

NCO 2019/20

Clinical Training Tool

User Manual



HRG4+ LP 2019/20
PSO 2019/20
£ 2019/20

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Information and technology
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Contents

Introduction	3
What is the Clinical Training Tool?	3
Clinical Training Tool Installation and Uninstallation	4
System Requirements	4
Download and Install the Clinical Training Tool	4
Installation Setup Wizard	5
Uninstalling the Clinical Training Tool	10
Clinical Training Tool Functionality	13
Single Spell Grouping	13
Viewer	26
Single Spell Input Fields	34
Admitted Patient Care (APC)	34
Outpatients (OP)	38
Emergency Medicine (EM)	40
Adult Critical Care (ACC)	42
Paediatric Critical Care (PCC)	44
Neonatal Critical Care (NCC)	46
National Renal Dataset (NRD)	48
Single Spell Output Windows and Fields	50
Admitted Patient Care (APC)	50
Outpatients (OP)	53
Emergency Medicine (EM)	55
Adult Critical Care (ACC)	56
Paediatric Critical Care (PCC)	57
Neonatal Critical Care (NCC)	58
National Renal Dataset (NRD)	59
Errors and Validation	60

Introduction

What is the Clinical Training Tool?

The Clinical Training Tool (CTT) has been developed by the National Casemix Office (NCO) in partnership with our 3rd Party Software Supplier, Woodward Associates, with the primary aim of enabling end users to understand the Casemix HRG4+ design.

Initially developed for use by the NCO's Casemix Consultants to work more effectively with our Clinical Expert Working Groups, Service-led demand has resulted in the release of this product to the wider NHS.

The CTT promotes the transparency of our design, and will allow users to conduct 'what-if' modelling, and understand the impact of numerous clinical and administrative variables on the HRG design, including:

- Coding sequencing, depth and accuracy
- Patient age
- Length of stay

This version of the CTT is based on the HRG4+ 2019/20 Local Payment HRG design and encompasses single spell and viewer functionality as used in our standalone Grouper products.

In order to understand how the national system fits together, from design via commissioning to reimbursement, the CTT includes an integrated Prescribed Services (PS) algorithm (the PSO 2019/20) and the 2019/20 NHSE/I mandatory tariffs and business rules, as applicable.

The national tariffs for 2019/20 are included in order to provide a consistent measure of resource associated with each HRG, dependent on care setting and underlying data quality.

The inclusion of the 2019/20 Operational PS Algorithm provides an indication of how national and local commissioning rules can be affected by data quality. As a result of integration, diagnosis codes are included in outpatients, but while used for PS service line generation, they are not used in the HRG generation and as such are not mandatory for inclusion.

The CTT does not replace the existing standalone NCO Products for 2019/20 but serves to facilitate local clinical dialogue in understanding the Casemix design, and to illustrate the ramifications that poor data quality can have on both income and the identification of National Specialised Services.

The CTT should be used to educate and inform, and ultimately to improve data quality at both the local and national level, enabling more informed decision-making to be made at all levels, in support of improved patient care and outcomes.

It is hoped that in the future the NCO will be able to update the CTT for use in the 2020/21 financial year, incorporating the HRG4+ 2020/21 Local Payment HRG design and associated reimbursement and specialised services algorithm.

Any questions, comments, observations or recommendations for enhancement of the CTT should be sent to Julie.Speller@nhs.net

Clinical Training Tool Installation and Uninstallation

This guide details the prerequisite system requirements for installing the Clinical Training Tool and provides a step-by-step guide for installing and uninstalling the Clinical Training Tool.

System Requirements

The Clinical Training Tool has been developed on a platform that supports Windows Server 2008 onwards. This is in line with a Cabinet Office letter published on 8 April 2014 advising that NHS organisations could apply for a 12-month support extension for XP with the understanding that they would have plans in place for migrating from Windows XP by April 2015.

https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/314721/DHandCabinetOfficeMicrosoftXPupdate8April14.pdf

Therefore, in order to install the Clinical Training Tool onto your computer, it must be running Operating System (OS) Windows 7/Windows Server 2008 R2 or a more recent Windows OS. The software can be run on Windows Vista, but this OS is considered unsupported as it is no longer covered under Microsoft extended support.

The minimum specification advised to run the software products based on the minimum recommended PC specification to run Windows 7 as specified by Microsoft are as follows:

- 1 gigahertz (GHz) or faster 32-bit (x86) or 64-bit (x64) processor
- 1 gigabyte (GB) RAM (32-bit) or 2 GB RAM (64-bit)
- A minimum install (excluding example files) requires 47Mb of free disk space
- Microsoft Windows .NET Framework version 4.5 or above

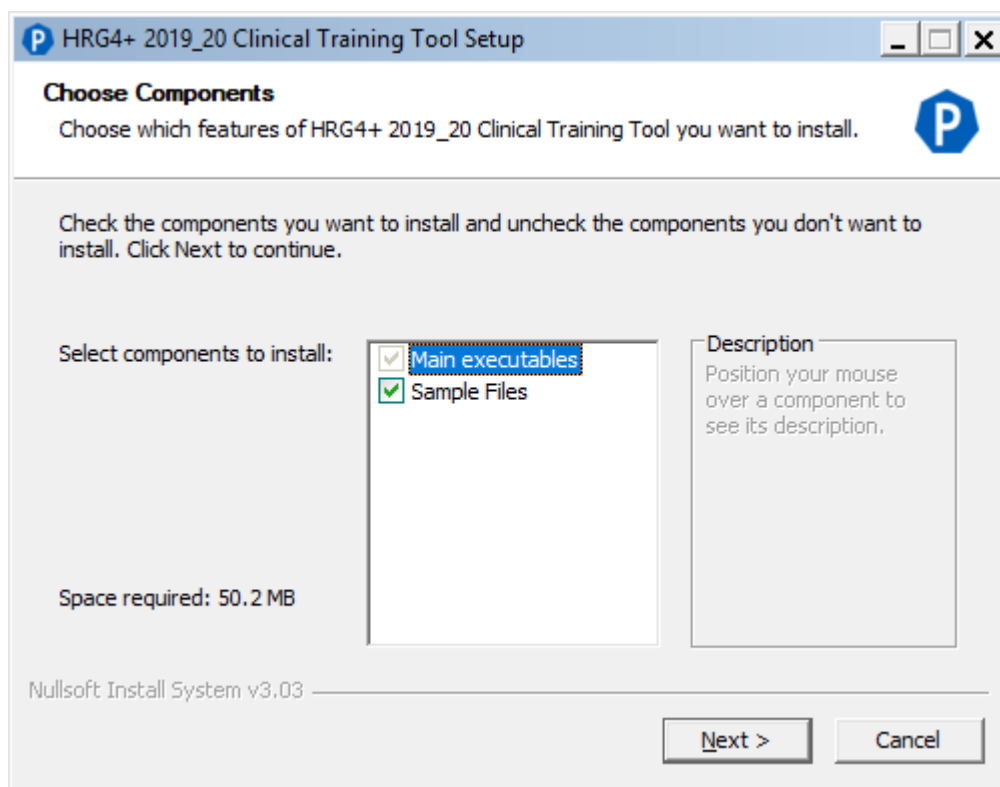
Previous OS are not supported, in line with the edict from the Cabinet Office.

Download and Install the Clinical Training Tool

- Go to <https://digital.nhs.uk/services/national-casemix-office>.
- Click on Clinical Training Tool (CTT).
- There may be more than one version available. Older versions can be found in the “Archived material” section.
- Click on ‘Clinical Training Tool’ under Current products.
- Click on the download Clinical Training Tool link under the main title.
- Save the zip file to an appropriate location on your computer.
- Open the zip file and extract the installer.
- Double-click the installer file and follow the installation setup wizard. It is important to note that depending on your security settings, you may require elevated permissions or an administrator account to install this application. If this is the case, you will need to contact your IT department to secure the appropriate permissions.

Installation Setup Wizard

Double-click the installer file to open it. The Clinical Training Tool setup wizard should automatically start. The first screen is shown below:

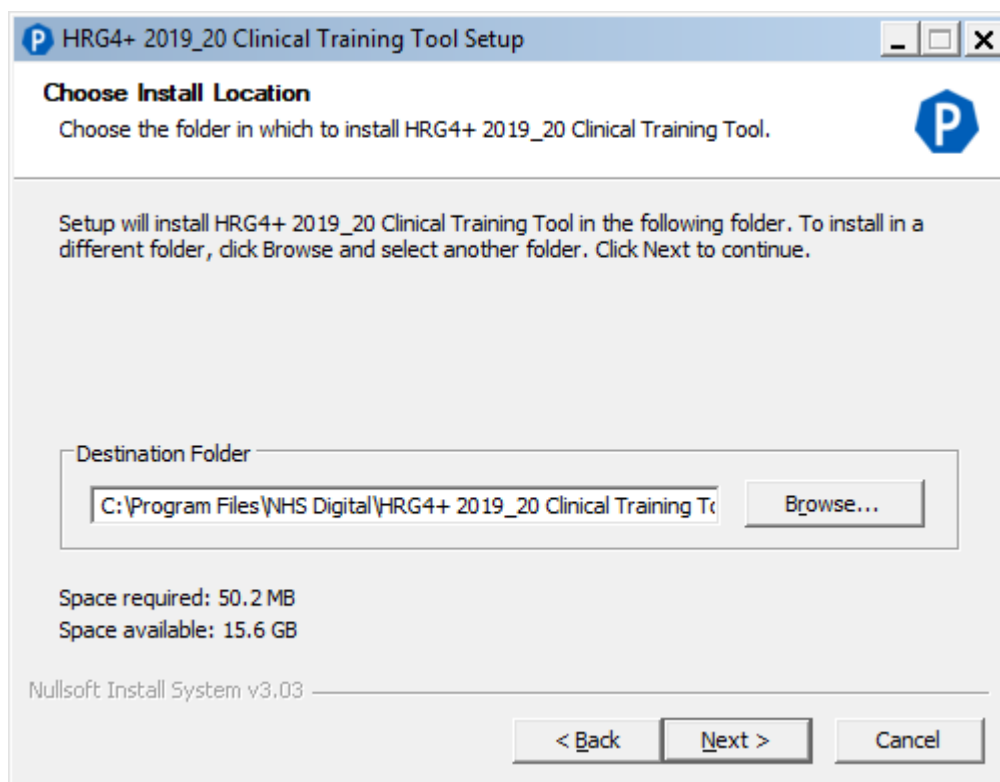


This screen allows the user to select the components to be installed. The **Main executables** component is selected for installation by default and cannot be unselected, but the user can choose whether to install a duplicate copy of the **Sample Files** as part of the installation process.

The **Sample Files** include the Sample Data as published on the National Casemix Office website. The sample data is provided so users can easily test the product. They also provide a quick and easy way of testing the install – this is explained at the end of this section.

The sample files in the **Main executables** may not be easily edited from the default install location due to administrative permissions, which is why we also provide the sample data to download from the web.

Once you have chosen the components to install, click **Next**.



The next screen allows the user to choose where they would like to install the Clinical Training Tool software. By default, the destination folder is installed to “**C:\Program Files\NHS Digital\HRG4+ 2019_20 Clinical Training Tool**”.

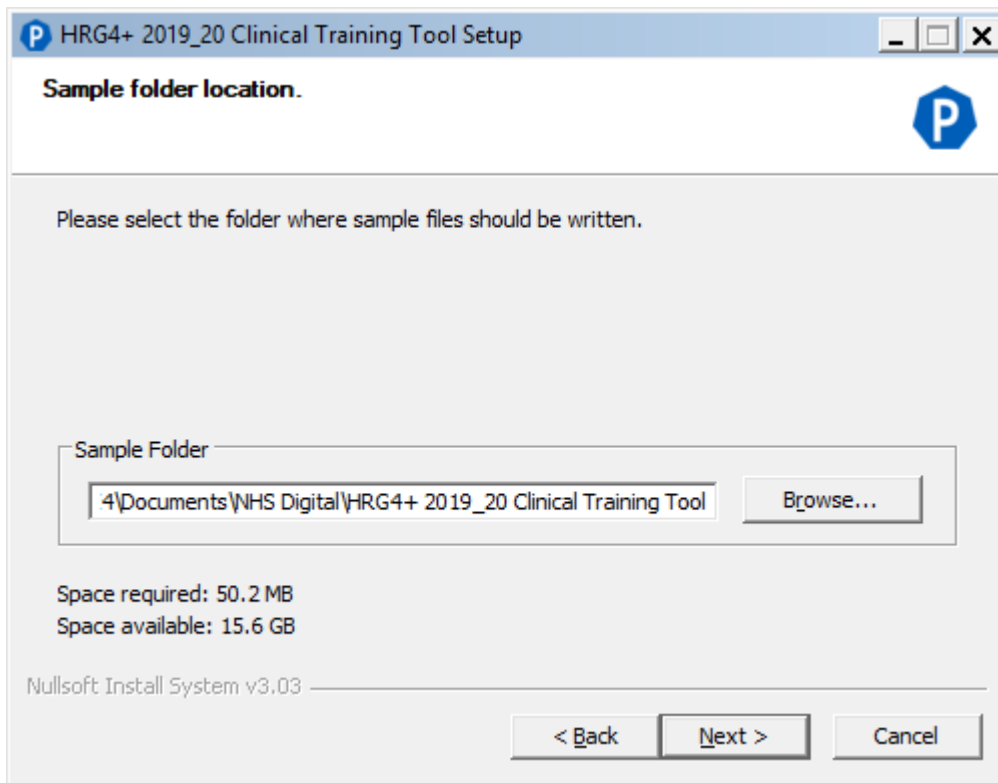
It is strongly recommended that you use this as the destination folder for the Clinical Training Tool software, unless there is a need to install to another location.

The reason for this is that should an update to the same product be made available or should a user wish to reinstall the same product, the updated version will overwrite the previous version, thus avoiding unnecessary disk space being lost and ensuring all relevant files are in a same location.

If, however, you do wish to install to another location, then use the browse function and select another folder location. It is strongly advised that the standard 20 Grouper application files, including 4 folders (3 folders if the Sample Data folder is excluded), are extracted and maintained within a sub-directory.

As above, if you wish to reinstall the Clinical Training Tool, all you need to do is select the same location and provided there have been no name changes to the default folder location (e.g. *HRG4+ 2019_20 Clinical Training Tool*), the executable will simply overwrite the files as necessary.

When the appropriate destination folder is set, click **Next**.

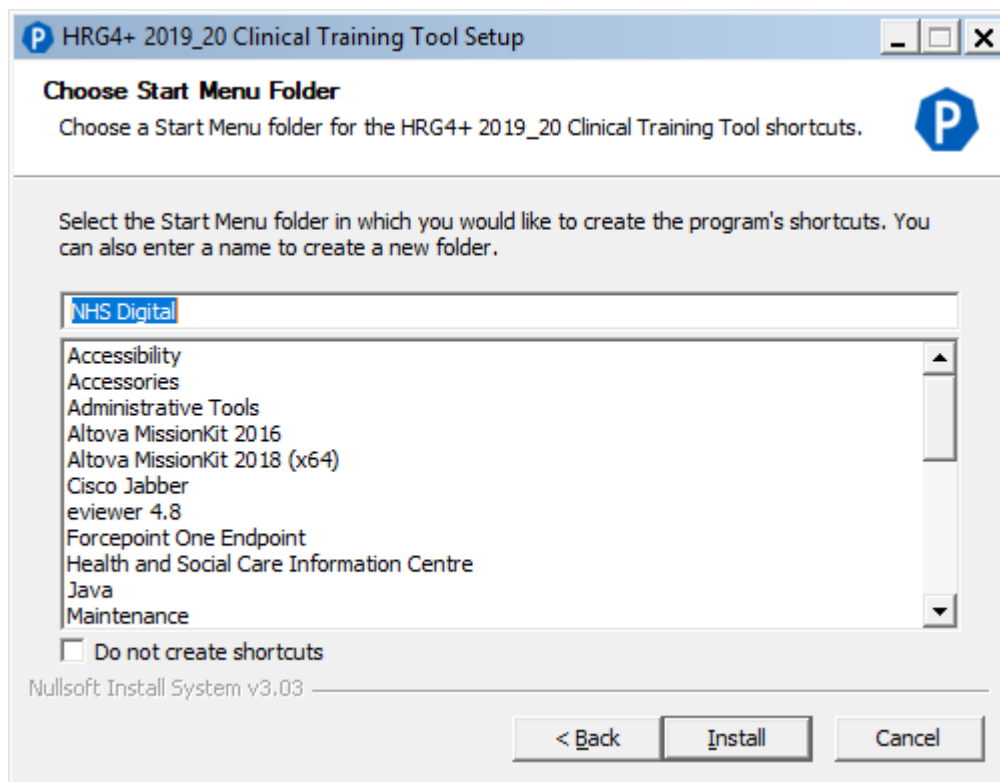


As stated above, users have the option (if selected) of installing a duplicate set of **Sample Files** as part of the installation process.

The default installation destination is set to a user's **Documents** folder. If you wish to install to another location, simply use the browse function and select another folder location.

If you did not select to install the **Sample Files** component on the first screen, this screen will not be shown as part of the installation process.

When the sample file folder is set, click **Next**.

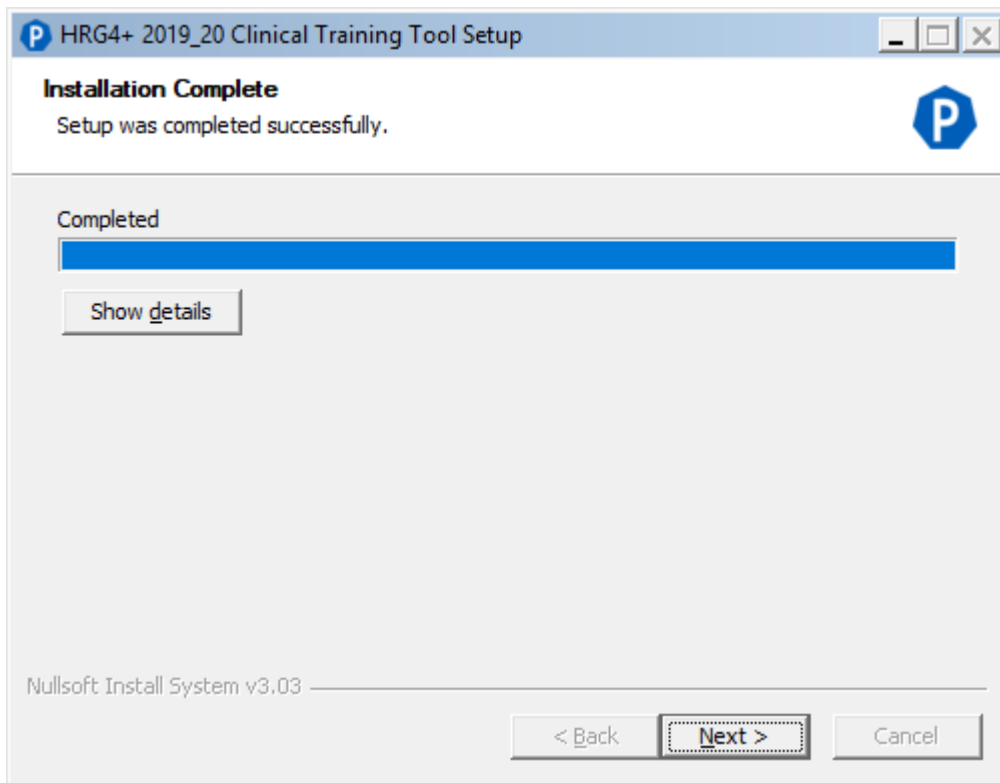


The next screen allows you to create a Clinical Training Tool shortcut in the **Start Menu** folder. This defaults to a folder called *NHS Digital*, which is recommended, but a user can change the folder name if they wish, or depending on administrative rights, select an existing folder.

There is also an option not to create a shortcut by ticking the **Do not create shortcuts** tick box.

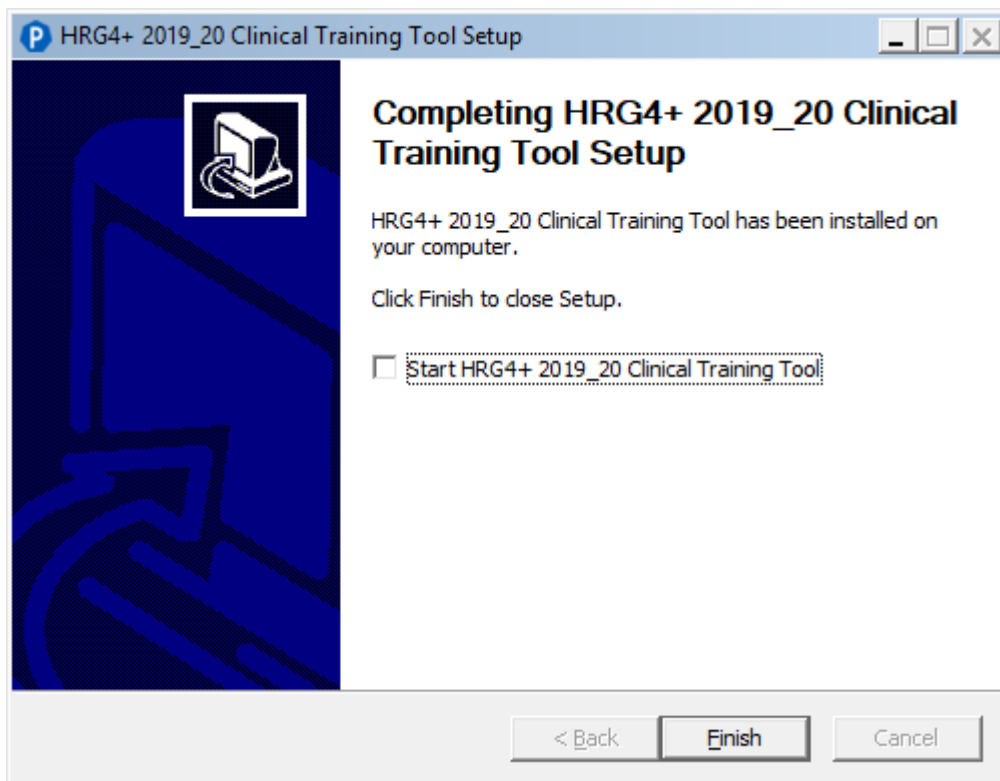
If at any point up to this stage you wish to alter any of the default or chosen file locations, you can use and navigate back through the process using the **<Back** button.

Once you have set a shortcut folder, click the **Install** button to complete the installation process.



The installation screen shows the progress of the installation. Once installation has completed click **Next**.

Users will then see the following screen, which confirms that the installation process is complete.





This final screen allows you to finish the installation process and close the installation wizard by clicking **Finish** or to open the Clinical Training Tool directly by ticking the **Start HRG4+ 2019_20 Clinical Training Tool** tick box followed by **Finish**.

In the above example, this will open the **HRG4+ 2019_20 Clinical Training Tool**, allowing you to immediately begin using the Clinical Training Tool.

Alternatively (or after pressing finish), the product can be opened from the shortcut link in the start menu or by clicking on the **GUIShell** icon (which is the Clinical Training Tool application) in the destination folder selected as part of the install.

Uninstalling the Clinical Training Tool

The Clinical Training Tool installation pack comes with an uninstall executable, i.e. Uninstall.exe.

Name	Date modified	Type	Size	File version
en	04/09/2019 13:22	File folder		
PluginData	04/09/2019 13:22	File folder		
Plugins	04/09/2019 13:22	File folder		
Sample Data	04/09/2019 13:22	File folder		
About.dll	17/01/2020 12:00	Application extens...	23 KB	1.1.69.0
GrouperAutocomplete.dll	17/01/2020 12:00	Application extens...	18 KB	1.3.2.0
GrouperBatchApi.dll	17/01/2020 12:00	Application extens...	77 KB	1.1.13.0
GrouperCSharpAPI.dll	17/01/2020 12:00	Application extens...	37 KB	1.6.0.0
GrouperDatabaseVersionAPI.dll	17/01/2020 12:00	Application extens...	16 KB	1.0.44.0
GrouperDescriptions.dll	17/01/2020 12:00	Application extens...	16 KB	1.0.7.0
GrouperRdfMappings.dll	17/01/2020 12:00	Application extens...	26 KB	1.0.6.0
GrouperSchemaReader.dll	17/01/2020 12:00	Application extens...	34 KB	1.0.5.0
 GUIShell.exe	17/01/2020 12:00	Application	419 KB	1.1.73.0
GUIShell.exe.config	17/01/2020 12:00	CONFIG File	4 KB	
HomeGUI.dll	17/01/2020 12:00	Application extens...	23 KB	1.1.69.0
msvcp120.dll	28/08/2019 15:47	Application extens...	645 KB	12.0.21005.1
msvcr120.dll	28/08/2019 15:47	Application extens...	941 KB	12.0.21005.1
Newtonsoft.Json.dll	28/08/2019 15:48	Application extens...	514 KB	9.0.1.19813
SharedGUIResources.dll	17/01/2020 12:00	Application extens...	600 KB	1.1.78.0
SingleSpellGUI.dll	17/01/2020 12:00	Application extens...	93 KB	1.1.78.0
System.Windows.Controls.Input.Toolkit.dll	28/08/2019 15:48	Application extens...	107 KB	3.5.50211.1
 Uninstall.exe	20/01/2020 07:35	Application	346 KB	1920.1.1.1
ViewerGUI.dll	17/01/2020 12:00	Application extens...	48 KB	1.1.68.0
WPFToolkit.dll	28/08/2019 15:48	Application extens...	457 KB	3.5.50211.1

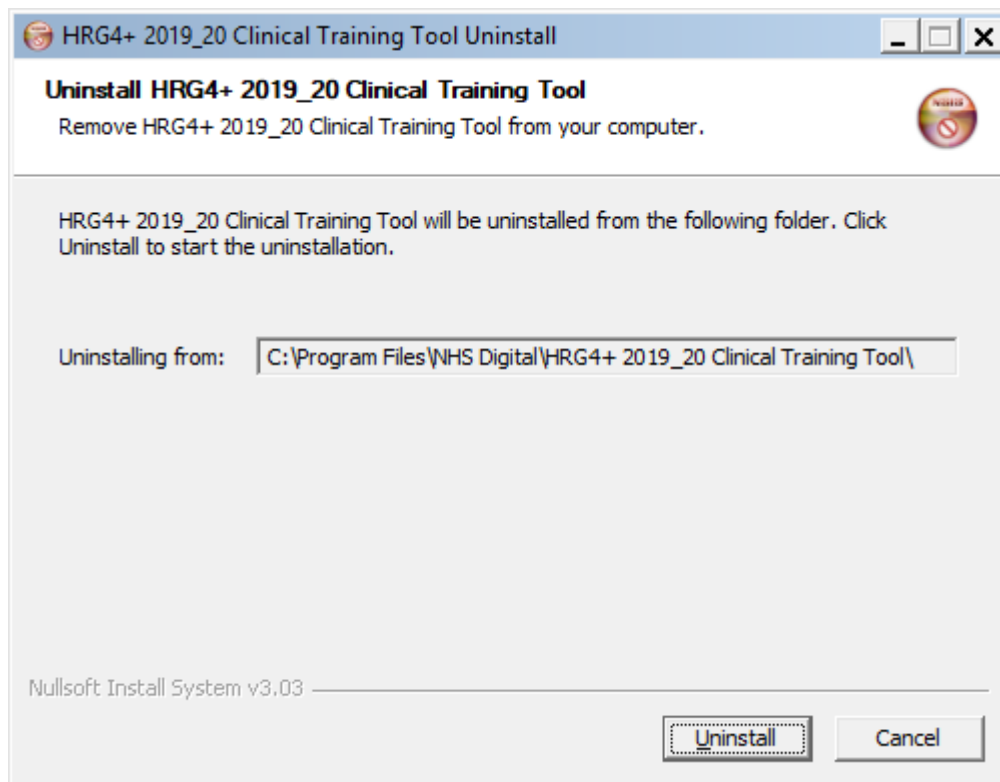
There is no need to uninstall the product if you are re-installing a fresh copy. Provided the file names have not been altered and the same destination folder is selected, the executable will overwrite the previous installation.

New products will similarly install as separate folders and will not affect previous products based on a different design.

If, however, you do need to uninstall the product, the only consideration before activating the Uninstall.exe is to ensure that the above files are contained within a distinct separate folder.

This only matters to users who have used the functionality to create bespoke destination locations or who have altered the names of the destination folders/file names or added files to the program file folder after the installation. In this circumstance, the files listed above need to be contained in a separate sub-folder before activating the uninstaller.

If you are ready to uninstall, simply double-click **Uninstall.exe**. This will bring up an uninstall dialogue box.

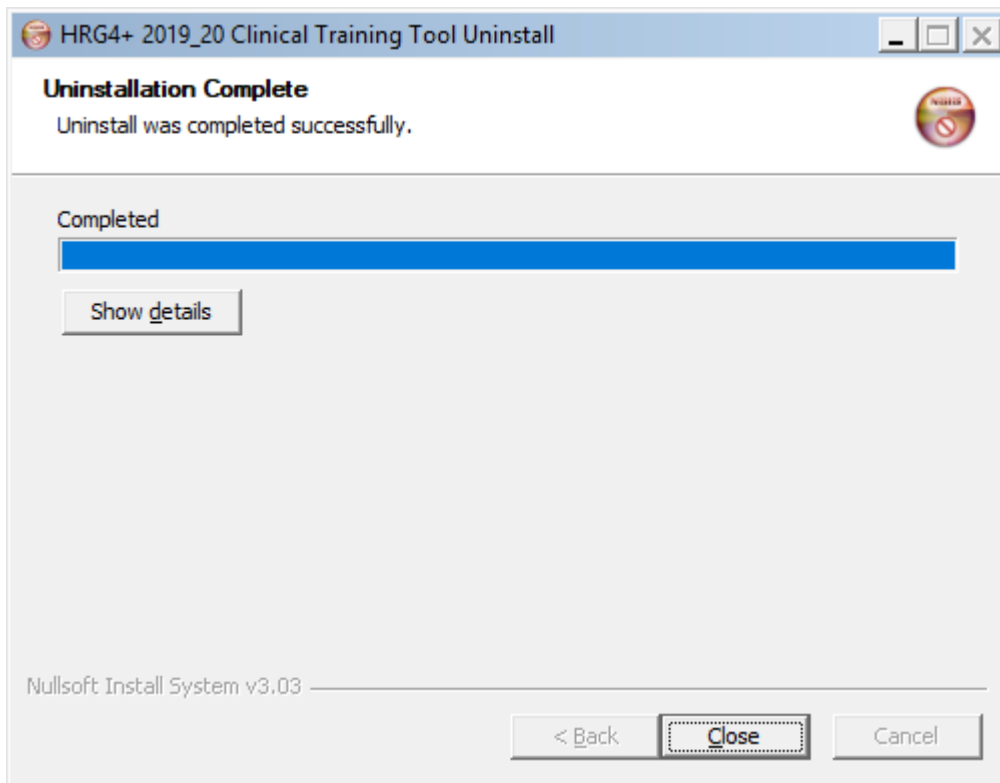


The uninstall screen confirms the folder and file path from which the software will be uninstalled.

Once you are happy that the folder and file path are correct, select **Uninstall**.

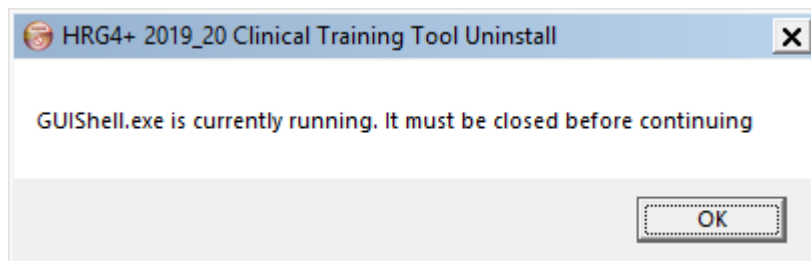
Whilst we strongly recommend that users use the default installation folder, we recognise that by giving users the flexibility to install the product as they wish, users may, in rare circumstances, wish to change the folder or file names, add files into the destination folders, or choose to not locate the Clinical Training Tool files in a distinct sub-folder location. In these circumstances, where a user has deviated from the default, the uninstallation process will not execute correctly. This can be resolved by ensuring the installation files are named as given above and are stored in a separate sub-folder, as per the standard install.

Any files remaining after the uninstallation process is complete will not have been created as part of the standard install or will have been altered. These legacy files/folders can be moved or individually deleted as deemed appropriate by the user.



The uninstallation screen shows the progress of the uninstallation. Once this process has completed, click **Close**.

If any of the Clinical Training Tool files are open during the uninstallation process, the uninstallation will be halted and the following message will be displayed.



To continue the uninstallation process, close all open Clinical Training Tool files and click **Ok** to restart the uninstallation process.



Clinical Training Tool Functionality

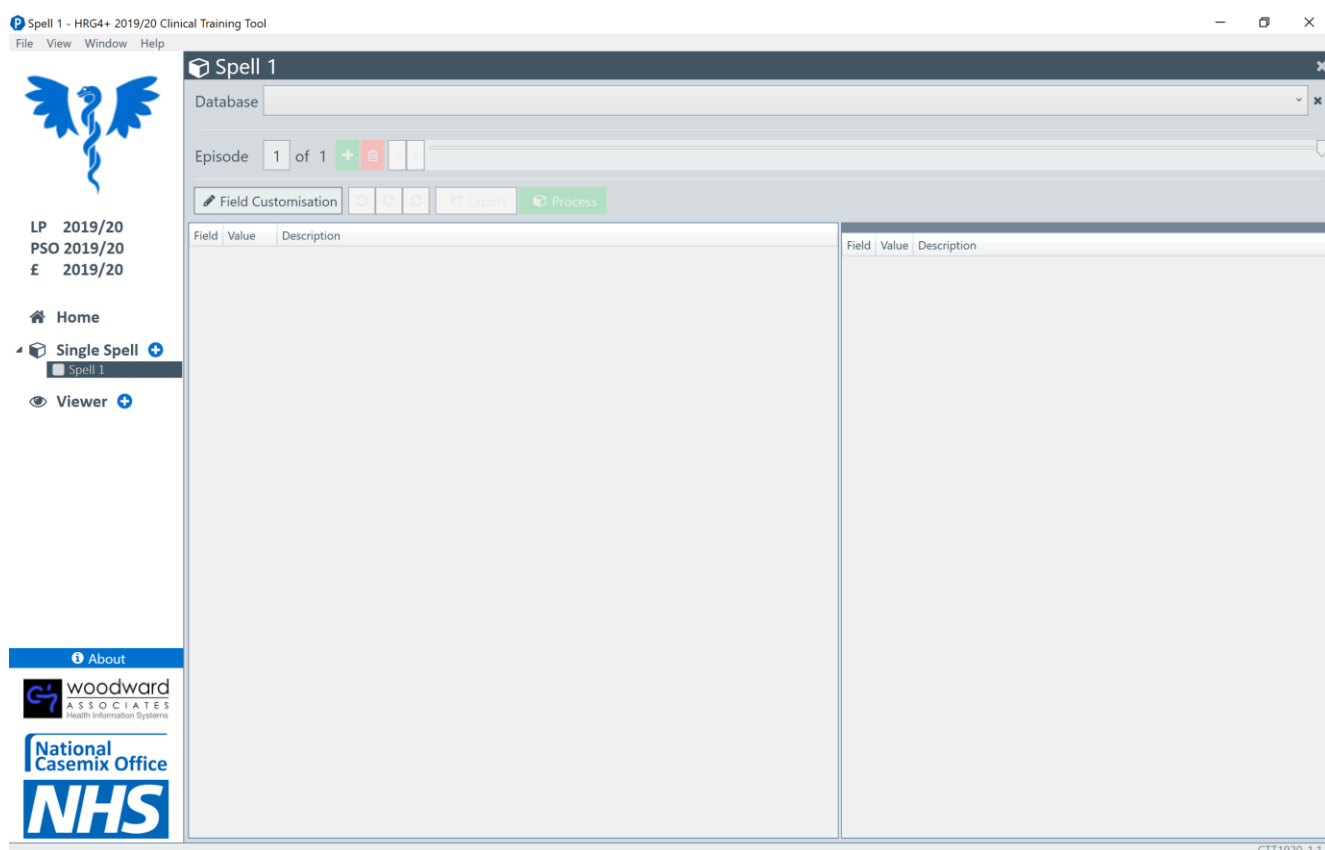
This section will explain the different functionality available to users in the Clinical Training Tool.

Single Spell Grouping

The Single Spell module is best used to help understand how outputs are derived for one particular spell or episode. By adding the input data manually, a user can see how the individual codes affect the output in real time. This can be useful when exploring how certain combinations of clinical codes lead to different HRGs being derived. It can also be useful to quickly find the descriptions of codes and ascertain which fields are mandatory (expressed in **bold text**).

Opening a Single Spell screen can be done in several ways:

- Select the  icon next to **Single Spell** on the navigation pane;
- Select the [Single Spell](#) title hyperlink or the  icon on the main home screen;
- Select **File** on the menu bar, then **New** and then **Single Spell**; or
- Use shortcut keys **Alt+S**.

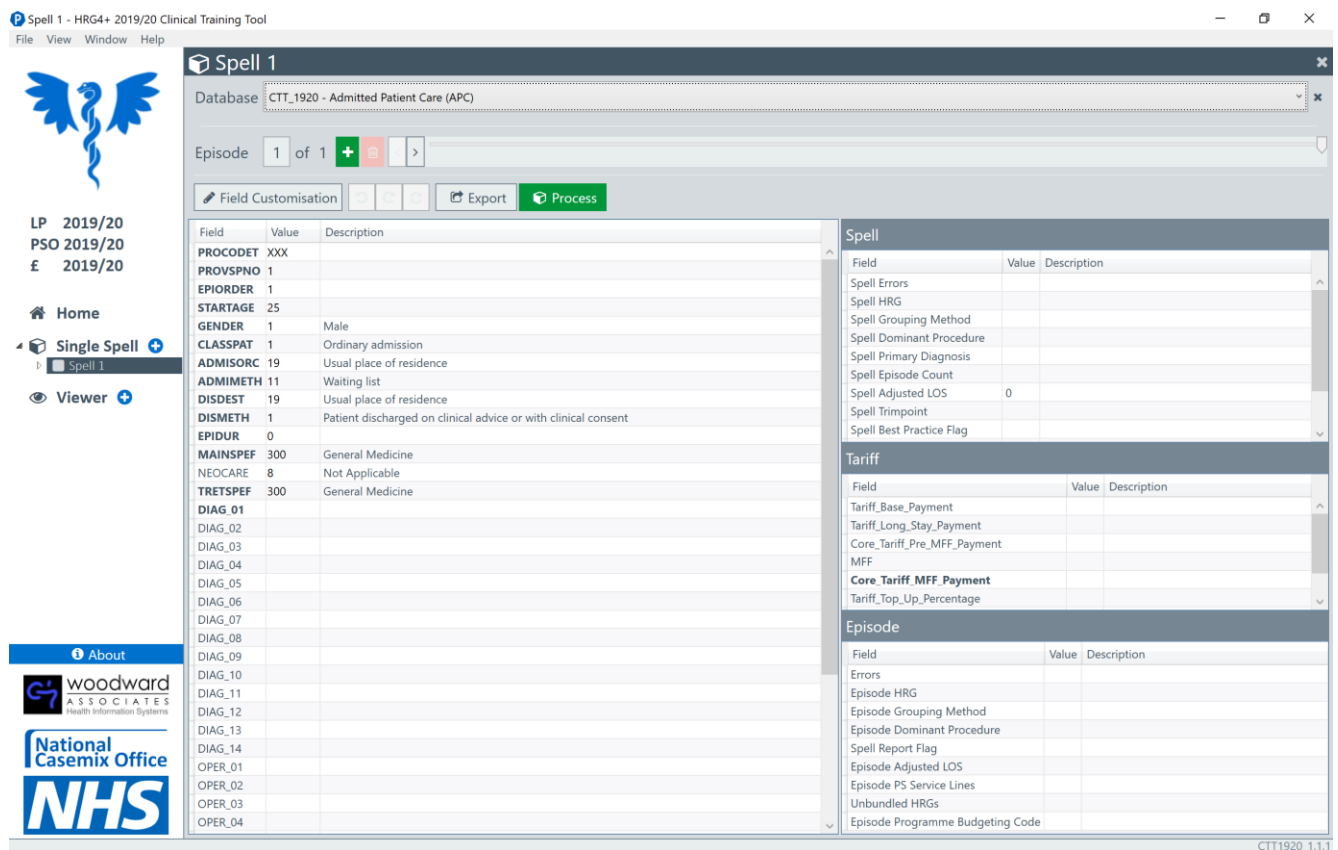


To create a record in Single Spell, select a database from the **Database** drop-down list, which will automatically populate the screen with a set of default input fields to allow a user to group data. There are seven databases to choose from which are:

- Admitted Patient Care (APC)

- Outpatient (OP)
- Emergency Medicine (EM)
- Adult Critical Care (ACC)
- Neonatal Critical Care (NCC)
- Paediatric Critical Care (PCC)
- National Renal Dataset (NRD)

Select **CTT_1920 – Admitted Patient Care (APC)** from the **Database** drop-down list and the Single Spell window will populate with a set of input fields.



When using Single Spell, it may be appropriate to increase or decrease the number of variable fields for a particular database. The **Field Customisation** allows users to easily increase and decrease certain fields within a given database.

Select the **Field Customisation** button and set the diagnosis and procedure fields to 20.

Spell 1 - HRG4+ 2020/21 Payment Grouper

File View Window Help

20/21

Home

Batch

Single Spell

RDF

Viewer

Field Customisation

Diagnosis 20

Procedure 20

Close

Database: P_2021 - Admitted Patient Care (APC)

Record Definition File: <Default RDF>

Episode: 1 of 1

Field Customisation

Code	Description
ADMISSORC 19	Usual place of residence
ADMIMETH 11	Waiting list
DISDEST 19	Usual place of residence
DISMETH 1	Patient discharged on clinical advice or with clinical consent
EPIDUR 0	
MAINSPEF 300	General Medicine
NEOCARE 8	Not Applicable
TRETSPEF 300	General Medicine
DIAG_01	
DIAG_02	
DIAG_03	
DIAG_04	
DIAG_05	
DIAG_06	
DIAG_07	
DIAG_08	
DIAG_09	
DIAG_10	
DIAG_11	
DIAG_12	
DIAG_13	
DIAG_14	
DIAG_15	
DIAG_16	

Spell

Field	Value	Description
SpellErrors		
SpellHRG		
SpellGroupingMethodFlag		
SpellDominantProcedure		
SpellPDiag		
SpellSDiag		
SpellEpisodeCount		
SpellLOS		
SpellCCDays		
SpellPBC		
SpellUnbundledHRGs		
SpellSSCs		
SpellBP		

Episode

Field	Value	Description
Errors		
FCE_HRG		
GroupingMethodFlag		
DominantProcedure		
FCE_PBC		
CalcEpidur		
SpellReportFlag		
UnbundledHRGs		
FCESSCs		

About

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P2021_1.0.0

Spell 1 - HRG4+ 2019/20 Clinical Training Tool

File View Window Help

LP 2019/20

PSO 2019/20

£ 2019/20

Home

Single Spell

Viewer

Field Customisation

Diagnosis 20

Procedure 20

Close

Database: CTT_1920 - Admitted Patient Care (APC)

Episode: 1 of 1

Field Customisation

Code	Description
ADMISSORC 19	Usual place of residence
ADMIMETH 11	Waiting list
DISDEST 19	Usual place of residence
DISMETH 1	Patient discharged on clinical advice or with clinical consent
EPIDUR 0	
MAINSPEF 300	General Medicine
NEOCARE 8	Not Applicable
TRETSPEF 300	General Medicine
DIAG_01	
DIAG_02	
DIAG_03	
DIAG_04	
DIAG_05	
DIAG_06	
DIAG_07	
DIAG_08	
DIAG_09	
DIAG_10	
DIAG_11	
DIAG_12	
DIAG_13	
DIAG_14	
DIAG_15	
DIAG_16	
DIAG_17	
DIAG_18	

Spell

Field	Value	Description
Spell Errors		
Spell HRG		
Spell Grouping Method		
Spell Dominant Procedure		
Spell Primary Diagnosis		
Spell Episode Count		
Spell Adjusted LOS	0	
Spell Trimpoint		
Spell Best Practice Flag		

Tariff

Field	Value	Description
Tariff_Base_Payment		
Tariff_Long_Stay_Payment		
Core_Tariff_Pre_MFF_Payment		
MFF		
Core_Tariff_MFF_Payment		
Tariff_Top_Up_Percentage		

Episode

Field	Value	Description
Errors		
Episode HRG		
Episode Grouping Method		
Episode Dominant Procedure		
Spell Report Flag		
Episode Adjusted LOS		
Episode PS Service Lines		
Unbundled HRGs		
Episode Programme Budgeting Code		

About

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CTT1920_1.1.1

The input window should now display 20 diagnosis fields and 20 procedure fields.

The screenshot shows the 'Spell 1' application window. The main area contains a table with columns 'Field', 'Value', and 'Description'. The table lists various clinical codes and their descriptions. To the right, there are three summary panels: 'Spell', 'Tariff', and 'Episode', each with its own table of values and descriptions. The 'Spell' panel shows 'Spell Adjusted LOS' as 0. The 'Tariff' panel shows 'Core Tariff MFF Payment'. The 'Episode' panel shows 'Episode Adjusted LOS'. The interface includes a top menu bar, a left sidebar with navigation options like 'Home', 'Single Spell', and 'Viewer', and a bottom status bar with the text 'CTT1920_1.1.1'.

Field	Value	Description
DISMETH	1	Patient discharged on clinical advice or with clinical consent
EPIDUR	0	
MAINSPEF	300	General Medicine
NEOCARE	8	Not Applicable
TRETSPEF	300	General Medicine
DIAG_01		
DIAG_02		
DIAG_03		
DIAG_04		
DIAG_05		
DIAG_06		
DIAG_07		
DIAG_08		
DIAG_09		
DIAG_10		
DIAG_11		
DIAG_12		
DIAG_13		
DIAG_14		
DIAG_15		
DIAG_16		
DIAG_17		
DIAG_18		
DIAG_19		
DIAG_20		
OPER_01		
OPER_02		
OPER_03		
OPER_04		
OPER_05		
OPER_06		
OPER_07		

When a Database is selected, certain fields in the input window are already populated with useful values to save some data input effort, but users can edit these values and populate other fields as appropriate.

Particular input fields contain an auto-complete function, meaning that when a user starts typing in the cell, a list of 10 relevant codes will be displayed along with their description. If a user continues to type in the input cell, the list of codes will narrow based on pattern matching.

In the **Diag_01** value cell, type “N”. You will see a list of 10 possible values appear, which a user can choose from.

Spell 1 - HRG4+ 2019/20 Clinical Training Tool

Database: CTT_1920 - Admitted Patient Care (APC)

Episode: 1 of 1

Field Customisation | Export | Process

Field	Value	Description
PROCODET	XXX	
PROVSPNO	1	
EPIORDER	1	
STARTAGE	25	
GENDER	1	Male
CLASSPAT	1	Ordinary admission
ADMISORC	19	Usual place of residence
ADMIMETH	11	Waiting list
DISDEST	19	Usual place of residence
DISMETH	1	Patient discharged on clinical advice or with clinical consent
EPIDUR	0	
MAINSPEF	300	General Medicine
NEOCARE	8	Not Applicable
TRETSPEF	300	General Medicine
DIAG 01	N000	

Spell

Field	Value	Description
Spell Errors		
Spell HRG		
Spell Grouping Method		
Spell Dominant Procedure		
Spell Primary Diagnosis		
Spell Episode Count		
Spell Adjusted LOS	0	
Spell Trimpoint		
Spell Best Practice Flag		

Tariff

Field	Value	Description
Tariff_Base_Payment		
Tariff_Long_Stay_Payment		
Core_Tariff_Pre_MFF_Payment		
MFF		
Core_Tariff_MFF_Payment		
Tariff_Top_Up_Percentage		

Episode

Field	Value	Description
Errors		
Episode HRG		
Episode Grouping Method		
Episode Dominant Procedure		
Spell Report Flag		
Episode Adjusted LOS		
Episode PS Service Lines		
Unbundled HRGs		
Episode Programme Budgeting Code		

CTT1920_1.1.1

After “N”, type “0” and the list of 10 options will alter to possible values starting with “NO”.

Spell 1 - HRG4+ 2019/20 Clinical Training Tool

Database: CTT_1920 - Admitted Patient Care (APC)

Episode: 1 of 1

Field Customisation | Export | Process

Field	Value	Description
PROCODET	XXX	
PROVSPNO	1	
EPIORDER	1	
STARTAGE	25	
GENDER	1	Male
CLASSPAT	1	Ordinary admission
ADMISORC	19	Usual place of residence
ADMIMETH	11	Waiting list
DISDEST	19	Usual place of residence
DISMETH	1	Patient discharged on clinical advice or with clinical consent
EPIDUR	0	
MAINSPEF	300	General Medicine
NEOCARE	8	Not Applicable
TRETSPEF	300	General Medicine
DIAG 01	N0	

Spell

Field	Value	Description
Spell Errors		
Spell HRG		
Spell Grouping Method		
Spell Dominant Procedure		
Spell Primary Diagnosis		
Spell Episode Count		
Spell Adjusted LOS	0	
Spell Trimpoint		
Spell Best Practice Flag		

Tariff

Field	Value	Description
Tariff_Base_Payment		
Tariff_Long_Stay_Payment		
Core_Tariff_Pre_MFF_Payment		
MFF		
Core_Tariff_MFF_Payment		
Tariff_Top_Up_Percentage		

Episode

Field	Value	Description
Errors		
Episode HRG		
Episode Grouping Method		
Episode Dominant Procedure		
Spell Report Flag		
Episode Adjusted LOS		
Episode PS Service Lines		
Unbundled HRGs		
Episode Programme Budgeting Code		

CTT1920_1.1.1

Select value “N000” (Acute nephritic syndrome: Minor glomerular abnormality). Once selected, the input values will automatically process and produce outputs in the Spell, Tariff and Episode windows.

Spell 1 - HRG4+ 2019/20 Clinical Training Tool

Database: CTT_1920 - Admitted Patient Care (APC)

Episode: 1 of 1

Field	Value	Description
PROCODET	XXX	
PROVSPNO	1	
EPIORDER	1	
STARTAGE	25	
GENDER	1	Male
CLASSPAT	1	Ordinary admission
ADMISORC	19	Usual place of residence
ADMIMETH	11	Waiting list
DISDEST	19	Usual place of residence
DISMETH	1	Patient discharged on clinical advice or with clinical consent
EPIDUR	0	
MAINSPEF	300	General Medicine
NEOCARE	8	Not Applicable
TRETSPEF	300	General Medicine
DIAG_01	N000	Acute nephritic syndrome: Minor glomerular abnormality
DIAG_02		
DIAG_03		
DIAG_04		
DIAG_05		
DIAG_06		
DIAG_07		
DIAG_08		
DIAG_09		
DIAG_10		
DIAG_11		
DIAG_12		
DIAG_13		
DIAG_14		
DIAG_15		
DIAG_16		
DIAG_17		
DIAG_18		

Field	Value	Description
SpellErrors		
Spell HRG	LA09Q	General Renal Disorders without Interventions, with
Spell Grouping Method	D	Diagnosis driven
Spell Dominant Procedure		
Spell Primary Diagnosis	N000	Acute nephritic syndrome: Minor glomerular abnor
Spell Episode Count	1	
Spell Adjusted LOS	0	
Spell Trimpont	5	
Spell Best Practice Flag		

Field	Value	Description
Tariff_Base_Payment	£441.00	
Tariff_Long_Stay_Payment	£0.00	
Core_Tariff_Pre_MFF_Payment	£441.00	
MFF	1	
Core_Tariff_MFF_Payment	£441.00	
Tariff_Top_Up_Percentage		

Field	Value	Description
Errors		
Episode HRG	LA09Q	General Renal Disorders without Interventi
Episode Grouping Method	D	Diagnosis driven
Episode Dominant Procedure		
Spell Report Flag	1	
Episode Adjusted LOS	0	
Episode PS Service Lines		
Unbundled HRGs		
Episode Programme Budgeting Code	PBC0217B	Renal Problems

Now add code “X411” (Insertion of ambulatory peritoneal dialysis catheter) to the OPER_01 value cell.

Spell 1 - HRG4+ 2019/20 Clinical Training Tool

Database: CTT_1920 - Admitted Patient Care (APC)

Episode: 1 of 1




Field	Value	Description
MAINSPEF	300	General Medicine
NEOCARE	8	Not Applicable
TRETSPEF	300	General Medicine
DIAG_01	N000	Acute nephritic syndrome: Minor glomerular abnormality
DIAG_02		
DIAG_03		
DIAG_04		
DIAG_05		
DIAG_06		
DIAG_07		
DIAG_08		
DIAG_09		
DIAG_10		
DIAG_11		
DIAG_12		
DIAG_13		
DIAG_14		
DIAG_15		
DIAG_16		
DIAG_17		
DIAG_18		
DIAG_19		
DIAG_20		
OPER_01	X411	Insertion of ambulatory peritoneal dialysis catheter
OPER_02		
OPER_03		
OPER_04		
OPER_05		
OPER_06		
OPER_07		
OPER_08		
OPER_09		

Field	Value	Description
SpellErrors		
Spell HRG	LA05Z	Renal Replacement Peritoneal Dialysis Associated P
Spell Grouping Method	P	Procedure driven
Spell Dominant Procedure	X411	Insertion of ambulatory peritoneal dialysis catheter
Spell Primary Diagnosis	N000	Acute nephritic syndrome: Minor glomerular abnor
Spell Episode Count	1	
Spell Adjusted LOS	0	
Spell Trimpont	5	
Spell Best Practice Flag		

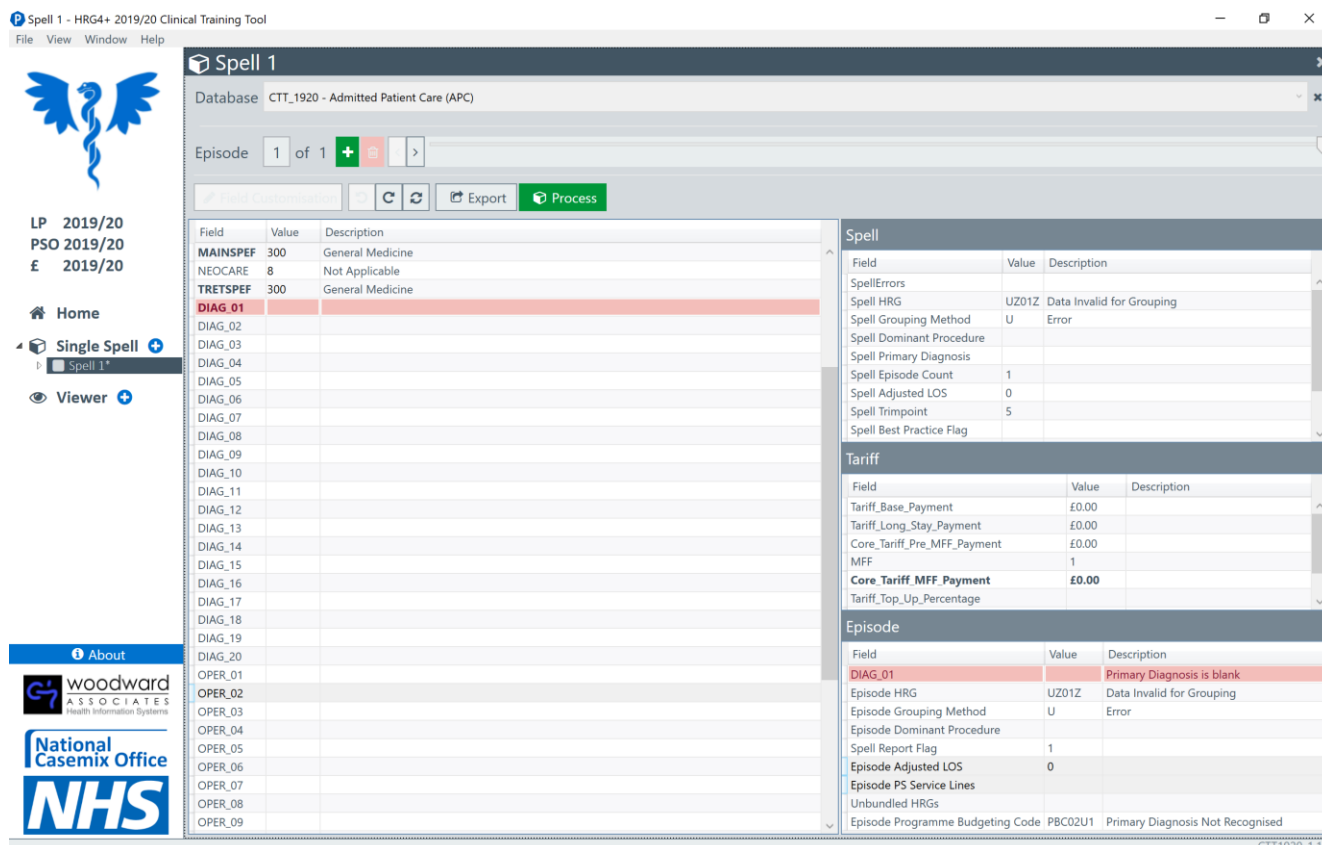
Field	Value	Description
Tariff_Base_Payment	£1,078.00	
Tariff_Long_Stay_Payment	£0.00	
Core_Tariff_Pre_MFF_Payment	£1,078.00	
MFF	1	
Core_Tariff_MFF_Payment	£1,078.00	
Tariff_Top_Up_Percentage		

Field	Value	Description
Errors		
Episode HRG	LA05Z	Renal Replacement Peritoneal Dialysis Assc
Episode Grouping Method	P	Procedure driven
Episode Dominant Procedure	X411	Insertion of ambulatory peritoneal dialysis
Spell Report Flag	1	
Episode Adjusted LOS	0	
Episode PS Service Lines		
Unbundled HRGs		
Episode Programme Budgeting Code	PBC0217B	Renal Problems

Once entered, the Spell, Tariff and Episode outputs change from it being a diagnosis-driven grouping to procedure-driven grouping.

In certain circumstances, a user may want to undo or redo an action performed in Single Spell. To undo a particular action, click the undo  icon or use the shortcut keys **Ctrl+Z**. To redo a previous action, click the redo  icon or use the shortcut keys **Ctrl+Y**. The undo and redo buttons store up to a maximum of 5 changes. Where a user makes a number of changes to the input values in the Single Spell window and wants to return to the values when Single Spell was first opened, then selecting the Reset button  will reset the Single Spell window back to its default values for a specific database.

Select the undo icon and the value “**X411**” is removed from the value field of OPER_01. Selecting the undo icon again will remove the value “**N000**” from DIAG_01, which causes the error message “Primary Diagnosis is blank” to be generated.



Select the redo icon and the value “**N000**” is re-populated in the value field of DIAG_01. Select the redo icon again and the value “**X411**” is re-populated in the value field of OPER_01.

For particular fields in Single Spell, there is “Drag and Drop” functionality, which allows users to drag a particular value from one field to another. The following fields contain the “Drag and Drop” facility:

APC – Diagnosis and Procedure fields

OP – Procedure fields

EM – Investigation and Treatment fields

PCC – Critical Care Activity Code, Diagnosis and Procedure fields

NCC – Critical Care Activity Code fields

Enter the procedure code “**X428**” (Other specified placement of other apparatus for compensation for renal failure) into the OPER_02 value field and “**T122**” (Drainage of pleural cavity NEC) into the OPER_03 value field.

Click in the OPER_03 value field and highlight the value **T122**.

The screenshot shows the 'Spell 1' window with the following data:

Field	Value	Description
MAINSPEF	300	General Medicine
NEOCARE	8	Not Applicable
TRETSPEF	300	General Medicine
DIAG_01	N000	Acute nephritic syndrome: Minor glomerular abnormality
DIAG_02		
DIAG_03		
DIAG_04		
DIAG_05		
DIAG_06		
DIAG_07		
DIAG_08		
DIAG_09		
DIAG_10		
DIAG_11		
DIAG_12		
DIAG_13		
DIAG_14		
DIAG_15		
DIAG_16		
DIAG_17		
DIAG_18		
DIAG_19		
DIAG_20		
OPER_01	X411	Insertion of ambulatory peritoneal dialysis catheter
OPER_02	X428	Other specified placement of other apparatus for compensation for renal failure
OPER_03	T122	Drainage of pleural cavity NEC
OPER_04		
OPER_05		
OPER_06		
OPER_07		
OPER_08		
OPER_09		

Field	Value	Description
Spell HRG	LA05Z	Renal Replacement Peritoneal Dialysis Associated P
Spell Grouping Method	P	Procedure driven
Spell Dominant Procedure	X411	Insertion of ambulatory peritoneal dialysis catheter
Spell Primary Diagnosis	N000	Acute nephritic syndrome: Minor glomerular abnor
Spell Episode Count	1	
Spell Adjusted LOS	0	
Spell Trimpoint	5	
Spell Best Practice Flag		

Field	Value	Description
Tariff_Base_Payment	£1,078.00	
Tariff_Long_Stay_Payment	£0.00	
Core_Tariff_Pre_MFF_Payment	£1,078.00	
MFF	1	
Core_Tariff_MFF_Payment	£1,078.00	
Tariff_Top_Up_Percentage		

Field	Value	Description
Errors		
Episode HRG	LA05Z	Renal Replacement Peritoneal Dialysis Assc
Episode Grouping Method	P	Procedure driven
Episode Dominant Procedure	X411	Insertion of ambulatory peritoneal dialysis
Spell Report Flag	1	
Episode Adjusted LOS	0	
Episode PS Service Lines		
Unbundled HRGs		
Episode Programme Budgeting Code	PBC0217B	Renal Problems

Using the cursor, select the actual value “**T122**” (highlighted blue) and drag it to the OPER_01 value field and drop it.

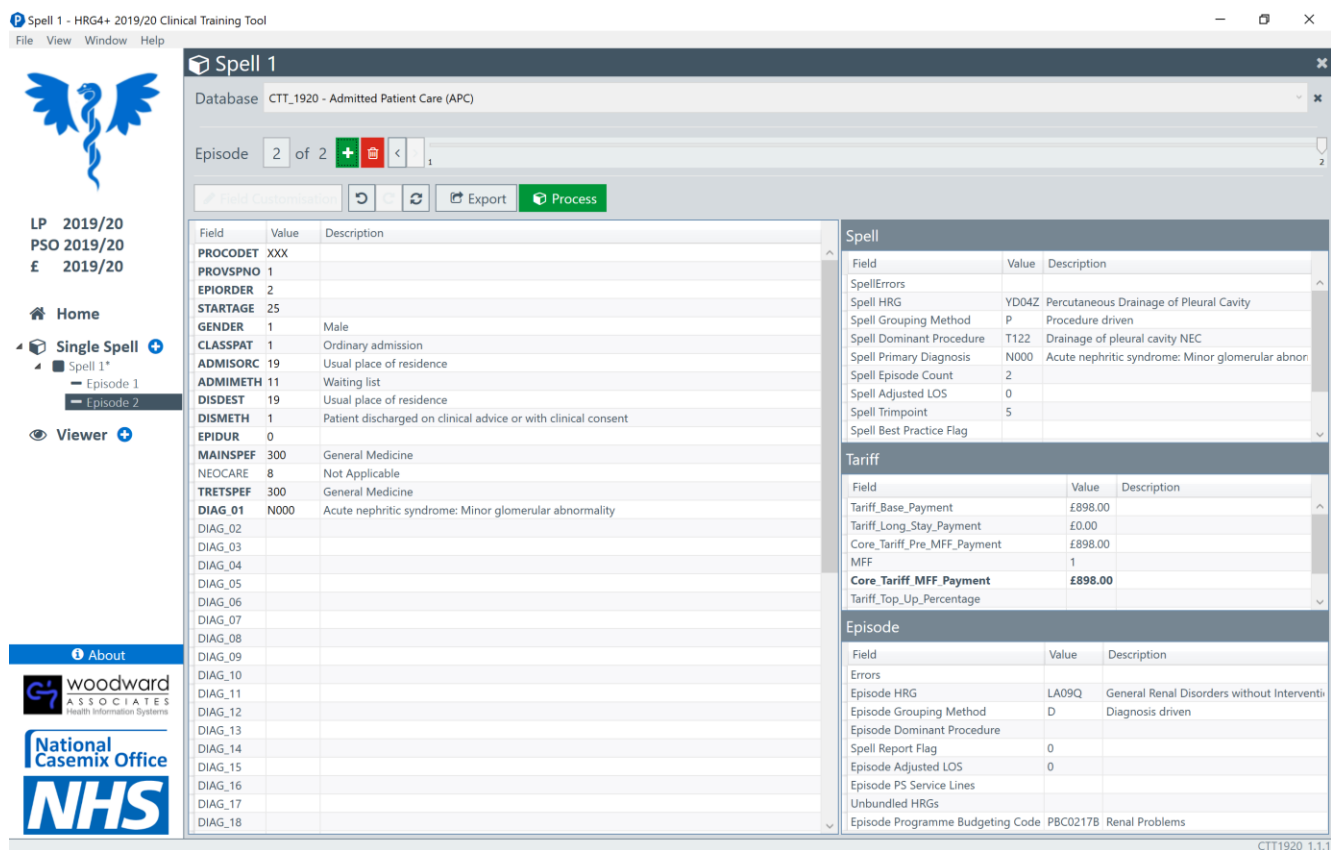
The OPER_01 value (X411) moves to OPER_02 and the OPER_02 value (X428) moves to the OPER_03.

When values are moved, Single Spell automatically re-processes the data, so in this example **T122** (Drainage of pleural cavity NEC) becomes the dominant procedure code, resulting in the information in the Spell, Tariff and Episode output windows changing. Previously, the Spell and Episode HRG was **LA05Z Renal Replacement Peritoneal Dialysis Associated Procedures** which attracted at Tariff_Base_Payment of **£1,078.00**, but Spell and Episode HRG has now changed to **YD04Z Percutaneous Drainage of Pleural Cavity** and the Tariff_Base_Payment has changed to **£898.00** as a result of the change in dominant procedure.

For some of the databases, such as Admitted Patient Care, it is possible to build up a spell consisting of multiple episodes. Additional episodes can be added by clicking the **+** icon on the Single Spell window or by right-clicking on the particular Spell in the navigation pane and selecting **New Episode**. Databases that do not support additional episodes will have this functionality disabled.

Add a new episode to the current Spell by clicking the **+** icon on the Single Spell window.

A new Episode window will open and certain information from the previous episode will be brought forward. This does not include non-primary diagnosis codes or procedure codes.



When the second episode is added, it automatically re-processes the input values again, and depending on the information in the episodes, the information in the Spell, Tariff and Episode windows may change.

A user can navigate between different episodes within a Spell by either clicking on the **Episode** numbers in the navigation pane, entering a specific episode number in the **Episode Number box** or by using the **Slider bar**.

Single Spell allows information from other sources to be copied and pasted directly into the Single Spell window.

The first way of copying information from an application such as Excel is to select a row of data from a file, along with header information, and paste it directly into the Single Spell window.

This is known as “**smart pasting**”, and it uses the header information to identify which cells to paste the information into. This is a useful way of pasting information into Single Spell where the input fields in the Single Spell window are in a different order to the data being copied. The disadvantage to this method of copying and pasting is that the headers from where the data is being copied must be named exactly the same as the field names in the Single Spell window.

Open a new Single Spell window and select **CTT_1920 – Admitted Patient Care (APC)** from the **Database** drop-down box.

Go to the HRG4+ Admitted Patient Care Sample Test Data.csv file and open it.

Select the header row and the first line of data and copy:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	PROCODE	PROVSPNO	EPIORDEF	STARTAGI	SEX	CLASSPA	ADMISOR	ADMIMETH	DISDEST	DISMETH	EPIDUR	MAINSPEF	NEOCARE	TRETSPEF	DIAG_01	DIAG_02	DIAG_03	DIAG_04	DIAG_05
2	ZZZ	1004595488	1	68	1	1	51	81	19	1	13	430	8	430	R13X	Z501	I209	E119	Z951
3	ZZZ	1004595489	1	90	2	1	51	81	19	1	30	430	8	430	S3250	Z501	S700	M1999	M8199
4	ZZZ	1004595490	1	85	2	1	51	81	19	1	15	430	8	430	S4240	S799	Z501	I951	E871
5	ZZZ	1004595491	1	80	2	1	51	81	19	1	45	430	8	430	M511	G551	Z501	I10X	D759

Go back to the newly opened APC Single Spell window, click anywhere in the Single Spell input window, right-click and select Paste. Alternatively, using the shortcut keys **Ctrl + V** will paste the information into the Single Spell input window.

A user can copy a row of data or a particular column of codes from applications such as Excel and paste them straight into a Single Spell window. Single Spell will recognise a string of codes and paste them appropriately, transposing a row of codes automatically. This is the simplest way of pasting values into the Single Spell window, but it requires the user knowing the correct position to start pasting the copied values, otherwise errors are likely to be generated.

Open a new Single Spell window and select **CTT_1920 – Admitted Patient Care (APC)** from the **Database** drop-down box.

Go to the HRG4+ Admitted Patient Care Sample Test Data.csv file and open it.


Select the second line of data and copy:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	PROCODE	PROVSPNO	EPIORDEF	STARTAGI	SEX	CLASSPA	ADMISOR	ADMIMETH	DISDEST	DISMETH	EPIDUR	MAINSPEF	NEOCARE	TRETSPEF	DIAG_01	DIAG_02	DIAG_03	DIAG_04	DIAG_05
2	ZZZ	1004595488	1	68	1	1	51	81	19	1	13	430	8	430	R13X	Z501	I209	E119	Z951
3	ZZZ	1004595489	1	90	2	1	51	81	19	1	30	430	8	430	S3250	Z501	S700	M1999	M8199
4	ZZZ	1004595490	1	85	2	1	51	81	19	1	15	430	8	430	S4240	S799	Z501	I951	E871
5	ZZZ	1004595491	1	80	2	1	51	81	19	1	45	430	8	430	M511	G551	Z501	I10X	D759

Go back to the newly opened APC Single Spell window, right-click on the PROCODE field name and select Paste. Alternatively, using the shortcut keys **Ctrl + V** will paste the information into the Single Spell input window.

Spell 1 - HRG4+ 2019/20 Clinical Training Tool

File View Window Help






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Home

Single Spell +
Spell 1*

Viewer +

About

Database: CTT_1920 - Admitted Patient Care (APC)

Episode: 1 of 1

Field Customisation Export Process

Field	Value	Description
PROCODET	ZZZ	
PROVSPNO	1004595489	
EPIORDER	1	
STARTAGE	90	
GENDER	2	Female
CLASSPAT	1	Ordinary admission
ADMISORC	51	NHS other hospital provider - ward for general patients or the younger physically disabled or /
ADMIMETH	81	Transfer of any admitted PATIENT from other Hospital Provider other than in an emergency
DISDEST	19	Usual place of residence
DISMETH	1	Patient discharged on clinical advice or with clinical consent
EPIDUR	30	
MAINSPEF	430	Geriatric Medicine
NEOCARE	8	Not Applicable
TRETSPEF	430	Geriatric Medicine
DIAG_01	S3250	Fracture of pubis: closed
DIAG_02	Z501	Other physical therapy
DIAG_03	S700	Contusion of hip
DIAG_04	M1999	Arthritis, unspecified: Site unspecified
DIAG_05	M8199	Osteoporosis, unspecified: Site unspecified
DIAG_06	I10X	Essential (primary) hypertension
DIAG_07	Z850	Personal history of malignant neoplasm of digestive organs
DIAG_08	Z933	Colostomy status
DIAG_09	Z602	Living alone
DIAG_10		
DIAG_11		
DIAG_12		
DIAG_13		
DIAG_14		
OPER_01	U508	Other specified rehabilitation for musculoskeletal disorders
OPER_02		
OPER_03		
OPER_04		

Spell

Field	Value	Description
SpellErrors		
Spell HRG	HE11H	Hip Fracture without Interventions, with CC Score
Spell Grouping Method	D	Diagnosis driven
Spell Dominant Procedure		
Spell Primary Diagnosis	S3250	Fracture of pubis: closed
Spell Episode Count	1	
Spell Adjusted LOS	30	
Spell Trimpoint	30	
Spell Best Practice Flag		

Tariff

Field	Value	Description
Tariff_Base_Payment	£2,131.00	
Tariff_Long_Stay_Payment	£0.00	
Core_Tariff_Pre_MFF_Payment	£2,131.00	
MFF	1	
Core_Tariff_MFF_Payment	£2,131.00	
Tariff_Top_Up_Percentage		

Episode

Field	Value	Description
Errors		
Episode HRG	HE11H	Hip Fracture without Interventions, with CC
Episode Grouping Method	D	Diagnosis driven
Episode Dominant Procedure		
Spell Report Flag	1	
Episode Adjusted LOS	30	
Episode PS Service Lines		
Unbundled HRGs	VC24Z*1	
Episode Programme Budgeting Code	PBC0216X	Problems due to Trauma and Injuries

CTT1920_1.1.1

Single Spell also contains functions to allow users to copy or save information from Single Spell windows. This is useful if the information from single spell is needed for future use or is required for other purposes.

There are three different methods for copying information from Single Spell windows:

- **Copy (Ctrl+C)** – this will copy data in a transposed comma delimited format (CSV) for use in creating input files;
- **Copy Excel (Ctrl+Shift+C)** – this will copy data in a transposed tab delimited format (TSV) for use with Excel and other external editors; and
- **Copy with descriptions (Ctrl+Alt+C)** – this copies a Single Spell table in a tab delimited format (TSV), preserving the layout and descriptions for use in Excel and other editors.

Single Spell also contains an **Export** button that allows information from the Single Spell window to be saved as a HTML or CSV file type. When saved as a HTML file type, the information is output in a similar layout to the Single Spell window, meaning the information can be printed in a structured format.

Following on from the previous copy and paste example, select the **Export** button on the Single Spell window. The **Save As** dialog box will appear, prompting the user to give the HTML file a name. Select an appropriate location and type `single_spell_apc_html` (or anything similarly appropriate) in the **File name** box and click **Save**. The HTML file will automatically open in your default web browser and display the information from the Single Spell window in a similar format.

Episode 1					
Input			Spell Output		
Field	Value	Description	Field	Value	Description
PROCODET	ZZZ		SpellErrors		
PROVSPNO	1004595489		Spell HRG	HE11H	Hip Fracture without Interventions, with CC Score 0-3
EPIORDER	1		Spell Grouping Method	D	Diagnosis driven
STARTAGE	90		Spell Dominant Procedure		
GENDER	2	Female	Spell Primary Diagnosis	S3250	Fracture of pubis: closed
CLASSPAT	1	Ordinary admission	Spell Episode Count	1	
ADMISORC	51	NHS other hospital provider - ward for general patients or the younger physically disabled or A & E department	Spell Adjusted LOS	30	
ADMIMETH	81	Transfer of any admitted PATIENT from other Hospital Provider other than in an emergency	Spell Trimpoint	30	
DISDEST	19	Usual place of residence	Spell Best Practice Flag		
DISMETH	1	Patient discharged on clinical advice or with clinical consent	Spell Specialised Service Flag		
EPIDUR	30		Spell Unbundled HRGs	VC24Z*1	
MAINSPEF	430	Geriatric Medicine	Spell Programme Budgeting Code	PBC0216X	Problems due to Trauma and Injuries
NEOCARE	8	Not Applicable			
TRETSPEF	430	Geriatric Medicine			
DIAG_01	S3250	Fracture of pubis: closed			
DIAG_02	Z501	Other physical therapy			
DIAG_03	S700	Contusion of hip			
DIAG_04	M1999	Arthrosis, unspecified: Site unspecified			
DIAG_05	M8199	Osteoporosis, unspecified: Site unspecified			
DIAG_06	I10X	Essential (primary) hypertension			
DIAG_07	Z850	Personal history of malignant neoplasm of digestive organs			
DIAG_08	Z933	Colostomy status			
DIAG_09	Z602	Living alone			
DIAG_10					


Outputting information from Single Spell to an HTML file format also allows users to print the information when necessary. To print, right-click in the top blue bar named “**Episode 1**” and select **Print**.


In addition to saving information from Single Spell as an HTML file type, a user can use the **Export** button to save it as a CSV file type. When saved as a CSV file type, the information is transposed, along with headers, in a format needed for grouping purposes.

Using the same Single Spell window, select the **Export** button. The **Save As** dialog box will appear, prompting the user to give the CSV file a name. Change the **Save as type** to .csv (by default this is set to html). Select an appropriate location and type `single_spell_apc_csv` (or anything similarly appropriate) in the **File name** box and click **Save**. Navigate to the file location and open.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	SingleSpell	PROCODET	PROVSPNO	EPIORDEF	STARTAGE	SEX	CLASSPAT	ADMISORC	ADMIMETH	DISDEST	DISMETH	EPIDUR	MAINSPEF	NEOCARE	TRETSPEF	DIAG_01	DIAG_02	DIAG_03	DIAG_04	DIAG_05
2	Spell 1: Ep	ZZZ	1E+09	1	90	2	1	51	81	19	1	30	430	8	430	S3250	Z501	S700	M1999	M8199

The information is displayed in a format that can be used for grouping purposes.

Episodes can be deleted by either using the  icon or by right-clicking on an episode in the navigation pane and selecting **Delete Episode**. To close the entire Spell, right-click on the relevant Spell number in the navigation pane and select **Close**.

Delete Episode 2 from Spell 1 by clicking the  icon on the Single Spell window.

Any errors are highlighted in red in both the Input and Output sections.

The screenshot shows the 'Spell 1' interface. The main table on the left has columns 'Field', 'Value', and 'Description'. The 'GENDER' row is highlighted in red, with a red circle around it. The right-hand pane is divided into three sections: 'Spell', 'Tariff', and 'Episode'. The 'Episode' section also has a red circle around the 'GENDER' row, which shows the value '3' and the description 'Gender is invalid'.

Field	Value	Description
PROCODET	XXX	
PROVSPNO	1	
EPIORDER	1	
STARTAGE	25	
GENDER	3	
CLASSPAT	1	Ordinary admission
ADMISORC	19	Usual place of residence
ADMIMETH	11	Waiting list
DISDEST	19	Usual place of residence
DISMETH	1	Patient discharged on clinical advice or with clinical consent
EPIDUR	0	
MAINSPEF	300	General Medicine
NEOCARE	8	Not Applicable
TRETSPEF	300	General Medicine
DIAG_01	E118	Type 2 diabetes mellitus: With unspecified complications
DIAG_02		
DIAG_03		
DIAG_04		
DIAG_05		
DIAG_06		
DIAG_07		
DIAG_08		
DIAG_09		
DIAG_10		
DIAG_11		
DIAG_12		
DIAG_13		
DIAG_14		
OPER_01		
OPER_02		
OPER_03		
OPER_04		

Field	Value	Description
SpellErrors		
Spell HRG	UZ01Z	Data Invalid for Grouping
Spell Grouping Method	U	Error
Spell Dominant Procedure		
Spell Primary Diagnosis	E118	Type 2 diabetes mellitus: With unspecified complica
Spell Episode Count	1	
Spell Adjusted LOS	0	
Spell Trimpont	5	
Spell Best Practice Flag		

Field	Value	Description
Tariff_Base_Payment	£0.00	
Tariff_Long_Stay_Payment	£0.00	
Core_Tariff_Pre_MFF_Payment	£0.00	
MFF	1	
Core_Tariff_MFF_Payment	£0.00	
Tariff_Top_Up_Percentage		

Field	Value	Description
GENDER	3	Gender is invalid
Episode HRG	UZ01Z	Data Invalid for Grouping
Episode Grouping Method	U	Error
Episode Dominant Procedure		
Spell Report Flag	1	
Episode Adjusted LOS	0	
Episode PS Service Lines		
Unbundled HRGs		
Episode Programme Budgeting Code	PBC0204A	Diabetes

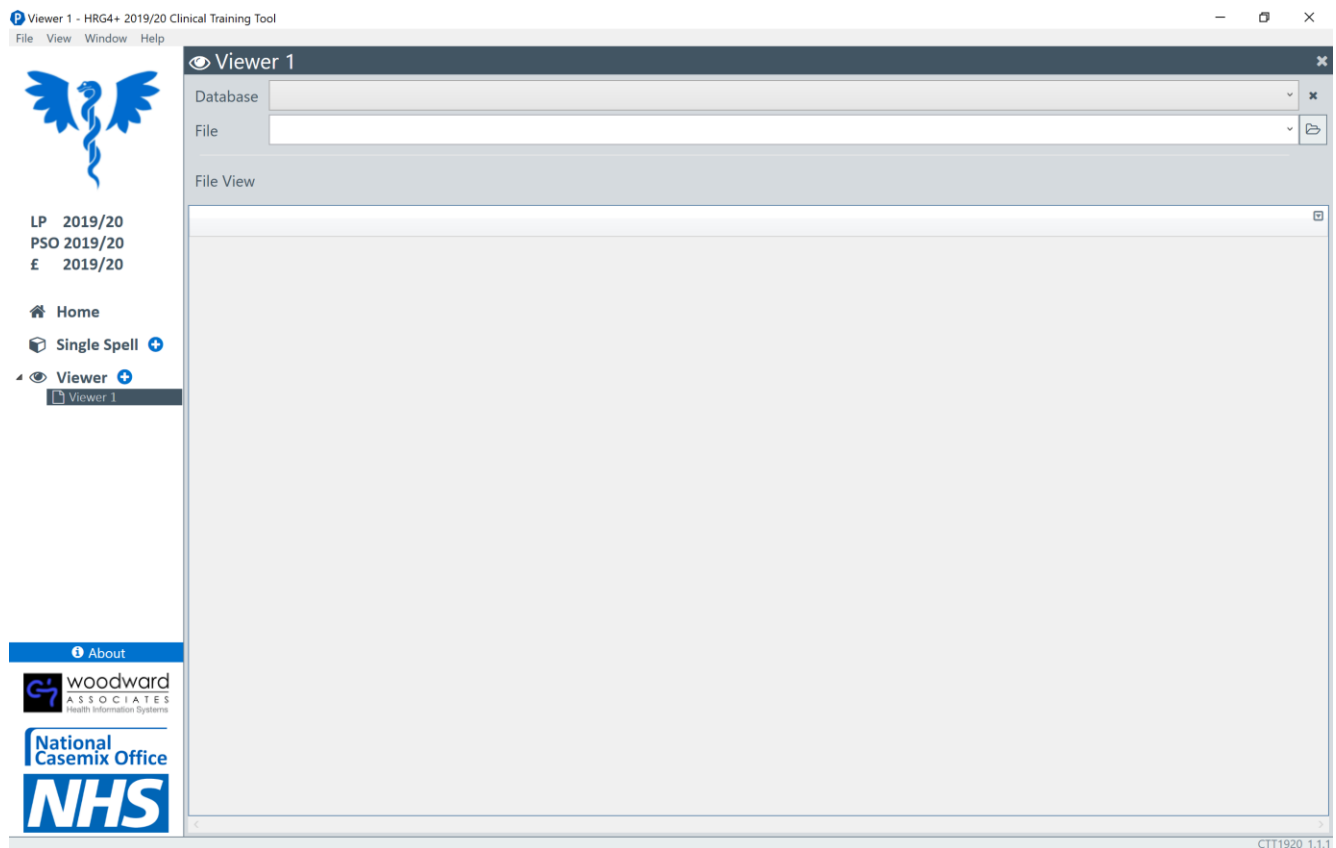
Viewer


The Clinical Training Tool provides a file viewer that can be used to view files. The Viewer allows users to filter on columns and select data that are then opened in Single Spell.

Selecting a **Database** and a **File** will display the file data organised into the columns specified in the RDF and can be used as an aid to see if there are problems in the layout or content of a data file.

Opening a Viewer screen can be done in several ways:

- Select the icon next to **Viewer** on the navigation pane;
- Select the [Viewer](#) title hyperlink or the icon on the main home screen;
- Select **File** on the menu bar, then **New** and then **Viewer**; or
- Use shortcut keys **Alt+V**.



To view a file, you can either drag a file directly into the **File** drop-down box or use the  icon to navigate to the appropriate file to be viewed.





It is advised that a user selects the appropriate database when loading a file as some functionality within the Viewer requires the use of the database fields. To do this, select the relevant database from the **Database** drop-down list. For this example, select the database **CTT_1920 – Admitted Patient Care**.

For the **File**, navigate to the Sample Data folder installed with the Clinical Training Tool and select the file `HRG4+ Admitted Patient Care Sample Test Data.csv` or alternatively drag and drop the file `HRG4+ Admitted Patient Care Sample Test Data.csv` directly into the **File** drop-down box.

When a file is selected, the data will be displayed in the **File View** window. Depending on the number of rows of data in your file, the Viewer will display the data over a number of pages.

The **Use file header** checkbox allows a user to specify whether the first row in the file being viewed is a header row. When this is ticked, the file headers (surrounded by rounded brackets) underneath the Database headers in bold remain visible when navigating between the different pages.

Users can use the navigation buttons to move between pages in the Viewer window.

-  Moves the user to the next page of the file
-  Moves the user to the last page of the file
-  Moves the user to the previous page of the file
-  Moves the user to the first page of the file

A user can also use the page number box to manually enter a specific page number to view.

Viewer 1 - HRG4+ 2019/20 Clinical Training Tool

Database: CTT_1920 - Admitted Patient Care (APC)

File: C:\Program Files\NHS Digital\HRG4+ 2019_20 Clinical Training Tool\Sample Data\HRG4+ Admitted Patient Care Sample Test Data.csv

File View: Use file header [] 1 of 8 [>] [>>] [T]

PROCODET (PROCODET)	PROVSPNO (PROVSPNO)	EPIORDER (EPIORDER)	STARTAGE (STARTAGE)	GENDER (GENDER)	CLASSPAT (CLASSPAT)	ADMISORC (ADMISORC)	ADMIMETH (ADMIMETH)	DISDEST (DISDEST)	DISMETH (DISMETH)	EPIDUR (EPIDUR)	MAINSPEF (MAINSPEF)	NI (NI)
ZZZ	1004595488	1	68	1	1	51	81	19	1	13	430	8
ZZZ	1004595489	1	90	2	1	51	81	19	1	30	430	8
ZZZ	1004595490	1	85	2	1	51	81	19	1	15	430	8
ZZZ	1004595491	1	80	2	1	51	81	19	1	45	430	8
ZZZ	1004595492	1	82	1	1	51	81	19	1	18	430	8
ZZZ	1004595493	1	84	2	1	51	81	65	1	40	160	8
ZZZ	1004595494	1	90	1	1	51	81	19	1	13	430	8
ZZZ	1004595495	1	82	2	1	51	81	19	1	89	430	8
ZZZ	1004595496	1	89	2	1	51	81	29	1	29	430	8
ZZZ	1004595497	1	90	1	1	51	81	51	1	11	430	8
ZZZ	1004595498	1	82	2	1	51	81	54	1	78	430	8
ZZZ	1004595499	1	83	1	1	51	81	19	1	19	430	8
ZZZ	1004595500	1	85	2	1	51	81	19	1	30	430	8
ZZZ	1004595501	1	89	2	1	51	81	19	1	25	430	8
ZZZ	1004595502	1	74	1	1	51	81	19	1	43	430	8
ZZZ	1004595503	1	101	2	1	51	81	19	1	10	430	8
ZZZ	1004595504	1	85	2	1	51	81	19	1	10	430	8
ZZZ	1004595505	1	88	2	1	51	81	19	1	9	430	8
ZZZ	1004595506	1	83	2	1	51	81	51	1	1	430	8
ZZZ	1004595507	1	72	1	1	51	81	19	1	52	430	8
ZZZ	1004595508	1	83	1	1	51	81	19	1	14	430	8
ZZZ	1004595509	1	85	1	1	51	81	19	1	22	430	8
ZZZ	1004595510	1	92	2	1	51	81	29	1	33	430	8
ZZZ	1004595511	1	74	1	1	51	81	19	1	13	430	8
ZZZ	1004595512	1	88	2	1	51	12	98	8	3	314	8
ZZZ	1004595513	1	71	1	1	51	81	19	1	12	314	8
ZZZ	1004595514	1	90	2	1	51	12	99	9	8	314	8
ZZZ	1004595515	1	80	2	1	51	81	98	8	13	314	8
ZZZ	1004595516	1	41	1	1	29	21	99	1	8	710	8
ZZZ	1004595517	1	32	1	1	19	13	19	1	42	710	8
ZZZ	1004595518	1	56	1	1	51	81	19	1	26	300	8
ZZZ	1004595519	1	80	2	1	19	22	19	1	14	300	8
ZZZ	1004595520	1	85	2	1	19	81	19	1	26	300	8
ZZZ	1004595521	1	80	2	1	19	21	19	1	13	300	8
ZZZ	1004595522	1	80	2	1	51	23	19	1	38	300	8
ZZZ	1004595523	1	51	1	1	19	21	99	1	12	710	8
ZZZ	1004595524	1	47	1	1	19	81	19	1	126	300	8
ZZZ	1004595525	1	75	2	1	19	22	51	1	5	300	8
ZZZ	1004595526	1	70	1	1	19	22	51	1	4	300	8
ZZZ	1004595527	1	90	1	1	19	21	51	1	42	300	8

CTT1920_1.1.1

Filters have been introduced into the Viewer that allow users to filter on specific columns in the **File View** window. In the top row of the **File View** window, each column contains a small drop-down arrow that when clicked opens a pop-up box that allows users to filter on a particular value.

Viewer 1 - HRG4+ 2019/20 Clinical Training Tool

Database: CTT_1920 - Admitted Patient Care (APC)


File: C:\Program Files\NHS Digital\HRG4+ 2019_20 Clinical Training Tool\Sample Data\HRG4+ Admitted Patient Care Sample Test Data.csv

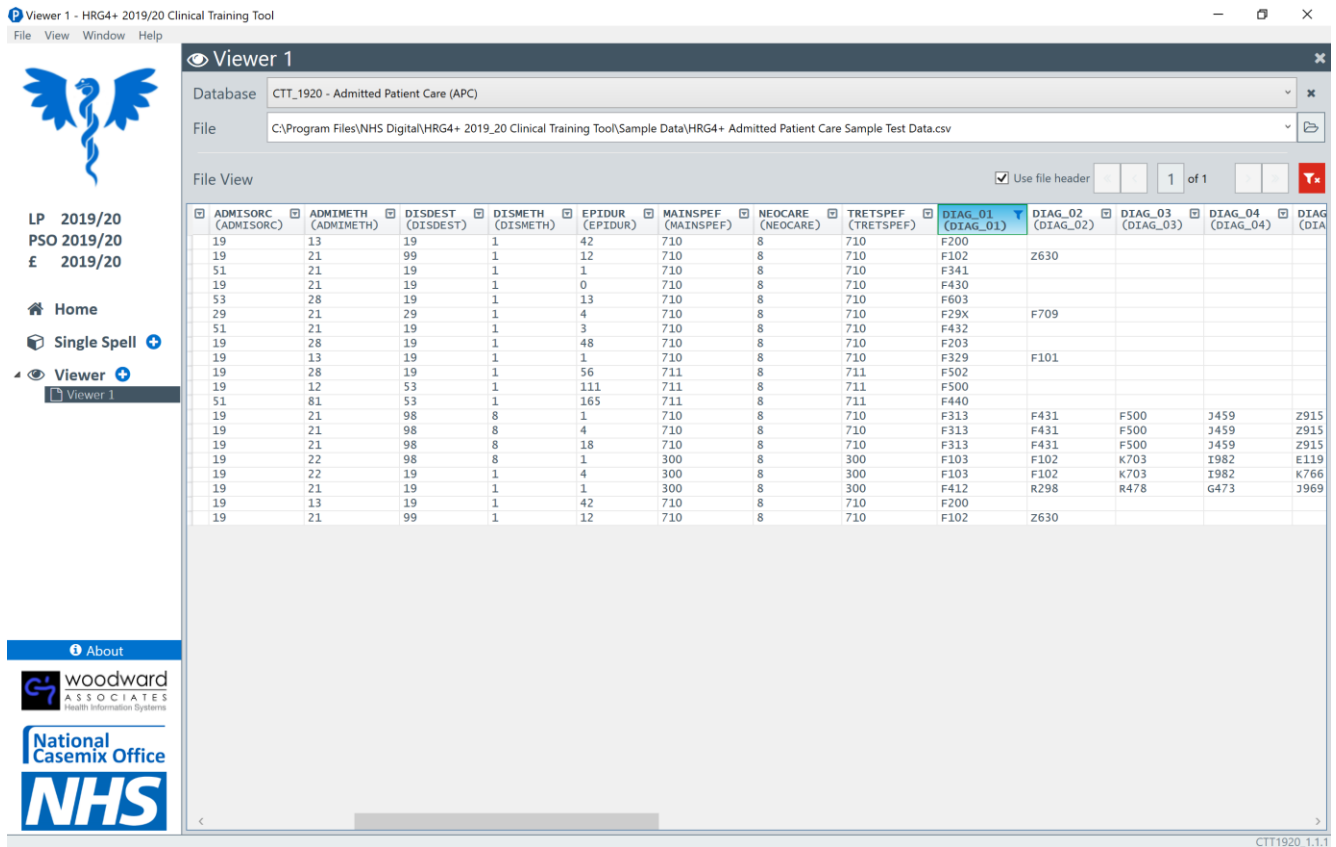
File View: Use file header [] 1 of 8 [>] [>>] [T]

PROCODET (PROCODET)	PROVSPNO (PROVSPNO)	EPIORDER (EPIORDER)	STARTAGE (STARTAGE)	GENDER (GENDER)	CLASSPAT (CLASSPAT)	ADMISORC (ADMISORC)	ADMIMETH (ADMIMETH)	DISDEST (DISDEST)	DISMETH (DISMETH)	EPIDUR (EPIDUR)	MAINSPEF (MAINSPEF)	NI (NI)
ZZZ	1004595488	1	68	1	1	51	81	19	1	13	430	8
ZZZ	1004595489	1	90	2	1	51	81	19	1	30	430	8
ZZZ	1004595490	1	85	2	1	51	81	19	1	15	430	8
ZZZ	1004595491	1	80	2	1	51	81	19	1	45	430	8
ZZZ	1004595492	1	82	1	1	51	81	19	1	18	430	8
ZZZ	1004595493	1	84	2	1	51	81	65	1	40	160	8
ZZZ	1004595494	1	90	1	1	51	81	19	1	13	430	8
ZZZ	1004595495	1	82	2	1	51	81	19	1	89	430	8
ZZZ	1004595496	1	89	2	1	51	81	29	1	29	430	8
ZZZ	1004595497	1	90	1	1	51	81	51	1	11	430	8
ZZZ	1004595498	1	82	2	1	51	81	54	1	78	430	8
ZZZ	1004595499	1	83	1	1	51	81	19	1	19	430	8
ZZZ	1004595500	1	85	2	1	51	81	19	1	30	430	8
ZZZ	1004595501	1	89	2	1	51	81	19	1	25	430	8
ZZZ	1004595502	1	74	1	1	51	81	19	1	43	430	8
ZZZ	1004595503	1	101	2	1	51	81	19	1	10	430	8
ZZZ	1004595504	1	85	2	1	51	81	19	1	10	430	8
ZZZ	1004595505	1	88	2	1	51	81	19	1	9	430	8
ZZZ	1004595506	1	83	2	1	51	81	51	1	1	430	8
ZZZ	1004595507	1	72	1	1	51	81	19	1	52	430	8
ZZZ	1004595508	1	83	1	1	51	81	19	1	14	430	8
ZZZ	1004595509	1	85	1	1	51	81	19	1	22	430	8
ZZZ	1004595510	1	92	2	1	51	81	29	1	33	430	8
ZZZ	1004595511	1	74	1	1	51	81	19	1	13	430	8
ZZZ	1004595512	1	88	2	1	51	12	98	8	3	314	8
ZZZ	1004595513	1	71	1	1	51	81	19	1	12	314	8
ZZZ	1004595514	1	90	2	1	51	12	99	9	8	314	8
ZZZ	1004595515	1	80	2	1	51	81	98	8	13	314	8
ZZZ	1004595516	1	41	1	1	29	21	99	1	8	710	8
ZZZ	1004595517	1	32	1	1	19	13	19	1	42	710	8
ZZZ	1004595518	1	56	1	1	51	81	19	1	26	300	8
ZZZ	1004595519	1	80	2	1	19	22	19	1	14	300	8
ZZZ	1004595520	1	85	2	1	19	81	19	1	26	300	8
ZZZ	1004595521	1	80	2	1	19	21	19	1	13	300	8
ZZZ	1004595522	1	80	2	1	51	23	19	1	38	300	8
ZZZ	1004595523	1	51	1	1	19	21	99	1	12	710	8
ZZZ	1004595524	1	47	1	1	19	81	19	1	126	300	8
ZZZ	1004595525	1	75	2	1	19	22	51	1	5	300	8
ZZZ	1004595526	1	70	1	1	19	22	51	1	4	300	8
ZZZ	1004595527	1	90	1	1	19	21	51	1	42	300	8

CTT1920_1.1.1


Users can filter on a particular value or use the wildcard characters * and ?.

The asterisk (*) in a wildcard matches any character zero or more times. For example, click the  button in the DIAG_01 column and enter F*. This will return all diagnosis codes that start with F.



The screenshot shows the 'Viewer 1' application window. The database is 'CTT_1920 - Admitted Patient Care (APC)'. The file path is 'C:\Program Files\NHS Digital\HRG4+ 2019_20 Clinical Training Tool\Sample Data\HRG4+ Admitted Patient Care Sample Test Data.csv'. The table displays columns for various clinical codes: ADMISORC, ADMIMETH, DISDEST, DISMETH, EPIDUR, MAINSPEF, NEOCARE, TRETSPF, DIAG_01, DIAG_02, DIAG_03, DIAG_04, and DIAG_05. The table contains 20 rows of data. The sidebar on the left includes navigation options: LP 2019/20, PSO 2019/20, £ 2019/20, Home, Single Spell, and Viewer 1. The bottom of the window shows logos for Woodward Associates, National Casemix Office, and NHS.

ADMISORC (ADMISORC)	ADMIMETH (ADMIMETH)	DISDEST (DISDEST)	DISMETH (DISMETH)	EPIDUR (EPIDUR)	MAINSPEF (MAINSPEF)	NEOCARE (NEOCARE)	TRETSPF (TRETSPF)	DIAG_01 (DIAG_01)	DIAG_02 (DIAG_02)	DIAG_03 (DIAG_03)	DIAG_04 (DIAG_04)	DIAG_05 (DIAG_05)
19	13	19	1	42	710	8	710	F200				
19	21	99	1	12	710	8	710	F102	Z630			
51	21	19	1	1	710	8	710	F341				
19	21	19	1	0	710	8	710	F430				
53	28	19	1	13	710	8	710	F603				
29	21	29	1	4	710	8	710	F29K	F709			
51	21	19	1	3	710	8	710	F432				
19	28	19	1	48	710	8	710	F203				
19	13	19	1	1	710	8	710	F329	F101			
19	28	19	1	56	711	8	711	F502				
19	12	53	1	111	711	8	711	F500				
51	81	53	1	165	711	8	711	F440				
19	21	98	8	1	710	8	710	F313	F431	F500	J459	Z915
19	21	98	8	4	710	8	710	F313	F431	F500	J459	Z915
19	21	98	8	18	710	8	710	F313	F431	F500	J459	Z915
19	22	98	8	1	300	8	300	F103	F102	K703	1982	E119
19	22	19	1	4	300	8	300	F103	F102	K703	1982	K766
19	21	19	1	1	300	8	300	F412	R298	R478	G473	J969
19	13	19	1	42	710	8	710	F200				
19	21	99	1	12	710	8	710	F102	Z630			

The question mark (?) in a wildcard matches a single character once. The question mark can also be used more than once. For example, click the  button in the MAINSPEF column and enter ???0. This will return all main specialty codes where the code is three characters and the last character is a 0.

Viewer 1

Database: CTT_1920 - Admitted Patient Care (APC)

File: C:\Program Files\NHS Digital\HRG4+ 2019_20 Clinical Training Tool\Sample Data\HRG4+ Admitted Patient Care Sample Test Data.csv

File View Use file header 1 of 1

ADMSORC (ADMSORC)	ADMIMETH (ADMIMETH)	DISDEST (DISDEST)	DISMETH (DISMETH)	EPIDUR (EPIDUR)	MAINSPEF (MAINSPEF)	NEOCARE (NEOCARE)	TRETSPEF (TRETSPEF)	DIAG_01 (DIAG_01)	DIAG_02 (DIAG_02)	DIAG_03 (DIAG_03)	DIAG_04 (DIAG_04)	DIAG (DIAG)
19	13	19	1	42	710	8	710	F200				
19	21	99	1	12	710	8	710	F102	Z630			
51	21	19	1	1	710	8	710	F341				
19	21	19	1	0	710	8	710	F430				
53	28	19	1	13	710	8	710	F603				
29	21	29	1	4	710	8	710	F29X	F709			
51	21	19	1	3	710	8	710	F432				
19	28	19	1	48	710	8	710	F203				
19	13	19	1	1	710	8	710	F329	F101			
19	21	98	8	1	710	8	710	F313	F431	F500	J459	Z915
19	21	98	8	4	710	8	710	F313	F431	F500	J459	Z915
19	21	98	8	18	710	8	710	F313	F431	F500	J459	Z915
19	22	98	8	1	300	8	300	F103	F102	K703	I982	E119
19	22	19	1	4	300	8	300	F103	F102	K703	I982	K766
19	21	19	1	1	300	8	300	F412	R298	R478	G473	J969
19	13	19	1	42	710	8	710	F200				
19	21	99	1	12	710	8	710	F102	Z630			

CTT1920_1.1.1

A user can filter on blanks by leaving the “Filter Column” blank.

Individual filters can be cleared by clicking on the small drop-down arrow on columns where filters are applied and clicking on the bin icon, or where multiple filters have been applied, all filters can be cleared by clicking on the (Clear All Filter) icon.

Click the clear all filter icon to reset the viewing window to its original state.

Viewer 1 - HRG4+ 2019/20 Clinical Training Tool

Database: CTT_1920 - Admitted Patient Care (APC)

File: C:\Program Files\NHS Digital\HRG4+ 2019_20 Clinical Training Tool\Sample Data\HRG4+ Admitted Patient Care Sample Test Data.csv

File View: Use file header, 1 of 8

ADMISSORC (ADMISSORC)	ADMIMETH (ADMIMETH)	DISDEST (DISDEST)	DISMETH (DISMETH)	EPIDUR (EPIDUR)	MAINSPEF (MAINSPEF)	NEOCARE (NEOCARE)	TRETSPEF (TRETSPEF)	DIAG_01 (DIAG_01)	DIAG_02 (DIAG_02)	DIAG_03 (DIAG_03)	DIAG_04 (DIAG_04)	D:
51	81	19	1	13	430	8	430	R13X	Z501	I209	E119	Z5
51	81	19	1	30	430	8	430	S3250	Z501	S700	M1999	M8
51	81	19	1	15	430	8	430	S4240	S799	Z501	I951	E8
51	81	19	1	45	430	8	430	M511	G551	Z501	I10X	D7
51	81	19	1	18	430	8	430	S0660	S010	W100	Z501	M4
51	81	65	1	40	160	8	161	T242	T212	T310	X100	J4
51	81	19	1	13	430	8	430	R54X	Z501	M7960	M2555	I1
51	81	19	1	89	430	8	430	I639	Z501	I269	R91X	Z8
51	81	29	1	29	430	8	430	R001	Z501	E871	M2546	R5
51	81	51	1	11	430	8	430	N390	C449	Z501	F03X	I4
51	81	54	1	78	430	8	430	S5260	Z501	F019	Z602	N3
51	81	19	1	19	430	8	430	I951	D649	Z501	N179	I1
51	81	19	1	30	430	8	430	S7240	M819	Z501	Z507	I1
51	81	19	1	25	430	8	430	S3250	W189	I678	R42X	EC
51	81	19	1	43	430	8	430	I634	Z501	I269	J22X	J4
51	81	19	1	10	430	8	430	S5250	I951	Z501	I10X	M1
51	81	19	1	10	430	8	430	R69X6				
51	81	19	1	9	430	8	430	R69X6				
51	81	51	1	1	430	8	430	R69X6				
51	81	19	1	52	430	8	430	I639	Z508	I10X	I484	E1
51	81	19	1	14	430	8	430	I181	Z501	J90X	G440	C6
51	81	19	1	22	430	8	430	T830	Y831	Z508	R31X	R3
51	81	29	1	33	430	8	430	B023	H031	I480	Z501	I1
51	81	19	1	13	430	8	430	G409		Z508	D649	IE
51	12	98	8	3	314	8	314	Z740				
51	81	19	1	12	314	8	314	Z740				
51	12	99	9	8	314	8	314	S429				
51	81	98	8	13	314	8	314	Z740				
29	21	99	1	8	710	8	710	R69X6				
19	13	19	1	42	710	8	710	F200				
51	81	19	1	26	300	8	300	N390	B954			
19	22	19	1	14	300	8	300	I639	Z509	I10X	L989	MC
19	81	19	1	26	300	8	300	H542	Z507	N390	H919	
19	21	19	1	13	300	8	300	S430	Z509	M2555	I10X	J4
51	23	19	1	38	300	8	300	N390	L97X	L089	I10X	M1
19	21	99	1	12	710	8	710	F102	Z630			
19	81	19	1	126	300	8	300	S3281	S0210	S4230	S3240	Z5
19	22	51	1	5	300	8	300	K572	Z933	Z509	I10X	I4
19	22	51	1	4	300	8	300	R262	Z509	R638	H109	I1
19	21	51	1	42	300	8	300	S300	Z509	N390	S018	W1


CTT1920_1.1.1

While the use of the Viewer has limited value for manipulating large files (due to the display limitations), one specific area of development has been to introduce cross-functionality whereby a user can now double-click on a row of data in the **File View** window to open a new Single Spell window with the information already populated in the relevant fields.

Double-click the first line of data of the HRG4+ Admitted Patient Care Sample Test Data.csv in the **File View** window or right-click on the row of data and select “Open in single spell”.

Viewer 1 - HRG4+ 2019/20 Clinical Training Tool

File View Window Help



LP 2019/20
PSO 2019/20
£ 2019/20

Home
Single Spell
Viewer
Viewer 1

About
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NHS

Database: CTT_1920 - Admitted Patient Care (APC)
File: C:\Program Files\NHS Digital\HRG4+ 2019_20 Clinical Training Tool\Sample Data\HRG4+ Admitted Patient Care Sample Test Data.csv

File View Use file header 1 of 8


PROCODET (PROCODET)	PROVSPNO (PROVSPNO)	EPIORDER (EPIORDER)	STARTAGE (STARTAGE)	GENDER (GENDER)	CLASSPAT (CLASSPAT)	ADMISORC (ADMISORC)	ADMIMETH (ADMIMETH)	DISDEST (DISDEST)	DISMETH (DISMETH)	EPIDUR (EPIDUR)	MAINSPEF (MAINSPEF)	NI (NI)
ZZZ	1004595488	1	68	1	1	51	81	19	1	13	430	8
ZZZ	1004595489	1	90	2	1	51	81	19	1	30	430	8
ZZZ	1004595490	1	85	2	1	51	81	19	1	15	430	8
ZZZ	1004595491	1	80	2	1	51	81	19	1	45	430	8
ZZZ	1004595492	1	82	1	1	51	81	19	1	18	430	8
ZZZ	1004595493	1	84	2	1	51	81	65	1	40	160	8
ZZZ	1004595494	1	90	1	1	51	81	19	1	13	430	8
ZZZ	1004595495	1	82	2	1	51	81	19	1	89	430	8
ZZZ	1004595496	1	89	2	1	51	81	29	1	29	430	8
ZZZ	1004595497	1	90	1	1	51	81	51	1	11	430	8
ZZZ	1004595498	1	82	2	1	51	81	54	1	78	430	8
ZZZ	1004595499	1	83	1	1	51	81	19	1	19	430	8
ZZZ	1004595500	1	85	2	1	51	81	19	1	30	430	8
ZZZ	1004595501	1	89	2	1	51	81	19	1	25	430	8
ZZZ	1004595502	1	74	1	1	51	81	19	1	43	430	8
ZZZ	1004595503	1	101	2	1	51	81	19	1	10	430	8
ZZZ	1004595504	1	85	2	1	51	81	19	1	10	430	8
ZZZ	1004595505	1	88	2	1	51	81	19	1	9	430	8
ZZZ	1004595506	1	83	2	1	51	81	51	1	1	430	8
ZZZ	1004595507	1	72	1	1	51	81	19	1	52	430	8
ZZZ	1004595508	1	83	1	1	51	81	19	1	14	430	8
ZZZ	1004595509	1	85	1	1	51	81	19	1	22	430	8
ZZZ	1004595510	1	92	2	1	51	81	29	1	33	430	8
ZZZ	1004595511	1	74	1	1	51	81	19	1	13	430	8
ZZZ	1004595512	1	88	2	1	51	12	98	6	3	314	8
ZZZ	1004595513	1	71	1	1	51	81	19	1	12	314	8
ZZZ	1004595514	1	90	2	1	51	12	99	9	8	314	8
ZZZ	1004595515	1	80	2	1	51	81	98	8	13	314	8
ZZZ	1004595516	1	41	1	1	29	21	99	1	8	710	8
ZZZ	1004595517	1	32	1	1	19	13	19	1	42	710	8
ZZZ	1004595518	1	56	1	1	51	81	19	1	26	300	8
ZZZ	1004595519	1	80	2	1	19	22	19	1	14	300	8
ZZZ	1004595520	1	85	2	1	19	81	19	1	26	300	8
ZZZ	1004595521	1	80	2	1	19	21	19	1	13	300	8
ZZZ	1004595522	1	80	2	1	51	23	19	1	38	300	8
ZZZ	1004595523	1	51	1	1	19	21	99	1	12	710	8
ZZZ	1004595524	1	47	1	1	19	81	19	1	126	300	8
ZZZ	1004595525	1	75	2	1	19	22	51	1	5	300	8
ZZZ	1004595526	1	70	1	1	19	22	51	1	4	300	8
ZZZ	1004595527	1	90	1	1	19	21	51	1	42	300	8

CTT1920_1.1.1

This will open a new Single Spell window populated with the data shown in the **File View** window.

Spell 1 - HRG4+ 2019/20 Clinical Training Tool

File View Window Help



LP 2019/20
PSO 2019/20
£ 2019/20

Home
Single Spell
Spell 1
Viewer
Viewer 1

About
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National Casemix Office
NHS

Database: CTT_1920 - Admitted Patient Care (APC)
Episode: 1 of 1

Field Customisation Export Process

Field	Value	Description
PROCODET	ZZZ	
PROVSPNO	1004595488	
EPIORDER	1	
STARTAGE	68	
GENDER	1	Male
CLASSPAT	1	Ordinary admission
ADMISORC	51	NHS other hospital provider - ward for general patients or the younger physically disabled or /
ADMIMETH	81	Transfer of any admitted PATIENT from other Hospital Provider other than in an emergency
DISDEST	19	Usual place of residence
DISMETH	1	Patient discharged on clinical advice or with clinical consent
EPIDUR	13	
MAINSPEF	430	Geriatric Medicine
NEOCARE	8	Not Applicable
TRETSPEF	430	Geriatric Medicine
DIAG_01	R13X	Dysphagia
DIAG_02	Z501	Other physical therapy
DIAG_03	I209	Angina pectoris, unspecified
DIAG_04	E119	Type 2 diabetes mellitus: Without complications
DIAG_05	Z951	Presence of aortocoronary bypass graft
DIAG_06	Z922	Personal history of long-term (current) use of other medicaments
DIAG_07	Z880	Personal history of allergy to penicillin
DIAG_08	Z867	Personal history of diseases of the circulatory system
DIAG_09	Z602	Living alone
DIAG_10		
DIAG_11		
DIAG_12		
DIAG_13		
DIAG_14		
OPER_01	U543	Delivery of rehabilitation for stroke
OPER_02		
OPER_03		
OPER_04		

Field	Value	Description
Spell Errors		
Spell HRG	FD10L	Non-Malignant Gastrointestinal Tract Disorders w
Spell Grouping Method	D	Diagnosis driven
Spell Dominant Procedure		
Spell Primary Diagnosis	R13X	Dysphagia
Spell Episode Count	1	
Spell Adjusted LOS	13	
Spell Trimpont	11	
Spell Best Practice Flag		

Field	Value	Description
Tariff		
Tariff_Base_Payment	£1,912.00	
Tariff_Long_Stay_Payment	£510.00	
Core_Tariff_Pre_MFF_Payment	£2,422.00	
MFF	1	
Core_Tariff_MFF_Payment	£2,422.00	
Tariff_Top_Up_Percentage		

Field	Value	Description
Episode		
Errors		
Episode HRG	FD10L	Non-Malignant Gastrointestinal Tract Disor
Episode Grouping Method	D	Diagnosis driven
Episode Dominant Procedure		
Spell Report Flag	1	
Episode Adjusted LOS	13	
Episode PS Service Lines		
Unbundled HRGs	VC04Z*1	
Episode Programme Budgeting Code	PBC0213A	Upper Gastrointestinal

CTT1920_1.1.1

This feature only works where a relevant Database is selected with the selected File.

Single Spell Input Fields

Admitted Patient Care (APC)

The field list below shows the fields that are required by the Clinical Training Tool in Single Spell. The field order is defined by the database used for the grouping session.

Single Spell Field Name	CDS/DD Field Name	Mandation	Auto Complete	Notes
PROCODET	ORGANISATION CODE (CODE OF PROVIDER)	Mandatory	No	A value must be supplied but is not validated. For NHS organisations, use the first 3 characters. For non-NHS organisations, use all 5 characters.
PROVSPNO	HOSPITAL PROVIDER SPELL NUMBER (or alternative)	Mandatory	No	A value must be supplied but is not validated. It is possible to use an alternative spell identifier as PROVSPNO, in place of the Hospital Provider Spell Number.
EPIORDER	EPISODE NUMBER	Mandatory	No	Duplicates within a spell will create an error. EPIORDER values 98 and 99 are invalid for grouping.
STARTAGE	Derived	Mandatory	No	Whole years rounded down: START DATE (EPISODE) – PERSON BIRTH DATE
GENDER	PERSON GENDER CODE CURRENT	Mandatory	Yes	Must be the same for all episodes within a spell
CLASSPAT	PATIENT CLASSIFICATION CODE	Mandatory	Yes	Must be the same for all episodes within a spell
ADMISORC	SOURCE OF ADMISSION CODE (HOSPITAL PROVIDER SPELL)	Mandatory	Yes	Must be the same for all episodes within a spell

Single Spell Field Name	CDS/DD Field Name	Mandation	Auto Complete	Notes
ADMIMETH	ADMISSION METHOD CODE (HOSPITAL PROVIDER SPELL)	Mandatory	Yes	Must be the same for all episodes within a spell
DISDEST	DISCHARGE DESTINATION CODE (HOSPITAL PROVIDER SPELL)	Mandatory	Yes	Must be populated with a valid value. The Clinical Training Tool uses the code from the last episode.
DISMETH	DISCHARGE METHOD CODE (HOSPITAL PROVIDER SPELL)	Mandatory	Yes	Must be populated with a valid value. The Clinical Training Tool uses the code from the last episode.
EPIDUR	Derived	Mandatory	No	Range: 0-99999. Whole days: END DATE (EPISODE) – START DATE (EPISODE)
MAINSPEF	CARE PROFESSIONAL MAIN SPECIALTY CODE	Mandatory	Yes	Must be populated with a valid value.
NEOCARE	NEONATAL LEVEL OF CARE CODE	Optional	Yes	May be blank.
TRETSPEF	ACTIVITY TREATMENT FUNCTION CODE	Mandatory	Yes	Must be populated with a valid value.
DIAG_01	PRIMARY DIAGNOSIS (ICD)	Mandatory	Yes	Valid ICD-10 code. If this field is blank an error will be generated.
DIAG_02 - DIAG_99	SECONDARY DIAGNOSIS (ICD)	Optional	Yes	As above, but blank allowed
OPER_01 - OPER_99	PRIMARY PROCEDURE (OPCS) and PROCEDURE (OPCS)	Optional	Yes	Valid OPCS-4 codes or blank

Single Spell Field Name	CDS/DD Field Name	Mandation	Auto Complete	Notes
CRITICALCARE REDDAYS	Derived	Optional	No	<p>Range: 0-99999 or blank</p> <p>Count of distinct days within the episode when the patient was in Critical Care</p> <p>If the patient was in Critical Care on the last day of an episode that was not the last episode of the spell, then that day in critical care should be assigned to the next episode.</p>
REHABILITATION DAYS	LENGTH OF STAY ADJUSTMENT (REHABILITATION)	Optional	No	<p>Range: 0-99999 or blank</p> <p>This field should only be populated with days that meet the following Data Dictionary definition and will result in a length of stay adjustment.</p> <p>The total number of days within a Consultant Episode (Hospital Provider) that a discrete period of ACTIVITY such as Rehabilitation occurred that requires an adjustment to the total length of stay for National Tariff Payment System purposes.</p> <p>Where several discrete periods of applicable activity for the same LENGTH OF STAY ADJUSTMENT REASON occur within one Consultant Episode (Hospital Provider), the number of days under the same LENGTH OF STAY ADJUSTMENT REASON should be totalled and reported in a single LENGTH OF STAY ADJUSTMENT.</p>

Single Spell Field Name	CDS/DD Field Name	Mandation	Auto Complete	Notes
SPCDAYS	LENGTH OF STAY ADJUSTMENT (SPECIALIST PALLIATIVE CARE)	Optional	No	<p>Range: 0-99999 or blank</p> <p>This field should only be populated with days that meet the following Data Dictionary definition and will result in a length of stay adjustment.</p> <p>The total number of days within a Consultant Episode (Hospital Provider) that a discrete period of ACTIVITY such as Specialist Palliative Care occurred that requires an adjustment to the total length of stay for National Tariff Payment System purposes.</p> <p>Where several discrete periods of applicable activity for the same LENGTH OF STAY ADJUSTMENT REASON occur within one Consultant Episode (Hospital Provider), the number of days under the same LENGTH OF STAY ADJUSTMENT REASON should be totalled and reported in a single LENGTH OF STAY ADJUSTMENT.</p>

Outpatients (OP)

The field list below shows the fields that are required by the Clinical Training Tool in Single Spell. The field order is defined by the database used for the grouping session.

Single Spell Field name	CDS/DD Field Name	Mandation	Auto Complete	Notes
PROCODET	ORGANISATION CODE (CODE OF PROVIDER)	Mandatory	No	A value must be supplied but is not validated. For NHS organisations, use the first 3 characters. For non-NHS organisations, use all 5 characters.
STARTAGE	Derived	Mandatory	No	Whole years rounded down: APPOINTMENT DATE – PERSON BIRTH DATE
GENDER	PERSON GENDER CODE CURRENT	Mandatory	Yes	Must be populated with a valid value
MAINSPEF	CARE PROFESSIONAL MAIN SPECIALTY CODE	Mandatory	Yes	Must be populated with a valid value
TRETSPEF	ACTIVITY TREATMENT FUNCTION CODE	Mandatory	Yes	Must be populated with a valid value
FIRSTATT	FIRST ATTENDANCE CODE	Mandatory	Yes	Must be populated with a valid value
ATTENDED	ATTENDED OR DID NOT ATTEND CODE	Mandatory	Yes	Must be populated with a valid value
REFSOURC	SOURCE OF REFERRAL FOR OUT-PATIENTS	Mandatory	Yes	Must be populated with a valid value

Single Spell Field name	CDS/DD Field Name	Mandation	Auto Complete	Notes
DIAG_01 - DIAG_99	PRIMARY DIAGNOSIS (ICD) and SECONDARY DIAGNOSIS (ICD)	Optional	Yes	Valid ICD-10 codes or blank
OPER_01 - OPER_99	PRIMARY PROCEDURE (OPCS) and PROCEDURE (OPCS)	Optional	Yes	Valid OPCS-4 codes or blank

Please note:

The inclusion of the 2019/20 Operational PS Algorithm means that diagnosis codes are included in outpatients, but while used for PS service line generation, they are not used in the HRG generation and as such are not mandatory for inclusion.

Emergency Medicine (EM)

The field list below shows the fields that are required by the Clinical Training Tool in Single Spell. The field order is defined by the database used for the grouping session.

Single Spell Field Name	CDS/DD Field Name	Mandation	Auto Complete	Notes
PROCODET	ORGANISATION CODE (CODE OF PROVIDER)	Mandatory	No	A value must be supplied but is not validated. For NHS organisations, use the first 3 characters. For non-NHS organisations, use all 5 characters.
AEDEPTTYPE	ACCIDENT AND EMERGENCY DEPARTMENT TYPE	Mandatory	Yes	Must be populated with a valid value
STARTAGE	Derived	Mandatory	No	Whole years rounded down: ARRIVAL DATE – PERSON BIRTH DATE Validated, but not used in grouping
AEPATIENTGROUP	A AND E PATIENT GROUP	Optional	Yes	Valid A and E patient group code, but blank allowed
INV_01 - INV_99	ACCIDENT AND EMERGENCY INVESTIGATION – FIRST and ACCIDENT AND EMERGENCY INVESTIGATION – SECOND	Optional	Yes	Valid national code component (always 2 characters) or blank The “Local Sub-Analysis” part <u>should not</u> be submitted. Leading zeroes must be included where they form part of the national code component.

Single Spell Field Name	CDS/DD Field Name	Mandation	Auto Complete	Notes
TREAT_01 - TREAT_99	ACCIDENT AND EMERGENCY TREATMENT – FIRST and ACCIDENT AND EMERGENCY TREATMENT – SECOND	Optional	Yes	Valid national code component (2 or 3 characters) or blank The “Local Sub-Analysis” part <u>should not</u> be submitted. Leading zeroes must be included where they form part of the national code component.

Adult Critical Care (ACC)

The field list below shows the fields that are required by the Clinical Training Tool in Single Spell. The field order is defined by the database used for the grouping session.

Single Spell Field Name	CDS/DD Field Name	Mandation	Auto Complete	Notes
CCUF	CRITICAL CARE UNIT FUNCTION	Mandatory	Yes	Leading zeros are significant.
BCSD	BASIC CARDIOVASCULAR SUPPORT DAYS	Optional	No	Range: 0-99999
ACSD	ADVANCED CARDIOVASCULAR SUPPORT DAYS	Optional	No	Range: 0-99999
BRSD	BASIC RESPIRATORY SUPPORT DAYS	Optional	No	Range: 0-99999
ARSD	ADVANCED RESPIRATORY SUPPORT DAYS	Optional	No	Range: 0-99999
RSD	RENAL SUPPORT DAYS	Optional	No	Range: 0-99999
NSD	NEUROLOGICAL SUPPORT DAYS	Optional	No	Range: 0-99999
DSD	DERMATOLOGICAL SUPPORT DAYS	Optional	No	Range: 0-99999
LSD	LIVER SUPPORT DAYS	Optional	No	Range: 0-99999

CCL2D	CRITICAL CARE LEVEL 2 DAYS	Optional	No	Range: 0-99999
CCL3D	CRITICAL CARE LEVEL 3 DAYS	Optional	No	Range: 0-99999
CC_Start_Date	CRITICAL CARE START DATE	Optional	No	Format is YYYYMMDD, e.g. 1 April 2018 = 20180401
CC_Discharge_Date	CRITICAL CARE DISCHARGE DATE	Optional	No	Format is YYYYMMDD, e.g. 1 April 2018 = 20180401

Paediatric Critical Care (PCC)

The field list below shows the fields that are required by the Clinical Training Tool in Single Spell. The field order is defined by the database used for the grouping session.

Single Spell Field Name	CDS/DD Field Name	Mandation	Auto Complete	Notes
PROCODET	ORGANISATION CODE (CODE OF PROVIDER)	Optional	No	A value must be supplied but is not validated. For NHS organisations, use the first 3 characters. For non-NHS organisations, use all 5 characters.
CCLocalID	CRITICAL CARE LOCAL IDENTIFIER	Optional	No	This and the provider field together is the key that keeps records for the same patient together. They must be supplied.
CCDate	ACTIVITY DATE (CRITICAL CARE)	Mandatory	No	Format is YYYYMMDD, e.g. 1 April 2018 = 20180401
DISDATE	DISCHARGE DATE (HOSPITAL PROVIDER SPELL)	Mandatory	No	Format is YYYYMMDD, e.g. 1 April 2018 = 20180401
DISMETH	DISCHARGE METHOD CODE (HOSPITAL PROVIDER SPELL)	Mandatory	Yes	Must be populated with a valid value. The Clinical Training Tool uses the code from the last episode.
CCUF	CRITICAL CARE UNIT FUNCTION	Mandatory	No	Leading zeros are significant.
CCAC_01	CRITICAL CARE ACTIVITY CODE	Optional	Yes	Valid CCAC code from list in Paediatric Critical Care Minimum Dataset (PCCMDS)
CCAC_02 - CCAC_20	CRITICAL CARE ACTIVITY CODE	Optional	Yes	Valid CCAC code from list in Paediatric Critical Care Minimum Dataset (PCCMDS)

Single Spell Field Name	CDS/DD Field Name	Mandation	Auto Complete	Notes
OPER_01 - OPER_20	HIGH COST DRUGS (OPCS)	Optional	Yes	Valid OPCS-4 codes or blank The PCC MDS specifies two appropriate procedure codes only.
DIAG_01 - DIAG_99	PRIMARY DIAGNOSIS (ICD) and SECONDARY DIAGNOSIS (ICD)	Optional	Yes	Valid ICD-10 codes or can be blank

Neonatal Critical Care (NCC)

The field list below shows the fields that are required by the Clinical Training Tool in Single Spell. The field order is defined by the database used for the grouping session.

Single Spell Field Name	CDS/DD Field Name	Mandation	Auto Complete	Notes
PROCODET	ORGANISATION CODE (CODE OF PROVIDER)	Optional	No	A value must be supplied but is not validated. For NHS organisations, use the first 3 characters. For non-NHS organisations, use all 5 characters.
CCLocalID	CRITICAL CARE LOCAL IDENTIFIER	Optional	No	This and the provider field together is the key that keeps records for the same patient together. They must be supplied.
CCDate	ACTIVITY DATE (CRITICAL CARE)	Mandatory	No	Format is YYYYMMDD, e.g. 1 April 2018 = 20180401
DISDATE	DISCHARGE DATE (HOSPITAL PROVIDER SPELL)	Mandatory	No	Format is YYYYMMDD, e.g. 1 April 2018 = 20180401
CCUF	CRITICAL CARE UNIT FUNCTION	Mandatory	Yes	Leading zeros are significant.
AGE_DAYS	Derived			Whole days rounded down: ACTIVITY DATE (CRITICAL CARE) - PERSON BIRTH DATE
DISMETH	DISCHARGE METHOD CODE (HOSPITAL PROVIDER SPELL)	Mandatory	No	Must be populated with a valid value. The Clinical Training Tool uses the code from the last episode.
GestLen	GESTATION LENGTH (AT DELIVERY)	Mandatory	No	Must be populated with a valid value. These are 10 to 49 inclusive (whole numbers only).

Single Spell Field Name	CDS/DD Field Name	Mandation	Auto Complete	Notes
PERWT	PERSON WEIGHT	Mandatory	No	Kilograms, to 3 decimal places Range: greater than zero kg and less than 10 kg Leading zeroes are accepted.
CCAC_01	CRITICAL CARE ACTIVITY CODE	Optional	Yes	Valid CCAC code from list in Neonatal Critical Care Minimum Dataset (NCCMDS)
CCAC_02 - CCAC_20	CRITICAL CARE ACTIVITY CODE	Optional	Yes	Valid CCAC code from list in Neonatal Critical Care Minimum Dataset (NCCMDS)

National Renal Dataset (NRD)

The field list below shows the fields that are required by the Clinical Training Tool in Single Spell. The field order is defined by the database used for the grouping session.

Single Spell Field Name	DD Field Name	Mandation	Auto Complete	Notes
PROCODET	ORGANISATION CODE (CODE OF PROVIDER)	Mandatory	No	A value must be supplied but is not validated. For NHS organisations, use the first 3 characters. For non-NHS organisations, use all 5 characters.
STARTAGE	Derived	Mandatory	No	The age of the patient in whole years at the start date of the session Range: 0-130
RENALMOD	RENAL TREATMENT MODALITY CODE	Mandatory	Yes	Leading zeros are significant.
RENALSITE	RENAL TREATMENT PRIMARY SUPERVISION CODE	Mandatory	Yes	Leading zeros are significant.
RENALACCESS	RENAL DIALYSIS ACCESS TYPE	Optional	Yes	Leading zeros are significant.
HBV	HEPATITIS B ANTIGEN STATUS (RENAL CARE)	Optional	No	Accepted values are NEG, POS and UNK.
HCV	HEPATITIS C ANTIBODY STATUS (RENAL CARE)	Optional	No	Accepted values are NEG, POS and UNK.

Single Spell Field Name	DD Field Name	Mandation	Auto Complete	Notes
HIV	HUMAN IMMUNODEFICIENCY VIRUS STATUS (RENAL CARE)	Optional	No	Accepted values are NEG, POS and UNK.

Single Spell Output Windows and Fields

Admitted Patient Care (APC)

There are three output windows in Single Spell.

Single Spell Window/Field Name	Description
Spell	Contains information regarding the spell output fields. The spell fields are repeated for each episode in the spell.
SpellErrors	Description of the error(s).
Spell HRG	The spell HRG.
Spell Grouping Method	The grouping method used for the spell HRG derivation P=Procedure driven, D=Diagnosis driven, B=Burns driven, M=Multiple trauma, G=Global exception and U=Error
Spell Dominant Procedure	The dominant procedure for the spell.
Spell Primary Diagnosis	The primary diagnosis used for spell grouping.
Spell Episode Count	The number of episodes in the spell.
Spell Adjusted LOS	The total number of days within a spell minus any Critical Care, Rehabilitation or Specialist Palliative Care days that occurred during the spell.
Spell Trimpoint	The trimpoint for the spell HRG.
Spell Best Practice Flag	Best Practice Tariff codes for the spell.
Spell Specialised Service Flag	The dominant Service Line for the spell.

Single Spell Window/Field Name	Description
Spell Unbundled HRGs	<p>Variable number of fields containing unbundled HRGs (episode level)</p> <p>If days are reported in the REHABILITATION DAYS or SPCDAYS, the unbundled HRGs will be followed by an asterisk representing the number of days. Note that only certain HRGs are eligible for “* multipliers”, and these are output on each instance of the unbundled code generated within the episode. Therefore, where multiple HRGs are output, the number of days will be recorded against each HRG. Care is therefore required in using the “* multiplier” to tell you anything other than the discrete number of days recorded and used for LOS adjustment.</p>
Spell Programme Budgeting Code	Programme Budgeting Code for the spell.
Tariff	Contains Tariff information regarding the spell.
Tariff_Base_Payment	The base payment for the Spell HRG.
Tariff_Long_Stay_Payment	The long stay payment based on a length of stay exceeding the HRG trimpoint.
Core_Tariff_Pre_MFF_Payment	The combined total of the Tariff_Base_Payment and Tariff_Long_Stay_Payment fields.
MFF	The Market Forces Factor value of the Provider code.
Core_Tariff_MFF_Payment	The Core_Tariff_Pre_MFF_Payment value multiplied by the MFF value.
Tariff_Top_Up_Percentage	The Prescribed Specialised percentage top up based on the Spell Specialised Service Flag.
Core_Tariff_with_MFF_and_PS_Payment	The Core_Tariff_MFF_Payment calculated with the Prescribed Specialised percentage top up.
Tariff_Unbundled_Payment	The total of any unbundled HRG tariffs.
Episode	Contains information regarding the episode output fields.
Errors	Description of the error(s).
Episode HRG	The episode HRG.

Single Spell Window/Field Name	Description
Episode Grouping Method	The grouping method used for the episode P=Procedure driven, D=Diagnosis driven, B=Burns driven, M=Multiple trauma, G=Global exception and U=Error
Episode Dominant Procedure	The dominant procedure.
Spell Report Flag	Populated with 1 if the episode contains the grouping variable used for deriving the spell HRG (Dominant Episode) or 0 for other episodes in the spell.
Episode Adjusted LOS	The total number of days within an episode minus any Critical Care, Rehabilitation or Specialist Palliative Care days that occurred during the episode.
Episode PS Service Lines	A semi-colon separated list of all the Service Lines the episode qualifies for.
UnbundledHRGs	Variable number of fields containing unbundled HRGs (episode level) If days are reported in the REHABILITATION DAYS or SPCDAYS, the unbundled HRGs will be followed by an asterisk representing the number of days. Note that only certain HRGs are eligible for “* multipliers”, and these are output on each instance of the unbundled code generated within the episode. Therefore, where multiple HRGs are output, the number of days will be recorded against each HRG. Care is therefore required in using the “* multiplier” to tell you anything other than the discrete number of days recorded and used for LOS adjustment.
Episode Programme Budgeting Code	Programme Budgeting Code for the episode.

Outpatients (OP)

There are two output windows in Single Spell.

Single Spell Window/Field Name	Description
Tariff	Contains Tariff information regarding the attendance.
Tariff_HRG	Populated with either the Outpatient Patient HRG or Attendance HRG.
Tariff_Base_Payment	The base payment for the Tariff HRG.
Tariff_Unbundled_Payment	The total of any unbundled HRG tariffs.
Tariff_Pre_MFF_Payment	The combined total of the Tariff_Base_Payment and Tariff_Unbundled_Payment.
MFF	The Market Forces Factor value of the Provider code.
Tariff_MFF_Payment	The Tariff_Pre_MFF_Payment value multiplied by the MFF value.
Tariff_Top_Up_Percentage	This field is not currently populated
Core_Tariff_with_MFF_and_PS_Payment	The Tariff_MFF_Payment value multiplied by the Tariff_Top_Up_Percentage value.
Attendance	Contains information regarding the attendance output fields.
Errors	Description of the error(s).
Outpatient HRG	The attendance HRG.
Grouping Method Flag	The grouping method used for the HRG derivation P=Procedure driven, G=Global exception, O=Outpatient default and U=Error
Dominant Procedure	The dominant procedure.
Attendance HRG	The alternative attendance HRG is provided to support the National Reimbursement System when the Outpatient Core (non-WF*) HRG does not have a mandatory tariff and is equivalent to the SUS_HRG.
Specialised Service Flag	The dominant Service Line for the attendance.

Single Spell Window/Field Name	Description
Tariff	Contains Tariff information regarding the attendance.
	Unbundled HRGs A variable number of unbundled HRGs for the attendance.

Emergency Medicine (EM)

There are two output windows in Single Spell.

File Name/Field Name	Description
Tariff	Contains Tariff information regarding the attendance.
Tariff_Base_Payment	The base payment for the Emergency Medicine HRG.
MFF	The Market Forces Factor value of the Provider code.
Tariff_MFF_Payment	The Tariff_Base_Payment value multiplied by the MFF value.
Attendance	Contains information regarding the attendance output fields.
Errors	Description of the error(s).
Emergency Medicine HRG	The attendance HRG.

Adult Critical Care (ACC)

There is one output window in Single Spell.

File Name/Field Name	Description
Attendance	Contains information regarding the attendance output fields.
Errors	Description of the error(s).
ACC_HRG	The unbundled HRG for the Adult Critical Care period
Calc_CC_Days	The number of Critical Care days calculated as: CC Discharge Date - CC Start Date + 1 This will be set to -1 if there are problems with the dates.
CC_Warning_Flag	Flag to indicate the result of validation of dates and respiratory support day's fields. Failure does not prevent HRG derivation Blank indicates passing validation F indicates date validation failure; applied if any of the following are true: Calc_CC_Days = -1. (This indicates that CC Discharge Date is before CC Start Date, or CC Start Date or CC Discharge Date is blank, is not a valid date or does not match the required format.) CCL2 Days + CCL3 Days > Calc_CC_Days ARSD + BRSD > Calc_CC_Days ARSD + BRSD > CCL2 Days + CCL3 Days

Paediatric Critical Care (PCC)

There is one output window in Single Spell.

File Name/Field Name	Description
Episode	Contains information regarding the critical care day output fields.
	Errors
	Description of the error(s).
	PCC_HRG
	The unbundled HRG for the Paediatric Critical Care day

Neonatal Critical Care (NCC)

There is one output window in Single Spell.

File Name/Field Name	Description
Episode	Contains information regarding the critical care day output fields.
	Errors
	Description of the error(s).
	NCC_HRG
	The unbundled HRG for the Neonatal Critical Care day

National Renal Dataset (NRD)

There are two output windows in Single Spell.

File Name/Field Name	Description
Tariff	Contains Tariff information regarding the attendance.
Tariff_Base_Payment	The base payment for the National Renal Dataset HRG.
MFF	The Market Forces Factor value of the Provider code.
Tariff_MFF_Payment	The Tariff_Base_Payment value multiplied by the MFF value.
Renal	Contains information regarding the attendance output fields.
Errors	Description of the error(s).
National Renal Dataset HRG	The HRG for the dialysis record

Errors and Validation

As part of the grouping process, the Clinical Training Tool carries out validation checks on many of the mandatory input fields. Where one or more fields fail validation, the Clinical Training Tool derives the HRG UZ01Z (Data Invalid for Grouping).

For single-episode spells, where the episode fails validation, the error HRG is derived at both episode and spell level.

For multi-episode spells that contain a mixture of episodes that pass validation and episodes that fail validation, the error HRG is derived for each episode that fails validation and at spell level.

Details of all errors are reported in the Errors fields within Single Spell.

Error Types

There are three types of errors:

Field Validation Errors are generated where field values are missing or are outside of the accepted range of values. Example error messages of this type are:

```
DIAG_01||Primary Diagnosis is blank
```

```
DIAG_01|R69X6|Primary Diagnosis is invalid
```

```
OPER_02|C992|Procedure is invalid
```

Spell Validation Errors result from cross checks across records in a spell. For example, where consistency checks for sex or age fail:

```
SEX||Sex is inconsistent in spell
```

```
STARTAGE||Age rises by more than expected in the spell
```

Clinical Coding Errors are mainly due to the use of clinical codes that violate clinical coding conventions or standards or are not useful resource indicators for HRG grouping.

Clinical coding errors produce error messages that contain the error category codes described in the following section.

Error Categories

Error Categories are used mainly for clinical coding errors. Critical care grouping error descriptions also include error category codes.

UZ01 Invalid Primary Diagnosis

Diagnosis code is present but should not be used in a primary position, according to clinical coding conventions.

```
DIAG_01|Z509|UZ01 - Invalid Primary Diagnosis
```

(Z509 Care involving use of rehabilitation procedure, unspecified)

UZ02 Poorly Coded Primary Diagnosis

Diagnosis code is valid as a primary diagnosis but is too vague to determine the resource use.

DIAG_01|T140|UZ02 - Poorly Coded Primary Diagnosis

(T140 Superficial injury of unspecified body region)

UZ03 Diagnosis Conflicts with Age

A paediatric primary diagnosis has been recorded for an adult patient (age 19 years and over).

DIAG_01|P704|UZ03 - Diagnosis Conflicts with Age

(P704 Other neonatal hypoglycaemia)

UZ04 Diagnosis Conflicts with Anatomical Site

Indicates an invalid combination of primary diagnosis and anatomical site. This only applies to specific musculoskeletal codes containing a 5th digit.

DIAG_01|M7217|UZ04 - Diagnosis Conflicts with Anatomical Site

(M7217 Knuckle pads: Ankle and foot)

UZ05 Invalid procedure for Casemix grouping purposes

Indicates invalid dominant procedure (e.g. an anatomical site). All Y (methods of operations) and Z (anatomical sites) OPCS-4 codes as well as a number of codes in the main body system chapters cannot be the dominant procedure.

OPER_02|Y841|UZ05 - Invalid procedure for Casemix grouping purposes

OPER_02|W450|UZ05 - Invalid procedure for Casemix grouping purposes

(Y841 Gas and air analgesia in labour)

(W540 Conversion from previous prosthetic replacement of articulation of bone NEC)

UZ06 Poorly coded procedure for Casemix grouping purposes

Indicates a dominant or unbundled procedure that is too vague and unspecific to determine resource use from an HRG design perspective.

OPER_02|A579|UZ06 - Poorly coded procedure for Casemix grouping purposes

OPER_01|U019|UZ06 - Poorly coded procedure for Casemix grouping purposes

(A579 Unspecified operations on spinal nerve root)

(U019 Unspecified diagnostic imaging of whole body)

UZ11 Neonatal Critical Care Error

This is a general-purpose grouping error for Neonatal Critical Care, generated when the input record does not meet any of the criteria in the neonatal critical care grouping algorithm.

UZ13 ACC Grouping Error

This is a general-purpose grouping error for Adult Critical Care, generated when the input record does not meet any of the criteria in the adult critical care grouping algorithm.

UZ14 Renal (NRD) Error

This is a general error for grouping renal activity using the National Renal Data Set and is generated when conditions in the grouping algorithm have not been met.

UZ15 Burns Error

Indicates where a burns primary diagnosis code of unspecified body region or total body surface area (TBSA) is recorded, or where a burns diagnosis code is recorded, in any position, with no subsequent TBSA code present.

UZ21 CCAC Inappropriate in NCC

Generated when the Critical Care Activity Code is inappropriate for the Neonatal Critical Care HRG algorithm.