



UK Health
Security
Agency

Counts or rates of infection episodes report User Guide

ICU Data Capture System

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Document History

Revision date	Author	Version	Changes
10/07/2018	Public Health England	1.0	-
07/10/2020	Public Health England	1.1	-
20/12/2024	William McMillan and Matt Wilson, UK Health Security Agency	1.2	<ul style="list-style-type: none">• Updated branding (PHE to UKHSA)• Updated screenshots

ICU Counts or Rates of Infection Episodes Report

Introduction

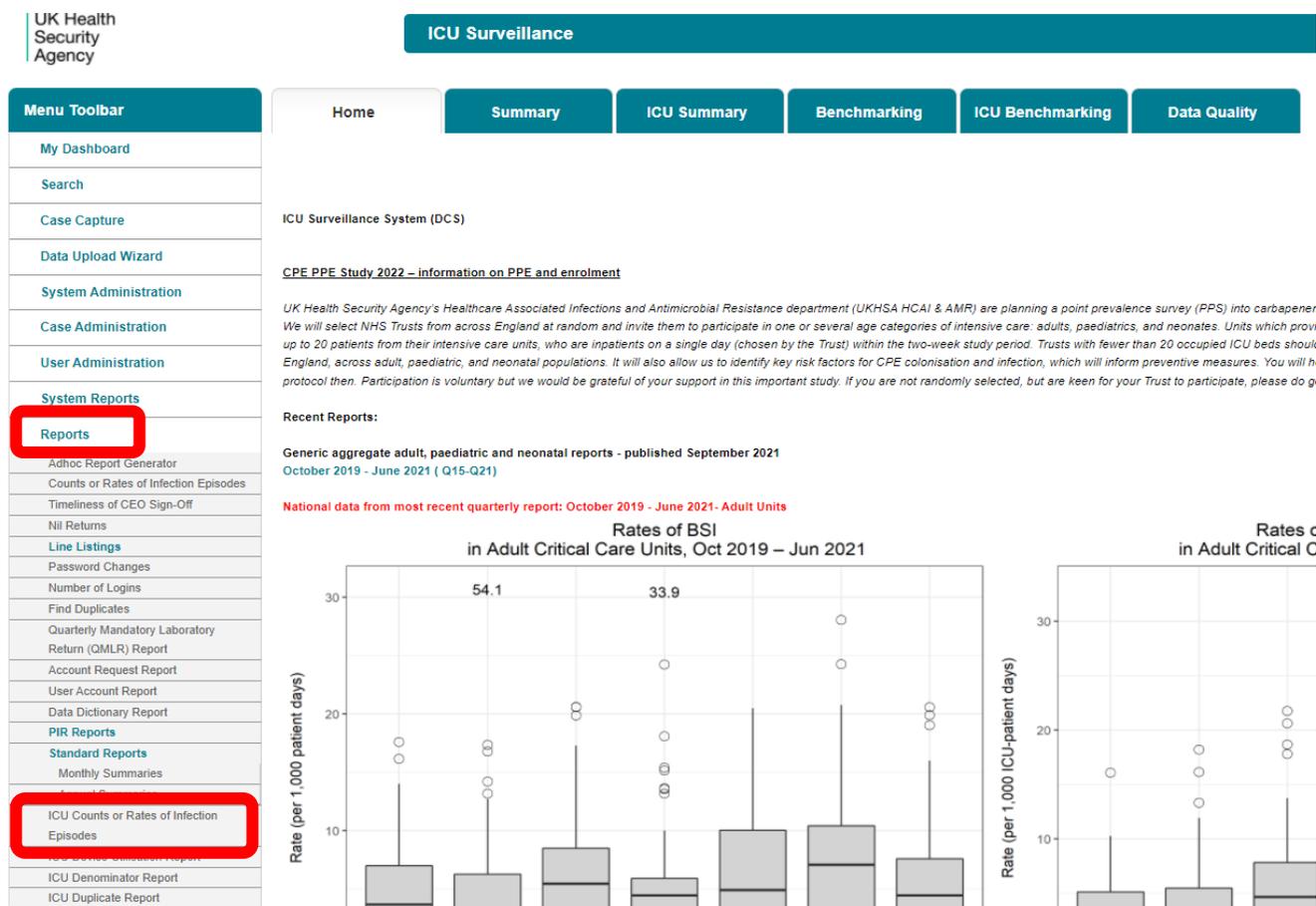
The ICU Counts or Rates of Infection Episodes Report is available for all users.

This report presents the aggregate counts/rates of the data collections for a specified time period. A number of parameters are available for you to customise your report to view the data for a number of different combinations, including different time periods, frequencies and organisations.

Accessing the Counts or Rates of Infection Episodes Report

To open this report, click on 'Reports' from the Menu Toolbar to the left-hand side of the home screen; this will then expand to show you a list of reports, where you will find 'ICU Counts or Rates of Infection Episodes' ([Figure 1](#)).

Figure 1: Menu Toolbar



Counts or Rates of Infection Episodes Report Parameter Screen

When first landing on the ICU counts or rates of infection episodes page, a report based on pre-set parameters, a screen similar to [Figure 2](#) will appear. [Table 1](#) provides an overview of the report parameters and their impact on the counts or rates of infection episodes report.

Figure 2: Counts or Rates of Infection Episodes

ICU Surveillance

ICU Counts or Rates of Infection Episodes

Period From: <input type="text" value="01/11/2020"/> Organisation Type: <input type="text" value="UK Health Security Agency"/> Summarisation Type: <input type="text" value="Count"/> Organisation: <input type="text" value="UK Health Security Agency"/> Sector: <input type="text" value="NHS"/> Source: <input type="text" value="All"/> Denominator Period: <input type="text" value="Not Applicable"/> Patient Age From: <input type="text" value="0"/> Frequency: <input type="text" value="Monthly"/> Gender: <input type="text" value="-All-"/> Bacteraemia Category: <input type="text" value="-All-"/>	Period To: <input type="text" value="08/12/2021"/> ICU Classification: <input type="text" value="-All-"/> Region: <input type="text" value="NATIONAL"/> Data Collection: <input type="text" value="ICU Blood Stream Infections"/> Limit report to: <input type="text" value="-All-"/> Denominator: <input type="text" value="Not Applicable"/> Output Type: <input type="text" value="Table"/> Patient Age To: <input type="text" value="150"/> Signed Off: <input type="text" value="-All-"/> Organism: <input type="text" value="ACHROMOBACTER SPECIES ACIT"/>
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Table 1: Counts or Rates of Infection Episodes – Report Parameters

Parameter	Comment	Parameter Type	Note
Period From and Period To	Changes the time period the data is shown for.	Date Selector	The default value for 'Period From' will be 1 st day of the current month minus 13 months. The default value for 'Period To' will be today's date. These dates can be altered by using either the calendar-style date picker or by typing in the date using the following format: DD/MM/YYYY.
Organisation Type	Changes the organisation type the report displays the data by.	Drop-down	The default value will be the organisation type that you are signed in as (for example if you are signed in as an Intensive Care Unit user, it will show Intensive Care Unit) but you are able to select any of the other options.

Parameter	Comment	Parameter Type	Note
ICU Classification	Changes the type of Intensive Care Unit the data is displayed for	Drop-down	The default option is 'All' with other options being 'Adult', 'Neonatal' and 'Paediatric'.
Summarisation Type	Changes the chart output to Count or Rate	Drop-down	<p>The default is 'Count', The data for this report can be displayed as either a 'Count' or a 'Rate'.</p> <p>Please note: Raw, uncleaned data (as submitted by a unit) are presented. This means that if 'Rates' are selected, the data presented may be different to the quarterly offline reports that are produced by the ICCQIP surveillance team. This is because in the production of the offline reports, additional data processing and cleaning is done. For example, unusually high or low denominator values, in relation to others provided by a specific unit, are removed and then imputed from the other data provided (details of the processing and cleaning of data can be found on the ICU DCS here)</p> <p>Therefore, the rates produced by the ICU DCS should be used as an estimate only. Please see your unit-specific quarterly reports for your official rates.</p>
Region	Changes the region that the data are presented for in this report. These are the NHS Regions	Multi-select drop-down	The default value is the region you are signed in as. For example, if you are an ICU user for Northwick Park ICU, the default region will be London.

Parameter	Comment	Parameter Type	Note
	and an overall 'National' value.		
Output Type	Changes whether the report is presented as a table or a chart	Drop-down	The default is 'Table'.
Organisation	Changes the organisation for which this report presents data.	Multi-select drop-down Please note: The drop-down menu can be made larger, so that you can read the full name of the organisations, by clicking on and dragging the bottom right-hand corner to a wider point.	The organisation drop-down options are based on the organisation type and region that you have already selected, that is if you have selected 'Intensive Care Unit' for the 'Organisation Type' and London for the 'Region', then all ICU units in London will be available in the 'Organisation' drop-down. The default organisation will be the organisation that you are signed into the system as. If you have access to multiple organisations of the same type, then all of the organisations will be selected as the default.
Data Collection	Changes which Data Collection the data is presented for in this report.	Drop-down	The default value is 'ICU Blood Stream Infections'. Please note: Although 'ICU Daily Census' is an option on this report, this will only give you the number of records entered for the designated time period and NOT the sum of all of the 'ICU Daily Census' records for each denominator metric. Please use the 'ICU Denominator Report' for total values for Denominators for a given time period and organisation.

Parameter	Comment	Parameter Type	Note
Limit Report To	Changes the data presented in the report according to apportionment or assignment.	Drop-down	<p>The options in this drop-down will depend on the 'Data Collection' that you selected earlier.</p> <p>Options for 'ICU Blood Stream Infections' are:</p> <ul style="list-style-type: none"> • -All- • ICU Associated • Pre-ICU
Source	Changes the site of infection that the positive blood culture is believed to be primarily associated with	Drop-down	The default option is 'All'
Patient Age From and To	Provide the age range to be included in the data presented in this report.	<p>Free-text numeric field.</p> <p>Limited to values within 0 to 150 range.</p>	The default values will be 0 to 150 years.
Denominator	Changes the denominator type used to calculate rates.	Drop-down	<p>This option is only available if 'Summarisation Type' is set to 'Rate'.</p> <p>The default value is dependent on the 'Organisation Type' that you selected earlier.</p> <p>For Intensive Care Units, the default denominator for ICU Blood Stream Infections will be 'Occupied bed days (per 1,000)'.</p>

Parameter	Comment	Parameter Type	Note
			Denominator options also vary according to the value entered in the 'Source' parameter and the 'Limit Report To' parameter. For example, if an ICU user selects 'ICU Blood Stream Infection' in the 'Data Collection' parameter; 'CVC-Associated' in the 'Source' parameter, and 'All' in the 'Limit Report To' parameter, the default denominator will be 'CVC days (per 1,000)'.
Denominator Period	Allows you to set the time period for the denominator.	Drop-down	<p>This will default to 'Most applicable', which means the system will automatically select the time period of the denominator to cover the 'Period From' and 'Period To' dates entered earlier.</p> <p>However, by selecting a specific year from the 'Denominator Period' menu, the denominator data will always be taken from the year selected, as opposed to matching the numerator time period (specified using the 'Period From' and 'Period To' dates)</p> <p>This drop-down is only available if 'Summarisation Type' is set to 'Rate'.</p>
Output Type	Changes how the data in the report is displayed	Drop-down	The default option is 'Table'
Frequency	This changes the time period frequency (for example Monthly,	Drop-down	The default is 'Monthly'.

Parameter	Comment	Parameter Type	Note
	Quarterly, and so on) that the data are presented in the report.		
Signed Off	This changes whether the data presented in the report are included within a signed-off period or not.	Drop-down	The default value is '-All-'. However, this filter allows you to see only those data that are included in signed-off periods, or conversely, those data that are included in periods that have not been signed-off.
Gender	Allows the data to be filtered by patients' gender	Drop-down	The default value is '-All-'
Organism	Allows the data to be filtered by Specimen Organism(s)	Drop-down	The list corresponds to the list of organisms in data capture. The default value is '-Select All-'
Bacteraemia Category	Changes BSI definitions applied to the dataset	Drop-down	Default value is '-All-'
Sector	This changes the sector (that is NHS or Independent Sector) for which the data will be presented in the report.	Drop-down	<p>The default value is dependent on the 'Organisation Type' selected earlier.</p> <p>If viewing data by 'Independent Sector Healthcare Provider' or 'Independent Sector Intensive Care Units', the default and the only option available, will be 'Independent'.</p>

Parameter	Comment	Parameter Type	Note
			<p>If viewing the data by 'ICU NHS Trust' or 'NHS Trust', then the default value and the only option will be 'NHS'.</p> <p>If viewing the data by national or sub-national organisations, both options are available with 'NHS' being the default option</p>

Once you have selected your parameters, please click 'View Report' to run the report. The output will appear on the screen, as shown in [Figure 3](#). You can then choose to review the report on screen by using the two scroll bars ([Figure 3](#)). You can export the report in one of four file types (PDF, CSV, Excel, Word). Please see [Figure 4](#) and [Figure 5](#) for examples of the report outputs (Table and Chart, respectively) and see [Figure 6](#) for more details on how to export the report.

Counts or Rates of Infection Episodes Report Output: Screen View

Figure 3: Counts or Rates of Infection Episodes. Report Output: Screen View

ICU Counts or Rates of Infection Episodes

Period From: 01/04/2017 Organisation Type: Intensive Care Unit Summarisation Type: Count Organisation: Sector: Source: Denominator Period: Not Applicable Patient Age From: 0 Frequency: Monthly Gender: -All- Bacteraemia Category: -All-	Period To: 01/05/2018 ICU Classification: Adult Region: NATIONAL Data Collection: ICU Blood Stream Infections Limit report to: -All- Denominator: Not Applicable Output Type: Table Patient Age To: 150 Signed Off: -All- Organism: ACHROMOBACTER SPECIES.ACII
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ICU Counts or Rates of Infection Episodes

Region	NATIONAL	Data Collection	ICU Blood Stream Infections	Signed - Off	-All-
Organisation Type	Intensive Care Unit	Period From	01/04/2017	ICU Classification	Adult
Organisation		Period To	01/05/2018	Limit report to	-All-
Denominator	Not Applicable	Patient Age From	0	Frequency	Monthly
Denominator Period	Not Applicable	Patient Age To	150	Summarisation Type	Count
Sector	NHS	Gender	-All-	Organism	-All-
Bacteraemia Category	-All-	Output Type	Table	Source	All

Organisation Name	Code	Apr-2017	May-2017	Jun-2017	Jul-2017	Aug-2017	Sep-2017	Oct-2017	Nov-2017	Dec-2017	Jan-2018	Feb-2018	Mar-2018	Apr-2018	May-2018	Total
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	2	3	2	3	2	6	1	2	3	4	3	4	0	36
		7	10	7	11	14	13	15	5	18	11	10	22	14	0	157
Total		8	12	10	13	17	15	21	6	20	14	14	25	18	0	193

Figure 4: Counts or Rates of Infection Episodes. Report Output: Table

ICU Counts or Rates of Infection Episodes

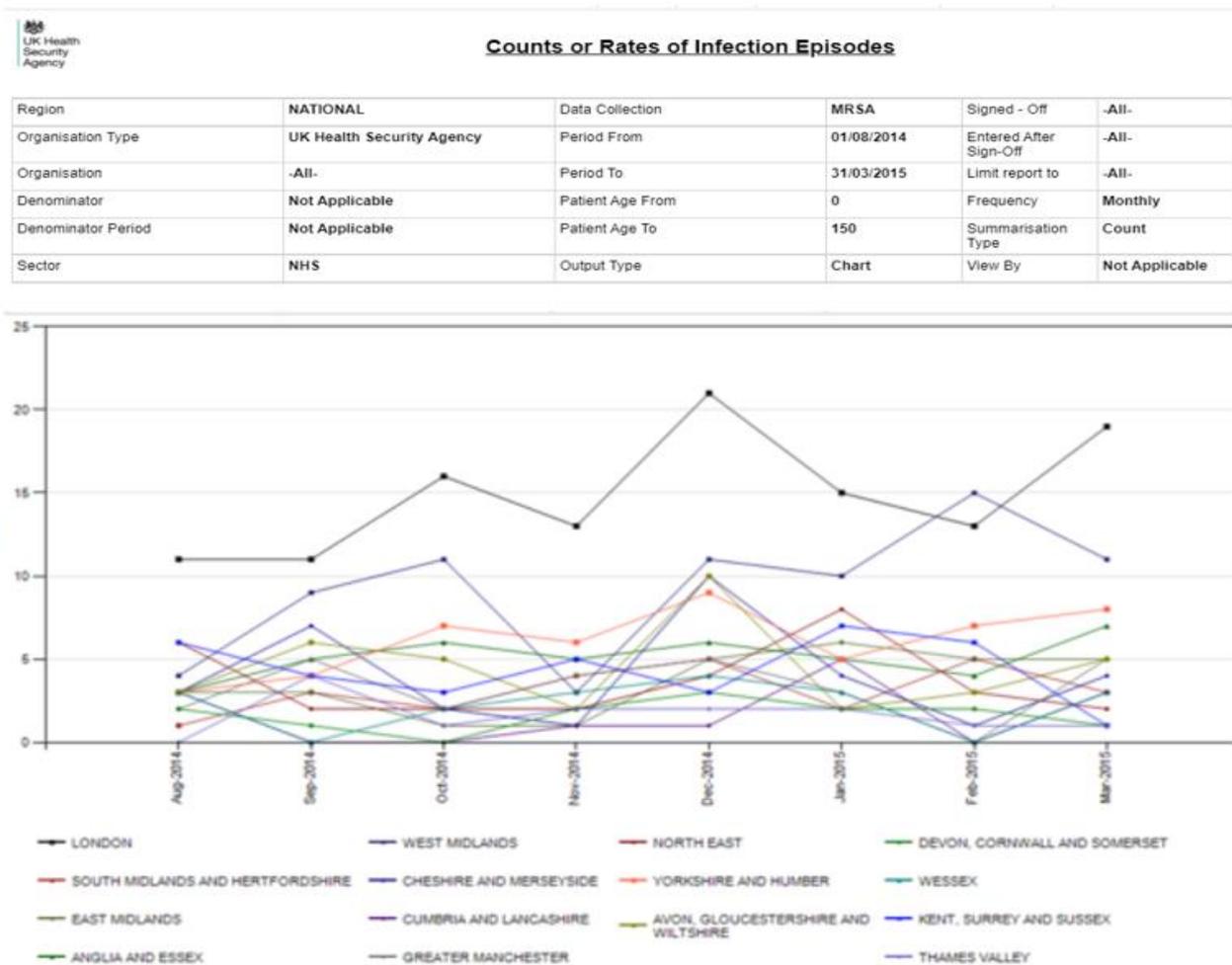
Period From: 01/04/2017 Period To: 31/01/2018
 Organisation Type: Intensive Care Unit ICU Classification: Adult
 Summarisation Type: Count Region: LONDON, SOUTH OF ENGLAND
 Organisation: R0D - ADULT CRITICAL CARE, R0D Data Collection: ICU Blood Stream Infections
 Sector: NHS Limit report to: -All-
 Source: All Denominator: Not Applicable
 Denominator Period: Not Applicable Output Type: Table
 Patient Age From: 0 Patient Age To: 150
 Frequency: Monthly Signed Off: Signed-Off
 Gender: -All- Organism: ACHROMOBACTER SPECIES, ACI
 Bacteraemia Category: -All-

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Organisation Name	Code	Apr-2017	May-2017	Jun-2017	Jul-2017	Aug-2017	Sep-2017	Oct-2017	Nov-2017	Dec-2017	Jan-2018	Total
RAS - GENERAL ITU/HDU INTENSIVE CARE UNIT (9 BEDS)	RAS1	0	0	0	0	1	1	5	1	3	3	14
RAX - KINGSTON HOSPITAL ICU	RAX1	0	0	0	0	0	0	0	0	0	0	0
RBA - MUSGROVE PARK INTENSIVE CARE UNIT	RBA1											0
RBD - DORSET COUNTY HOSPITAL CRITICAL CARE UNIT	RBD1	4	0	0	0	0	0	0	0	0	0	4
RBZ - NORTH DEVON CRITICAL CARE	RBZ1	0	0	0	0	0	0	0	0	0	0	0
RD1 - CRITICAL CARE UNIT	RD11	0	0	0	0	0	0	0	0	0	0	0
RDU - FRIMLEY PARK HOSPITAL CRITICAL CARE UNIT	RDU1	0	0	0	0	0	0	0	0	0	0	0
RDU - WEXHAM PARK HOSPITAL CRITICAL CARE UNIT	RDU2	0	0	0	0	0	0	0	0	0	0	0
REF - CRITICAL CARE UNIT	REF1	0	0	0	0	0	0	4	1	7	5	17
RH5 - MUSGROVE PARK INTENSIVE CARE UNIT	RH51	5	1	4	9	1	2	1	2	2	2	29
RH8 - MIXED GENERAL ICU/HDU WITH 15 BEDS	RH82	1	2	1	0	5	4	3	1	3	1	21
RHM - CTICU	RHM1	0	0	0	0	0	0	0	0	0	0	0

¹ Please note that the numbers on this table are not actual data, but simply represents dummy data inserted for testing purposes.

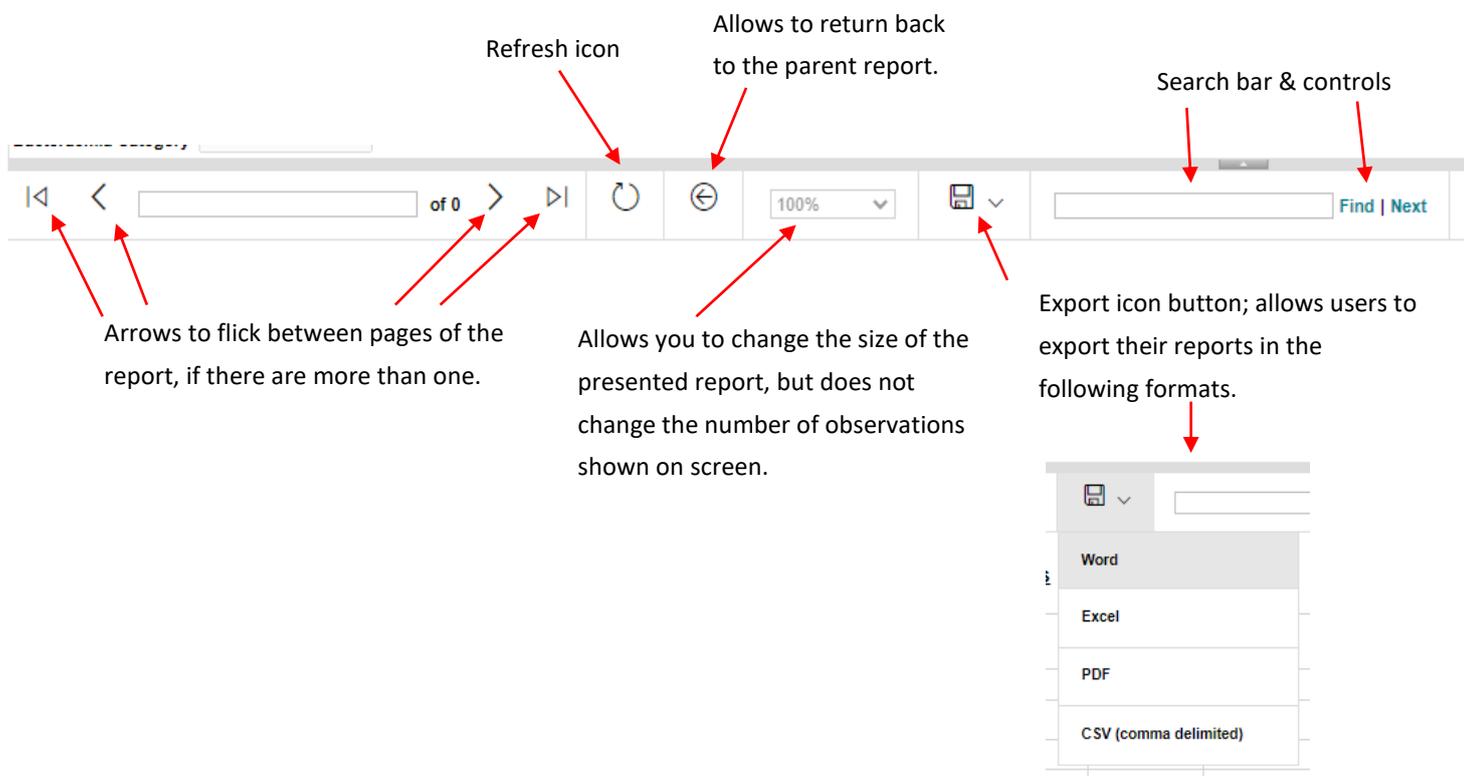
Figure 5: Counts or Rates of Infection Episodes. Report Output: Chart



Please note that the numbers on this table are not actual data, but simply represents dummy data inserted for testing purposes

Please note that the chart will be produced whether you include one organisation or >200 organisations. The charts will become unclear if you include too many organisations. If you wish to look at many organisations at once, the table output is more suitable.

Figure 6: Counts or Rates of Infection Episodes Report Icons



About the UK Health Security Agency

The UK Health Security Agency is an executive agency, sponsored by the [Department of Health and Social Care](#).

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