Asbestos-related disease statistics in Great Britain, 2020

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Summary

Asbestos-related disease

Over 5,000
Asbestos-related disease deaths per year currently, including mesothelioma, lung cancer and asbestosis

2,446
Mesothelioma deaths in 2018, with a similar number of lung cancer deaths linked to past exposures to asbestos

503
Deaths in 2018 mentioning asbestosis on the death certificate

Inhalation of asbestos fibres can cause cancers such as mesothelioma and lung cancer, and other serious lung diseases such as asbestosis and pleural thickening.

Figure 1 - Mesothelioma, asbestosis, and pleural thickening: time trends in annual deaths and Industrial Injuries Benefit Disablement (IIDB) cases*

*Latest statistics are for 2018 for deaths and 2019 for IIDB cases

All asbestos-related diseases typically take many years to develop so current statistics reflect the legacy of past working conditions.

Widespread use of asbestos containing products in the past – particularly in the post-WWII building industry – led to a large increase in asbestos-related disease in Great Britain over the last few decades.

The cancer, mesothelioma, has such a strong relationship with asbestos that annual deaths give a particularly clear view of the effect of past exposures.

Annual deaths increased steeply over the last 50 years, largely as a result of asbestos exposure prior to 1980, and are now expected to continue at current levels for the rest of the decade.

More detailed information on mesothelioma

Mesothelioma deaths by geographical area

Mesothelioma deaths by last occupation of the deceased

The document can be found at: www.hse.gov.uk/statistics/causdis
Introduction

Inhalation of asbestos fibres can cause a number of serious diseases most of which affect the lungs or pleura (the external lining of the lung). These include a number of forms of cancer and chronic conditions such as asbestosis and pleural thickening. This document summarises the latest statistics on these diseases.

All of these diseases have a long latency, meaning it takes a long time – typically decades – for symptoms to occur following exposure to asbestos. However, for cancers such as mesothelioma and lung cancer, cases are often rapidly fatal following disease onset, while conditions such as asbestosis may progress over time to seriously affect normal daily activity and lead to complications which can be fatal.

Asbestos was used extensively in Great Britain in a wide range of products, but particularly in insulation and building materials, following World War II. Widespread asbestos-exposures during the 1950s, 1960s and 1970s led to a large increase in asbestos-related disease in Great Britain.

For some diseases – for example, mesothelioma and asbestosis – statistics can be derived from data sources that rely on counting of individual cases or deaths. For diseases that are regularly caused by other agents as well as asbestos – for example, lung cancer – statistics can be derived based on epidemiological evidence about the Attributable Fraction (AF) of cases or deaths due to asbestos exposure.

Asbestos-related cancers

Mesothelioma

Mesothelioma is a form of cancer that principally affects the pleura (the external lining of the lung) and the peritoneum (the lining of the lower digestive tract). It takes many years to develop following the inhalation of asbestos fibres. Cases are often diagnosed at an advanced stage as symptoms are typically non-specific and appear late in the development of the disease. It is almost always fatal, and often within twelve months of symptom onset.

Mesothelioma has such a strong relationship with asbestos that annual cases give a particularly clear view of the effect of past exposures, and as the disease is usually rapidly fatal following disease onset, the number of annual deaths closely approximates to the annual number of new cases (i.e. the annual disease incidence).

Annual deaths in Britain increased steeply over the last 50 years, a consequence of mainly occupational asbestos exposures that occurred because of the widespread industrial use of asbestos during 1950-1980.

The latest statistics are as follows:

- There were 2,446 mesothelioma deaths in Great Britain in 2018, a broadly similar number to the previous six years.
- Annual numbers of deaths for years up to around 2020 are expected to remain at about 2,500.
- More than half of annual deaths now occur in those aged over 75 years. Annual deaths in this age group continue to increase while deaths below age 70 are now decreasing.
- There were 2,050 male deaths in 2018, a slight reduction compared with recent years, and 396 female deaths.
- There were 2,025 new cases of mesothelioma assessed for Industrial Injuries Disablement Benefit (IIDB) in 2019 of which 240 were female. This compares with 2,230 new cases in 2018 of which 245 were female.
- Men who worked in the building industry when asbestos was used extensively are now among those most at risk of mesothelioma.

A more detailed description of the latest mesothelioma statistics, including analyses by region and occupation is available at:


Asbestos-related lung cancer

Asbestos is one of the most common causes of lung cancer after tobacco smoking. Lung cancer usually has no specific clinical signs associated with particular causes and so it is very difficult to be sure about the causes of individual cases. However, the overall proportion of annual deaths that are attributable to past
asbestos exposures can be estimated from epidemiological information. Lung cancer is still typically fatal within a few years of diagnosis and so, as with the mesothelioma, the number of annual deaths is broadly similar to the annual incidence of new cases.

Epidemiological studies of specific groups of workers that were heavily exposed to asbestos in the past have typically estimated a greater number of lung cancers attributed to asbestos than there were mesotheliomas. However, other studies that are more representative of the British population as a whole provide the best basis for estimating the overall number of asbestos-related lung cancers nationally. Such evidence suggests that there are around as many lung cancer cases attributed to past asbestos exposure each year as there are mesotheliomas, though this estimate is uncertain.

A ratio of one asbestos-related lung cancer for every mesothelioma implies there are currently around 2,500 asbestos-related lung cancer deaths each year.

It is expected that there will be fewer asbestos-related lung cancers per mesothelioma in the future as a consequence of reductions in both asbestos exposure and smoking—which act together to increase the risk of lung cancer—in past decades.

Data sources that rely on the counting of individual cases attributed to asbestos exposures, such as the Industrial Injuries Disablement Benefit (IIDB) and the Health and Occupation Reporting (THOR) schemes, tend to substantially underestimate the true scale of asbestos-related lung cancer.

In recent years there have been, on average, around 260 new cases of asbestos-related lung cancer each year, with 240 reported in 2019, within the IIDB scheme (see table IDB01 www.hse.gov.uk/statistics/tables/iidb01.xlsx). There were an estimated 74 cases of lung cancer identified by chest physicians in 2019 within the THOR scheme, close to the average of 73 per year over the last ten years. Most of these cases are associated with asbestos. (See table THOR01 www.hse.gov.uk/statistics/tables/thorr01.xlsx.) Typically, females account for 2% of IIDB cases and less than 1% of THOR cases.

Estimates of the burden of lung cancer attributable to occupational exposures other than asbestos are available based on the Burden of Occupational Cancer research (www.hse.gov.uk/cancer/research).

**Other asbestos-related cancers**

In their most recent review, the International Agency for Research on Cancer (IARC) concluded that in addition to mesothelioma and lung cancer there is sufficient evidence that asbestos can cause cancer of the larynx, ovary, pharynx and stomach.

Two of these cancers (larynx and stomach) were already known to be caused by asbestos when the Burden of Occupational Cancer research (www.hse.gov.uk/cancer/research) was carried out and so estimates of the current annual number of new cases and deaths are available.

Based on mortality data for 2014-2018 and cancer incidence data for 2013-2017, the current estimated annual number of cases and deaths attributed to past asbestos exposure were:

- for cancer of the larynx: 9 cases and 3 deaths;
- for cancer of the stomach: 40 cases and 26 deaths.
Non-malignant asbestos-related diseases

Asbestosis
Asbestosis is a form of pneumoconiosis caused by the inhalation of asbestos fibres, which is characterised by scarring and inflammation of the lung tissue. It is a chronic and irreversible condition in which symptoms typically start to develop several decades following exposure to asbestos. These often progress to seriously affect normal daily activity and can lead to various complications which can be fatal.

It is generally recognised that heavy asbestos exposures are required in order to produce clinically significant asbestosis within the lifetime of an individual. Current trends therefore still largely reflect the results of heavy exposures in the past.

The latest statistics for deaths where asbestosis contributed as a cause of death based on the Asbestosis Register show:

- Deaths mentioning asbestosis (excluding those that also mention “mesothelioma”) have increased substantially over a number of decades: there were 503 such deaths in 2018 compared with around 100 per year in the late 1970s. Typically, in recent years, around 2-3% of these deaths were among women.
- In over half of these deaths in 2018, asbestos was mentioned on the death certificate, but not as the underlying cause of death.
- Deaths also mentioning mesothelioma are excluded, since here the term “asbestosis” may have been used incorrectly to indicate the role of asbestos fibres in causing the separate disease mesothelioma. There were 35 such deaths in 2018.
- There were 228 deaths in 2018 where asbestosis was recorded as the underlying cause of death (defined as the disease or injury that initiated the events leading directly to death).
- Interpretation of these figures is further complicated by the fact that cases of asbestosis may sometimes not be recorded as such because they may be mistaken for other types of lung fibrosis – or recorded as “idiopathic” cases (i.e. lung fibrosis without a known cause) – or may go undiagnosed.

Table IIDB06 [www.hse.gov.uk/statistics/tables/iidb06.xlsx](www.hse.gov.uk/statistics/tables/iidb06.xlsx) shows the number of new cases of asbestosis (and other forms of pneumoconiosis) assessed under the Industrial Injuries and Disablement Benefit (IIDB) scheme. The number of cases of asbestosis has increased substantially over the long term from 132 in 1978 to 905 in 2019 (see Figure 2) of which 1-2% were among women.

Figure 2 – Annual deaths where death certificates mentioned asbestosis but not mesothelioma, and IIDB cases 1978-2019

Table THORR01 ([www.hse.gov.uk/statistics/tables/thorr01.xlsx](www.hse.gov.uk/statistics/tables/thorr01.xlsx)) gives a breakdown of the pneumoconiosis cases seen by chest physicians in the THOR scheme. There were 159 cases of asbestosis out of the estimated 236 pneumoconiosis cases reported to respiratory physicians in 2019. Typically, less than 1% of cases were female.

The statistics based on reporting by chest physicians in the THOR scheme also support a continuing increase in annual asbestosis cases. The latest analysis of trends in THOR data suggests that the incidence of all pneumoconiosis – the majority of which is known to be asbestosis within that scheme – has been increasing with an average change of + 3.6 % per year (95% CIs: +2.1, +5.0) over the time period 1999-2019.
2019. For the more recent period 2010-2019, the equivalent estimate was +5.76.3% per year (95% CIs: +2.2, +9.3), with the increase largely due to asbestos rather than silica, coal etc.

**Asbestosis deaths by age group and time period**

Table ASIS02 [www.hse.gov.uk/statistics/tables/asis02.xlsx](www.hse.gov.uk/statistics/tables/asis02.xlsx) shows the total number of death certificates mentioning the term asbestosis without mention of mesothelioma among males, and equivalent death rates, by age group for the three-year time periods during 1978-2018.

Age-specific death rates for males are also shown in Figure 3 below.

There are large differences in the magnitude of the rates between the different age groups:

- Death rates at ages below 65 years have been falling since the 1980s;
- This contrasts with strongly increasing rates for deaths at ages 75 years and above.

This is consistent with those that were born more recently tending to have lower asbestos exposures than those born earlier and who were of working age during the period when asbestos was most widely used.

Due to the small number of female deaths, age-specific death rates for women have not been shown, but also indicate an increase in rates in the 85-89 and 90+ age bands over the last 10 years.

**Figure 3 – Average annual male death rates based on death certificates mentioning asbestosis but not mentioning mesothelioma by age and time period, 1978-2018(p)**

![Asbestosis deaths by age group and time period graph](image)

*Note: rates for the age band 85+ years can be split into 85-89 and 90+ from year 2001 only (broken black lines).*

**Asbestosis deaths by region**

Age-standardised death rates for males by 3-year time period and region (again restricted to deaths mentioning asbestosis but not mesothelioma) are available in Table ASIS03 [www.hse.gov.uk/statistics/tables/asis03.xlsx](www.hse.gov.uk/statistics/tables/asis03.xlsx).

Age-standardisation allows comparison of rates taking account of changes in the age-structure of the underlying population over time and between regions. The period 2016-2018 was taken as the base for standardisation over time and Great Britain for standardisation over region. A small number of deaths with overseas addresses were excluded.
For Great Britain as a whole, male asbestosis death rates increased from 5.5 per million in 1981-83 (the earliest period available for regional data) to 16.8 in 2016-18. Male regional rates have similarly increased over time, although to a lesser extent in Wales and London. The highest rates are in the North West (20.4 per million) and in the North East, where they have declined from a peak of 45.7 in 2010-12 to 31.2 in 2016-18.

The female asbestosis death rates for GB have remained broadly constant since the 1980s with an average of 0.3 per million per year. The only region with substantially highest rates than this was the North East with a rate of 3.0 per million in 2016-18.

More detailed analyses of asbestosis mortality by Unitary Authority (UA) and Local Authority (LA) area for the period 1981 to 2018 are available in Annex 1, with associated data tables available at www.hse.gov.uk/statistics/tables/ASISAREA.xlsx and interactive maps at https://arcg.is/K4i8m.

Non-malignant pleural disease

Non-malignant pleural disease is a non-cancerous condition affecting the outer lining of the lung (the pleura). It includes two forms of disease: diffuse pleural thickening and the less serious pleural plaques. A substantial number of cases continue to occur each year in Great Britain, mainly due to workplace asbestos exposures many years ago.

- There were 510 new cases of pleural thickening assessed for Industrial Injuries Disablement Benefit in 2019. (See table IIDB01 www.hse.gov.uk/statistics/tables/iidb01.xlsx.)
- The annual number has been fairly constant over the last 10 years, with an average of around 460 new cases per year of which around 1% are female.
- An estimated 366 new cases of non-malignant pleural disease mainly caused by asbestos were reported by chest physicians in 2019. Typically, around 2-3% of cases are female. A substantial proportion of these were cases of pleural plaques. (See table THORR01 www.hse.gov.uk/statistics/tables/thorr01.xlsx.)
- Pleural plaques are usually symptomless and are often identified in the THOR scheme when individuals have chest x-rays for other conditions. For these reasons, there are likely to be substantially more individuals in the population with pleural plaques than those identified by chest physicians.
Annex 1: Asbestosis deaths by geographical area 1981-2018

Introduction

This analysis of asbestosis mortality by Unitary Authority (UA) and Local Authority (LA) area includes deaths occurring during the period 1981 to 2018, the longest period for which data are available according to the current UA and LA structure. It also provides detailed analysis of temporal trends within selected geographical areas using Generalised Additive Models.

The analyses presented in the maps and charts in this annex are based on the 9,238 male and 332 female deaths occurring during 1981 to 2018 due to asbestosis, defined as any death with asbestosis recorded on the death certificate (either as the underlying cause or otherwise mentioned) but excluding deaths that also mentioned mesothelioma. During this period, male asbestosis deaths increased from 130 in 1981 to 474 in 2018; female deaths fluctuated between 5 and 17 a year.

Annual deaths with asbestosis as the underlying cause and all deaths mentioning asbestosis (including those that also mention mesothelioma) are shown in Figure A3.1 in Annex 3 for comparison with the deaths included in this analysis.

Results are available as interactive maps at: https://arcg.is/K4i8m

Full results are also available in Excel tables at www.hse.gov.uk/statistics/tables/ASISAREA.xlsx, including additional analyses based on all death certificates mentioning asbestosis (including those that also mention mesothelioma) and analyses restricted to where the underlying cause of death was recorded as asbestosis.

The analysis is based on the last area of residence of the deceased, as recorded on death certificates, and uses Standardised Mortality Ratios (SMRs) which compare the mortality rate in a particular area with the mortality rate for GB, taking account of age differences. SMRs are expressed as a percentage: values higher or lower than 100 indicate mesothelioma rates that are higher or lower, respectively, than for GB as a whole.

The analyses of temporal trends for geographical areas within Great Britain should be interpreted in the context of increasing annual asbestosis deaths in Great Britain as a whole. Overall deaths have increased substantially since the 1970s. Since Standardised Mortality Ratios (SMRs) compare the mortality rate in a particular region with that for GB as a whole, trends in SMRs for a particular area indicate whether rates for that area have increased relatively more or less rapidly than for GB as a whole. No change in the SMR for an area over time indicates that the mortality rates have increased in line with the trend for GB as a whole.

Results

Figure A1.1 is a map showing SMRs by Unitary/Local Authority area for males for the overall period 1981-2018. Figure A1.2 highlights those areas for which the mortality rate was statistically significantly higher or lower than for GB as a whole.
Figure A1.1 – Asbestosis SMRs for males by geographical area 1981-2018
Figure A1.2 – Statistical significance of asbestosis SMRs for males by geographical area 1981-2018

Significance
- Less than 100
- Not significant
- Over 100
Temporal trends in asbestosis mortality

Temporal variation in asbestosis SMRs for regions within Great Britain and selected Unitary/Local Authority areas are shown graphically in this section.

Charts with trend lines shown with solid **bold black lines** indicate statistically significant temporal changes, those with **green lines** indicate trends of borderline significance, while those with **blue lines** trends were not significant. The dashed lines represent the 95% confidence intervals.

**Male asbestosis deaths by area 1981-2018**

Figure A1.3 shows the regional variation for male SMRs calculated annually along with 95% confidence intervals.

There were statistically significant temporal changes in the SMR in all regions except Wales and England as a whole. The highest male SMR for asbestosis was seen in the North East (SMR 289.5, 95% Confidence Interval 273.6 to 306.1, 1238 deaths), although there was a significant declining trend over time. SMRs elsewhere were much lower. For example, in the South West, whilst the SMR for 1981-2018 as a whole was significantly higher than 100, the trend analysis suggests it has reduced to being significantly lower than 100 in recent years.

**Figure A1.3 – Annual asbestosis SMRs for males by region, 1981-2018**
The Unitary/Local authority areas with the highest male asbestosis SMRs for the period 1981-2018 were:

- Barrow-in-Furness (SMR 905.3, 95% CI 745.3 to 1089.4, deaths 112)
- Sunderland (SMR 802.1, 95% CI 720.4 to 890.6, deaths 351)
- Plymouth (SMR 749.6, 95% CI 668.1 to 838.3, deaths 307)
- Barking and Dagenham (SMR 602.5, 95% CI 506.8 to 711.0, deaths 140)
- South Tyneside (SMR 540.2, 95% CI 455.2 to 636.3, deaths 143)
- Hartlepool (SMR 498.2, 95% CI 389.8 to 627.4, deaths 72)
- West Dunbartonshire (SMR 477.1, 95% CI 368.2 to 608.1, deaths 65)
- North Tyneside (SMR 454.6, 95% CI 385.6 to 532.3, deaths 154)
- Inverclyde (SMR 437.8, 95% CI 333.3 to 564.8, deaths 59)
- Newham (SMR 432.9, 95% CI 354.7 to 523.1, deaths 107)

Figure A1.4 – Annual asbestosis SMRs for males for the top six UA/LA areas, 1981-2018
Figure A1.5 – Annual asbestosis SMRs for males for UA/LAs ranked 7-12, 1981-2018

Figure A1.6 – Annual asbestosis SMRs for males for UA/LAs ranked 13-18, 1981-2018
Female asbestosis deaths by area 1981-2018

There were far fewer asbestosis deaths among females than males. SMRs for many UA/LA areas were therefore associated with considerable uncertainty due to there being small numbers of actual deaths observed, and no analyses of temporal trends for females are presented. Nevertheless, the results for the whole period 1981-2018 show that certain areas known to be associated with industries with heavy historic asbestos exposures have particularly high SMRs.

The North East region accounted for 126 deaths of the 346 deaths for GB as a whole during 1981-2018 (SMR 811.9, 95% CI 675.4 to 965.5), and 81 deaths occurred within the Sunderland Local Authority (SMR 4968.5, 95% CI 3946.0 to 6175.7).

The Unitary/Local Authority area ranked second was Barking and Dagenham Local Authority, where there were 17 deaths (SMR 1902.2, 95% CI 1107.7to 3045.7).

Newham Local Authority was ranked 3rd with 13 deaths (SMR 1474.6, 95% CI 785.0 to 2521.6) and the area ranked 4th was South Ribble Local Authority with 7 deaths, although none since before the year 2000 (SMR 1173.0, 95% CI 470.9to 2416.3).
**Annex 2 – Methodology for the mortality analyses by geographical area**

Data for death certificates mentioning asbestosis occurring during the period 1981-2018 were obtained from the Health and Safety Executive Asbestosis Register. SMRs were derived using mid-year population estimates provided by the Office for National Statistics.

The method of age standardisation used in the production of SMRs is commonly referred to as the indirect method. Age-specific death rates in a standard population (in this case Great Britain by gender) are applied to the age structure of the population for each geographical area in order to calculate expected numbers of deaths. The ratio of the observed number of deaths to the expected number of deaths in the area is calculated and multiplied by 100 to give the SMR. The SMR of the standard population is 100. An SMR greater or less than 100 indicates a respectively higher or lower than expected mortality rate in a specific area. If the lower bound of the 95% Confidence Interval for the SMR is greater than 100 this indicates that the observed number of deaths was statistically significantly higher than expected. A worked example of the SMR calculation is provided below.

The statistical models involved fitting a smoothed term for the year in a Generalized Additive Model (GAM) to identify annual trends. In most cases a Poisson error term was assumed; for a small number of cases a Negative Binomial or Normal (Gaussian) error term was assumed.

**SMR calculation – worked example**

Table A2.1 illustrates the calculation of an SMR for men in geographical area ‘A’. The total population of Great Britain is used as the standard population (column 1). The asbestosis death rate in the population for each age group (column 3) is the total number of male asbestosis deaths (column 2) divided by the total number of men in Great Britain (column 1) to give age-specific death rates in the standard population. These rates are applied to the total population in area A, given in column 4, to give the expected numbers of deaths in this area, in column 6. The total observed number of deaths summed over the age groups (532, column 5) divided by the expected number of deaths (210.57, column 6), multiplied by 100, gives an SMR of 252.7.

Table A2.1: Example of SMR calculation

<table>
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<th>Age group</th>
<th>Total persons in Great Britain</th>
<th>Persons in geographical area ‘A’</th>
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<td>Population</td>
<td>Asbestosis deaths</td>
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<td>(2)</td>
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</table>

**Total, all ages**

4,296,057  8,727  106,334  532  210.57

SMR = 100 x 532 / 210.57 = 252.7
Annex 3: Figure A3.1 – Annual asbestosis deaths 1978-2018
References


National Statistics

National Statistics status means that statistics meet the highest standards of trustworthiness, quality and public value. They are produced in compliance with the Code of Practice for Statistics, and awarded National Statistics status following assessment and compliance checks by the Office for Statistics Regulation (OSR). The last compliance check of these statistics was in 2013.

It is Health and Safety Executive’s responsibility to maintain compliance with the standards expected by National Statistics. If we become concerned about whether these statistics are still meeting the appropriate standards, we will discuss any concerns with the OSR promptly. National Statistics status can be removed at any point when the highest standards are not maintained, and reinstated when standards are restored. Details of OSR reviews undertaken on these statistics, quality improvements, and other information noting revisions, interpretation, user consultation and use of these statistics is available from www.hse.gov.uk/statistics/about.htm

An account of how the figures are used for statistical purposes can be found at www.hse.gov.uk/statistics/sources.htm.

For information regarding the quality guidelines used for statistics within HSE see www.hse.gov.uk/statistics/about/quality-guidelines.htm

A revisions policy and log can be seen at www.hse.gov.uk/statistics/about/revisions/

Additional data tables can be found at www.hse.gov.uk/statistics/tables/.

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