







Spectrum of Asbestos Diseases

- Non-malignant: Warts, BAPE, Parenchymal and Pleural Asbestosis
- Malignant: Lung cancer, Mesothelioma (Pleural, Peritoneal, Pericardial, others), GI tract (Esophagus, Stomach, Colon, etc.) Larynx, Oro-pharynx, Kidney



Symptoms-often non-specific

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SOB, pain in the chest, cough, abdominal pain, etc

Need to Educate Workers Merewether and Price 1930



Type of asbestos Carcine	oma	Mesothelioma
Amosite (146*)	11	1
Anthophyllite (145)	16	2
Crocidolite (141)	16	4
Canadian Chrysotile (137)	17	4
Rhodesian Chrysotile (144)	30	0
Controls (126)	0	0
*rats surviving at least 300 da [Wagner, J. C. et al, Brit, J. Ca	and the second s	1974]

Malignant Neoplasms in rats following inhalation of asbestos				
		Carcinoma	Mesothelioma	
Exposure	Rats			
1 day	219	2	2	
3 mos.	180	8	1	
6 mos.	90	7	0	
12 mos.	129	35	6	
24 mos.	95	37	2	
Controls	126	0	0	
[Wagner, J.	C., et al I	Brit, J. Cancer 2	29:252, 1974.]	





nificant Risk Occupations
Asbestos mining and milling
Asbestos product manufacture
Manufacture of products containing asbestos
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Insulation installers
Construction industry
Shipbuilding
Ship repair
Ship personnel-engineering
Maintenance - public buildings
Maintenance - refineries, chemical plants
Power production - utilities
Railroads































Legacies of the Past

- Health projected disease and death
- Industrial wide, continued use
- Engineering controls not developed
- Regulatory "feasibility"
- Legal uncharted complexities
- Physical 25,000,000T in place

