



Public Health  
England

Protecting and improving the nation's health

# **AMR Local Indicators Fingertips Profile User Guide**

## 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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# What is Fingertips?

Fingertips is a publicly available platform developed by Public Health England (PHE) that provides access to specific, pre-defined, health information (profiles). Fingertips is available at <http://fingertips.phe.org.uk/>

Fingertips comprises multiple public health profiles, that are a rich source of indicators across a range of health and wellbeing themes. An individual profile is made up of a broad category of health-related topics (called domains) each of which provides information related to that topic. The various profiles have been designed to support the Joint Strategic Needs Assessment and commissioning to improve health and wellbeing, and reduce inequalities. The profiles allow local users to:

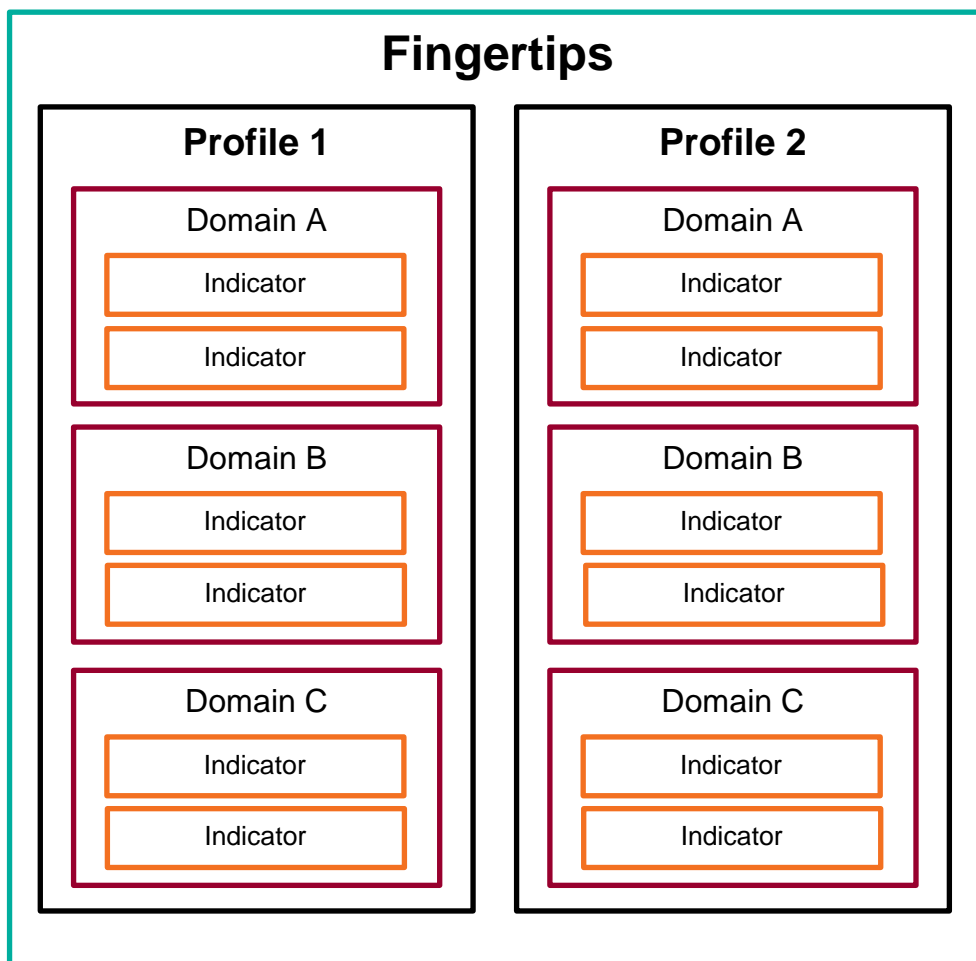
- Browse indicators at different geographical levels
- Benchmark against the regional or England average
- Export data to use locally

This guide relates to the **AMR (Antimicrobial Resistance) local indicators** profile that was made available through Fingertips in April 2016. A visual representation of fingertips can be seen in figure 1.

The AMR local indicators profile comprises the following five domains:

- antimicrobial resistance
- antibiotic prescribing
- healthcare-associated infections
- infection prevention and control
- antimicrobial stewardship

Each domain is made up of individual indicators. Indicators report on a single item of health-related information across England broken down by local geographies. There are multiple geographical breakdowns including GP practice, Clinical Commissioning Group (CCG) and Acute Trust. Local users will be able to benchmark their data against the national and/or regional picture or against comparable organizations. Users will be able to see the highest and lowest values recorded for any indicator as well as the value for their chosen geographical area. Indicators can also be used to benchmark a local area against itself over time or against other areas to help drive improvements.



**Figure 1: An overview of the structure of PHE Fingertips. *AMR local indicators* form a profile.**

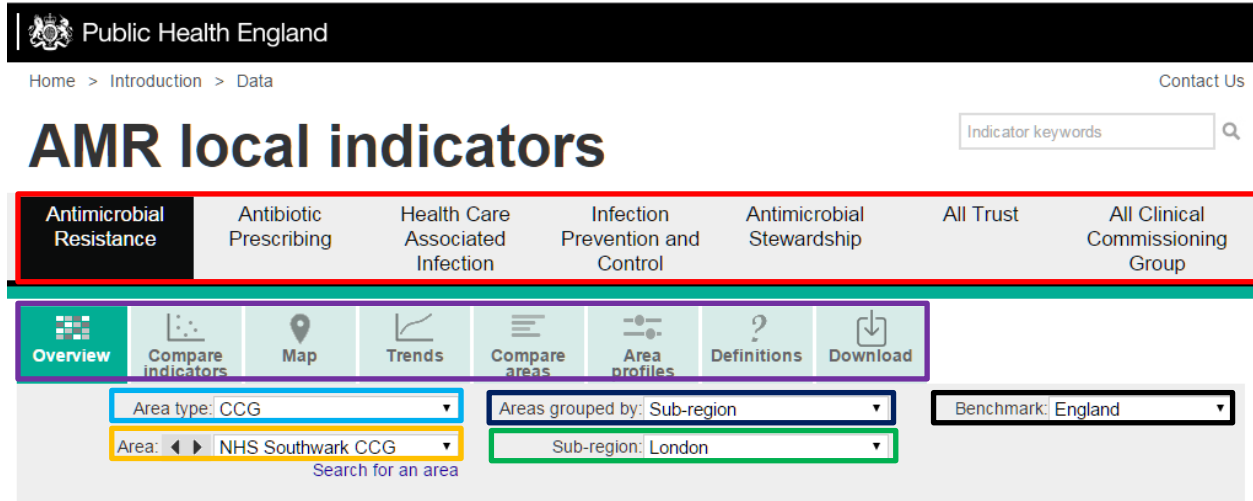
## Queries

If you have specific questions regarding the data within the AMR local indicators profile please email

- [mandatory-surveillance@phe.gov.uk](mailto:mandatory-surveillance@phe.gov.uk) for queries regarding the healthcare associated infection indicators
- [amr@phe.gov.uk](mailto:amr@phe.gov.uk) for queries regarding antimicrobial resistance
- [espaur@phe.gov.uk](mailto:espaur@phe.gov.uk) for all remaining queries

# Profile menus

Below are the standard items for the AMR local indicators profile. These options will be available throughout the profile.



	<b>Domains</b>	Click these to change between domains; note that indicators will only display if the Area type for which they are available is selected
	<b>Data visualisation tabs</b>	These offer alternative ways of displaying the data; further detail on each data visualisation tab can be found in the next section of this document
	<b>Area type</b>	Area types may include GP practice, CCG or Acute Trust. If a given indicator has one than one option for Area type, this can be used to toggle between them.
	<b>Area</b>	Use this to select an individual GP practice, CCG or Acute Trust
	<b>Area grouped by</b>	This dropdown will determine how the data is aggregated; sub-regions are the default for the AMR local indicators profile
	<b>Sub-region</b>	This dropdown will determine which sub-region the system will display data for
	<b>Benchmark</b>	Note, not all indicators will be benchmarked. The default benchmark is England; where data exists, benchmarking against sub-region or a chosen CCG may be available.

Some indicators will display a coloured background on their values. This is to denote a comparison to the benchmark value. If the indicator uses this feature it will be consistent across the various data views. A legend will be provided by the system at the top of the screen.

# Data visualisation tabs

## Overview

In the Overview mode, all indicators for that domain will be shown simultaneously. This will only display the indicators for the chosen area type and the appropriate sub-region and national value.

In Overview you can change between sub-regions. The grey left and right arrows under the values for the indicators allow you to scroll between all the Areas (e.g. CCGs) for the selected Area type within the selected sub-region.

Export table as image

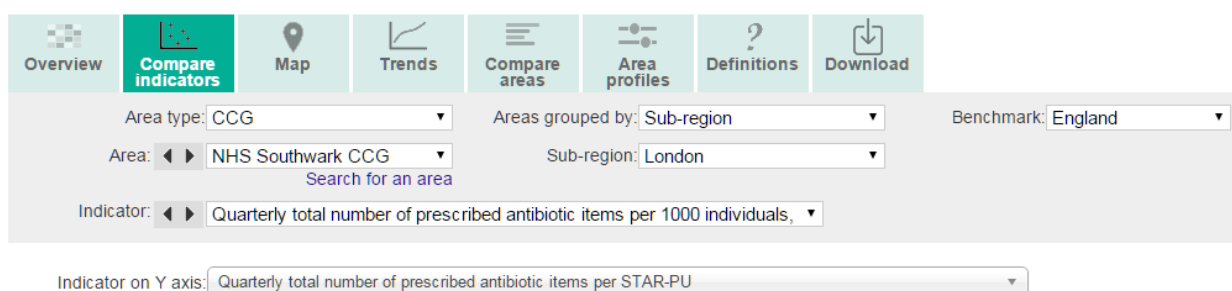
Indicator	Period	England	London NHS region	NHS Barking And Dagenham CCG	NHS Barnet CCG	NHS Bexley CCG	NHS Brent CCG	NHS Bromley CCG	NHS Camden CCG	NHS Central London (Westmins...	NHS City And Hackney CCG	NHS Croydon CCG	NHS Ealing CCG	NHS Enfield CCG	NHS Greenwich CCG	NHS Hammersmith And Fulham C...	NHS Haringey CCG	NHS Harrow CCG	NHS Havering CCG
Quarterly total number of prescribed antibiotic items per 1000 individuals, per day	2015 Q3	1.55	1.22	1.33	1.23	1.61	1.08	1.32	0.86	1.07	0.99	1.34	1.26	1.21	1.28	1.25	1.00	1.33	1.61
Percentage of all antibiotic prescription items in primary care from cephalosporin, quinolone and co-amoxiclav class	2015 Q3	10.81	13.76	11.46	15.27	11.89	12.05	12.97	11.63	11.74	13.89	9.62	14.24	12.15	10.40	12.85	11.54	14.72	13.62
Quarterly total number of prescribed antibiotic items per STAR-PU	2015 Q3	0.24	0.20	0.23	0.19	0.27	0.17	0.20	0.14	0.16	0.17	0.22	0.18	0.21	0.21	0.19	0.16	0.22	0.24

## Compare Indicators

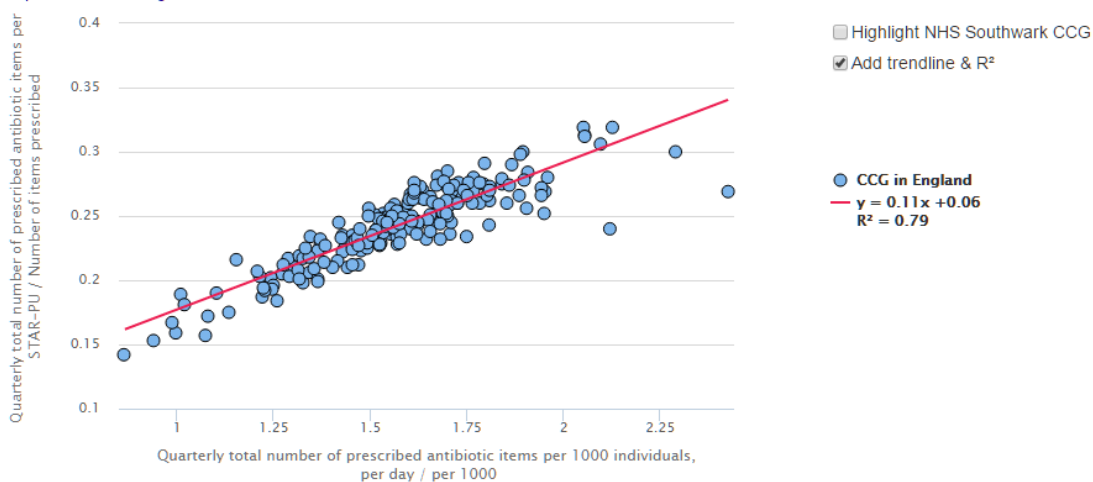
In this Data visualisation tab scatterplots can be drawn between different health indicators. Indicators are chosen from the drop down menu and plotted on the X and Y axis respectively.

This facility needs to be treated with caution due to concerns over time release of data for different indicators and potential misinterpretation due to not fully appreciating caveats for individual indicators.

Trendlines will only display if  $R^2 > 0.15$ .



Export chart as image



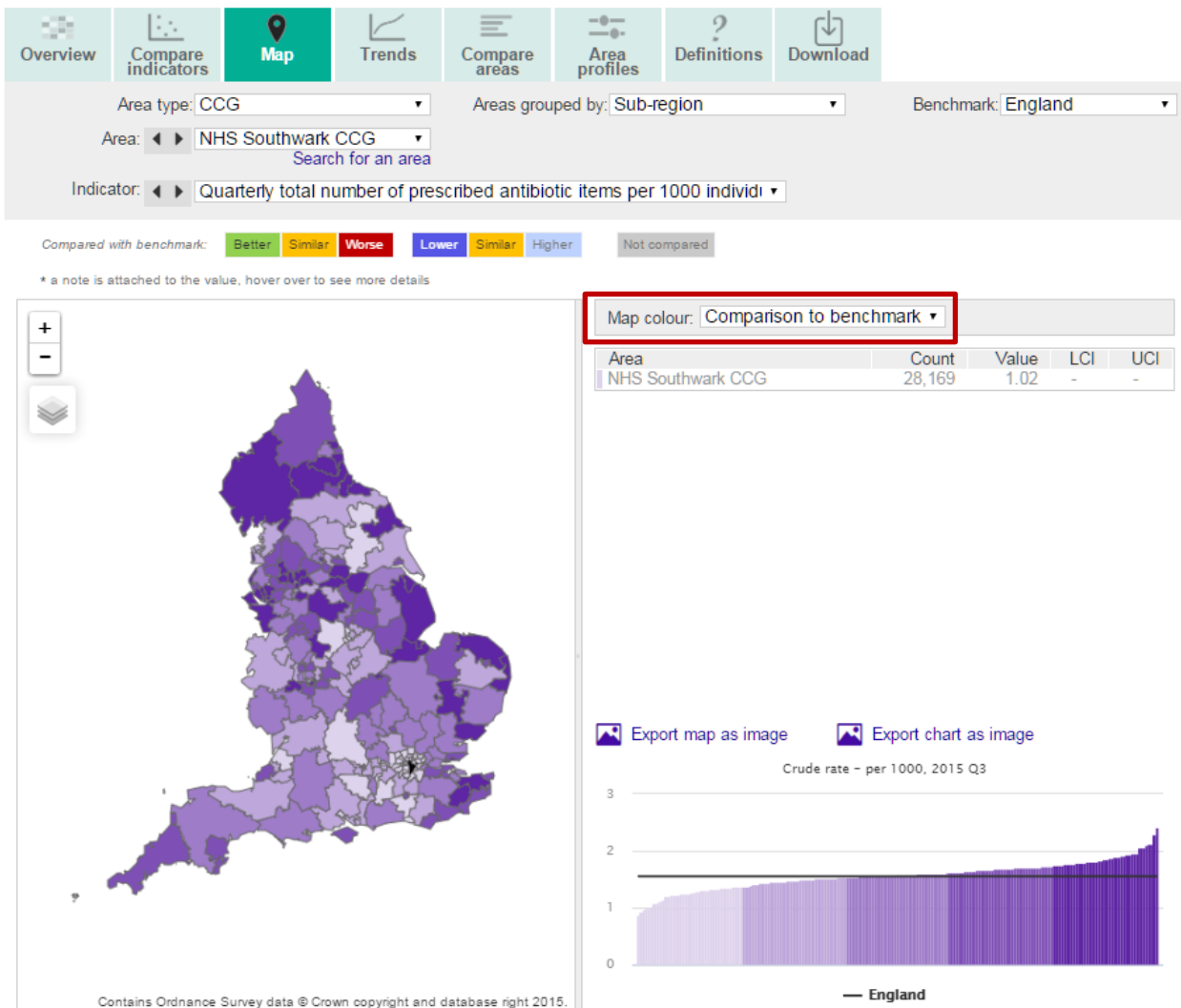


## Map

Fingertips has a mapping function which shows the values for selected indicators for CCG Area type coloured according to their value. The mapping function gives a strong visual representation of regional variation for the selected indicator. The system does not have the facilities to map to trust or GP level.

By selecting from the *Map colour* dropdown menu highlighted below in red, the scale can be altered to be matched against (1) the benchmark, or displayed by (2) quartiles, (3) quintiles, or (4) on a continuous scale.

Individual areas can be selected on the map; a table will be generated with these selected areas to the right of the map.



## Trends

Fingertips is able to monitor the trend of an indicator over time. This monitoring can be done along with or independently from a benchmark. Depending on the individual indicator, the options for benchmarking include England or by sub-region. The benchmark will be shown on the graphs in black. The user can view a single indicator or all indicators within the same domain and area type simultaneously.

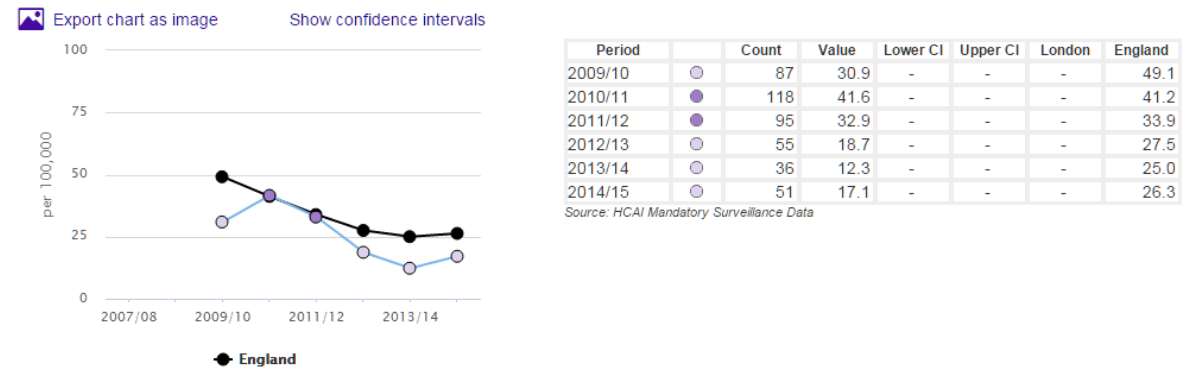
Area type: CCG    Areas grouped by: Sub-region    Benchmark: England  
 Area: NHS Southwark CCG    Sub-region: London  
 Indicator: All C. difficile rates by CCG and financial year     Show all indicators

Compared with benchmark: Better Similar Worse Lower Similar Higher  
 Low High  
 Not Compared

Trends for: NHS Southwark CCG  
 All in London NHS region

\* a note is attached to the value, hover over to see more details

### All C. difficile rates by CCG and financial year Crude rate - per 100,000

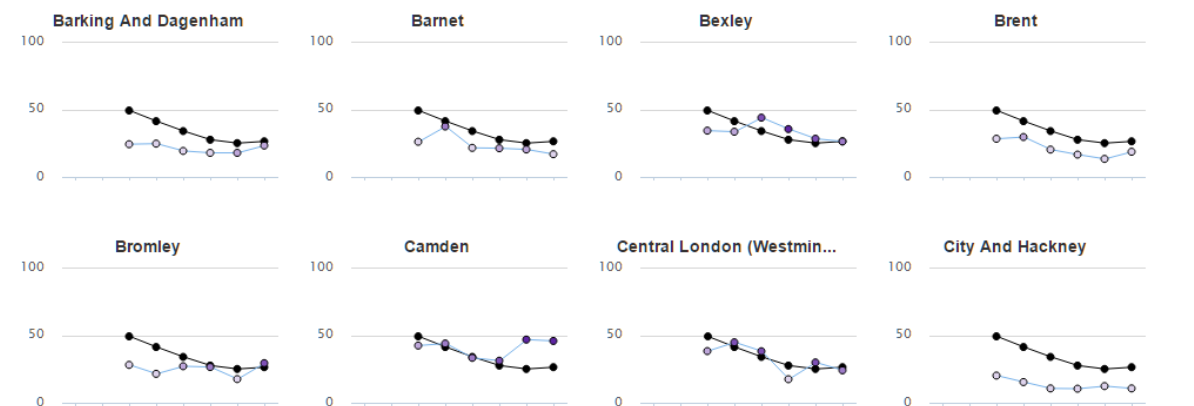


Additionally, users can view a single area or multiple areas within a region simultaneously.

Trends for: NHS Southwark CCG  
 All in London NHS region

Sort charts by: A-Z Value

### All C. difficile rates by CCG and financial year Crude rate - per 100,000



## Compare Area

In this Data visualisation tab the user chooses the desired indicator from the drop down menu. This view enables the user to see both the value of a single indicator as well as the count that was used to generate this value. Confidence intervals will only show on indicators which have them. The data can be re-ordered in ascending/descending order by area name, count or value.

The data can be viewed for just the selected sub-region or at a national level.

Compared with benchmark: Better Similar Worse Lower Similar Higher Not compared  
 Low High

\* a note is attached to the value, hover over to see more details

Export table as image

**Antibiotic Guardians per 100,000 population per calendar year by CCGs** 2015 Crude rate - per 100,000

Area	Count	Value	95% Lower CI	95% Upper CI
England	10,598	19.5	19.1	19.9
London NHS region	1,878	22.0	21.0	23.0
NHS Barking And Dagenham...	50	25.2	18.7	33.2
NHS Barnet CCG	48	12.8	9.4	17.0
NHS Bexley CCG	27	11.3	7.4	16.4
NHS Brent CCG	63	19.6	15.1	25.1
NHS Bromley CCG	39	12.1	8.6	16.6
NHS Camden CCG	103	43.9	35.8	53.2
NHS Central London (Westm...	33	19.7	13.6	27.7
NHS City And Hackney CCG	30	11.1	7.5	15.8
NHS Croydon CCG	41	10.9	7.8	14.8
NHS Ealing CCG	35	10.2	7.1	14.2
NHS Enfield CCG	19	5.9	3.5	9.1
NHS Greenwich CCG	38	14.1	10.0	19.4
NHS Hammersmith And Fulha...	74	41.5	32.6	52.1
NHS Haringey CCG	27	10.1	6.7	14.7
NHS Harrow CCG	68	27.6	21.5	35.0
NHS Havering CCG	22	8.9	5.6	13.5
NHS Hillingdon CCG	26	8.9	5.8	13.0
NHS Hounslow CCG	56	21.1	15.9	27.4
NHS Islington CCG	44	19.9	14.5	26.7
NHS Kinoston CCG	79	46.5	36.8	57.9

## Area Profiles

In this Data visualisation tab multiple indicators can be viewed at once within a single domain. Users are able to see where their chosen area falls among the range of all values for that indicator and how their area compares with the benchmark (if set). Users are able to see the highest and lowest values recorded for any indicator as well as the value for their chosen area. Further information on the interpretation of a high or low value can be found in the Definitions tab.

Where applicable, changing the benchmark dropdown will display regional or national values.

The screenshot shows the 'Area Profiles' tab selected in the navigation menu. The 'Area type' is 'CCG', 'Areas grouped by' is 'Sub-region', and 'Benchmark' is 'England'. The 'Area' is 'NHS Southwark CCG' and the 'Sub-region' is 'London'. A legend below the filters explains the comparison status: Better (green), Similar (yellow), Worse (red), Lower (blue), Similar (orange), Higher (light blue), Low (grey), High (purple), and Not Compared (white). A horizontal scale shows the benchmark value relative to the lowest, 25th percentile, 75th percentile, and highest values.

Export table as image

Indicator	Period	Southwark		Sub-region	England	England		
		Count	Value	Value	Value	Lowest	Range	Highest
Quarterly total number of prescribed antibiotic items per 1000 individuals, per day	2015 Q3	28,169	1.02	1.22	1.55	0.86		2.43
Percentage of all antibiotic prescription items in primary care from cephalosporin, quinolone and co-amoxiclav class	2015 Q3	3,385	12.05%	13.76%	10.81%	4.92%		19.32%
Quarterly total number of prescribed antibiotic items per STAR-PU	2015 Q3	28,209	0.18	0.20	0.24	0.14		0.32

The screenshot shows the 'Area Profiles' tab with the 'Benchmark' dropdown set to 'Sub-region'. The 'Area' remains 'NHS Southwark CCG' and the 'Sub-region' is 'London'. The legend and horizontal scale are identical to the previous screenshot.

Export table as image

Indicator	Period	Southwark		Sub-region	England	London NHS region		
		Count	Value	Value	Value	Lowest	Range	Highest
Quarterly total number of prescribed antibiotic items per 1000 individuals, per day	2015 Q3	28,169	1.02	1.22	1.55	0.86		1.61
Percentage of all antibiotic prescription items in primary care from cephalosporin, quinolone and co-amoxiclav class	2015 Q3	3,385	12.05%	13.76%	10.81%	9.62%		15.27%
Quarterly total number of prescribed antibiotic items per STAR-PU	2015 Q3	28,209	0.18	0.20	0.24	0.14		0.27

## Definitions

The Definitions tab provides information for each indicator, including what it can be used for, where the data is sourced from and how the indicator was produced. Information is also given on how this data should be interpreted together with any caveats.

### Indicator Definitions and Supporting Information

Indicator full name	Antibiotic Guardians per 100,000 population per calendar year by CCGs
Rationale	<p><a href="#">Antibiotic Guardian</a> is a PHE-led behaviour change campaign to encourage improved behaviours and engagement on the prudent use and prescription of antibiotics with members of the public and healthcare professionals.</p> <p>The indicator shows the rates of Antibiotic Guardians per 100,000 population per year as a measure of engagement within the area on antibiotic resistance.</p> <p>For this indicator, a higher rate is indicative of increased engagement.</p>
Policy	AMR is a key public health issue. The government released a <a href="#">5 year antimicrobial resistance strategy</a> in 2013.
Definition	Number of Antibiotic Guardians per 100,000 population across NHS CCGs
Data source	Antibiotic Guardian counts and postcodes are extracted from <a href="http://www.antibioticguardian.com">www.antibioticguardian.com</a> and include all healthcare professional, public and education sector pledges. Population estimates are based on ONS mid-year estimates.
Indicator source	<a href="http://www.antibioticguardian.com">www.antibioticguardian.com</a>
Indicator production	Antibiotic Guardians submit half-postcodes during their signup. Valid English half-postcodes are matched to their CCG catchment area by calendar year. Population estimates are based on ONS mid-year estimates.
Definition of numerator	Antibiotic Guardian pledges in England.
Source of numerator	AntibioticGuardian.com data is downloaded annually and aggregated by half-postcodes.
Definition of denominator	Mid-year estimates based on CCG

