

Interpreting figures within the report.

Pyramid plots

A “pyramid plot” is often used to compare the results for NHS organisations for the two pre-defined age groups (50–69 years; 70+ years). The example to the right is annotated with guidance on how to interpret this figure.

The pyramid plot takes two forms. The horizontal axis is split either:

- (1) By the two age groups, or
- (2) By the type of primary surgery (the bars for the two age groups are overlaid in this plot).

Finally, the results plotted on the vertical axis are ordered by country (Wales then England) and then by the individual NHS organisation. The group of women aged 50–69 years acts as the reference group for comparison with women age 70+ years.

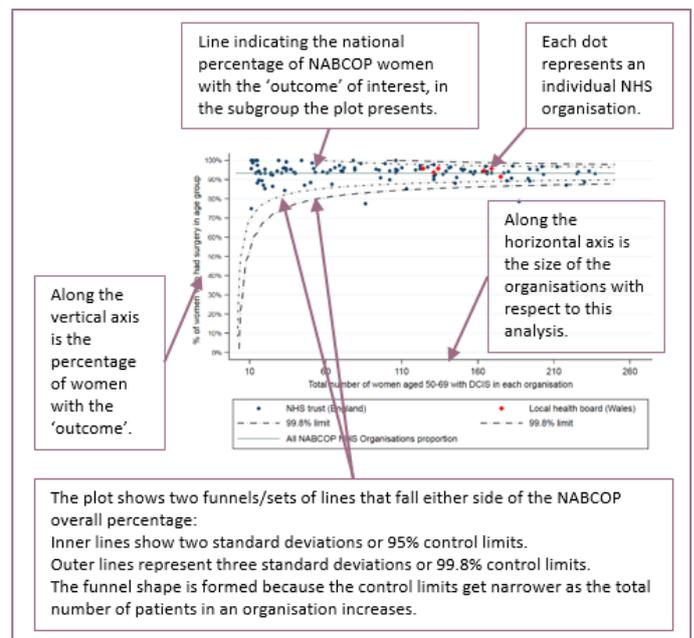
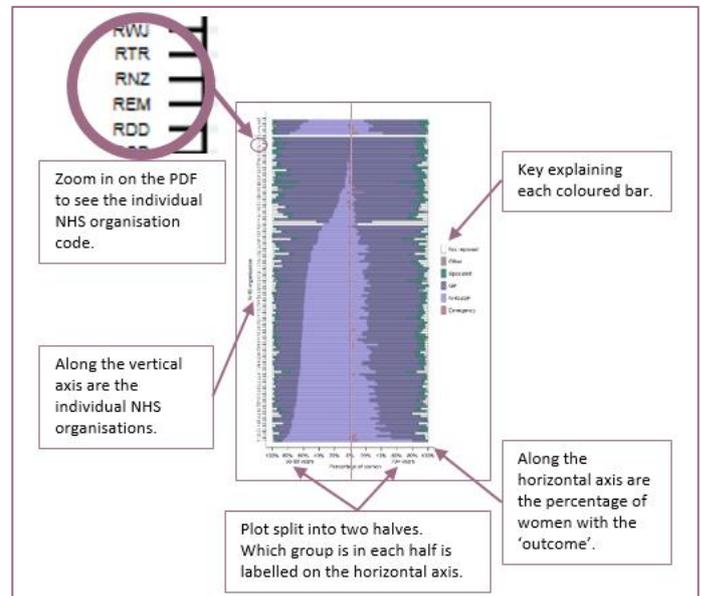
The organisation-level data for these plots are published online alongside the annual report, in the NHS Organisation Data Viewer.

Funnel plots¹

These graphs enable the user to assess variation in the results across NHS organisations.

In the 2019 NAB COP annual report, funnel plots are used to highlight variation in the rate of surgery across organisations and to assess whether this variation is larger for women aged 70+ years compared to those women aged 50-69 years.

The organisation-level data for these plots are published online alongside the annual report, in the NHS Organisation Data Viewer.



¹ Funnel Plot Source: David Spiegelhalter, Medical Research Council Biostatistics Unit - <http://www.erpho.org.uk/Download/Public/6990/1/INPHO%204%20Quantifying%20performance.pdf> - <https://www.ncbi.nlm.nih.gov/pubmed/15568194>

Using the online NHS Organisation Data Viewer.

The NHS Organisation Data Viewer is published online alongside the annual report. This is an excel workbook that provides the organisation-level data for core indicators within the report (e.g. % contact with CNS). The steps below will guide you through downloading and using this workbook, with the 'Aintree University Hospital NHS Foundation Trust' provided as an example.

Step-by-step:

1. Go to www.NABCOP.org.uk.
2. Navigate to the web page for the current annual report and click on the button to go to the Supplementary Materials for this annual report:
tables containing individual NHS organisation results, are available to download.
[Click here to go to the supplementary materials for this report](#)
3. Once on this page you will find a table of associated resources. Click on the text saying "[NABCOP Annual Report 2019 NHS Organisation Data Viewer](#)" to download this:

Name	Description
NABCOP Annual Report 2019 NHS Organisation Data Viewer	Includes the NABCOP 2019 results for individual NHS organisations, as well as 3 summary tabs on: data completeness for key data items, the main indicators, and a summary that allows for comparison of two selectable NHS organisations.

 NABCOP_Annual_....xlsx

4. Click on the downloaded file to open.
5. Once opened, you may need to "Enable Editing"; do this by clicking on this wording at the top of the excel file.



6. After selecting <Enable Editing>, you will see that on the first tab, "CONTENTS", there are two instructions within Column D; both ask you to pick an NHS organisation. To do this, click the mouse on the cell as shown in the picture below, an arrow will appear to the right-hand side of this text.

Click in the cell below to scroll & pick the NHS organisation you want to be highlighted in the subsequent tabs:
[* Click here \(on CONTENTS tab\) to scroll & select NHS Organisation *](#)

7. Click the mouse on this arrow and a list of NHS organisations will appear; scroll up or down to find the organisation you want.

8. The organisation selected from the first drop-down list will be the focus of all of the organisation-level tables and data quality and summary tabs.

NHS Organisation Name	Total women diagnosed with breast cancer in 2017 (N)	
	50-69yrs	70+yrs
All NABCOP NHS Organisations	22641	14283
Betsi Cadwaladr University Health Board	323	202
Hywel Dda University Health Board	188	144
Abertawe Bro Morgannwg University Health Board	257	157
Cardiff & Vale University Health Board	214	109
Cwm Taf University Health Board	225	107
Aneurin Bevan University Health Board	219	135
Wirral University Teaching Hospital NHS Foundation Trust	152	90
St Helens & Knowsley Hospitals NHS Trust	127	75
Mid Cheshire Hospitals NHS Foundation Trust	167	113
Aintree University Hospital NHS Foundation Trust	57	66
East Cheshire NHS Trust	126	67
Countess Of Chester Hospital NHS Foundation Trust	100	82

9. The second drop-down list can be used to select an organisation for comparison against the first selected organisation in the second indicator summary tab.

NHS Organisation Name **Aintree University Hospital NHS Foundation Trust**
 NHS Organisation Code REM

Comparison Organisation **Leeds Teaching Hospitals NHS Trust**

	50-69 years	70+ years
diagnosed in 2017	57	66
breast cancer in 2017		
DCIS	4%	6%
Invasive	96%	94%

There are three main sections of the excel workbook.

- Tabs 1 – 2: contain information on data quality and summary.
- Tabs 3 – 4: contain a summary of the organisation-level data used to plot the figures in the referred to sections of the annual report, by age group and selected NHS organisation(s).
- Tabs 5 – 12: contain NHS organisation-level tables in more detail. The data within these tables are arranged so that one row contains the figures for one organisation. The rows are ordered by:
 1. Country
 2. Cancer Alliance
 3. NHS organisation code

Click in the cell below to scroll & pick the NHS organisation you want to be highlighted in the subsequent tabs:

Click here (on CONTENTS tab) to scroll & select NHS Organisation *

- * Click here (on CONTENTS tab) to scroll & select NHS Organisation *
- Abertawe Bro Morgannwg University Health Board
- Aintree University Hospital NHS Foundation Trust**
- Airedale NHS Foundation Trust
- Aneurin Bevan University Health Board
- Ashford & St. Peters Hospitals NHS Foundation Trust
- Barking, Havering & Redbridge University Hospitals NHS Trust
- Barnsley Hospital NHS Foundation Trust

There are filter options for tabs 5-12 that give you the choice to view the data according to the content of each column of data.

NHS Organisation Name	Total women diagnosed with breast cancer in 2017 (N)	
	50-69yrs	70+yrs
All NABCOP NHS Organisations	2641	14283
Betsi Cadwaladr University Health Board	323	202
Hywel Dda University Health Board	188	144
Abertawe Bro Morgannwg University Health Board	257	157
Cardiff & Vale University Health Board	214	109
Cwm Taf University Health Board	225	107
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Finally, to right hand side of the data tables in each tab 5-12 there is a chart which shows the results comparing all NABCOP NHS organisations with the NHS organisation selected on the contents page. Above this chart is the NABCOP 2019 recommendation corresponding to the indicator shown on the tab.

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Key
 * Of those women with data
 NA = Not applicable
 NP = Not published (due to small numbers <10)

Details below relate to the NABCOP 2019 Annual Report Figure 5.5

NABCOP 2019 Recommendation on Involvement of a breast clinic nurse specialist
 * NHS organisations must ensure that
 * Women are assigned a named breast CNS to provide information and support
 * Data on the assignment of a named breast CNS are submitted to national cancer registration services.

CNS contact reported as "Yes" (%)

	50-69yrs	70+yrs
All NABCOP NHS Organisations	95%	94%
Betsi Cadwaladr Health Board	100	89
Hywel Dda Health Board	100	100
Cardiff University Health Board	96	99
Cardiff & Vale Health Board	100	100
Cwm Taf Health Board	100	88
Aneurin Bevan Health Board	97	87
Wirral Hospital NHS Foundation Trust	97	97
St Helens Hospitals NHS Trust	99	99
Mid Cheshire Foundation Trust	99	100
Aintree NHS Foundation Trust	86	96
East Cheshire NHS Trust	100	88
Countess Of Chester Hospital NHS Foundation Trust	100	100
Wirral University Hospital NHS Trust	99	98
Wirral NHS Foundation Trust	97	98
Wirral NHS Foundation Trust	94	92
Wirral NHS Foundation Trust	100	96
Wirral NHS Trust	94	93
Wirral NHS Foundation Trust	90	99
Wirral NHS Trust	90	14
Wirral NHS Trust	99	98
Wirral NHS Trust	96	96
Wirral NHS Foundation Trust	99	100
Wirral NHS Trust	100	100
Wirral Hospital NHS Foundation Trust	94	97
Wirral NHS Foundation Trust	96	96
Wirral NHS Foundation Trust	100	99
Wirral NHS Foundation Trust	100	100

CNS contact reported as "Yes"