



Public Health
England

Severe Mental Illness Profiling Tool User Guide

1. Using Fingertips Software

June 2014



Contents

1. Introduction	3
2. Quick Guide to Fingertips Software Features	3
Additional information.....	3
Search for indicators	3
Domains	3
Geography.....	3
Statistical significance and colour coding	4
3. Views	5
Overview	5
Maps.....	7
Trends view.....	7
Indicators view	8
Areas view.....	9
Definitions.....	10
Downloads	10
4. Acknowledgements.....	10



1. Introduction

The Severe Mental Illness Profiling Tool is an interactive web tool (with associated pdf report) developed for the Mental Health Intelligence Network by Public Health England.

The tool use the Fingertips software which was developed by the Public Health England Knowledge and Intelligence Team (KIT East) to provide easy access to in-depth analysis of a wide range of health related data in thematic profiles.

This user guide focuses on the common features of the Fingertips software and uses examples taken from the Severe Mental Illness Profiling Tool. Other profiles developed in the software also share these features. Metadata information on the indicators themselves are available via the 'Definitions' section of the profiles.

2. Quick Guide to Fingertips Software Features

A training video for the Subnational Fingertips tool is available at <http://www.erpho.org.uk/training/trainingvideos.aspx>

Additional information

A Home link and links to supporting information such as FAQs and feedback email are found in the top section of each tool.

Search for indicators

Most tools provide search facilities, located at the top right of the page. Using this function returns all indicators which include the keyword in the name or in a specific set of metadata fields.

Domains

Tools which are broken down into subsections or domains can be explored by clicking the domain headings. For example:

Severe Mental Illness

Risk and related factors	Prevalence	Services	Quality and outcomes	Finance	Psychosis Pathway
---------------------------------	------------	----------	----------------------	---------	-------------------

Geography

The example below shows a profile with the complete set of options, only offered when choices are actually available in the data:

Area type: County & UA	Areas grouped by: Deprivation decile
Area: Birmingham	Deprivation decile: Most deprived
	Benchmark: England



Area type

Fingertips can only display data for one level of geography at a time. The Severe Mental Illness Profiling Tool contains indicators at CCG, Mental Health Trust, County & UA, and District & UA levels.

Areas grouped by

Which areas are displayed together is decided in the 'Areas grouped by' dropdown. The options are a higher geographical levels such as Region, smaller geographical groupings such as Area Team or groupings by similarity such as deprivation decile or ONS cluster.

Subsequent choices

Dependent on the choice of 'Areas grouped by' the dropdown is then populated (in the example above: choosing 'Deprivation decile' determines that a choice of deprivation deciles are offered – Most deprived selected in this instance). Subsequently options are offered in 'Area', these are based on the previous selections: e.g. Birmingham is one of the Counties/UAs in the Most deprived decile.

Benchmark

To decide on statistical significance a benchmark needs to be chosen. This is by default England but an alternative comparison with more similar areas (such as Region) is also offered in most cases.

Statistical significance and colour coding

A training video on significance is available at <http://www.erpho.org.uk/training/trainingvideos.aspx>

Compared with benchmark: Lower Similar Higher Not compared

For each indicator, the colour coding shows whether the measure for that area is statistically above or below the comparator (95% confidence). The default comparator is the national average. This can be changed to the regional average using the benchmark 'drop-down' at the top of the page. Details of the statistical method used for comparison are available by clicking on the 'Definitions' tab. If the indicator is not coloured it means that no statistical comparison was possible. In most cases this is because the raw data used to calculate the indicator, and which is necessary to undertake statistical comparison, were not available, or the necessary benchmark value could not be obtained.

Even if an indicator is not significantly different to England, there may still be an issue in the area that is worthy of intervention. Some indicators will change colour depending on the comparator group – for example, it is not unusual for areas to be significantly higher than England while not being significantly different from the comparison group. It is also possible that an area may be experiencing a downward trend while remaining above the national or regional average. Local knowledge and understanding of issues are so needed to provide context and to inform decisions.

Data Quality








Data quality: Significant concerns Some concerns Robust

Each indicator in the tool has been included because it adds to the overall picture of Severe Mental Illness, however data quality is not consistent. Data has been assessed for quality and validity using the above criteria, and labelled accordingly.



3. Views

The Severe Mental Illness Profiling Tool consist of five web views that illustrate the indicators in a variety of styles. A definitions section and a download section have also been included in the profile to provide access to and an understanding of the data illustrated through the profile. These profile features are listed below, with the subsequent pages providing further details -

 Overview	'Overview' is the default option. It shows all the indicators in rows, the geographical areas in columns, and indicator data in each cell, colour-coded depending on whether it is significantly different from the benchmark.
 Map	'Map' allows users to see the spatial variation of indicators across England. For each indicator a bespoke comparator group can be defined by the user, with the selected geographies being also presented in a column chart in order of value.
 Trends	'Trends' allows users to look at data over time, presenting data as a graph and a table. Drop-down boxes allow users to choose the indicator and area of interest and colour-coding indicates whether the values are significantly different from the benchmark.
 Compare areas	'Indicators' allows the user to select an indicator from the drop-down box and examine values for all geographical areas with a bar chart, funnel plot, and a table showing the confidence intervals around each value.
 Area profiles	'Areas' allows users to select a geographical area and presents all the indicators in a profile for that area in a spine chart. Counts as well as indicator values are presented here, along with figures for national and regional averages, and the range of values.
 Definitions	'Definitions' provides more details about each indicator, including the data source and rationale. It also gives information on how statistical comparisons are made for each indicator.
 Download	'Download' provides access to actual indicator data and the underlying data used in the production of the indicator in spread sheet format. Printable profile documents are also available for each CCG.

Overview

Overview

'Overview' is the default option in most profiles. It shows all the indicators in rows, the geographical areas in columns, and indicator data in each cell, colour-coded depending on whether it is significantly different from the benchmark.

This view shows a 'tartan rug' of all the indicators, allowing indicators to be compared across all the areas belonging to the grouped-by option chosen (see above: geography). For some options the number of indicators is large and users will probably have to scroll down the screen to see all of the measures. For each indicator, where statistical significance can be calculated the colour coding shows whether the measure for that area is statistically above or below the comparator average. The default comparator is the national average.



The values in the tartan rug can be sorted using the arrows at the start of each row. Using the arrows in the header row sorts the areas alphabetically while using them in an indicator row sorts the table by ascending or descending values of the indicator where the sorting was applied.

Indicator	Period	England	London Commissioning Reg...	NHS Barking And Dagenha...	NHS Barnet CCG	NHS Bexley CCG	NHS Brent CCG	NHS Bromley CCG
Patients with SMI who have comprehensive care plan: % with plan (patients receiving intervention)	2012/13	81.3	84.0	87.6	86.0	81.9	86.0	81.7
Patients on lithium therapy with record of serum creatinine and TSH: % with record in the preceding 9 months (patients receiving intervention)	2012/13	92.3	89.6	89.6	87.1	90.6	86.1	87.6
Patients on lithium therapy with levels in therapeutic range: % within preceding 4 months (patients receiving intervention)	2012/13	79.8	74.3	74.5	75.1	78.3	65.9	70.3
Exceptions from SMI checks: % of adults on SMI register exempt from checks	2012/13	15.5	-	13.1	12.0	15.9	13.2	14.5

Sort the columns into alphabetical order (this is the default view)



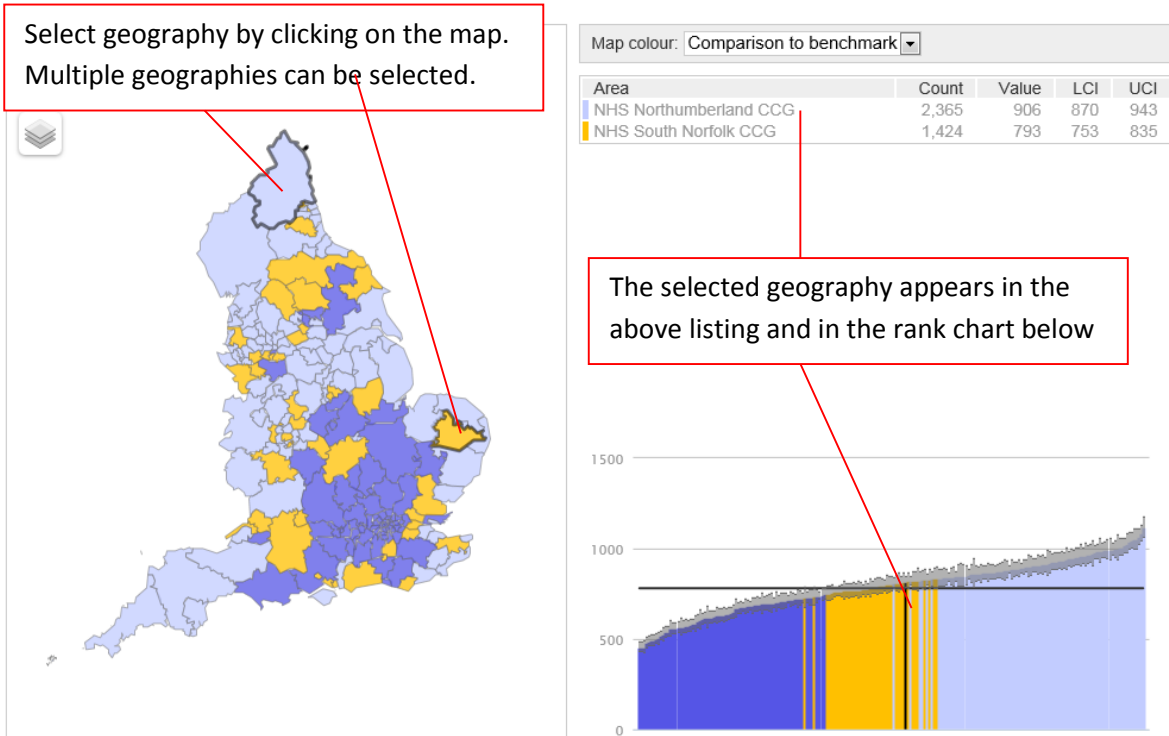
Sort the columns by the values of this indicator. Click once to sort in descending order, click twice to sort in ascending order.



Maps

Map

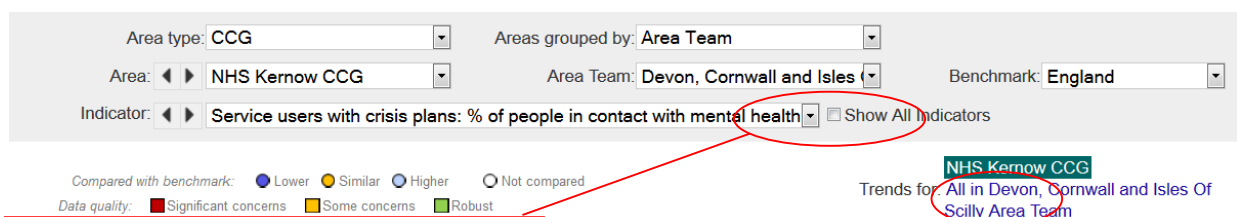
'Maps' allows users to see the spatial distribution of the value of indicator across England. It also allows the user to build a bespoke comparator group of geographies. A variety of benchmarks can also be selected.



Trends view

Trends

This view presents indicator time series data. Drop-down boxes allow users to select the geographical area and the indicator of interest. The default view is to present one indicator for one area. However, it is also possible to choose to show all indicators within the domain for the selected area, or to generate the time series charts showing the same indicator for all areas in the selected geography.



Generates trend chart for all indicators within the theme for selected area

Generates trend charts for all areas for selected indicator



Indicators view

Compare areas

This tool allows areas that have been grouped together to be compared by use of a bar chart. Both the indicator and comparator group can be changed using the drop-down menu.

Sort the rows into alphabetical order (this is the default view)

Sort the rows by the values of this indicator. Click once to sort in descending order, click twice to sort in ascending order.

Area	Value	Lower CI	Upper CI
England	5.8	5.8	5.8
Second most deprived decile	5.7	-	-
NHS Stoke On Trent CCG	7.9	7.8	8.0
NHS South Sefton CCG	6.8	6.7	7.0
NHS Bolton CCG	6.8	6.7	6.9
NHS Durham Dales, Easin...	6.7	6.6	6.8
NHS Oldham CCG	6.7	6.6	6.8
NHS Sunderland CCG	6.3	6.2	6.4
NHS South Tees CCG	6.2	6.1	6.3
NHS East Lancashire CCG	6.2	6.1	6.3
NHS Bradford Districts...	6.1	6.0	6.2
NHS Doncaster CCG	6.1	6.0	6.2
NHS Leicester City CCG	6.1	6.0	6.2
NHS Walsall CCG	6.0	5.9	6.1
NHS Halton CCG	6.0	5.9	6.1
NHS Leeds South And Eas...	5.6	5.5	5.7
NHS Lewisham CCG	5.3	5.2	5.4
NHS Nottingham City CCG	5.2	5.1	5.3
NHS Lambeth CCG	4.9	4.8	5.0
NHS Southwark CCG	4.5	4.4	4.5
NHS Greenwich CCG	4.4	4.3	4.5
NHS Brent CCG	3.4	3.3	3.5
NHS Barking And Dagenha...	3.3	3.2	3.4

Source: QOF



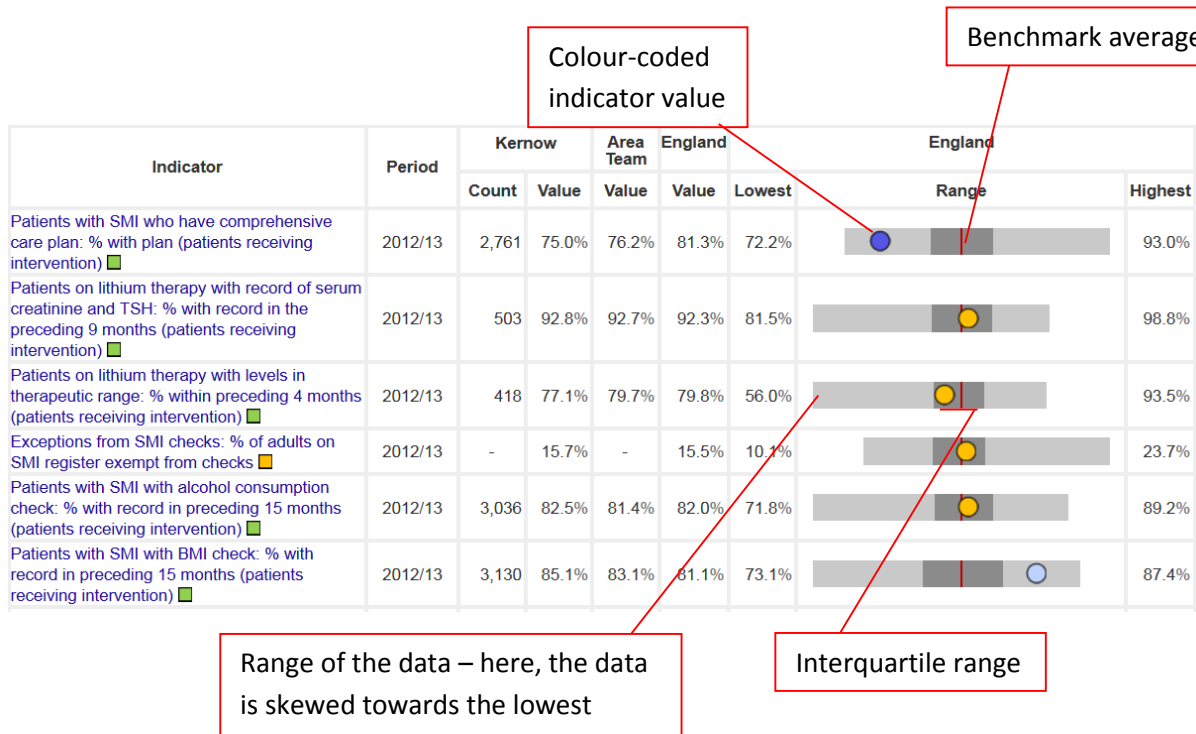
Areas view

Area profiles

A training video on spine charts is available at <http://www.erpho.org.uk/training/trainingvideos.aspx>

This view focuses on one area, selected using the drop-down box near the top of the page or by clicking on the area name in the Overview. It produces a table of indicators within the theme which contains typically:

- counts for the area (for example, presented below are a number of Quality Outcome Framework measures included to aid understanding of primary care).
- the indicator value for the area (usually a percentage or a rate)
- the value for England and for the region
- the lowest and highest values within the grouping.



It also displays these data in the form of a spine chart with colour coded points indicating whether the area is significantly different from the benchmark. Hovering the mouse cursor over elements of the spine chart will give more information about the underlying data. When England is selected as the benchmark, a spine chart display is generated for the indicator if at least 75% of the values in England have valid data. This rule is to prevent the display of spine charts that are misrepresentative due to extensive missing or suppressed data points.

In the spine chart the red vertical line represents the benchmark. The light grey bar shows the range between the highest and lowest areas in England or the region (depending on the benchmark selected) with the interquartile range shown in dark grey.



- The interquartile range (dark grey bar) is the difference between the 25th and 75th percentile i.e. if all areas' values for an indicator are ranked from lowest to highest the 25th percentile is 25% of the way through the ranking and the 75th is 75% of the way through.
- The light grey bar represents the range and skew of the data. If the worst and best values are equidistant from the mean the light grey bar will extend evenly across the chart. If the data are skewed towards the lower values the light grey bar will extend to the left hand side and if the data are skewed towards the higher values the light grey bar will extend to the right hand side.

Each dot represents the area indicator value. Dots to the left of the red line show that the value for this area is lower than the benchmark average, dots to the right of the line show that the value is higher than the benchmark average. Where possible, these are colour coded showing whether the local value is statistically significantly lower (dark blue), higher (light blue) or not significantly different from the comparator (amber).

For indicators where no value judgement is possible (e.g. proportion of the population in a certain age group) low values are located at the left and high values on the right of the spine. The dots are in these cases dark blue (significantly lower), amber (not significantly different) and light blue (significantly higher).

Definitions

Definitions

For each indicator there is a set of metadata, providing a definition for the indicator, the data source, the methods applied etc. Depending on the purpose, more detailed information might be required than can be provided in the metadata. In this case please see also the Profile specific supporting documents or contact profilefeedback@phe.gov.uk .

Downloads

Download

'Download' provides access to actual indicator data and the underlying data used in the production of the indicator in spread sheet format, along with the accompanying metadata. Printable profile documents are also available for each CCG.

4. Acknowledgements

This document is based on version 1.7 of the Fingertips User Guide produced in February 2014 and was modified specifically to support the Severe Mental Illness Profiling Tool produced in June 2014. Many thanks to Doris Haines, Hannah Walford and colleagues at KIT East.