

Local Tobacco Control Profiles

Indicator keywords

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Smoking related mortality

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Indicator Definitions and Supporting Information

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| Indicator ID | 113 |
| Date updated | 04 Dec 2018 |
| Indicator full name | Estimated deaths attributable to smoking per 100,000 population, aged 35+. |
| Rationale | <p>Smoking remains the biggest single cause of preventable mortality and morbidity in the world¹. It still accounts for 1 in 6 of all deaths in England, and there exist huge inequalities in smoking related deaths: areas with the highest death rates from smoking are about three times as high than areas with the lowest death rates attributable to smoking.</p> <p>Reference:</p> <p>(1) World Health Organization Report on the Global Tobacco Epidemic 2009 http://www.who.int/tobacco/mpower/2009/en/index.html</p> <p>Towards a Smokefree Generation: A Tobacco Control Plan for England¹ states that tobacco use remains one of our most significant public health challenges and that smoking is the single biggest cause of inequalities in death rates between the richest and poorest in our communities. In January 2012 the Public Health Outcomes Framework² was published. Smoking and smoking related death plays a key role in two of the four domains: Health Improvement and Preventing premature mortality.</p> <p>References: (1) Towards a Smokefree Generation: A Tobacco Control Plan for England, July 2017 https://www.gov.uk/government/publications/towards-a-smoke-free-generation-tobacco-control-plan-for-england</p> <p>(2) Healthy Lives, Healthy People: Improving outcomes and supporting transparency, Part 1: A public health outcomes framework for England, 2013-16 https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/263658/2901502_PHO</p> |
| Definition | <p>Deaths attributable to smoking, directly age standardised rate for persons aged 35 years +.</p> <p>Relative risks by ICD10 code from The Information Centre for Health and Social Care, Statistics on Smoking: England 2010. A full description of the methodology is available in the APHO Health Profiles user guide.</p> |
| Data source | ONS mortality file, ONS LSOA single year of age population estimates and smoking status from Integrated Household Survey/Annual Population Survey, relative risks from The Information Centre for Health and Social Care, Statistics on Smoking, England 2010. |
| Indicator source | Further detail on the methodology can be found at www.apho.org.uk/resource/view.aspx?RID=116454 |
| Indicator production | PHE - Risk Factors Intelligence Team |
| Definition of numerator | <p>Smoking attributable deaths are the sums over the smoking attributable fractions of all deaths. The fraction (between 0 and 1) of a death that is considered to be due to smoking is based on: relative risk (specific for underlying cause of death, smoking status, age and sex) and estimated smoking and ex-smoking prevalence (by age, sex, area).</p> <p>Causes of death considered to be related to smoking are: various cancers, cardiovascular and respiratory diseases, and diseases of the digestive system. For a detailed list, including ICD 10 codes, please see Health Profiles 2012 Indicator Guide p.253.</p> |

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| Source of numerator | <p>ONS: Annual birth and death extracts</p> <p>Prevalence of current smoking, former smoking and non-smoking from Integrated Household Survey, ONS (experimental statistics). 2007-09 to 2012-14 smoking attributable mortality uses three year weighted average smoking prevalence for Local Authorities, combined with the regional age-sex breakdown of smoking prevalence for the same period. For the period 2013-15 and 2014-16 the smoking prevalence is derived from the Annual Population Survey, ONS.</p> <p>Relative risks from The Health and Social Care Information Centre Statistics on Smoking: England 2010</p> |
| Definition of denominator | ONS mid-year population estimates |
| Source of denominator | ONS |
| Value type | Directly standardised rate |
| Unit | per 100,000 |
| Standard population/values | European Standard Population 2013 |
| Age | 35+ yrs |
| Sex | Persons |
| Year type | Calendar |
| Frequency | Annual |
| Benchmarking method | Confidence intervals overlapping reference value (95.0) |
| Benchmarking significance level | 95% |
| Confidence interval method | Byar's method (no small number correction) |
| Disclosure control | Where the observed total number of deaths is less than 10, the rates have been suppressed as there are too few deaths to calculate directly standardised rates reliably. The cut-off has been reduced from 25, following research commissioned by PHE and in preparation for publication which shows DSRs and their confidence intervals are robust whenever the count is at least 10. |
| Notes | <p>All data points from 2007-09 to 2011-13 were recalculated using a three year weighted average prevalence from the Annual Population Survey (APS) to smooth out large fluctuations in smoking prevalence in some areas. Adjustments were made for ICD10 v 2010 and ICD10 v 2013 for deaths up to and including 2013.</p> <p>Prior to 2013-15 the smoking prevalence is calculated as an average of the 3 years. Due to the SAF's requiring smoking prevalence for different age groups, and the small numbers sampled in local authorities in the APS which can fluctuate largely between years, the regional data is used for these estimates.</p> <p>From 2013-15 the attributable fractions are based solely on local authority estimates from the APS, rather than the previous method. As a result, the sample size for the lower tier data is too small to get reliable estimates for the different age groups required.</p> <p>Data for 2013-15 and 2014-16 has been revised in December 2018. This is due to ONS publishing revised mid-year population estimates.</p> |
| Profiles included in | Co-occurring substance misuse and mental health issues , Local Tobacco Control Profiles , Mortality Profile |

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