

Mesothelioma Diagnosis & Treatments in 2017

Lesley Bishop

Clinical Lead for Lung Cancer and Pleural Disease

Brit. J. industr. Med., 1960, 17, 260.

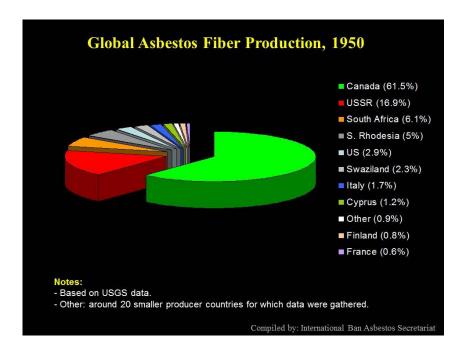
DIFFUSE PLEURAL MESOTHELIOMA AND ASBESTOS EXPOSURE IN THE NORTH WESTERN CAPE PROVINCE

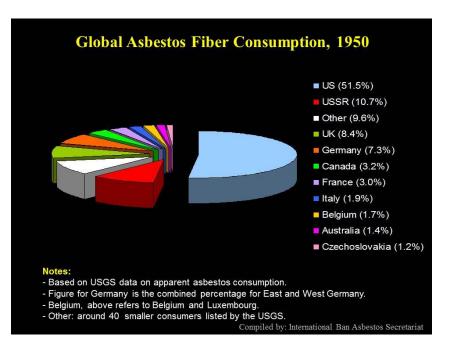
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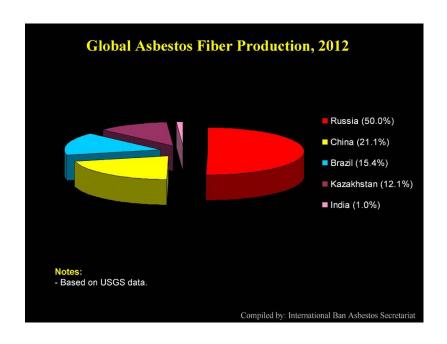
J. C. WAGNER, C. A. SLEGGS, and PAUL MARCHAND

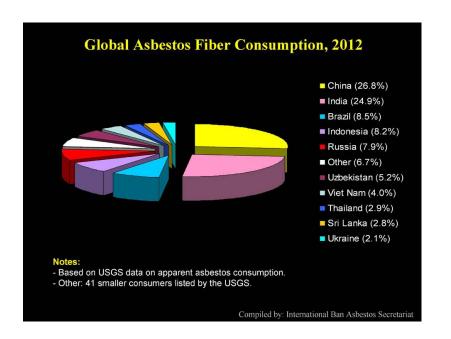
From the Pathology Division, Pneumoconiosis Research Unit of the Council for Scientific and Industrial Research, Johannesburg, West End Hospital, Kimberley, and the Department of Thoracic Surgery, University of the Witwatersrand and Johannesburg General Hospital

(RECEIVED FOR PUBLICATION APRIL 24, 1960)



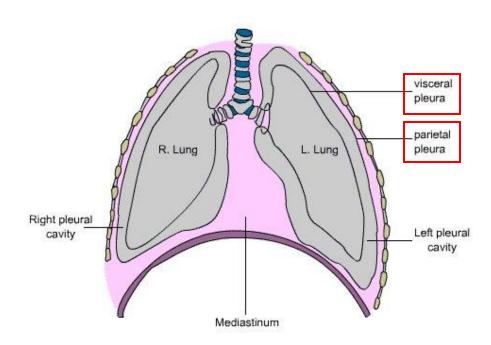








Mesothelioma





Mesothelioma

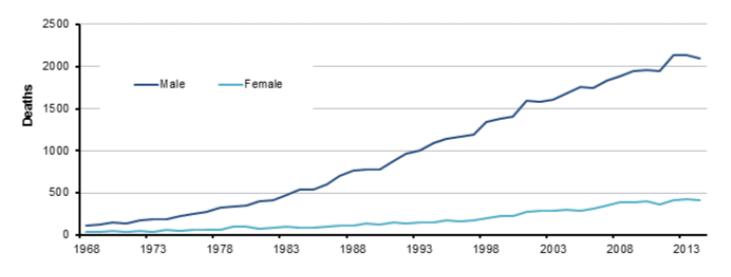
- 17th most common cancer in UK (<1% of all cancers)
 - Accounts for 2% of death of all cancers
- Lifetime risk of developing mesothelioma is 1 in 150 for men and 1 in 773 for women
- Asbestos exposure causes mesothelioma in 97% of men and 83% of women
- Up to 10% of asbestos workers will develop mesothelioma



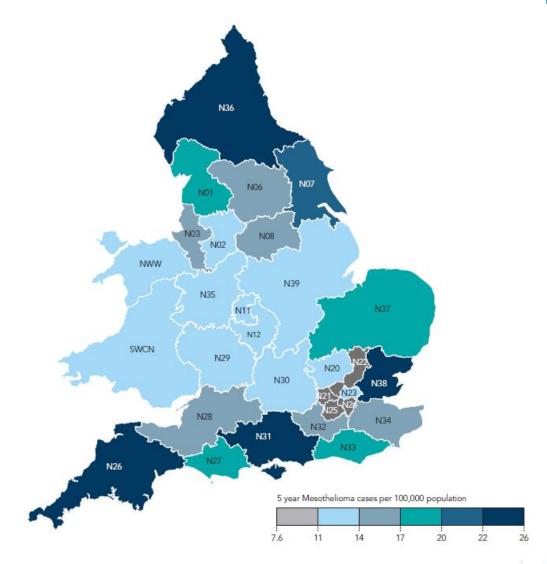




Incidence



- Total number of deaths 2007 was 2156 (84% male)
- Total number of deaths 2011 was 2291 ((84% male)
- The number is expected to rise, peaking before the end of 2020
- Occupations associated with the construction industry (carpenters, electricians, plumbers) are recorded more frequently on the death certificates of patients dying now

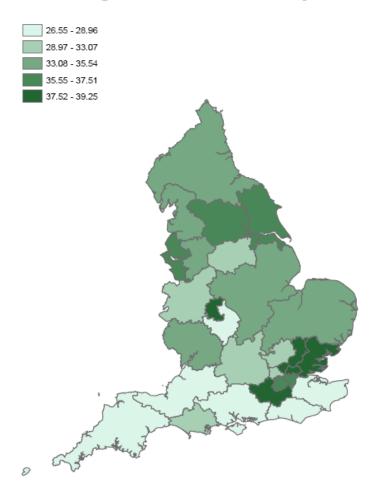


National Lung Cancer Audit Report 2014 Mesothelioma

Report for the period 2008–2012



One-year relative survival of mesothelioma male and female patients in England, 2002-2006, by cancer network



- 40% 1 year survival
- 8% 3 year survival



Presentation

- Chest Pain
 - Dull, diffuse, pleuritic
- Dyspnea
 - Pleural Effusion
- Chest wall mass, weight loss, abdominal pain less common





What to do?

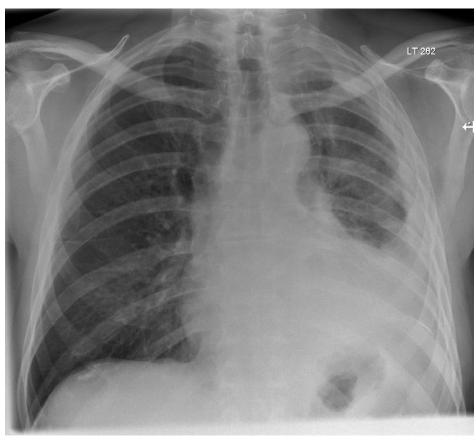
- Take a history
- Ask about asbestos
- Refer to Respiratory Physician
- CT chest and abdomen (Staging Chest, Pleural CT)
- Diagnostic and Therapeutic Intervention
 - Medical or Surgical Thoracoscopy
 - US or CT Biopsy
- Tissue is the Issue



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Mesothelioma







Mesothelioma

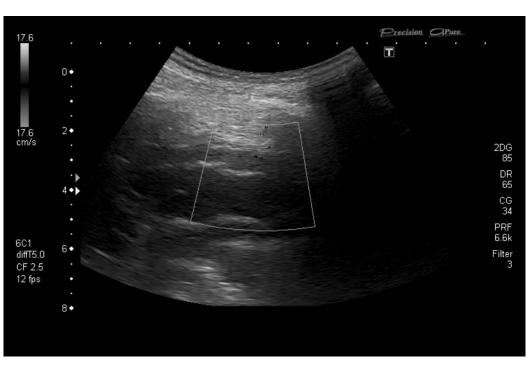


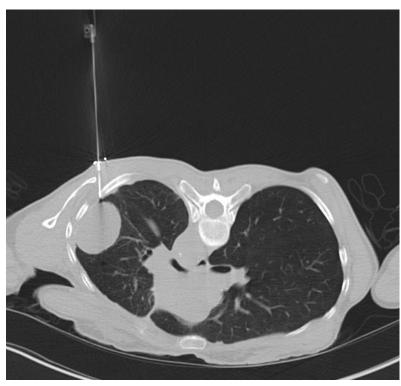






US or CT biopsy



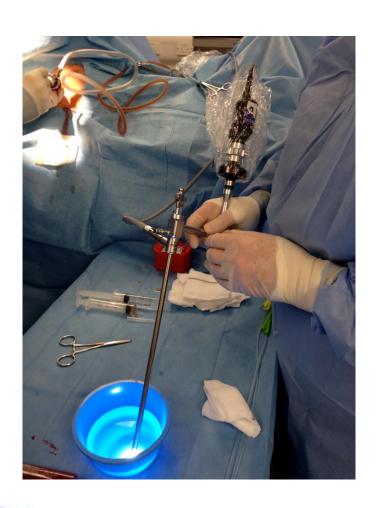


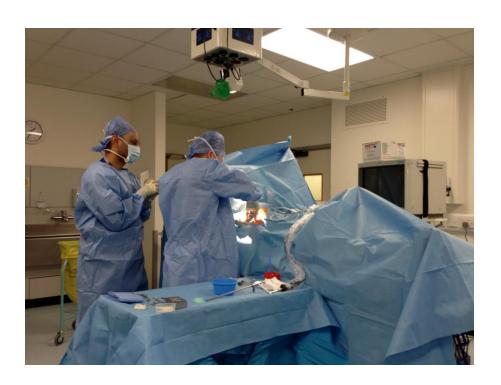
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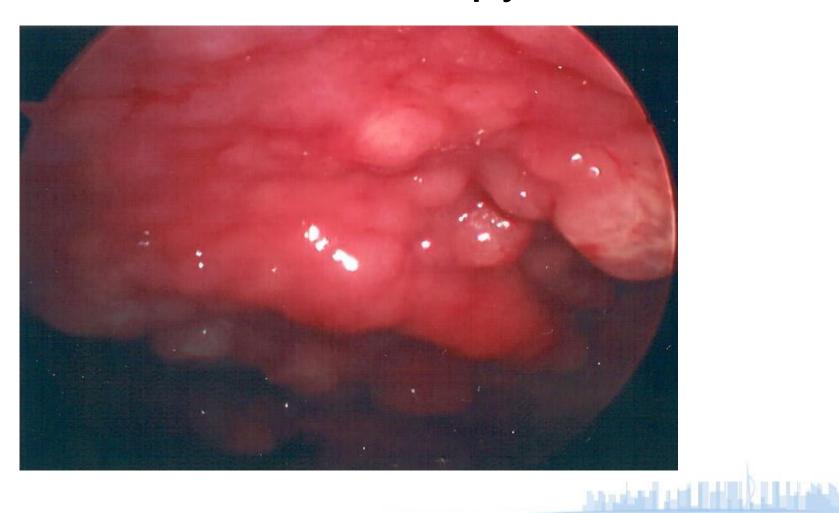
Medical Thoracoscopy







Thoracoscopy





VATS

Video Assisted Thoracoscopic Surgery

- Done under GA at Southampton General
- Patients who are deemed unfit for LA medical thoracoscopy
 - Small effusions
 - Dementia
 - Movement Disorders





Treatment What Do We Know?

 One approved treatment for mesothelioma in 14 years





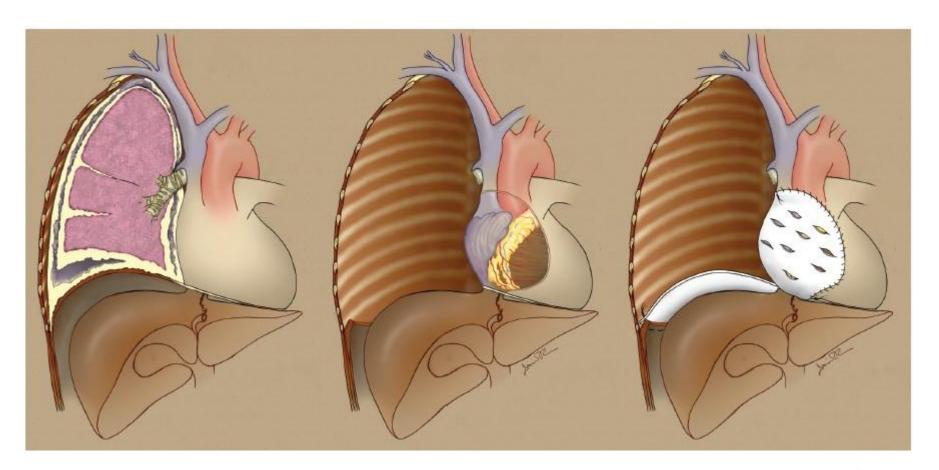
Surgery

- The role for surgery in MPM is controversial
- Whether MCR results in improved survival in some patients is uncertain and not proven in RCT
- Although not the standard of care, there are some patients who appear to benefit from a surgical based approach





EPP



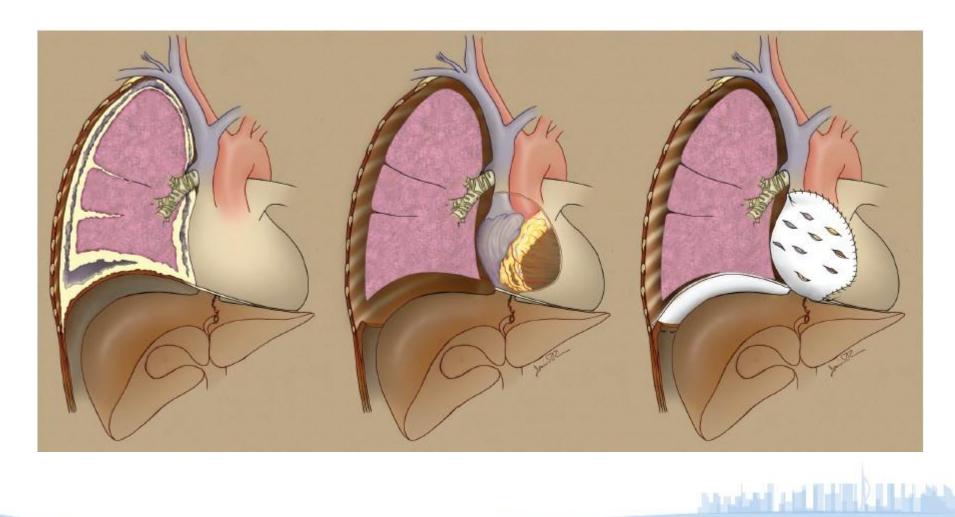


EPP

- Contemporary studies have shown median survival of 18 months with decreasing morbidity and mortality
- MARS
 - Feasibility study
 - Can radical surgery "cure" mesothelioma or add usefully to length and quality of life
 - Would patients enroll in such a trial??
 - No benefit in surgery
 - Trend towards worsened outcomes for patients who received surgery



EPD





The next phase

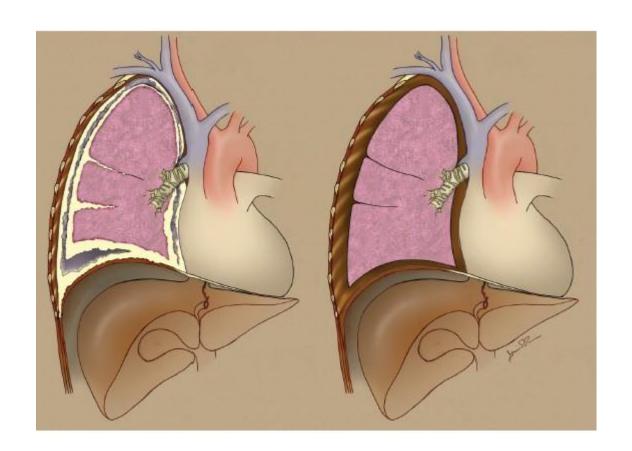
MARS2

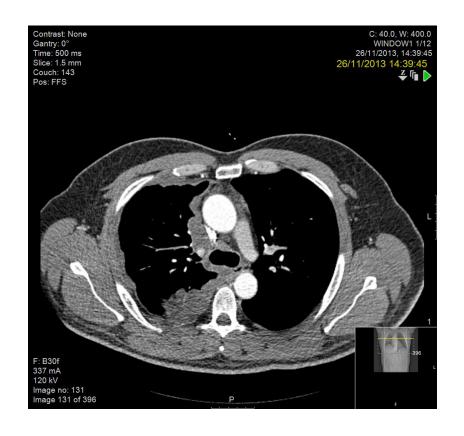
- 3 UK centres
- 50/50 randomized trial of neo-adjuvant pemetrexed/cisplatin +/- EPD





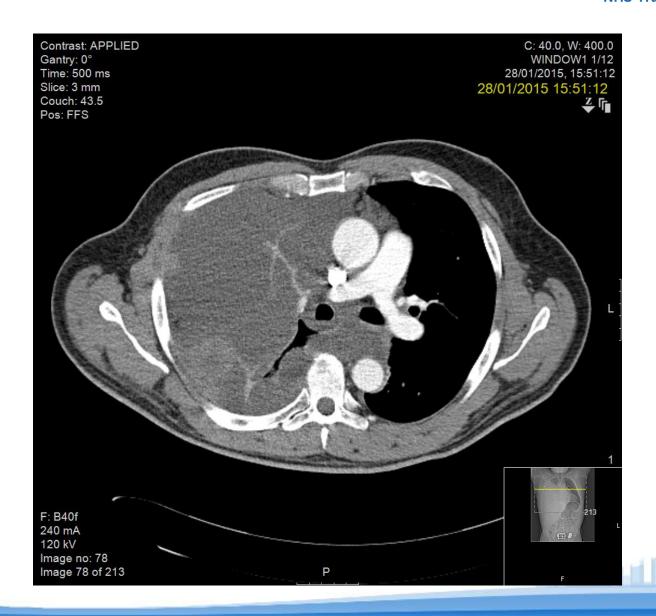
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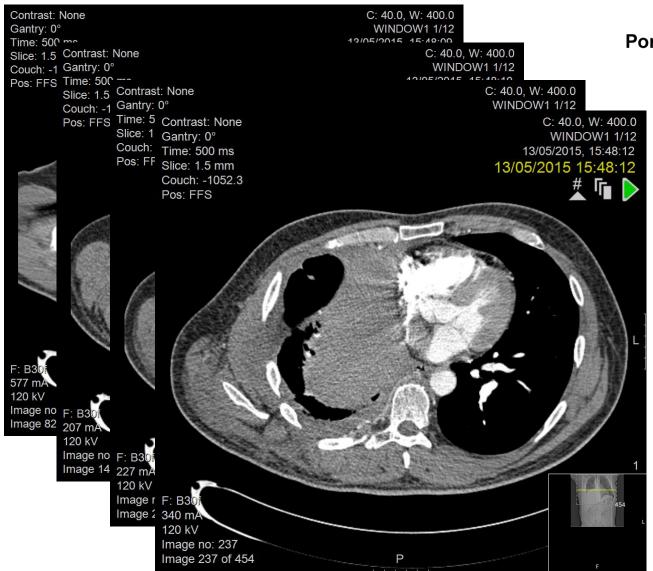
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- Referred to Leicester for VATS
- ePD 3/3/2015







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Palliative Chemotherapy

- There has been only one NICE approved treatment for mesothelioma in the last 12 years
 - Pemetrexed + Platinum chemotherapy
 - NICE technology appraisals [TA135] Published date:
 January 2008
- No therapy for relapsed patients (second line)
- No maintenance therapy



Effusion Options

- Repeated Therapeutic Aspirations
 - Not recommended if life expectancy >1 month
 BTS Pleural Disease Guideline 2010
- Chest Drain and Pleurodesis (talc)
 - Median hospital stay of 7 days
 - 30% failure rate at 1 month

Dresler et al. Chest 2005

Indwelling Pleural Catheter (IPC) - Pleurx

Indwelling Pleural Catheters

- FDA approval 1997
- A chest drain tunnelled under the skin
- Day case procedure
- Outpatient management
- Gives patient control over symptoms
- Spontaneous pleurodesis in 46% at 1-2 months

Van Meter. JGIM 2010





Conclusion

- Patients with a history of asbestos exposure and Pain or SOB – get a CxR
- If CxR normal and symptoms persist, get another CxR
- If you are worried, refer under 2WW rule with clinical concerns stated



ANALYSIS OF THE PARTY OF THE PA



Kent used Asbestos in its Micronite filter from 1952-1955



Asbestos Related Lung Disease



The bigger the building, the more important fire-proofing becomes

That's why today's buildings have asbestos-cement walls and even floors containing asbestos.

Asbestos contains fire, cannot burn and holds up after metal and glass have melted down, giving vital time for people to escape. You'll also find asbestos sealing plumbing joints, insulating

heating pipes, electric motors and emergency generators.

Asbestos: We couldn't live the way



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