandatory

## 6. Updated/changed the Units:

- Urea, Serum sodium, serum potassium: Changed units from mg/dL to mmol/L
- Haemoglobin: Changed from g/dL to g/L

# Overview of dataset changes



## 7. Updated unit range:

- **Serum Sodium**: Changed units from mEq/L to mmol/L, min and max range 110-150

## 8. Deleted field/option:

- **ARB**: Deleted option 13. ARNI

## 9. Updated/clarified the notes

- **Is this an elective admission?**: Added the following explanatory text to the notes column: I.e. for example if the patient was admitted for elective surgery'

# Change history tab



The screenshot displays the Microsoft Excel interface with the 'Change history' tab active. The spreadsheet contains the following data:

Row	Column C	Column D	Column E	Column F
402	8.01	allow up to 2 decimals	Will now allow all numbers from 0 up to two decimal places e.g. 110.21 or 110	
403	8.04	Min and Max value change	Was 40 and 120, now 30 and 250	40,120
404	9.14	Max value changed	from 1000 to 40000	1000
405	11.20	allow up to 3 decimals	e.g.: Digoxin can now be 0.125, instead of 0.12	e.g. 0.12
406	11.04	Inserted value ARNI in ARB	New Value 2019	
407	11.04	Inserted value valsartan in ARB	New Value 2019	
408	NA	Dataset version	Dataset version updated from version 4.2.1 to 5.0	
409	1.06	Date of birth	Patient age has increased from 16 years old to 18 years old to be entered into the database.	
410	2.01	Added new field: Is this an emergency admission for Heart Failure?	New field: Is this an emergency admission for Heart Failure? With options 0. No, 1. Yes and 9.Unknown	
411	2.02	Added new field: Is this an elective admission?	New field: Is this an elective admission? With options 0. No, 1. Yes and 9.Unknown	
412	2.02	Added new field: Is this an elective admission?	Added the following explanatory text to the notes column: I.e. for example if the patient was admitted for elective surgery'	
413	2.04	Option added for field: Main place of care	New option 5. Ambulatory care/ "Diuretic Lounge"	
414	2.04ai	Renamed option for field: Specialist input	Renamed option 1. Consultant cardiologist to 1. Consultant cardiologist with interest in HF	
415	2.04ai	Renamed option for field: Specialist input	Changed Option 4. Other to 4. Other heart failure specialist	
416	2.04ai	Option added for field: Specialist input	New option: 6. Other consultant cardiologist	
417	2.04ai	Option added for field: Specialist input	New option 7. HF Specialist Pharmacist	
418	2.04ai	Option added for field: Specialist input	New option 8. None	
419	4.07	Option added for field: Device therapy (prior to or during this admission)	New option 5. No indication for device	
420	4.10	Changed field importance for Congenital heart disease	Changed from Non Core to Core Mandatory	

The bottom navigation bar shows the following tabs: Procedure, Format of datasets, **Change history**, Import order, Previous dataset v4.2.1, and She ... The status bar at the bottom indicates 'Average: 21902.5 Count: 6 Sum: 43805' and the system clock shows '16:56 07/06/2021'.



# Recent changes

- **Key fields:** Echo, LVEF, Date of most recent echo, Diabetes therapy and SGLT2 inhibitors
- **Key changes:**
  - a) Field names I.e. LVEF (Most recent, either measured or visually estimated)
  - b) Added option 'Unknown' to LVEF and SGLT2 fields
  - c) Expanded options for SGLT2 I.e. No/Not applicable/Drug therapy stopped etc.
  - d) Renamed date of Echo to 'Date of most recent Echo/Test/MRI/Scan (measured or visually estimated and recorded within 12 months of admission)'
  - e) Clarified 'Definition/help' column in dataset spreadsheet (Column M) for Echo and SGLT2
  - f) Unlinked fields I.e. Echo & LVEF, Diabetes Therapy & SGLT2 inhibitors

# Next steps

- Roll out of recent dataset changes – [Monday 14th June](#).
- Publish dataset, proformas and import guide on NICOR website
- Produce FAQ in response to your questions
- Schedule future sessions to encourage more engagement

# Q&A's

Dataset spreadsheet: <https://www.nicor.org.uk/national-cardiac-audit-programme/datasets/>

Access queries: [nicor.helpdesk@nhs.net](mailto:nicor.helpdesk@nhs.net)

Audit queries: [nicor.auditenquiries@nhs.net](mailto:nicor.auditenquiries@nhs.net)

# THANK YOU

We very much appreciate and value  
all your contributions and support.

Stay well and safe!