



Indicator metadata

NHS Atlas of Variation for Respiratory Disease

Version 1.1

Indicator themes

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Chronic Obstructive Pulmonary Disease

1: Ratio of reported to expected COPD prevalence, by PCT, 2010/11

Indicator:	Ratio of reported to expected COPD prevalence
Statistic:	Ratio
Time period:	2010/11
Age group:	18+
Description:	Ratio of reported to expected COPD prevalence in adults
Data source:	Quality and Outcomes Framework 2010/11, 2011 modelled prevalence estimates by the Eastern
	Region Public Health Observatory
	http://www.ic.nhs.uk/qof
Numerator:	The observed crude prevalence of COPD as recorded by the Quality and Outcomes Framework
Denominator:	Expected COPD prevalence is derived using a model. The following briefing document explains
	how the Chronic Obstructive Pulmonary Disease (COPD) prevalence model has been developed
	and applied by erpho on behalf of the Public Health Observatories in England:
	http://www.apho.org.uk/default.aspx?RID=48313
Methodology:	The ratio of QOF prevalence of COPD is divided by the modelled prevalence of COPD
Further notes:	Confidence interval calculations are not available for the gap figures.
Produced by:	ERPHO
Date created:	December 2011

2: Percentage of patients with COPD with a record of FEV_1 in the previous 15 months, by PCT, 2010/11

Indicator:	Percentage of COPD patients with a record of FEV ₁
Statistic:	Percentage
Time period:	2010/11
Age group:	All ages
Description:	The percentage of patients with COPD with a record of FEV_1 in the previous 15 months
Data source:	Quality and Outcomes Framework 2010/11
Numerator:	The number of patients with COPD with a record of FEV_1 in the previous 15 months as recorded
	by the Quality and Outcomes Framework
Denominator:	The number of patients with COPD, excluding patients recorded as 'excepted' for a record of FEV_1 ,
	as recorded by the Quality and Outcomes Framework
Methodology:	Numerator divided by denominator expressed as a percentage. These percentages are the
	published achievement by the the Quality and Outcomes Framework.
Further notes:	More information including a rationale for this indicators use in QOF is available from:
	https://mqi.ic.nhs.uk/IndicatorDefaultView.aspx?ref=1.09.03.02
	The source data is available from:
	http://www.ic.nhs.uk/statistics-and-data-collections/audits-and-performance/the-quality-and-out
	<u>comes-framework</u>
Produced by:	The NHS Information Centre for Health and Social Care
Date created:	October 2011

Indicator:	Percentage of COPD patients with a record of FEV ₁ , including 'excepted' patients
Statistic:	Percentage
Time period:	2010/11
Age group:	All ages
Description:	The percentage of patients with COPD with a record of ${\sf FEV}_1$ in the previous 15 months
Data source:	Quality and Outcomes Framework 2010/11
Numerator:	The number of patients with COPD with a record of ${\sf FEV}_1$ in the previous 15 months as recorded
	by the Quality and Outcomes Framework
Denominator:	Total number of patients with COPD as recorded by the Quality and Outcomes Framework
Methodology:	Numerator divided by denominator expressed as a percentage
Further notes:	The Quality and Outcomes Framework (QOF) allows practices to exception-report (exclude)
	specific patients from data collected to calculate achievement scores. Patients can be exception-
	reported from individual indicators for various reasons, including 'not attending appointments' or
	'treatment is judged to be inappropriate by the GP'. The patients that have been 'excepted' are
	included in this analysis. For background information on QOF exception reporting, and for notes
	on the way exception reporting rates are calculated, see the detailed notes in the statistical
	bulletin in QOF exception reporting.
Produced by:	The NHS Information Centre for Health and Social Care
Date created:	October 2011

3: Percentage of patients with COPD who have had a review in the preceding 15 months, by PCT, 2010/11

Indicator:	The percentage of COPD patients who have had a review
Statistic:	Percentage
Time period:	2010/11
Age group:	All ages
Description:	The percentage of patients with COPD who have had a review, undertaken by a healthcare
	professional, including an assessment of breathlessness using the MRC dyspnoea score in the
	preceding 15 months
Data source:	Quality and Outcomes Framework 2010/11
Numerator:	The number of patients with COPD who have had a review, undertaken by a healthcare
	professional, including an assessment of breathlessness using the MRC dyspnoea score in the
	preceding 15 months as recorded by the Quality and Outcomes Framework
Denominator:	The number of patients with COPD, excluding patients recorded as 'excepted' for a review,
	recorded by the Quality and Outcomes Framework
Methodology:	Numerator divided by denominator expressed as a percentage. These percentages are the
	published achievement by the the Quality and Outcomes Framework.
Further notes:	More information including a rationale for this indicators use in QOF is available from:
	https://mqi.ic.nhs.uk/IndicatorDefaultView.aspx?ref=1.09.03.05
	The source data is available from:
	http://www.ic.nhs.uk/statistics-and-data-collections/audits-and-performance/the-quality-and-out
	<u>comes-framework</u>
Produced by:	The NHS Information Centre for Health and Social Care
Date created:	October 2011

Indicator:	Indicator: The percentage of COPD patients who have had a review, including 'excepted' patients	
Statistic:	Percentage	
Time period:	2010/11	
Age group:	All ages	
Description:	The percentage of patients with COPD who have had a review, undertaken by a healthcare professional, including an assessment of breathlessness using the MRC dyspnoea score in the	
Data source:	Quality and Outcomes Framework 2010/11	
Numerator:	The number of patients with COPD who have had a review, undertaken by a healthcare professional, including an assessment of breathlessness using the MRC dyspnoea score in the preceding 15 months as recorded by the Quality and Outcomes Framework	
Denominator:	Total number of patients with COPD as recorded by the Quality and Outcomes Framework	
Methodology:	Numerator divided by denominator expressed as a percentage	
	The Quality and Outcomes Framework (QOF) allows practices to exception-report (exclude) specific patients from data collected to calculate achievement scores. Patients can be exception-reported from individual indicators for various reasons, including 'not attending appointments' or 'treatment is judged to be inappropriate by the GP'. The patients that have been 'excepted' are included in this analysis. For background information on QOF exception reporting, and for notes on the way exception reporting rates are calculated, see the detailed notes in the statistical bulletin in QOF exception reporting.	
Produced by:	The NHS Information Centre for Health and Social Care	
Date created:	October 2011	

4: Percentage of patients with COPD who have had influenza immunisation in the preceding 1 September to 31 March, by PCT, 2010/11

Percentage of COPD patients having influenza immunisation
Percentage
2010/11
All ages
The percentage of patients with COPD who have had influenza immunisation in the preceding 1
September to 31 March
Quality and Outcomes Framework 2010/11
The number of patients with COPD who have had influenza immunisation in the preceding 1
September to 31 March as recorded by the Quality and Outcomes Framework
The number of patients with COPD, excluding patients recorded as 'excepted' for influenza immunisation, recorded by the Quality and Outcomes Framework
Numerator divided by denominator expressed as a percentage. These percentages are the published achievement by the the Quality and Outcomes Framework.
More information including a rationale for this indicators use in QOF is available from:
https://mgi.ic.nhs.uk/IndicatorDefaultView.aspx?ref=1.09.03.04
The source data is available from:
http://www.ic.nhs.uk/statistics-and-data-collections/audits-and-performance/the-quality-and-out
comes-framework
The NHS Information Centre for Health and Social Care
October 2011

Indicator:	Percentage of COPD patients having influenza immunisation, including 'excepted' patients
	,
Statistic:	Percentage
Time period:	2010/11
Age group:	All ages
Description:	The percentage of patients with COPD who have had influenza immunisation in the preceding 1 September to 31 March
Data source:	Quality and Outcomes Framework 2010/11
	The number of patients with COPD who have had influenza immunisation in the preceding 1 September to 31 March as recorded by the Quality and Outcomes Framework
Denominator:	Total number of patients with COPD as recorded by the Quality and Outcomes Framework
Methodology:	Numerator divided by denominator expressed as a percentage
Further notes:	The Quality and Outcomes Framework (QOF) allows practices to exception-report (exclude) specific patients from data collected to calculate achievement scores. Patients can be exception-reported from individual indicators for various reasons, including 'not attending appointments' or 'treatment is judged to be inappropriate by the GP'. The patients that have been 'excepted' are included in this analysis. For background information on QOF exception reporting, and for notes on the way exception reporting rates are calculated, see the detailed notes in the statistical bulletin in QOF exception reporting.
Produced by:	The NHS Information Centre for Health and Social Care
Date created:	October 2011

5: Rate of COPD emergency admissions to hospital per population, by PCT, 2010/11

Indicator: Emergency COPD admissions Statistic: Directly standardised rate per 100,000 Time period: 2010/11 Age group: All ages Description: Directly standardised rate of COPD admissions by PCT, per 100,000 Data source: Hospital Episode Statistics, The NHS Information Centre for health and social care Coding scheme used: ICD-10 in range J40-J44, Episode number = 1, Status of episode = 3, admission method 21-28. Patient class = 1 or 2. Numerator: Numbers of finished, ordinary or day case admissions in all patients with a primary ICD 10 diagnosis code indicating COPD. Denominator: Mid year estimates of PCT population for 2010 Methodology: Records with the relevant diagnosis codes for 2010/11 were extracted from HES using business objects. Directly standardised rates were calculated with 95% confidence intervals. Further notes: Confidence intervals were calculated with 95% confidence intervals using the Byars method. http://www.apho.org.uk/resource/item.aspx?RID=48457 Produced by: South East Public Health Observatory Date created: July 2012

6: Percentage of emergency COPD re-admissions to hospital within 30 days of discharge, by PCT, 2010/11

Indicator:	Emergency COPD readmissions
Statistic:	Percentage
Time period:	2010/11
Age group:	All ages
Description:	Emergency readmissions to hospital within 30 days of discharge
Data source:	Hospital Episode Statistics, The NHS Information Centre for health and social care
Coding scheme used:	ICD-10 in range J40-J44, Episode number = 1, Status of episode = 3, admission method 21-28,
	Patient classification in 1, 2 or 5
Numerator:	The number of admissions for COPD which were within 30 days of a discharge
Denominator:	The number of admissions for COPD
Methodology:	Numerator divided by denominator expressed as a percentage
Further notes:	To help monitor National Health Service (NHS) success in avoiding (or reducing to a minimum)
	readmission following discharge from hospital, when readmission was not part of the originally
	planned treatment. Previous analyses have shown wide variation between similar NHS
	organisations in emergency readmission rates. Not all emergency readmissions are likely to be
	part of the originally planned treatment and some may be potentially avoidable. The NHS may be
	helped to prevent potentially avoidable readmissions by seeing comparative figures and learning
	lessons from organisations with low readmission rates.
	Confidence intervals were created using the Wilson Score method, the 100(1–a)% confidence
	limits for the proportion:
	http://www.apho.org.uk/resource/item.aspx?RID=48457
Produced by:	North East Public Health Observatory
Date created:	October 2011

7: Proportion (%) of patients admitted with COPD receiving non-invasive ventilation (NIV), by PCT, 2010/11

Indicator:
Statistic:
Percent

Time period:
Age group:
Description:
Data source:
Numerator:
Denominator:
Denominator:
Methodology:
Methodology:

Produced by:
Produced by:

Indicator:
COPD patients receiving non-invasive ventilation (NIV)
Percent
2010/11
Age group:
All ages
Patients receiving non-invasive ventilation
Sourced from NHS Comparators
Patients with HRG4 code of DZ21E or DZ21F or DZ21G
Patients with HRG4 code of DZ21A to DZ21K
The count of spells by PCT was extracted from the 'PbR Income/Expenditure - APC' section of NHS Comparators for DZ21A, DZ21B, DZ21C, DZ21E, DZ21F, DZ21G, DZ21H, DZ21J & DZ21K. These were summed for the denominator and the sum of DZ21E or DZ21F or DZ21G for the numerator.

Produced by:

NHS Comparators

https://www.nhscomparators.nhs.uk
June 2012

8: Rate of COPD emergency admissions to hospital per population, by PCT, 2010/11

8a: Rate of expenditure on home oxygen therapy per patient diagnosed with COPD, by PCT, 2010/11 Indicator: Expenditure on home oxygen therapy

Statistic: 1. Spend (£s) per 1000 ADS population 2. Spend (£s) per patient on COPD disease register Time period: 2010/11 Age group: All ages Description: Expenditure on home oxygen therapy, per head of population by PCT, 2010/11 and per patient on COPD disease register Data source: Department of Health Numerator: PCT Recharge value for Home Oxygen Therapy Denominator: 1. Attribution Data Set (ADS) for PCT registered population 2. The observed crude prevalence of COPD as recorded by the Quality and Outcomes Framework Methodology: The expenditure on home oxygen therapy was taken from the Home Oxygen Supply team in the DH and divided by the ADS registered population of the PCT to establish the cost of a HOS per 1000 patients in each PCT. The same expenditure was then divided by the number of patients on the COPD register to establish the cost of a HOS per 1000 COPD patients in each PCT. Produced by: Home Oxygen Supply Service, Department of Health Date created: October 2011

9: Rate of deaths within 30 days of admission for COPD per COPD inpatient admissions, by PCT, 2009/10

Indicator: 30 day mortality rate following COPD admission Statistic: Indirectly age, sex, method of admission and HRG standardised rate per 100,000 Time period: 2009/10 Age group: All ages Description: Deaths within 30 days of admission for COPD Data source: NHS Information Centre Programme Budget Atlas Coding scheme used: ICD-10 in range J41-J44 Numerator: Number of deaths in patients admitted with COPD Denominator: Number of completed inpatient spells for COPD Methodology: PCT of residence. Rates are indirectly standardised => England crude mortality rate multiplied by the PCT standardised mortality ratio. Expected PCT values are calculated applying national agesex, admission method and HRG death rates to local admission populations at PCT level. Confidence intervals are calculated at 95% level Further notes: Age bands for standardisation are 0-14, 15-44, 45-54, 55-64, 65-74, 75-84, 85+ NB similar data is available for asthma and all respiratory disease. It is possible to produce 90 day and 1 year mortality from the HES linked mortality file. Produced by: The NHS Information Centre for Health and Social Care Date created: 01/04/2012

10: Rate of COPD mortality per population, by PCT, 2008-10

Indicator:	COPD mortality rate
Statistic:	Directly age standardised mortality rate per 100,000
Time period:	2008-10
Age group:	All ages
Description:	Mortality from bronchiolitis and emphysema and other chronic obstructive pulmonary disease
	(COPD).
Data source:	Compendium of Population Health Indicators, The NHS Information Centre for Health and Social
	Care
Coding scheme used:	ICD-10 in range J40-J44
Numerator:	The number of deaths from COPD, classified by underlying cause of death.
Denominator:	2001 census based mid-year population estimates for 2008, 2009 and 2010.
Methodology:	The indicator is constructed as a directly age standardised rate for all ages years using the
	European population as the reference standard.
Further notes:	https://indicators.ic.nhs.uk/webview/
Produced by:	The NHS Information Centre for Health and Social Care
Date created:	January 2012

11: Prevalence (%) of asthma recorded on GP registers, by PCT, 2010/11

Indicator:	Prevalence of asthma
Statistic:	Percentage
Time period:	2010/11
Age group:	All ages
Description:	The percentage of patients with asthma, excluding those who have been prescribed no asthma-
	related drugs the previous twelve months, as recorded on practice disease registers.
Data source:	Information Centre
Numerator:	The aggregated number of patients registered with GP practices, by practice and by PCT, with a
	coded diagnosis of asthma
Denominator:	The aggregated number of all registered patients with GP practices, by practice and by PCT
Methodology:	Numerator divided by denominator expressed as a percentage
Further notes:	The source data is available from:
	http://www.ic.nhs.uk/statistics-and-data-collections/audits-and-performance/the-quality-and-out
	<u>comes-framework</u>
Produced by:	The NHS Information Centre for Health and Social Care
Date created:	October 2011

12: Percentage of patients with asthma who have had an asthma review in the previous 15 months, by PCT, 2010/11

Indicator:	Percentage of asthma patients who have had an asthma review
	Percentage
Time period:	2010/11
Age group:	All ages
Description:	The percentage of patients with asthma who have had an asthma review in the previous 15 months
Data source:	Quality and Outcomes Framework 2010/11
	The aggregated number of patients registered with GP practices, by PCT, with a asthma review coded in the 15 months leading up to 1st of April 2011
Denominator:	The aggregated number of patients registered with GP practices, with a coded diagnosis of asthma, excluding 'excepted' patients for an asthma review - as reported by the Quality and Outcomes Framework.
Methodology:	Numerator divided by denominator expressed as a percentage. These percentages are the published achievement by the the Quality and Outcomes Framework.
Further notes:	More information including a rationale for this indicators use in QOF is available from:
	https://mqi.ic.nhs.uk/IndicatorDefaultView.aspx?ref=1.09.05.05
	The source data is available from:
	http://www.ic.nhs.uk/statistics-and-data-collections/audits-and-performance/the-quality-and-out
	comes-framework The Quality and Outcomes Framework (QOF) allows practices to exception-report (exclude) specific patients from data collected to calculate achievement scores. Patients can be exception-reported from individual indicators for various reasons, including 'not attending appointments' or 'treatment is judged to be inappropriate by the GP'. For background information on QOF exception reporting, and for notes on the way exception reporting rates are calculated, see the detailed notes in the statistical bulletin in QOF exception reporting.
Produced by:	The NHS Information Centre for Health and Social Care
Date created:	October 2011

13: Rate of emergency admissions to hospital in people with asthma aged 18 years and over per population, by PCT, 2010/11

Indicator: Emergency asthma admissions for persons aged 18 and over Statistic: Directly standardised rate per 100,000 Time period: 2010/11 Age group: 18 and over Description: Emergency admission rate for asthma per 100,000 population aged 18+ years Data source: Hospital Episode Statistics (HES) - The NHS Information Centre for Health and Social Care, Office for National Statistics (ONS) Coding scheme used: ICD10 J45 - J46 Numerator: Numbers of finished, ordinary or day case admissions in patients aged 18 and over with a primary ICD 10 diagnosis code indicating Asthma with an admission code indicating emergency. Denominator: Mid year resident population estimates by PCT for all persons aged 18 years and older. Methodology: Records with the relevant primary diagnosis codes for 2010/11 were extracted from HES using business objects. Directly age standardised rates were calculated for persons aged 18 years and older, using the European population as the reference standard. Confidence intervals were calculated using Byar's method: http://www.apho.org.uk/resource/item.aspx?RID=48457

14: Emergency admission rate for children with asthma per population aged 0-17 years, by PCT, 2010/11

Produced by: SEPHO
Date created: May 2012

Indicator:	Emergency asthma admissions for persons aged 17 and under
Statistic:	Directly standardised rate per 100,000
Time period:	2010/11
Age group:	17 and under
Description:	Emergency admission rate for asthma per 100,000 population aged 0-17 years
Data source:	Hospital Episode Statistics (HES), Compendium of Population Health Indicators. The NHS
	Information Centre for Health and Social Care
Coding scheme used:	ICD 10 J45-J46
Numerator:	Admission episodes for 2010/11 for all persons aged 0-17 years with a relevant primary diagnosis
	(ICD 10 J45-J46) code and an emergency admission code
Denominator:	Mid year GP relevant population estimates by PCT, aged 0-17 years, 2010. PCT populations for
	quinary age groups 0-19 were apportioned to obtain population for ages 0-17 years
Methodology:	The indicator is constructed as a directly age standardised rate for persons aged 0-17 years using
	the European population as the reference standard. Confidence intervals were calculated using
	Byar's method:
	http://www.apho.org.uk/resource/item.aspx?RID=48457
Produced by:	ChiMat
Date created:	June 2012

Pneumonia

15: Rate of pneumonia mortality in people aged under 75 years per population by PCT, 2007-10

Indicator:

Mortality from pneumonia in those aged less than 75 years

Statistic:
Directly age standardised mortality rate per 100,000

Time period:
Age group:
O-74 years

Description:
Data source:
Annual Districts Deaths Database, Office for National Statistics (ONS)

Coding scheme used:
Numerator:
Denominator:
Denominator:
Methodology:
Methodology:
The indicator is constructed as a directly age standardised rate for persons aged 0-74 years using the European population as the reference standard. Confidence intervals were calculated using Byar's method:

Further notes:
Produced by:
Date created:
July 2012

Sleep Disordered Breathing

16: Rate of sleep studies undertaken per population, by PCT, 2011

Indicator:	Sleep studies
Statistic:	Crude rate per 1000
Time period:	2011
Age group:	All ages
Description:	Rate of sleep studies per 1000 population, by PCT, 2010
Data source:	Department of Health, Office for National Statistics (ONS)
Numerator:	Number of sleep studies by PCT
Denominator:	2001 census based estimates of mid-year population estimates in PCTs for 2009
Methodology:	The count of the sleep studies undertaken (DM01) are collected on a monthly basis from NHS
	providers (NHS Trusts and other providers) and signed off by commissioners (Primary Care
	Trusts). Twelve months of data has been collated and divided by the 2009 mid year estimates of
	PCO populations from the office for national statistics and multiplied by 1000 to obtain a crude
	rate per 1000.
Further notes:	The data are fair – guidance on completion hasn't been edited for some time and the numbers
	submitted are not subject to rigorous inspection.
Produced by:	Department of Health
Date created:	June 2012

17: Rate of admissions for bronchiolitis in children per population under 2 years of age, by PCT, 2008/09-2010/11

Indicator:	Bronchiolitis admissions
Statistic:	Crude rate per 100,000 (with 95% confidence intervals)
Time period:	3 year aggregate financial years 2008/09-2010/11
Age group:	0-1 years (inclusive)
Description:	Admission rate for bronchiolitis per 100,000 population aged under 2 years
Data source:	Hospital Episode Statistics (HES). Compendium of Population Health Indicators, The NHS Information Centre for Health and Social Care
Coding scheme used:	
Numerator:	Admission episodes for 2008/09-20010/11 for all persons aged under 2 years with primary diagnosis code as listed above
Denominator:	Mid year GP relevant population estimates by PCT, aged 0-1 years, 2008 to 2010
Methodology:	The indicator is constructed as a crude rate for children age 0-1 years. Confidence intervals to be calculated using Byar's method:
	http://www.apho.org.uk/resource/item.aspx?RID=48457
Produced by:	ChiMat
Date created:	June 2012

18: Mean length of stay (days) for bronchiolitis in children aged under 2 years, by PCT, 2008/09-2010/11

Indicator:	Bronchiolitis hospital stay
Statistic:	Mean length of stay (days) for bronchiolitis in children aged under 2 years
Time period:	3 year aggregate financial years 2008/09-2010/11
Age group:	0-1 years (inclusive)
Description:	Mean duration of inpatient hospital spell with primary diagnosis of bronchiolitis aged under 2
	years
Data source:	Hospital Episode Statistics (HES), The NHS Information Centre for Health and Social Care
Coding scheme used:	ICD-10 J21
Numerator:	Sum of duration of hospital spells for first finished episodes for 2008/09-2010/11 for all persons
	aged under 2 years with primary diagnosis ICD code J21
Denominator:	Admission episodes for 2008/09-20010/11 for all persons aged under 2 years with primary
	diagnosis code as listed above
Methodology:	The average (mean) was calculated from the sum of all hospital spell durations in each PCT,
	divided by the count of PCT hospital spells recorded. Confidence intervals calculated using the
	normal approximation method:
	http://www.apho.org.uk/resource/item.aspx?RID=48457
Produced by:	ChiMat
Date created:	June 2012

Respiratory Prescribing

19: Average daily quantity of combination (ICS and LABA) inhalers per patients on GP COPD and Asthma registers, by PCT, 2011

Indicator:
Statistic:
Average daily quantity (ADQ) per 1000 patients
Time period:
Age group:
All ages
Description:
Data source:
NHS Business Services Authority Prescribing Analysis and CosT tool (PACT) system
Numerator:
Average daily quantity of inhaler items prescribed in 2011 calendar year
Denominator:
The numbers of registered people with COPD and asthma in GP practices, as collected by the
Quality Management Analysis System under the Quality and Outcomes Framework 2010/11

Methodology:
Numerator divided by the denominator. Data for the numerator of this indicator are expressed as average daily quantities (ADQ), a measure of prescribing volume based upon prescribing behaviour in England: it represents the assumed average maintenance dose per day for a drug used for its main indication in adults (it is an analytical unit and not a recommended dose). The patient denominator is the combined number of patients on the asthma and COPD GP practice registers.

Produced by: Prescribing and Primary Care Services, NHS Business Services Authority Date created: September 2011

20: Rate of successful smoking quitters at 4 weeks per population of smokers aged 16 years and over, by PCT, by PCT,

Indicator: Smoking quit rates

Statistic: Crude rate per 100,000

Time period: 2010/11 Age group: 16 and over

Description:

Rate of successful smoking quitters at 4 weeks per population of smokers aged 16 years and over Data sources: The NHS Information Centre for Health and Social Care, Integrated Household Survey for smoking prevalence. Population estimates from the Office for National Statistics.

> http://www.ic.nhs.uk/statistics-and-data-collections/health-and-lifestyles/nhs-stop-smokingservices

Numerator: Number of self-reported successful quitters at 4 weeks in 2010/11. Successful quitters are those smokers who successfully quit at the four-week follow-up. A client is counted as a 'self-reported 4week quitter' when assessed 4 weeks after the designated quit date, if they declare that they have not smoked, even a single puff on a cigarette, in the past two weeks. This information is collected on NHS Stop Smoking returns in line with requirements from the Department of Health

Denominator: Population who currently smoke in 2009 and 2010 taken from the integrated household survey. Smoking prevalence estimates for those aged 18+ for 2009/10 and 2010/11 were applied to 2009

and 2010 mid-year primary care trust populations for persons aged 16+.

Methodology: The quit rate was calculated by dividing the number of smoking quits by smoking population, multiplied by 100,000. Smoking prevalence based on the IHS survey is routinely available at local authority level only. In order to obtain estimates at PCT level, prevalence estimates for local authorities were weighted proportionately to PCT populations. The 95% confidence intervals for crude rates were calculated using Byar's method. Confidence intervals indicate the level of uncertainty around the numerator, whereas it is assumed that there is no uncertainty around the denominator. However, the denominator for this indicator has been derived from population estimates and estimates of smoking prevalence adjusted to PCO populations, meaning there is some level of uncertainty. This in turn means that the confidence intervals will only be indicative of the true variance around the estimates.

> http://www.lho.org.uk/LHO Topics/Analytic Tools/TobaccoControlProfiles/default.aspx http://www.apho.org.uk/resource/item.aspx?RID=48457

Further notes: Data are collected on the basis of the PCT providing the stop smoking service. Clients are not restricted to attending stop smoking services in the PCT with which they are registered or resident. This means that the number of smoking quits as a result of stop smoking services is not necessarily the number of smoking quits in the PCT's own population. However, for this indicator quits are expressed per 100,000 resident smoking population. For those PCTs whose residents go elsewhere for stop smoking services this will be an underestimate of the true quit rate, for those PCTs who see many people for stop smoking services from outside the PCT, this rate will be an overestimate of the true quit rate.

Produced by: LHO Date created: April 2011