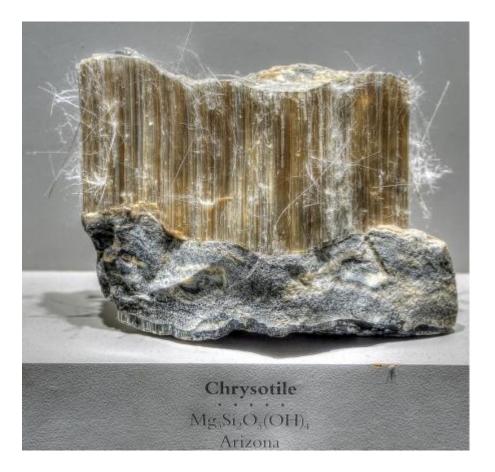
ASBESTOS DISEASES

Dr Alastair Robertson

Occupational Health Department University Hospital Birmingham Birmingham B29 6JF 01216278285 Alastair.robertson@uhb.nhs.uk Occupational Lung Disease Unit Birmingham Chest Clinic Heart of England NHS Trust 151 Great Charles Street Queensway, Birmingham B3 3HX 0121 424 1950



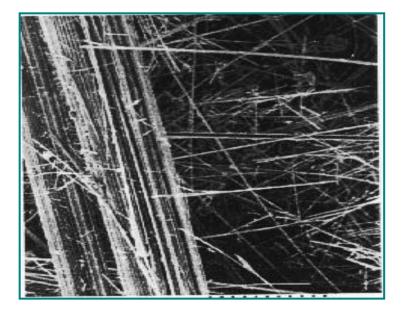


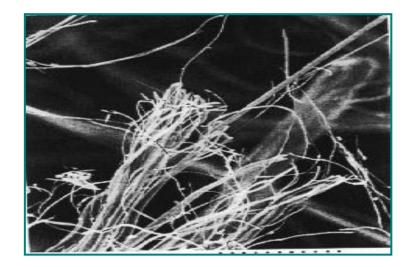
- Insulates
- Fire resistant
- Chemically resistant

Asbestos

Serpentine group

Chrysotile (white asbestos)





Amphibole group

amosite (brown asbestos), crocidolite (blue asbestos), anthophyllite, actinolite, tremolite

Others erionite

Asbestos use worldwide (2006)

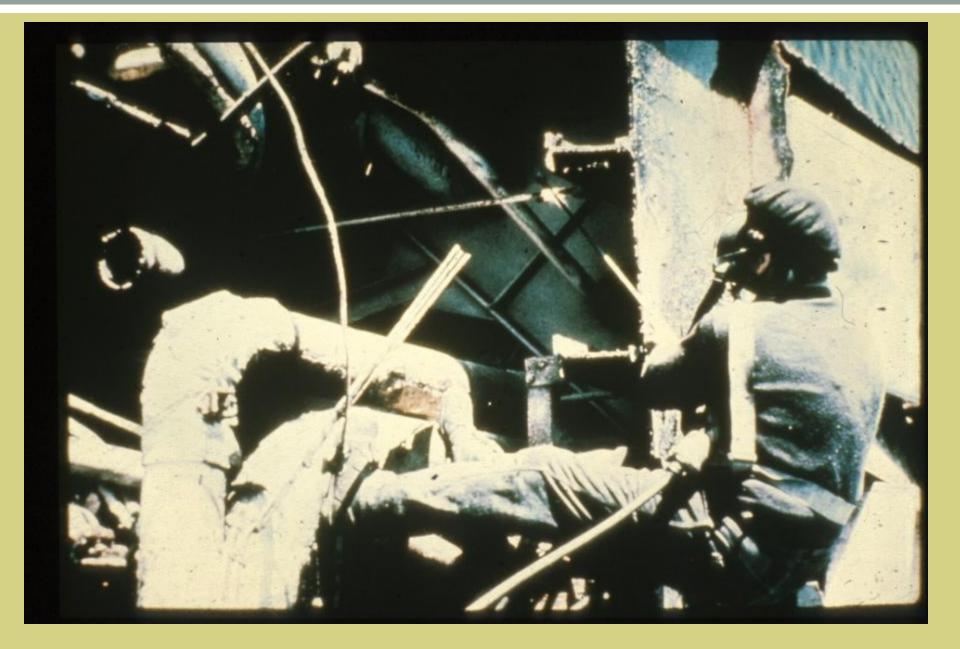
- Top five producers (tons)
 - Russia 925,000
 - Kazakhstan 355,000
 - China 350,000

236,100

- Canada 243,000
- Brazil

- Top five consumers (tons)
 - China 530,190
 - Russia 292,541
 - India 272,856
 - Kazakhstan
 - Brazil

- 151,231
- 143,123



Asbestos Uses





Friction materials and gaskets

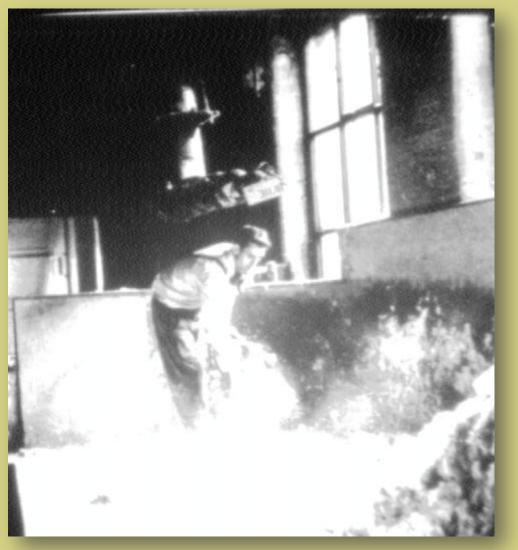
Insulation

Asbestos uses - Textiles



Asbestos usage - construction







Asbestos – domestic exposure



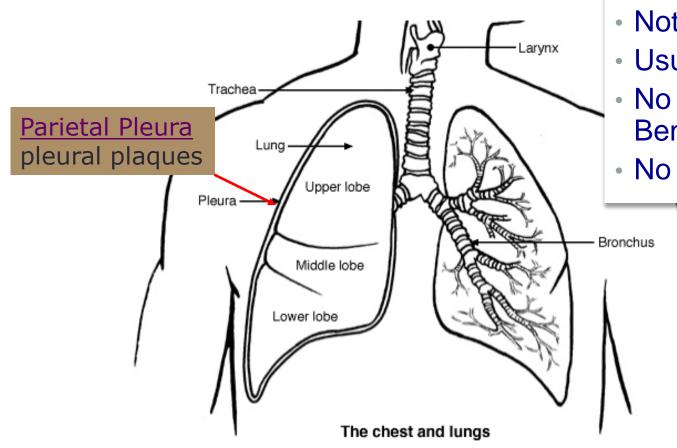


Asbestos exposure - environmental



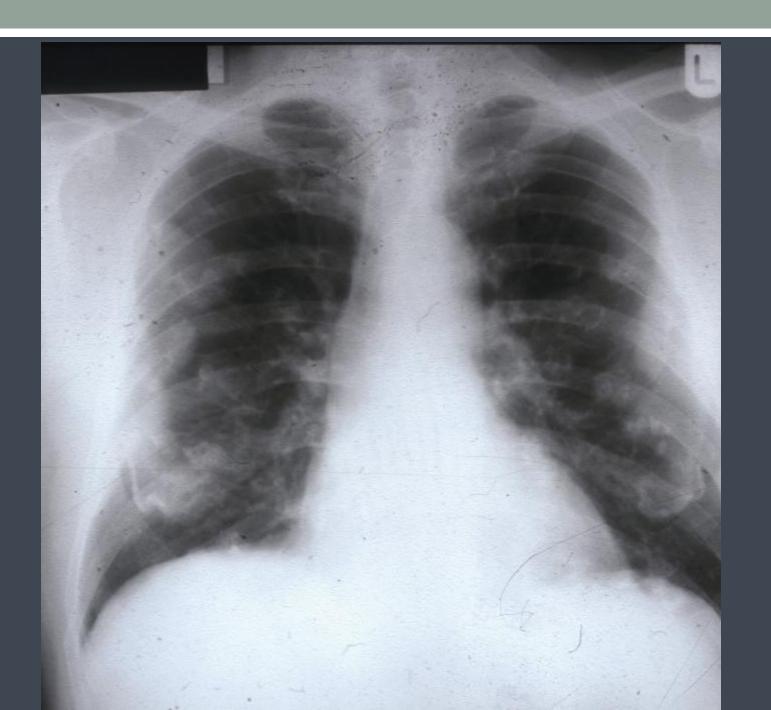


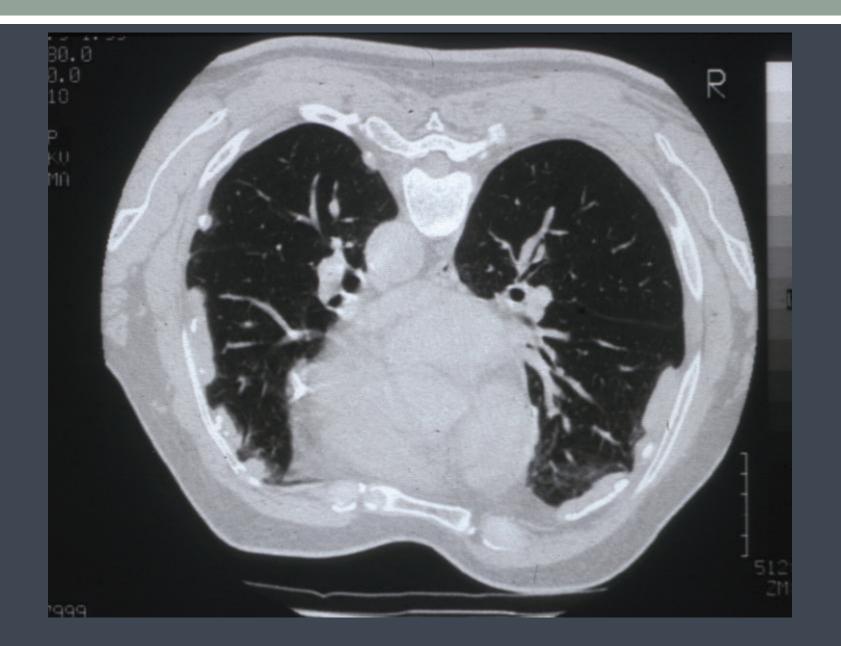
Asbestos related diseases pleural plaques



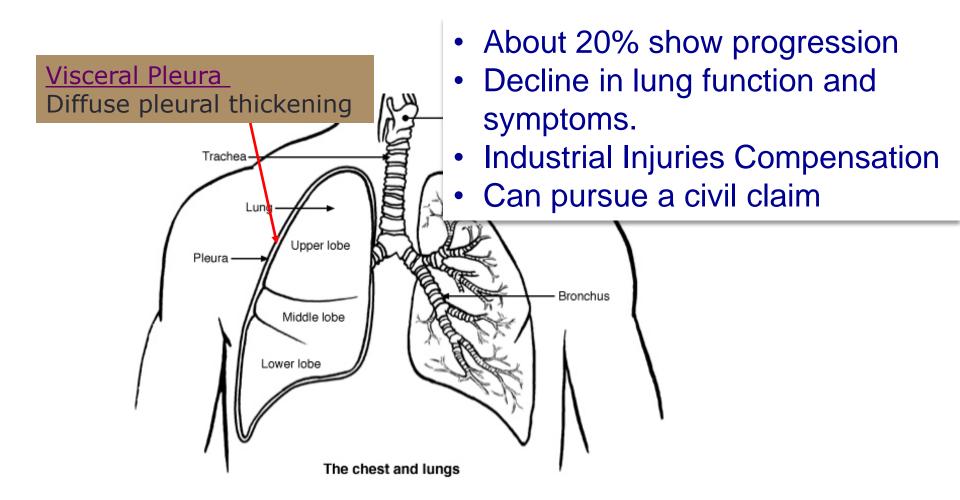
Common

- Not pre-malignant
- Usually no symptoms
- No Industrial Injuries Benefit
- No civil claim

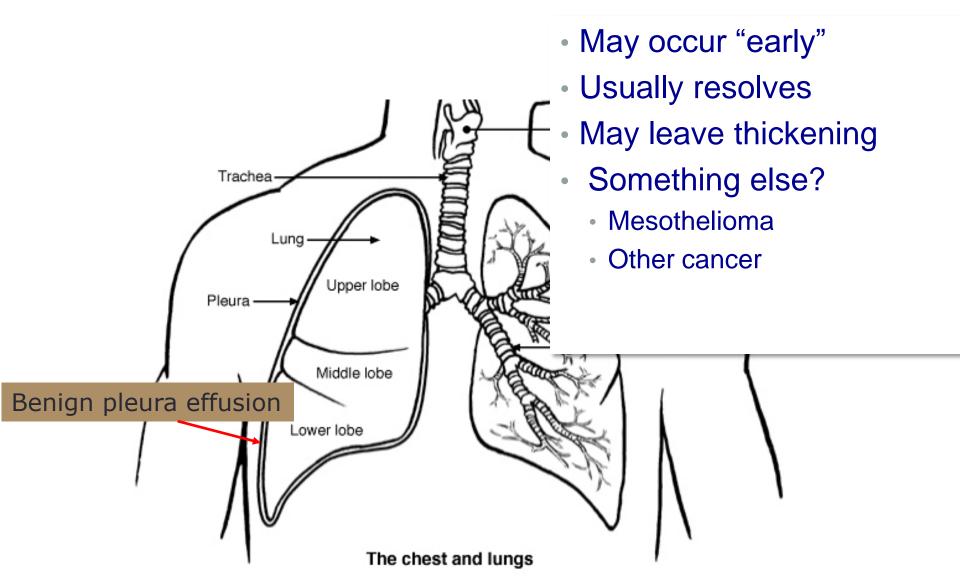


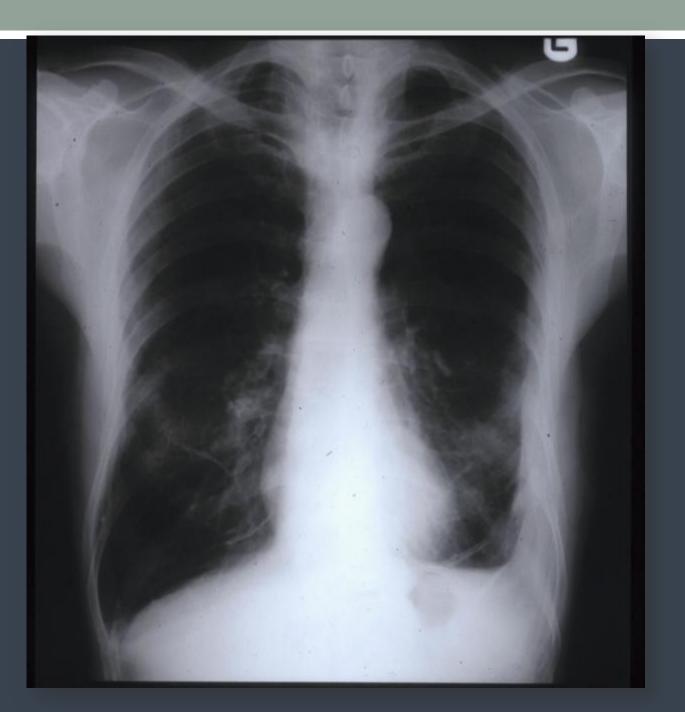


Asbestos related diseases Diffuse pleural thickening



Asbestos related diseases Benign pleura effusion

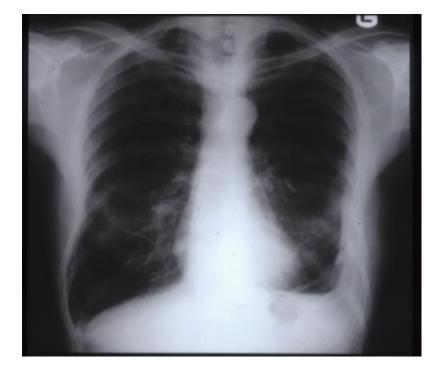




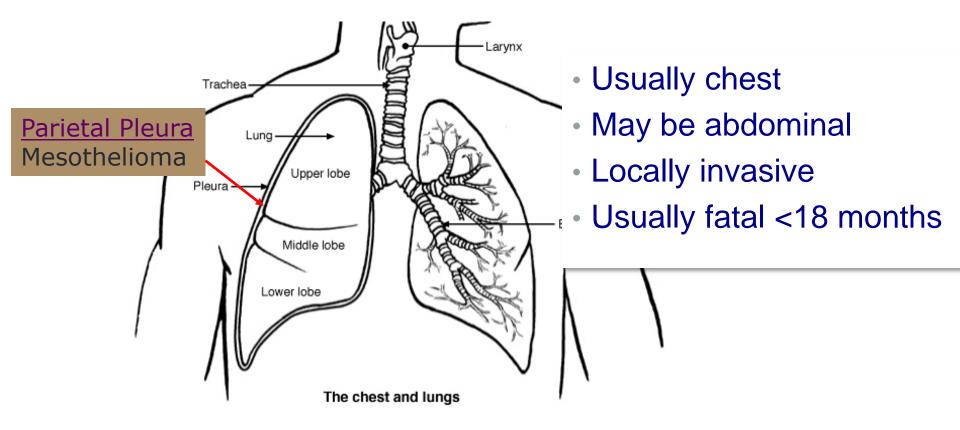


Disablement Benefit for diffuse pleural disease

Unilateral or bilateral diffuse pleural thickening with blunting of the costo-phrenic angle



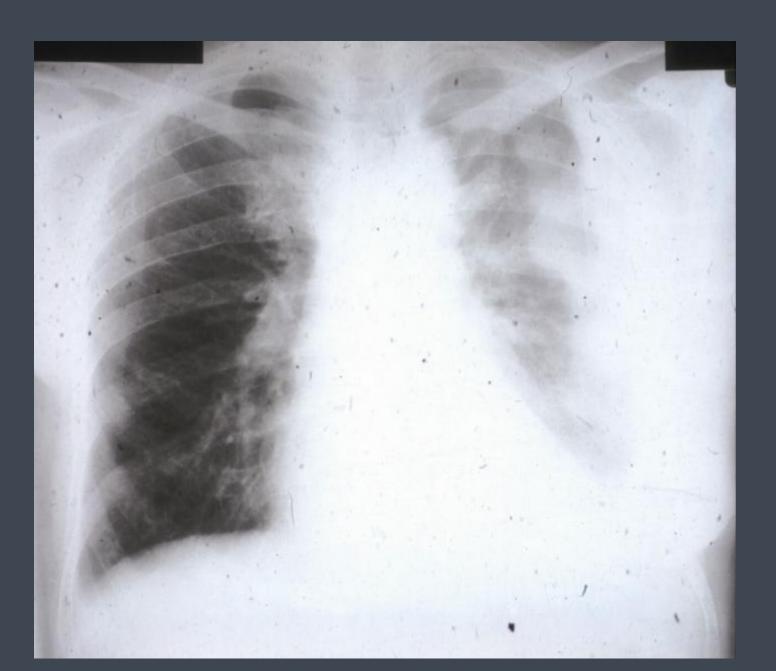
Asbestos related diseases Mesothelioma

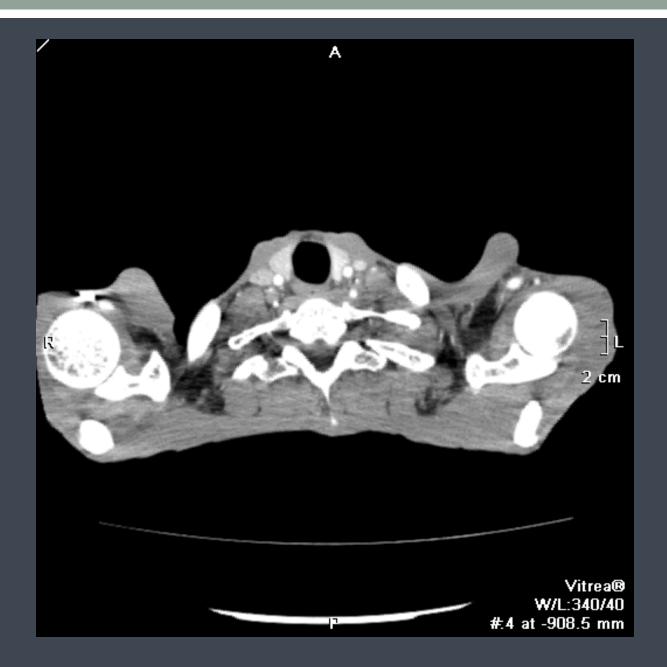


Mesothelioma

Symptoms

- Chest pain
- Weight loss
- Cough
- Breathlessness









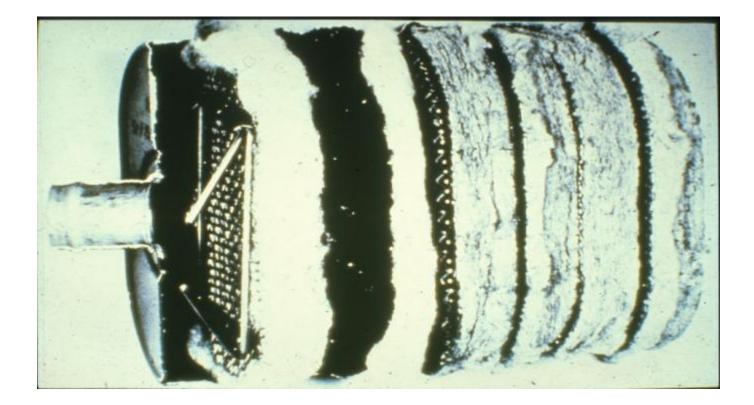
Mesothelioma

Treatment Pain relief

Compensation

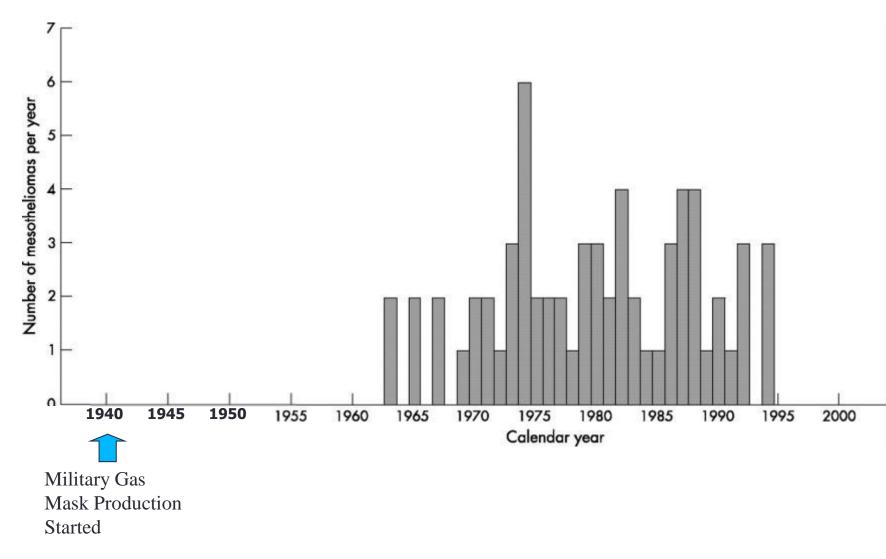
Industrial Injuries Scheme – Prescribed Disease Workmen's compensation War Disablement Benefit

Mesothelioma from gas masks



Boots of Nottingham

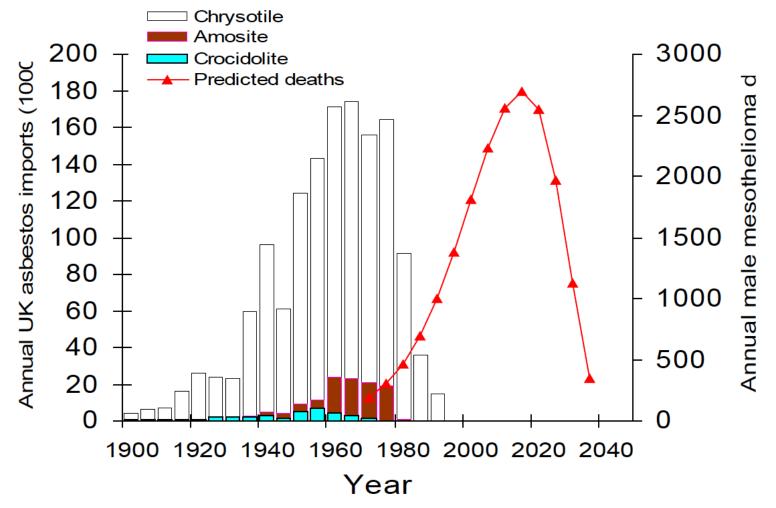
Number of mesotheliomas by calendar year in the full group of 1154 former workers.



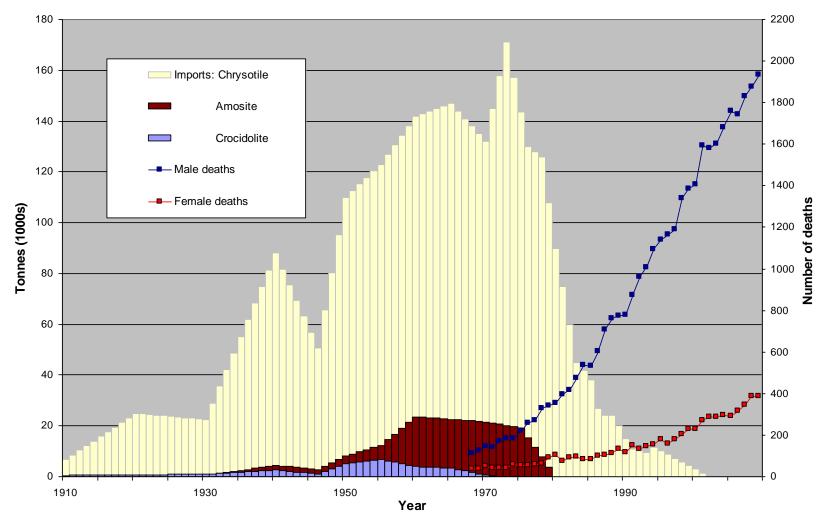


UK asbestos imports, and observed (1970-91) and predicted (1992-2040) mesothelioma deaths in men

Peto et al 1995: Lancet 345: 535-39



100 years of use and health consequences of asbestos use: asbestos imports and annual mesothelioma deaths in Great Britain





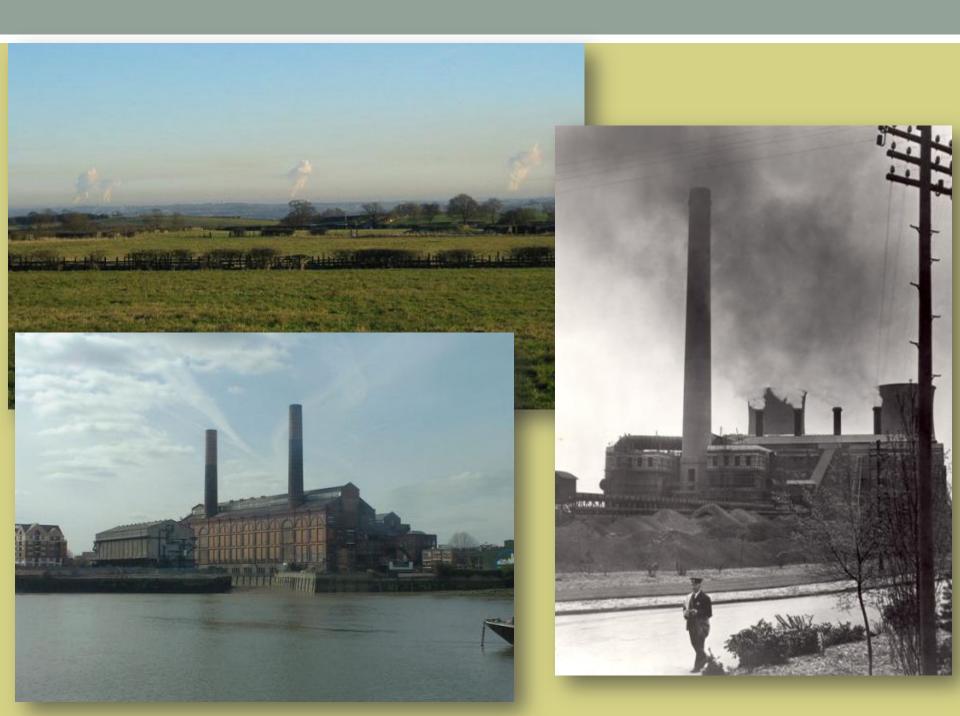
http://www.hse.gov.uk/statistics/causdis/mesothelioma/mesothelioma.pdf

Risk of Male Mesothelioma by Occupation 2002 -2010

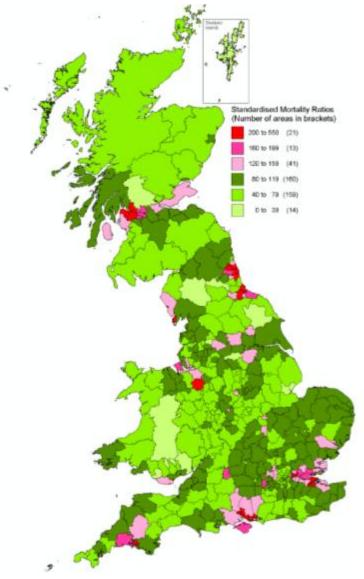
Occupation	PMR
Carpenters & joiners	407
Pipe fitters	360
Metal plate workers, shipwrights, riveter	338
Plumbers, heating & ventilating engineers	329
Electricians, electrical fitters	308
Labourers in other construction trades n.e.c.	297
Sheet metal workers	272
Energy plant operatives	263
Construction operatives	243

Source: HSE Mesothelioma Register

http://www.hse.gov.uk/statistics/causdis/mesothelioma/mesothelioma.pdf

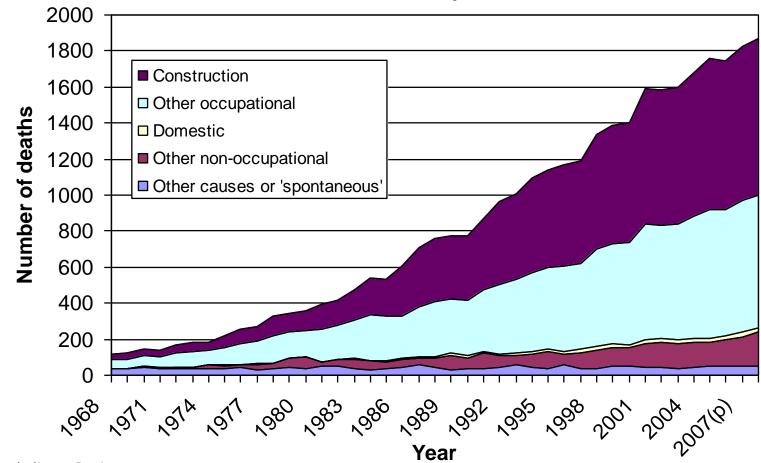


Male Standardised Mortality Ratios (SMRs) for Mesothelioma by Local and Unitary Authority 1981 – 2005



HSE Statistics

Sources of exposure: British mesothelioma casecontrol study

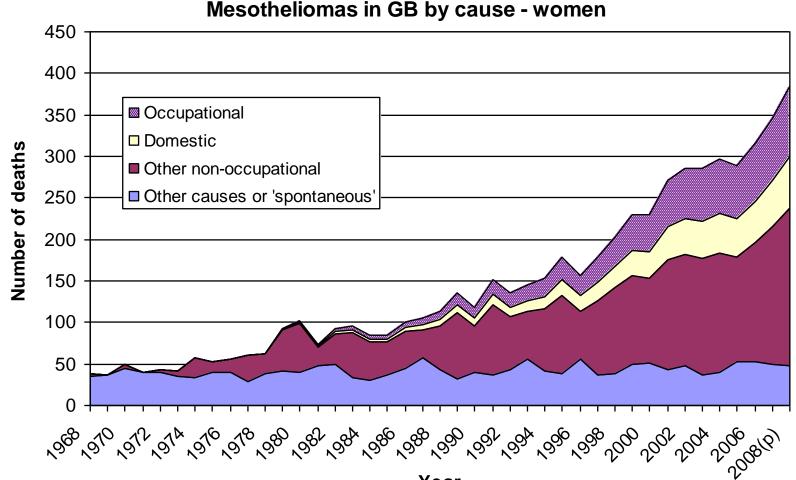


Mesotheliomas in GB by cause - men

Source: HSE Mesothelioma Register

http://www.hse.gov.uk/statistics/causdis/mesothelioma/mesothelioma.pdf

Sources of exposure



Source: HSE Mesothelioma Register

Year

http://www.hse.gov.uk/statistics/causdis/mesothelioma/mesothelioma.pdf

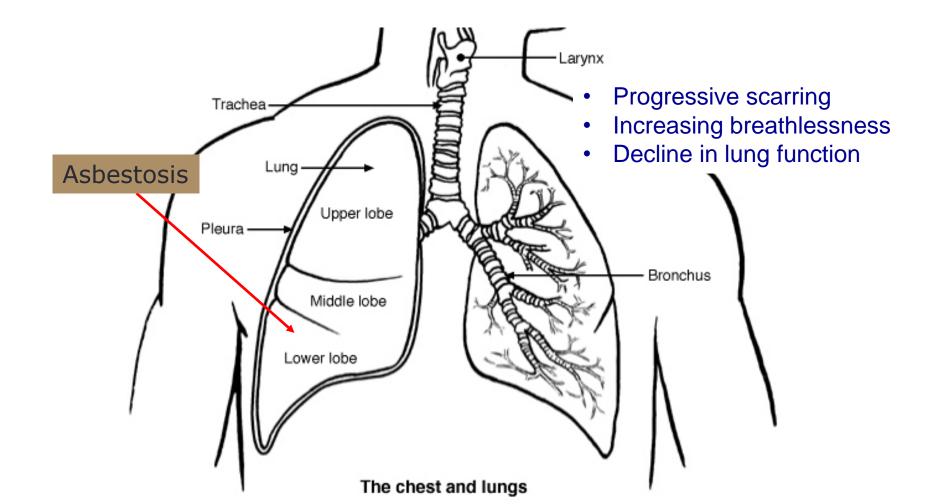
Industrial Injuries Scheme

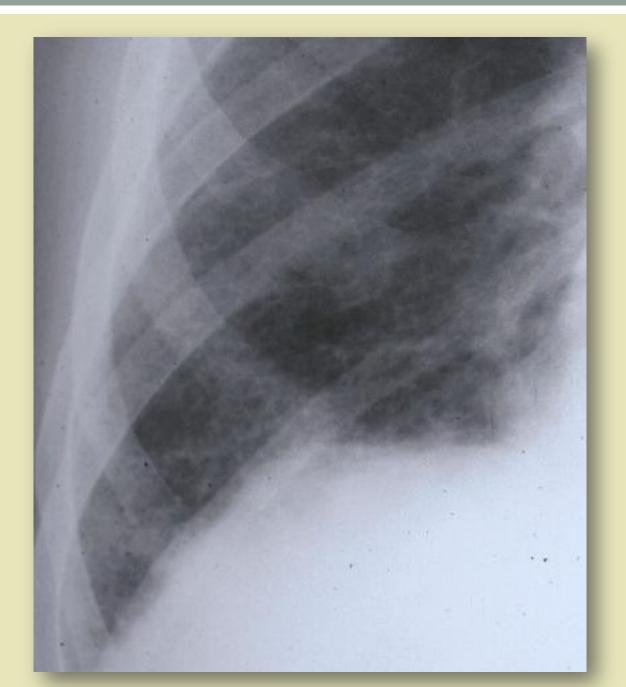
 The Diffuse Mesothelioma Lump Sum Payment Scheme

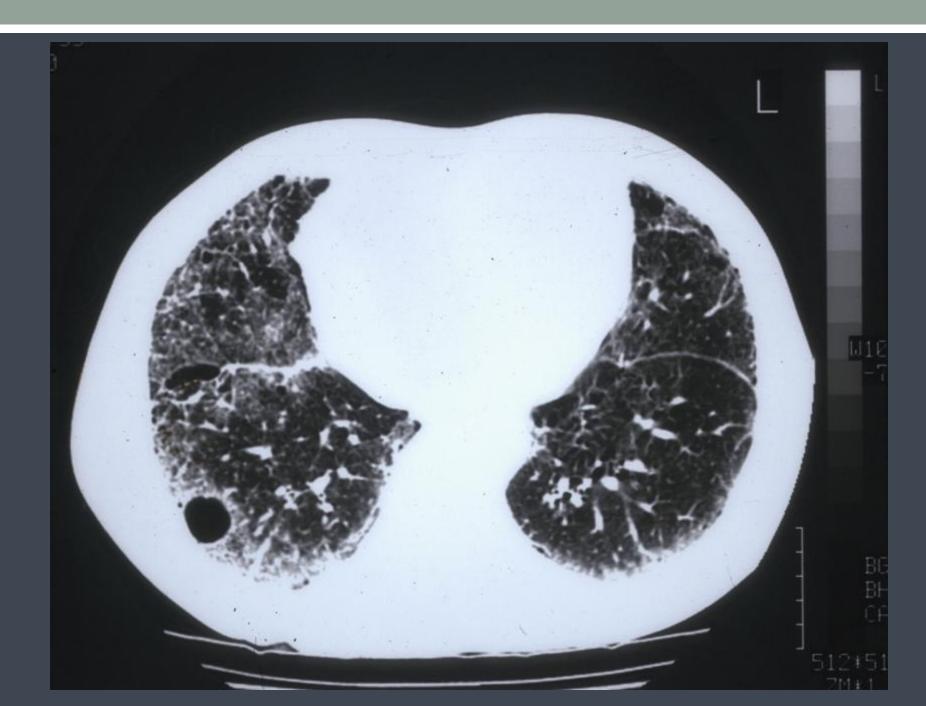
- The Mesothelioma Lump Sum Payment Scheme 2008
- 1st October 2008 sufferers of Diffuse Mesothelioma who have been exposed to asbestos in the UK but are unable to claim compensation from other sources, for example, women who had washed their husband's clothes, or the self-employed.

Liability Claim

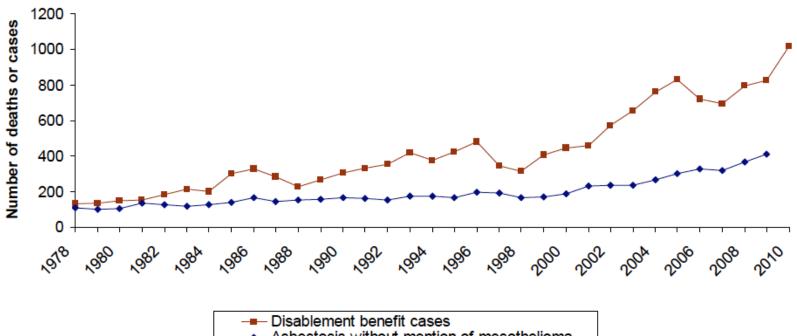
Asbestos related diseases





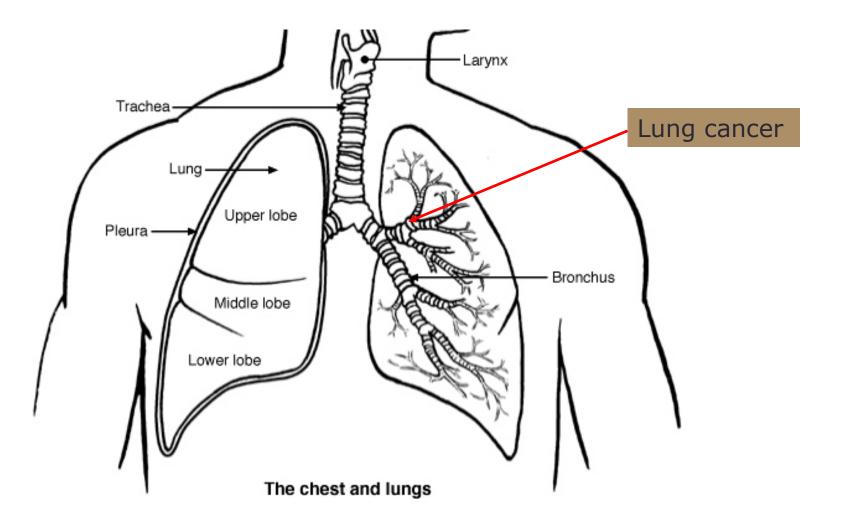


Asbestosis

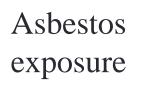


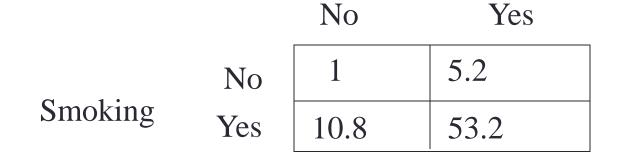
Asbestosis without mention of mesothelioma

Asbestos related diseases



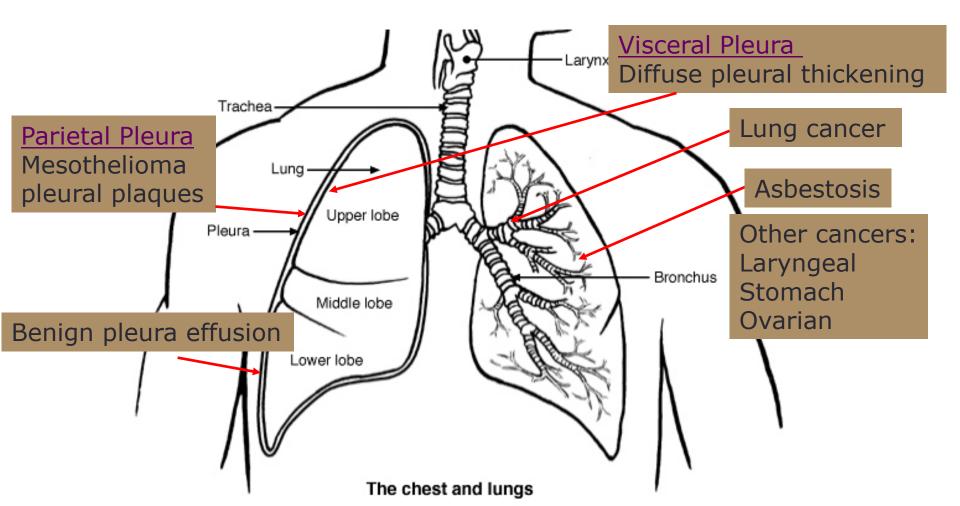
Smoking and asbestos exposure in insulation workers Relative risk of lung cancer







Asbestos related diseases



Industrial Injuries Benefit Prescribed Asbestos Related Diseases

- Lung cancer PDD8- there must be accompanying asbestosis.
- 6th April 2006. PDD8a- exposure to asbestos must be in the course of:
 - the manufacture of asbestos textiles
 - spraying asbestos
 - asbestos insulation or
 - applying or removing materials containing asbestos in the course of shipbuilding;

and:

- Where all or any part of the exposure occurs before 1st January 1975 for a period of, or periods which amount in aggregate to 5 years or more, or
- Post 1975 for a period of, or periods which amount in aggregate to, 10 years or more.

Industrial Injuries Benefit Prescribed Asbestos Related Diseases

- PDD9 Diffuse Pleural Thickening
- PDD1 Asbestosis
- PDD8 Lung Cancer with PDD1 (asbestosis)
- PDD8a Lung Cancer in the absence of asbestosis
- PDD3 Mesothelioma



Asbestos Support West Midlands 138 Digbeth, Birmingham, B5 6DR Telephone Helpline: 0121 678 8853 To email us click HERE

Part of the West Midlands Hazards Trust, Registered Charity Number 1125322



Marking Action Mesothelioma Day in the grounds of St Philip's Cathedral Birmingham