

Protecting and improving the nation's health

Hospital Norovirus Outbreak Reporting System

User guidance

Version 1.0, updated October 2019

About Public Health England

Public Health England exists to protect and improve the nation's health and wellbeing, and reduce health inequalities. We do this through world-leading science, research, knowledge and intelligence, advocacy, partnerships and the delivery of specialist public health services. We are an executive agency of the Department of Health and Social Care, and a distinct delivery organisation with operational autonomy. We provide government, local government, the NHS, Parliament, industry and the public with evidence-based professional, scientific and delivery expertise and support.

Public Health England Wellington House 133-155 Waterloo Road London SE1 8UG Tel: 020 7654 8000 www.gov.uk/phe Twitter: @PHE_uk Facebook: www.facebook.com/PublicHealthEngland

Prepared by: Gastrointestinal Infections Department For queries relating to this document, please contact: NoroOBK@phe.gov.uk



© Crown copyright 2019

You may re-use this information (excluding logos) free of charge in any format or medium, under the terms of the Open Government Licence v3.0. To view this licence, visit OGL. Where we have identified any third-party copyright information you will need to obtain permission from the copyright holders concerned.

Published: October 2019 PHE publications gateway number: GW-812



PHE supports the UN Sustainable Development Goals



Contents

About Public Health England	2
Introduction	4
How to log in	5
Navigating the system	6
View or edit an existing report	9
Definitions	11
FAQs	13
Suggestions	15

Introduction

The Hospital Norovirus Outbreak Reporting System (HNORS) is the only surveillance system capturing information on outbreaks of suspected and confirmed norovirus in English hospitals and the disruption and bed days lost throughout the year. It enables assessment and quantification of the impact and burden on hospital resources each winter and also provides context to the detection of mid-summer peaks of norovirus. These data are used in the National Official Statistics Norovirus and Rotavirus report which forms part of the Winter Media Briefing.

Infection control staff in NHS Trusts use the web-based Hospital Norovirus Outbreak Reporting Tool (HNORT) to enter data on outbreaks occurring in their Trust and can download these data for their own use. Each organisation can view summary tables of the number of outbreaks reported each month by region, by organisation in their region. There is also a more detailed summary of the 40 most recent reported outbreaks in their region.

HNORS is maintained by the National Gastrointestinal Infections Team within the Tuberculosis; Acute Respiratory, Gastrointestinal, Emerging /Zoonotic Infections; and Travel Health Division (TARGET) at PHE Colindale but staff in Field Services and all PHE centres with login details can access the system and see information on confirmed or suspected outbreaks of norovirus reported from hospitals in their region.

The system also reports information on the number of norovirus laboratory reports from the Second Generation Surveillance System (SGSS) which is curated by PHE Colindale and provides real-time information both locally and nationally.

The system can be accessed from the web address: https://hnors.phe.gov.uk/

To obtain login details, please email to noroOBK@phe.gov.uk:

- NHS Trust name
- NHS hospitals in that Trust
- reporter's name
- reporter's NHS email address

Data collected by HNORS is used in the Official Statistics Norovirus and Rotavirus report which is published on a Thursday morning at 09.30am on a weekly basis during the winter and a monthly basis from April to October and can be found in the 'Epidemiology and surveillance' section of the PHE norovirus webpages available at: www.gov.uk/government/collections/norovirus-guidance-data-and-analysis

How to log in

1. To login to the Norovirus Outbreak Reporting Tool please select your region from the drop-down menu on the left of the homepage and click 'Log in'.

Public Health Hospital Norovirus Outbreak Reporting Tool England

Your Controls Notivitus a feeguent case of outbreaks of gastroenteritis in NHS hospitals. Reporting outbreaks through this online surveillance tool will prove a stree of outbreaks of gastroenteritis in NHS hospitals. Reporting outbreaks through this online surveillance tool will prove a stree of outbreaks of gastroenteritis in NHS hospitals. Reporting outbreaks through this online surveillance tool will prove a stree of outbreaks of gastroenteritis in NHS hospitals. Reporting outbreaks through this online surveillance tool will prove a stree of outbreaks of gastroenteritis in NHS hospitals. Reporting outbreaks through this online surveillance tool will prove a stree of outbreaks of gastroenteritis in NHS hospitals. Reporting tool prevals streets and outbreaks on a regular basis. Weekly reporting is recommended to the will not outbreak through the province subtreaks of gastroenteritis in NHS hospitals. Report in the outbreak tool outbreak through the province subtreaks of gastroenteritis in NHS hospitals. Report in the outbreak tool outbreak through the province subtreaks of gastroenterities in NHS hospitals. Report in the outbreak tool outbreak tool outbreaks tool outbreak t	Navigation	Norovirus Outbreak Reporting Tool
 A construction of the standard of	Home	Norovirus is a frequent cause of outbreaks of gastroenteritis in NHS hospitals. Reporting outbreaks through this online surveillance tool will provi
You dre not ogget region to begin the login process.	Contacts	-a timely estimate of norovirus epidemics
Please select region to begin the login process. glor: c: Region cain To login to the Norodrus Outbreak Reporting Tool please select your region using the menu to the left and click Login. The will sale you to a scleen the name of your N4S trust and enter the password for it. Complete the login process. To login to the Norodrus Outbreak Reporting Tool please select your region using the menu to the left and click Login. The will sale you to a scleen the visit of the name of your N4S trust and enter the password for it. Complete the login process. The Norodrus Outbreak Reporting Tool please select your region using the Burget fact and enter the password for it. Complete the login process. The login to the sole of the name of your N4S trust and enter the password for it. Complete the login process. The Norodrus Outbreak Reporting to create a view and using the Burget fact or top menu areas. Nemes true true the password top menu areas The sole of any time using the Burget fact or the report as aved and data will not be saved in the database unless the confirmation screen is displayed. Configure the login process. Configure the login process. Cheidance The sole of any time using the Burget fact on on the PHE norovirus page: Philosoffact on on the PHE norovirus page: Philosoffact or pages Corodrus Pages Capit of and any and page of any any and any and any action on the PHE norovirus page: Philosoffact or page of any any any any any an		-improved understanding of the burden of disease
set Regin > eg In		-help in the detecting the emergence of new epidemic norovirus variants
The report as the saved at any time using the Save button. Any errors will be reported when the report is saved and data will not be saved in the database unless the confirmation screen is displayed. Guidance: MNORS user guidance: Caldelines for the management of norovirus outbreaks in acute and community heatth and social care settings Caldelines for the management of norovirus activity please see the "what's new" section on the PHE norovirus page: PHE Norovirus Pages Caraph of norovirus laboratory reports by reporting Year/Week $\frac{2003}{2011} \frac{2004}{2012} \frac{2005}{2013} \frac{2006}{2017} \frac{2008}{2018} \frac{2009}{2017} \frac{2010}{2018}$	ct Region	Definition of an outbreak To login to the Norovirus Outbreak Reporting Tool please select your region using the menu to the left and click Login. This will take you to a screen which will ask you to select the name of your NHS trust and enter the password for it. Complete the login process by hitting the login button.
HNDRS user guidance: Guidelines for the management of norovirus outbreaks in acute and community health and social care settings Reports For the latest information on norovirus activity please see the "what's new" section on the PHE norovirus page: PHE Norovirus Pages Graph of norovirus laboratory reports by reporting Year/Week $ \begin{array}{c} 2003 & 2004 & 2005 & 2006 & 2007 & 2008 & 2009 & 2010 \\ 2011 & 2012 & 2013 & 2014 & 2015 & 2016 & 2017 & 2018 \\ \end{array} $		Press the select button from this screen to create or view/edit a report. This will bring up the report page. The report can be saved at any time using the Save button.
Guidelines for the management of norovirus outbreaks in acute and community health and social care settings Reports For the latest information on norovirus activity please see the "what's new" section on the PHE norovirus page: PHE Norovirus Pages Graph of norovirus laboratory reports by reporting Year/Week 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2019 2014 2015 2016 2017 2018		Guidance
For the latest information on norovirus activity please see the "what's new" section on the PHE norovirus page: PHE Norovirus Pages Graph of norovirus laboratory reports by reporting Year/Week		
PHE Norovirus Pages Graph of norovirus laboratory reports by reporting Year/Week 2003 2004 2005 2006 2007 2008 2009 2010 2010 2011 2012 2013 2014 2015 2016 2017 2018 900 0 0 0 0 0 0 0 0 900 0 0 0 0 0 0 0 0 900 0 <td< td=""><td></td><td>Reports</td></td<>		Reports
2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2019 2019 2019 2019 2019 2019 2010 2014 2015 2016 2017 2018 2017 2018 2019 2019 2010 2		
100- 100- 100- 100- 100- 100- 100- 100-		2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2010 2012 2013 2014 2015 2016 2017 2018
8 600- 8 500-		
g 600- g 500-		9 700-
æ 500-		<u>9</u> 600-
		a 500-
		5 200_

This will take you to a screen which will ask you to select the name of your organisation from a drop-down menu, enter your password and click 'Log in'.

Public Health Hospital Norovirus Outbreak Reporting Tool England

Home	
Navigation	Norovirus Outbreak Reporting Tool
→ Home Contacts	Select the name of your organisation from the select box and enter the password. Click "Login" to proceed.
	Organisation
Logging in to Region: LONDON	Select Organisation
	Password
	Log In

© Public Health England - Designed, developed and maintained by The Bioinformatics Unit - Any Queries Email: noroOBK@phe.gov.uk

Navigating the system

Creating a new outbreak report

1. Once you have logged in to the system, you can view and edit old reports or create a new one by clicking on the **Outbreak Report Data** links of the menus; on either the left-hand side navigation menu or at the top of the webpage.



2. To create a new outbreak report, click 'Select' next to 'Begin New Outbreak Report'.



- © Public Health England Designed, developed and maintained by The Bioinformatics Unit Any Queries Email: noroOBK@phe.gov.uk
- 3. Once the outbreak report sheet is displayed enter the details of your outbreak. There is a '**Definition of an outbreak**' link at the top of this page which may be helpful.

Case definitions and outbreak definitions are included on pages 11 and 12 of this guidance document.

Rublic Health Hospital Norovirus Outbre England	ak Reporting Tool	
ome Outbreak Report Data		
	Nereviewe Outbreak Beneting Teel	
Navigation	Norovirus Outbreak Reporting Tool	
Home	Oubreak reported by NHS TRUST	
Outbreak Report Data	Definition of an outbreak	
Outbreaks by region and month	Fields indicated with a red asterisk [*] must be completed. Cells bordered in blue require a date field that must be entered using the Calender button to the right.	
Outbreaks by organisation and month	Cells boldered in blue require a date liefu mat must be entered using the calender buildon to the right. Date fields can be deleted by double clicking on the field and responding "OK" to the prompt.	
Regional outbreaks	Cells bordered in green require a number to be entered.	
Download outbreak report data		
	NHS Trust: . NHS TRUST	
Contacts	Cfl Reference:	
Logged in as:	Reporter Name*	
NHS TRUST Log Out	Reporter Email	
	Hospital Name*	
	Select Hospital	
	Hospital Ward Name*	
	Ward Type	
	Number of Beds on Ward/Bay	
	Number of Patients Affected	
	Number of Staff Affected	
	First Date of Onset*Click for Calendar	
	Last Date of OnsetClick for Calendar	
	Ward Closed to Admissions?	
	Bay Closed to Admissions? Yes	
	Has the outbreak been confirmed in Oyes ONo the Laboratory?	
	Number of Specimens	
	Number of Positive Specimens	
	llog (Laboratory Reference)	
	Is the Outbreak Ongoing?	
	~	
	Comments	
	×	
	Save	

4. The report can be saved at any time using the 'Save' button at the bottom of the reporting sheet.

With Public Health Hospital Norovirus Outbre England	ak Reporting Tool
Home Outbreak Report Data	
Navigation	Norovirus Outbreak Reporting Tool
Home	Outbreak reported by INHS TRUST Definition of an outbreak Fields indicated with a red sterisk* must be completed. Fields indicated with a red sterisk* must be entered using the Calender button to the right. Date fields can buter equire a date field that must be entered using the Calender button to the right. Date fields can be detected by double clicking on the field and responding "Ok" to the prompt. Cells bordered in green require a number to be entered.
Contacts	NHS Trust:
Logged in as: NHS TRUST Log Out	Reporter Name* Reporter Email Hospital Name*
	Select Hospital Vard Type Vard Type Vard Type Vard Type Varber of Batents Affected Varber of Staff Affected First Date of Onset Vard Closed to Admissions? Yes Has the outbreak been confirmed in Last Date of Admissions? Yes Has the outbreak been confirmed in Cyes ©No Varber of Specimens Iog (Laboratory? Varber of Specimens Iog (Laboratory Reference) Is the Outbreak Ongoing? Ves Onto Comments
	Save
© Public Health England - Designed developed and maintained by The Bioinform	astics Unit - Any Queries Email: noroOBK@nhe gov.uk

England - Designed, developed and maintained by The ioinformatics Unit - Any Quer Email: noroOBK

- 5. Any errors will be highlighted when the report is saved, please correct the data and save again (data will not be saved in the database unless all errors are corrected and the confirmation screen is displayed). Note that you can view and edit any existing reports later, please see page 9 of this document for details.
- 6. Data can be downloaded as an MS Excel spreadsheet by clicking on '**Download outbreak report data**' in the navigation box on the left of the screen.

Public Health Hospital Norovirus Outbrea England	ak Reporting Tool
Home Outbreak Report Data	
Navigation Home • Outbreak Report Data Outbreaks by region and month Outbreaks by organisation and month	Norovirus Outbreak Reporting Tool Outbreak reported by NHS TRUST Definition of an outbreak Fields indicated with a red asteriak* must be completed. Cells bordered in blue require a date field that must be entered using the Calender button to the right. Cale bordered to ydoubc clicking on the field and responding "Ok" to the prompt. Cells bordered in green require a number to be entered. Cells bordered and use an umber to be entered.
Download outbreak report data	NHS Trust: . NHS TRUST Cfl Reference:
Logged in as: NHS TRUST Log Out	Reporter Name* Reporter Email Hospital Name*
	Select Hospital Hospital Ward Yame* Ward Type Number of Bads on Ward/Bay Number of Patients Affected First Date of Onset* Last Date of Onset* Ward Closed to Admissions? Yes Bay Closed to Admissions Yes Bay Closed to Admissions Yes Bay Clos
	Comments

© Public Health England - Designed, developed and maintained by The Bioinformatics Unit - Any Queries Email: noroOBK@phe.gov.uk

View or edit an existing report

Viewing and closing ongoing outbreak reports

1. Navigate to the 'Outbreak Report Data' page, click '**Show**' under 'Ongoing Outbreaks' and click '**Edit**' for the outbreak you would like to update or close.

Home Outbreak Report Data							
Navigation	Norov	irus Outbreak Reporting Tool					
Home	An Excel Click on t	below gives a listing of the hospital outbreaks spreadsheet of the results can be donwloade he Hide or Show buttons to hide or display or New Outbreak Report: select	d by clicking on this lin ngoing or closed out	k: Download Results			NHS TRUST
Download outbreak report data Contacts		ng Outbreaks					
Logged in as:	Hide Cfl Ref. No.	Hospital Name	Ward Name	Date of First Onset			
NHS TRUST Log Out	2019-		Ward	2019-07-25	Edit	Print	
	2019-		Ward	2019-07-07	Edit	Print	
	2019-		Ward	2019-07-05	Edit	Print	
	2019-		Ward	2019-05-02	Edit	Print	
	2019-		Ward	2019-04-20	Edit	Print	
	Closed Show	Outbreaks					

2. Make the required changes, then to complete the outbreak report select '**No**' for the 'is this outbreak ongoing?' question and save. The outbreak is now considered as being over and the record will be shown as closed.

Public Health Hospital Norovirus Outbre England	ak Reporting Tool			
Home Outbreak Report Data				
Navigation	Norovirus Outbreak Repor	rting Tool		
Home Vutbreak Report Data Outbreak by region and month Outbreaks by organisation and month Regional outbreaks Download outbreaks Download outbreaks	Outbreak reported by <u>Definition of an outbreak</u> Fields indicated with a red asterisk* mus Cells bordered in bue require a date field Date fields can be deleted by double clici Cells bordered in green require a number	d that must be entered usi king on the field and respo		
Contacts	NHS Trust: Cfl Reference:		. NHS TRUST	
Logged in as: NHS TRUST Log Out	Reporter Name* Reporter Email Hospital Name*			
	Bay Closed to Admissions? Has the outbreak been confirmed in (the Laboratory? Number of Specimens Number of Positive Specimens liog (Laboratory Reference)	Yes Yes Oyes ONo 9yes ONo Save	Click for Calendar	
© Public Health England - Designed, developed and maintained by The Bioinform	natics Unit - Any Queries Email: noroOBK@	phe.gov.uk		

Editing closed outbreak reports

1. Navigate to the 'Outbreak Report Data' page, click '**Show**' under 'Closed Outbreaks' and click '**Edit**' for the outbreak you would like to update.

England	provirus	outbreak Reportir	ıg Tool				
Home Outbreak Report Data Navigation	Norovi	rus Outbreak Reporting	Tool				
Home Outbreak Report Data Outbreaks by region and month	An Excel s	pelow gives a listing of the hospital o preadsheet of the results can be do e Hide or Show buttons to hide or c	wloaded by clicking on this lin	ik: Download Result	2		NHS TRUST
Outbreaks by organisation and month Regional outbreaks	Begin	New Outbreak Report:	Select				
Download outbreak report data Contacts	Ongoin Show	g Outbreaks					
Logged in as:		Outbreaks					
TRUST Log Out	Cfl Ref. No.	Hospital Name	Ward Name	Date of First Onset			
	2019-		Ward	2019-04-05	Edit	Print	
	2019-		Ward	2019-04-02	Edit	Print	
	2019-			2019-04-01	Edit	Print	

2. Make the required changes then save to close the outbreak.

Outbreak Report Data		
Navigation	Norovirus Outbreak Reporting To	ol
Home Outbreaks by region and month Outbreaks by organisation and month Regional outbreaks Download outbreak report data	Outbreak reported by <u>Definition of an outbreak</u> Fields indicated with a red asterisk* must be comple Cells bordered in blue require a date field that must Date fields can be deleted by double clicking on the Cells bordered in green require a number to be enter	be entered using the Calender button to the right. field and responding "Ok" to the prompt.
Contacts	NHS Trust: Cfl Reference:	. NHS TRUST
Logged in as: NHS TRUST Log Out	Reporter Name* Reporter Email Hospital Name*	
	Select Hospital	
	Hospital Ward Name* Ward Type Number of Beds on Ward/Bay Number of Patients Affected	
	Number of Staff Affected First Date of Onset Last Date of Onset	Click for Calendar Click for Calendar
	Ward Closed to Admissions? Bay Closed to Admissions? Has the outbreak been confirmed in the Laboratory? Yes ONo	
	Number of Specimens Number of Positive Specimens Ilog (Laboratory Reference)	
	Is the Outbreak Ongoing?	
	Comments	0

Definitions

Case definitions

A suspected case of norovirus:

- vomiting two or more episodes of vomiting of suspected infectious cause* occurring in a 24-hour period
- diarrhoea two or more loose stools in a 24-hour period*
- diarrhoea and vomiting one or more episodes of both symptoms occurring within a 24-hour period *

*not associated with prescribed drugs or treatments and not associated with reaction to anaesthetic or an underlying medical condition or existing illness

A **confirmed** case of norovirus: a, b or c above with microbiological confirmation.

Outbreak definitions

A suspected outbreak:

Two or more cases, as defined above, occurring in a functional care unit (e.g. a ward or bay) within the hospital without laboratory confirmation.

A confirmed outbreak:

Two or more cases, as defined above, occurring in a functional care unit (e.g. a ward or bay) within the hospital with laboratory confirmation.

NB: Suspected AND laboratory confirmed norovirus outbreaks should be reported.

In the absence of laboratory confirmation, the following criteria can be used as a rough indicator of a norovirus outbreak:

- average duration of illness of 12 to 60 hours
- average incubation period of 24 to 48 hours
- more than 50% of people with vomiting and
- no bacterial agent found

If you suspect that an outbreak was caused by norovirus, but it does not strictly meet these criteria, it should still be reported. Please report each affected ward separately, for example, if there are cases on 3 wards or care units report 3 separate outbreaks, unless it concerns transfers of patients suspected or known to be infected with norovirus and no new infections occurred on the ward or unit the symptomatic patients were transferred to. An outbreak is considered over when there have been no new cases for 7 days. For example, if there are a series of cases, then a break for 10 days followed by more cases, please report 2 separate outbreaks.

An outbreak will be considered to be over if there are no new cases arising after 7 days after the last case was considered to be symptom free.

Bed days lost

The calculation of bed days lost is a simple sum of the number of unused beds for each day when the ward or bay was closed. So, if you have a ward closed for 3 days with 3 empty beds each day of closure that would equate to 3x3=9 bed days lost.

We understand that it isn't always easy to know how many beds remained empty, in which case just leave it blank.

Date of onset

Date of onset of symptoms in the first suspected case, whether vomiting or diarrhoea.

Last date of onset

Date of onset of symptoms in the last suspected case, whether vomiting or diarrhoea.

FAQs

- 1. What should I do if I am unable to log into HNORS? If you do not know or have forgotten your password or login details, please email <u>NoroOBK@phe.gov.uk</u> or contact Amy Douglas on 0208 327 6854.
- 2. Do you require reports from independent hospitals or the private sector? No thank you, we only collect data from NHS Trusts.
- 3. Do you require reports from care homes? We do not collect data from care homes, but we do collect data from NHS community hospitals.
- 4. What do I do if the name of my Trust has changed? Please contact the national Norovirus Surveillance Team (<u>NoroOBK@phe.gov.uk</u>) with the details of the new Trust name and the hospitals associated with that Trust.
- 5. The hospital I need to enter data for is not on the system? Please contact the national Norovirus Surveillance Team (<u>NoroOBK@phe.gov.uk</u>) with the hospital details (hospital name and Trust name) and we will add it onto the system.
- 6. What does 'number of specimens' mean? This is the total number of specimens (usually stool samples) taken from each symptomatic patient or member of staff and sent for norovirus testing by your own laboratory.
- 7. If there are multiple wards involved in one outbreak, should I report them separately or as one? Outbreaks of suspected or confirmed norovirus should be reported for each ward individually, unless the outbreak concerns the exact same patients who have been transferred between wards and there is no indication of onward transmission of infection to other patients within the ward to which the patients were transferred.
- 8. How can I download data to carry out my own analyses? The data you have entered can be downloaded as an excel spreadsheet by clicking on 'Download outbreak report data' in the Navigation box on the left-hand side of the page. If you have any problems downloading the data, please email the national Norovirus Surveillance Team at noroOBK@phe.gov.uk.

- 9. How can I get an account created? To receive login details, please email the following to <u>noroOBK@phe.gov.uk</u>: NHS Trust name, hospitals within that Trust and reporter's name.
- 10. Do all fields have to be completed or are some fields more important than others?

There are some compulsory fields (Reporter Name, Hospital Ward Name, Hospital Name, Numbers of Patients/Staff Affected, Date of Onset) which have to be completed in order for the report to be saved on the system. These fields constitute the minimum information needed for effective surveillance of suspected or confirmed norovirus outbreaks in hospitals, however we are aiming to record the impact of norovirus outbreaks so additional information is requested and the more complete the data entry is, the more accurate our outputs will be.

Even if some data are not known at the time the report is started, it can always be updated at a later stage, we would rather an outbreak was reported with incomplete data than not being reported at all; so please complete the form with the information you have.

- 11. What is meant by 'ward or bay closure'? If a ward is closed to new admissions this would count as a ward closure. However, not all outbreaks result in total ward closure, if a bay or several bays are closed this can be recorded as bay closure. If bays are closed or reopened in a staggered approach, the closure date will be the date the first bay was closed, and the re-opening date will be the date the last bay was opened (i.e. the ward is now fully operational).
- 12. How many cases constitute an outbreak? If you have 2 or more cases of diarrhoea and vomiting which are confirmed or suspected to be due to norovirus and the outbreak fits the criteria outlined in the <u>definitions</u> section above, the outbreak should be reported.
- 13. What should I do if my outbreak is not laboratory confirmed? If you don't have laboratory confirmation this can be added at a later date; any outbreaks of diarrhoea and vomiting suspected to be caused by norovirus (<u>as described above</u>) should be reported. Any reported outbreak which laboratory results indicate is caused by another infectious organism can be removed from the system at a later date once this confirmation is received.
- 14. Do cases need to meet all the suggested symptom or outbreak criteria? Cases do not have to meet all the suggested <u>criteria</u> to define an outbreak; these are provided as guidelines only.
- 15. How is bed days lost calculated? Please see our bed days lost definition.

Suggestions

We are constantly striving to improve the system and its outputs; if you have any suggestions for improving data entry or any other ideas, please email: noroOBK@phe.gov.uk