



Feidhmeannacht na Seirbhíse Sláinte
Health Service Executive



NCIS Training Guide

Barcode Functionality in the ACU

Document Ref: NCIS_TRAIN_17

1 Background

Barcode functionality can be used in the Aseptic Unit in two settings

- During lot management
- During tray set up

In order to understand barcode functionality in these setting it is necessary to distinguish between the two types of barcodes found on a product;

1. Linear barcode- this contains the EAN number (13 digits number printed below the barcode) and is unique for each product and strength.



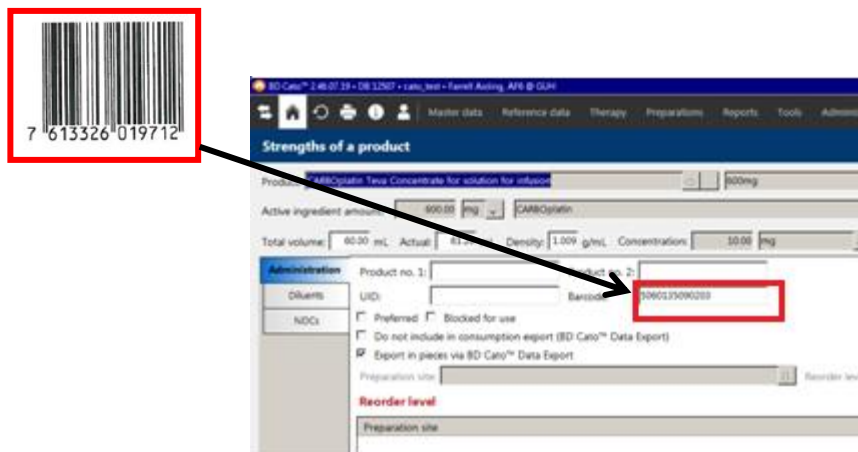
2. Matrix barcode- contains information about product identification (EAN or GS1 numbers), expiry and lot (batch) number.



- All barcode scanners used with NCIS must be installed with the most up to date drivers for that device and configured as Serial Scanners
- Test all newly installed barcode scanners in lot management and tray verification using both correct and incorrect matrix and linear barcodes to ensure correct operation
- BD CATO has experience with the following barcode scanners, please contact the Project Team or CATO Support for advise on using alternative barcode scanners:
 - Datalogic Matrix 210 (not Matrix210n)
 - Datalogic Gryphon 4400 or 4500 Series
 - Zebra/Motorola - Symbol LS4208
 - Zebra/Motorola - Symbol LS3508

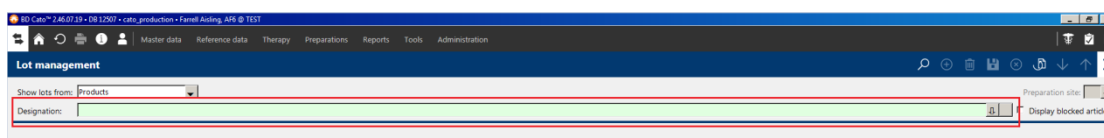
2 Lot Management

If a drug product has a 13 digit EAN code it will be entered into the Master Drug File, this allows the barcode to be used during Lot Management. *Note: entering the EAN number in the Master File is completed by the NCCP*

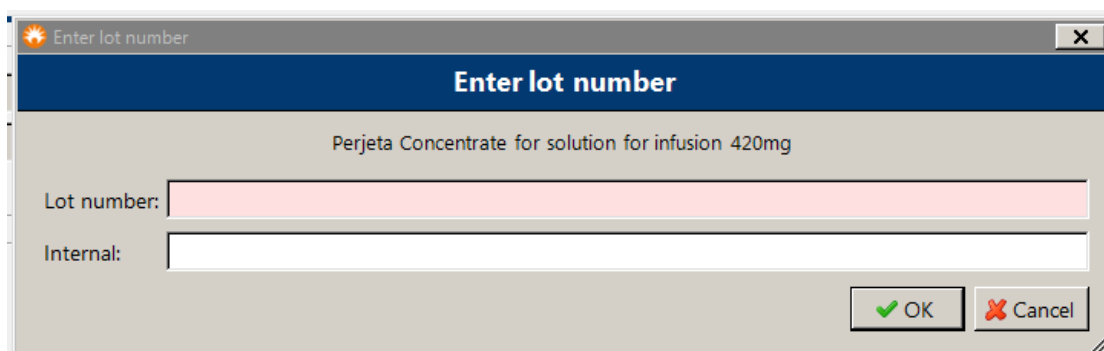


2.1 Scanning the Linear Barcode

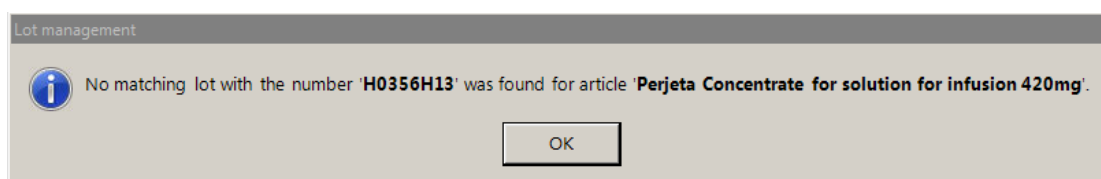
- If the linear barcode is scanned into the designation field, the system will identify the product strength associated with that linear barcode.



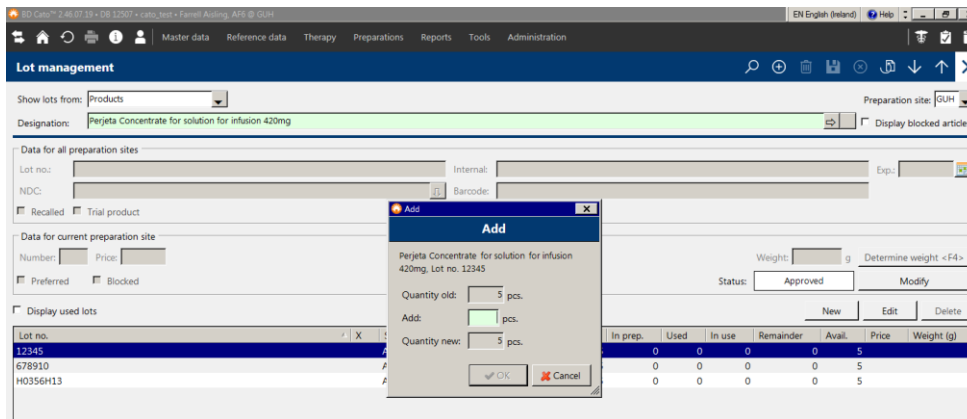
- If there are no Lots for the Product Strength the following window will appear



- Enter the Lot number of the product
- If the lot is not available at the site the "Enter lot number" box will disappear or the following message will appear



- If there are active Lots for the Product strength NCIS will automatically prompt addition to the lot number that has the shortest expiry.



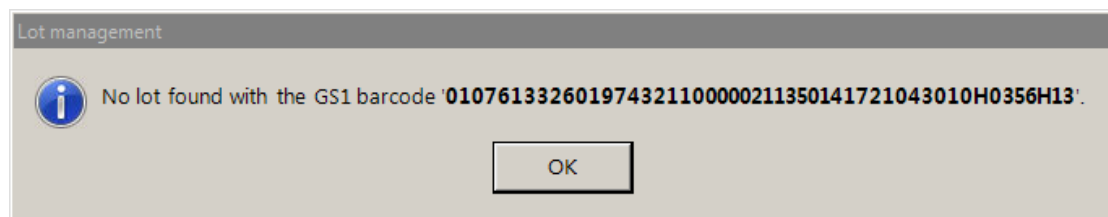
- If the Lot you wish to add is not the one with the shortest date click cancel. Select the Lot you wish to add to and click the + icon.

2.2 Scanning the Matrix Barcode

- If the matrix barcode is scanned into the designation field, NCIS will identify the product strength as well as the batch and expiry



- If the Lot is not in NCIS no additional options will be made available if the Lot is not in your prep site the following warning will appear.



- If the Lot for the Product and Product Strength is available in your prep site the Add Lots pop up will appear

The screenshot shows the 'Lot management' application window. At the top, there's a navigation bar with icons and a menu. Below it, the 'Lot management' title bar is visible. The main area contains several sections: 'Show lots from:' with a dropdown set to 'Products', 'Designation:' with a text field containing 'Perjeta Concentrate for solution for infusion 420mg', and 'Preparation site:' with a dropdown set to 'GUH'. There are checkboxes for 'Recalled' and 'Trial product'. Below these are sections for 'Data for all preparation sites' and 'Data for current preparation site', each with fields for 'Lot no.', 'Internal:', 'Exp:', 'NDC:', and 'Barcode:'. There are also checkboxes for 'Preferred' and 'Blocked'. A table at the bottom shows columns for 'Lot no.', 'Status', 'Type', 'Expiration', 'Total', 'In prep.', 'Used', 'In use', 'Remainder', 'Avail.', 'Price', and 'Weight (g)'. An 'Add' pop-up window is open in the center, displaying 'Perjeta Concentrate for solution for infusion 420mg, Lot no. 12345'. It has fields for 'Quantity old' (5 pcs) and 'Add' (5 pcs), and buttons for 'New', 'Edit', and 'Delete'. The 'Add' button is highlighted with a blue circle.

- The Lot Number and other fields will now be open for entering information
- If the matrix barcode is scanned into 'Lot no' field the lot number and expiry fields will be populated. The number of units can then be added manually.



The screenshot shows the 'Lot management' application window. The 'Lot no.' field is now populated with '12345' and the 'Exp.' field is populated with '12/05/2022'. Both fields are highlighted with red boxes. An arrow points from the barcode in the previous image to the 'Lot no.' field. The 'Add' button is now disabled, and the 'Cancel' button is visible.

- If desired the Lot and Expiry can be added manually into this screen

2.4 Setting Blocked or Preferred Lots

NCIS will select lot numbers of shortest expiry to use in preparations. This can be overridden by marking lots as 'preferred' or 'blocked'. Preferred lots will be selected ahead of shorter expiry lots. Blocked lots will not be selected for use.

3 Tray set up

- Once pharmacist verification has occurred the medication will be available in the 'set up preparation' screen

- Click on the medication to create/edit the parts list. NCIS will select the Lot Numbers with the shortest expiry, they can also be changed if required. Once Lots are selected click 'barcode verification' to check the trays contents.

- The barcode verification screen shows which products can be scanned to verify and which ones need to be verified manually.
 - Products that have a red highlight can be barcode verified, as shown below:

Prod. no.	Lot no.	Status
543Q623632		0/1

- Products without a red highlight must be verified manually, as shown below:

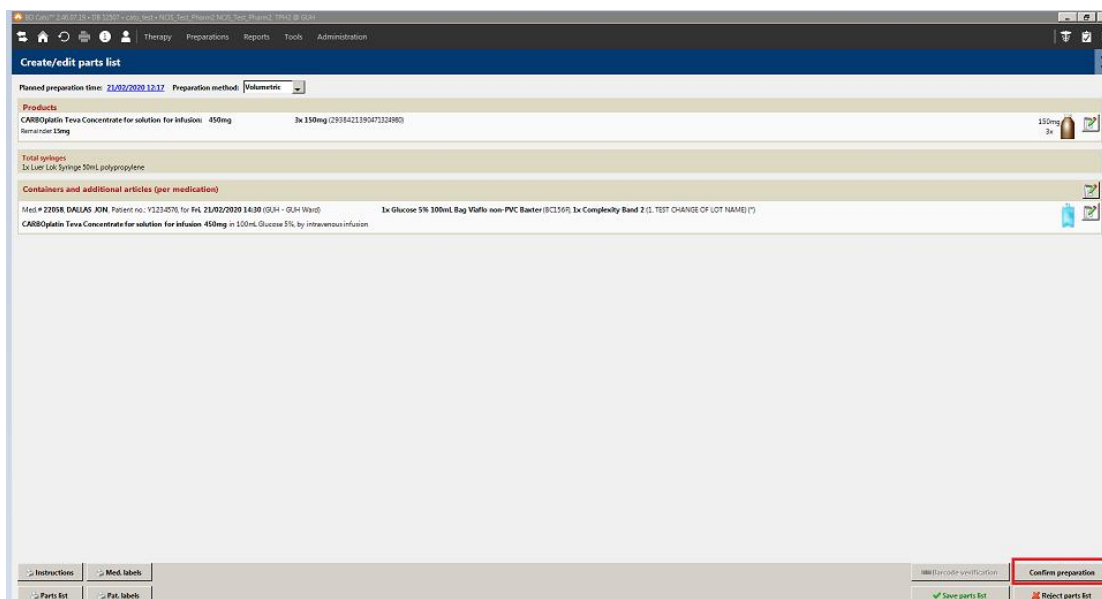
345123412341234	1
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4 Barcode verification of Trays

To barcode verify products which may be scanned, either the Matrix Barcode or Linear barcode can be scanned. However, the behaviour of each barcode type needs to be considered.

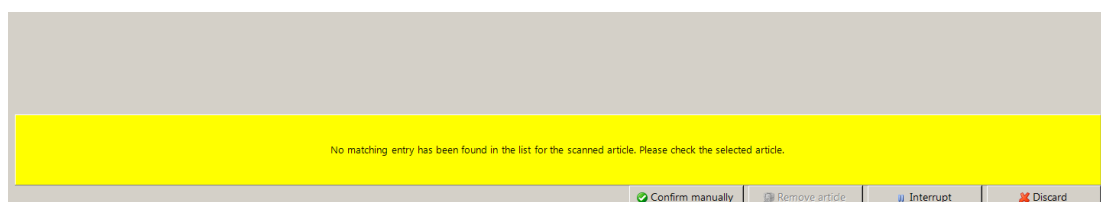
4.1 Correct matrix barcode scanned

NCIS compares **both** the **lot number** and the **product barcode** of the scanned product to the information in Masterdata. If this matches the product will be verified.



4.2 Incorrect matrix barcode scanned

NCIS compares **both** the **lot number** and the **product barcode** of the scanned product to the information in Masterdata. If this does not match the product will not be verified and the yellow banner shown below will appear on screen.



4.3 Linear barcode scanned of correct product

NCIS compares **only** the **product barcode** of the scanned product to the information in Masterdata. When this matches, the product is verified.

NOTE: When the linear barcode is scanned at this point only the correct product identity can be verified, lot number is not considered.

4.4 Linear barcode scanned of incorrect product

NCIS compares **only** the **product barcode** of the scanned product to the information in Masterdata. If this does not match the product will not be verified and the yellow banner shown below will appear on screen.