Public Health England

Protecting and improving the nation's health

ICU Data Capture System
User Manual

Counts or Rates of Infection Episodes Report

About Public Health England

Public Health England exists to protect and improve the nation's health and wellbeing, and reduce health inequalities. It does this through world-class science, knowledge and intelligence, advocacy, partnerships and the delivery of specialist public health services. PHE is an operationally autonomous executive agency of the Department of Health.

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Document History

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Counts or Rates of Infection Episodes Report

Introduction

The counts or rates of infection is a complex report, from which many of the standard reports (Monthly Summaries and Annual Summaries) run. The counts or rates report is available for all users.

This report presents the aggregate counts/rates of any of the data collections for a specified time period. A number of parameters are available for you to change so that you can 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: Menu Toolbar

Counts or Rates of Infection Episodes Report Parameter Screen

When first landing on the 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

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 1st day of the current month – 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 (e.g. 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
Summarisation Type	Changes the chart output to Count or Rate	Drop-down	The default is 'Count' but the data for this report can be displayed as either a Count or a Rate. KH03 returns are published on a quarterly basis as an average value for a three month period. Only aggregated quareterly reports are available on the ICU Surveillance homepage, under reports link. Unit level reports are sent out to respective Trusts only. On the ICU DCS, the KH03 occupied overnight bed days start off as a total for the relevant financial year. In order for the system to then calculate a rate for a given time period, the total for the financial year is divided by the number of days in the financial year and then multiplied by the number of days in the time period in question. As the data starts of as a financial year as opposed to a quarter, any seasonal differences in bed day values are removed and so the rates will be slightly different. The rates produced by the ICU DCS should be used as an estimate only, please see the official outputs on the PHE gov.uk pages for the actual infection rates.
Region	Changes the region that the data are presented for in this report. These are the NHS Regions and an overall 'National' value.	Multi-select drop-down	The default value is the region you are signed in as. For example, if you are an ICU user for Nortwick Park ICU, the default region will be London.

Parameter	Comment	Parameter Type	Note
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 NB. 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, i.e. 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.
Limit Report To	Changes the data presented in the report according to apportionment or assignment.	Drop-down	The options in this drop-down will depend on the Data Collection that you selected earlier. ICU Blood Stream Infections options: • -All- • ICU Associated • Pre-ICU ICU Daily Census • -All-
Patient Age From and To	Provide the age range to be included in the data presented in this report.	Free-text numeric field. Limited to values within 0 to 150 range.	The default values will be 0 to 150 years.

Parameter	Comment	Parameter Type	Note
Denominator	Changes the denominator type used to calculate rates.	Drop-down	This option is only available if Summarisation Type is set to Rate. The default value is dependent on the organisation type that you selected earlier. For Intensive Care Units, the default denominator for ICU Blood Stream Infections will be 'Occupied bed days (per 1,000)'. Denominator options also vary according the value entered in the "Source" parameter and the 'Limit Report To' pramaeter. 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	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 To dates entered earlier. However, a specific denominator period can be selected if required, although if you want to look at rates over multiple years, the denominator will always be for the year selected, as opposed to matching the denominator with the numerators time period. This drop-down is only available if Summarisation Type is set to Rate
Frequency	This changes the time period frequency (eg. Monthly,	Drop-down	The default is 'Monthly'.

Parameter	Comment	Parameter Type	Note
	weekly, etc) that the data are presented as in this report.		
Signed Off	This changes the data that are presented by this report with respect to whether the data shown in within a signed-off period or not.	Drop-down	The default value in '-All-'. However, this filter allows you to see only those data that are included in signed-off periods, or conversely, those data that are in periods that have not been signed-off.
Entered After Sign-Off	This changes the data that are presented in this report with respect to whether the data were entered after a period had been initially signed of or not.	Drop-down	The default value is '-All-'. However, this filter allows you to exclude data that have only been entered after a period has been signed off, i.e. through the unlocking procedure, or those records entered before a period has been signed-off.
Sector	This changes the sector (i.e. NHS or Independent Sector) for which the data will be presented in this report.	Drop-down	The default value is dependent on the Organisation Type selected earlier. If viewing data by Independent Sector Healthcare Provider or Independent Sector Healthcare Provider Site the default, and only option available, will be "Independent". If viewing the data by Intensive Care Unit, then the default value, and only option, will be 'NHS'. If viewing the data for a CCG or sub-national/national group, the default value will be 'NHS but for these groups, the data can be filtered to include '-All-' (i.e. both NHS and Independent Sector

Parameter	Comment	Parameter Type	Note
			cases) as well as only Independent Sector cases.

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. Or you can export the report in one of four file types (PDF, CSV, Excel, Word). Please see Figure 4 and 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

For a more detailed explanation of the highlighted icons please see Figure 6.

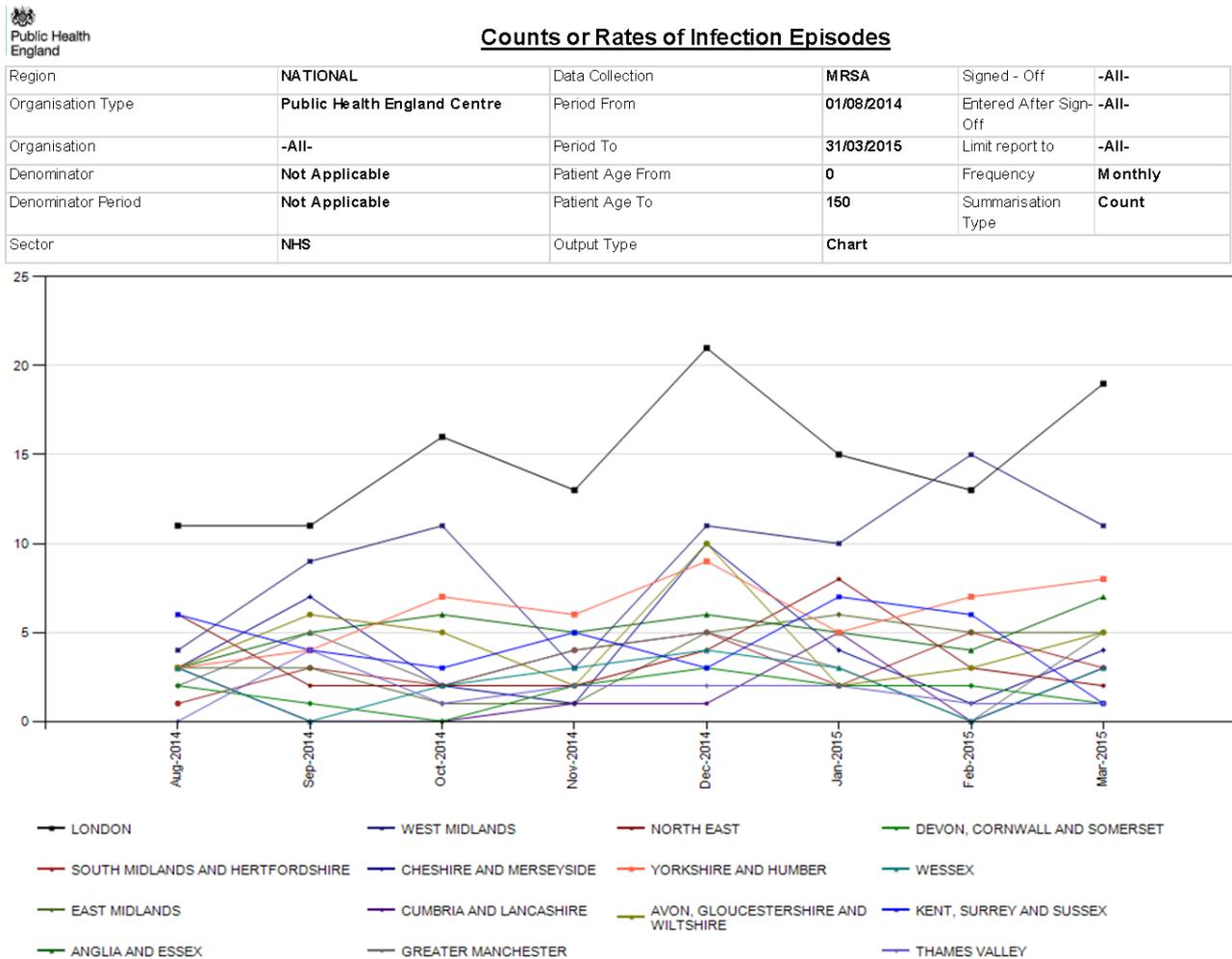# Counts or Rates of Infection Episodes Report Output: Table

Figure 4: Counts or Rates of Infection Episodes. Report Output: Table[1]

ICU Counts or Rates of Infection Episodes

Region	LONDON SOUTH OF ENGLAND	Data Collection		ICU Blood Stream Infections	Signed - Off	-All-
Organisation Type	Intensive Care Unit	Period From		01/04/2017	ICU Classification	Adult
Organisation	-All-	Period To		31/01/2018	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	Total
CICU	RA72	0	0	0	0	0	0	0	0	0	0	0
R1F - CRITICAL CARE UNIT	R1F1	0	0	0	0	0	0	0	0	0	0	0
R1H - WHIPPS CROSS SPECIAL CARE BABY UNIT	R1H1	0	0	0	0	0	0	0	0	0	0	0
R1K - CENTRAL MIDDLESEX ICU	R1K1	0	0	0	0	0	0	0	0	0	0	0
R1K - NORTHWICK PARK ICU	R1K2	1	1	0	1	0	0	0	0	0	0	3
RA2 - INTENSIVE CARE UNIT (28 BED ADULT)	RA21	0	0	0	0	0	0	0	0	0	0	0
RA3 - INTENSIVE CARE UNIT, WESTON GENERAL HOSPITAL	RA31	0	0	0	0	0	0	0	0	0	0	0
RA4 - YEOVIL DISTRICT HOSPITAL ICU, TBC	RA41	0	0	0	0	0	0	0	0	0	0	0
RA7 - ADULT ICU, BRISTOL ROYAL INFIRMARY	RA71	0	0	0	0	0	0	0	0	0	0	0
RA9 - TORBAY INTENSIVE CARE UNIT	RA91	0	0	0	0	0	0	0	0	0	0	0
RAL - BARNET HOSPITAL - LEVEL 3 CRITICAL CARE UNIT	RAL1	0	0	0	0	0	0	0	0	0	0	0
RAL - THE ROYAL FREE HOSPITAL- LEVEL 3 CRITICAL CARE UNIT	RAL2	0	0	0	0	0	0	0	0	0	0	0
RAN - ALAN BRAY UNIT - HIGH DEPENDENCY UNIT AND INTENSIVE UNIT (ADULTS)	RAN1	0	0	0	0	0	0	0	0	0	0	0
RAN - PAEDIATRIC HIGH DEPENDENCY UNIT (PAEDIATRICS)	RAN2	0	0	0	0	0	0	0	0	0	0	0

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

Counts or Rates of Infection Episodes Report Output: Chart

Figure 5: Counts or Rates of Infection Episodes. Report Output: Chart[2]

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 will be clearer.

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

Counts or Rates of Infection Episodes Report Icons

Figure 6: Counts or Rates of Infection Episodes Report Icons