

Asbestos

- ① What is it - uses, why used, good properties
- ② Types
 - properties, uses, common, other names
 - picture of them

Latency

- define it
- ≈ 20 yrs.

Pleural Plaques

DDx.

- Diameter most 1.5 cm.

Asbestosis

Lung Ca

Mesothelioma

OSHA Std.

Glanskop Monitor Devices

DUP 0934434

DU 036788

Asbestos related health effects.

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Definition: Fibrous hydrated silicate
 serpentine (class) Amphiboles
 chrysotile (95%) amosite, crocidolite, anthophyllite
 mined in Canada, S. Africa, China & Russia

1st. over 3000 commercial uses, thermal & corrosion resistant
 asbestos-cement pipe, sheeting, flooring & roofing, insulation ^{thermal} electrical, friction, nodules
 coatings & compounds etc. W W it in ship construction & maintenance, etc
 No longer used in Du Pont since 1972

Health effects: From inhalation of asbestos fibres. lungs & pleura
 primarily involved: pleural scarring, fibrosis, cancer (mesothelioma)
Disposition in lungs: macrophage ingestion, longer fibres > 5µm settle
 however, some involved in macrophage ingestion, penetrate the lung & lodge in
 bilateral lymphatic clearance pleura → thickening, pleura

Dose + time → effect, Du Pont 100% rain rating.
 large (retard)
 shorter fibres 20-40µm

Smoking: extremely hazardous O death rate calculator action
 increases cancer incidence 90X

Asbestosis: ^{late} chronic disease, interstitial fibrosis ^{attaching} to pleural
 thickening, ferruginous nodules. cough, dyspnea, reduced FVC.
 Clubbing of fingers, X-ray changes

Pleural plaques: thickening & calcification - hyaline cartilage
 pleura, diaphragm, pericardium, mediastinum

mesothelioma pleural, peritoneum (ovoid) [Fibrotic in Turkey]

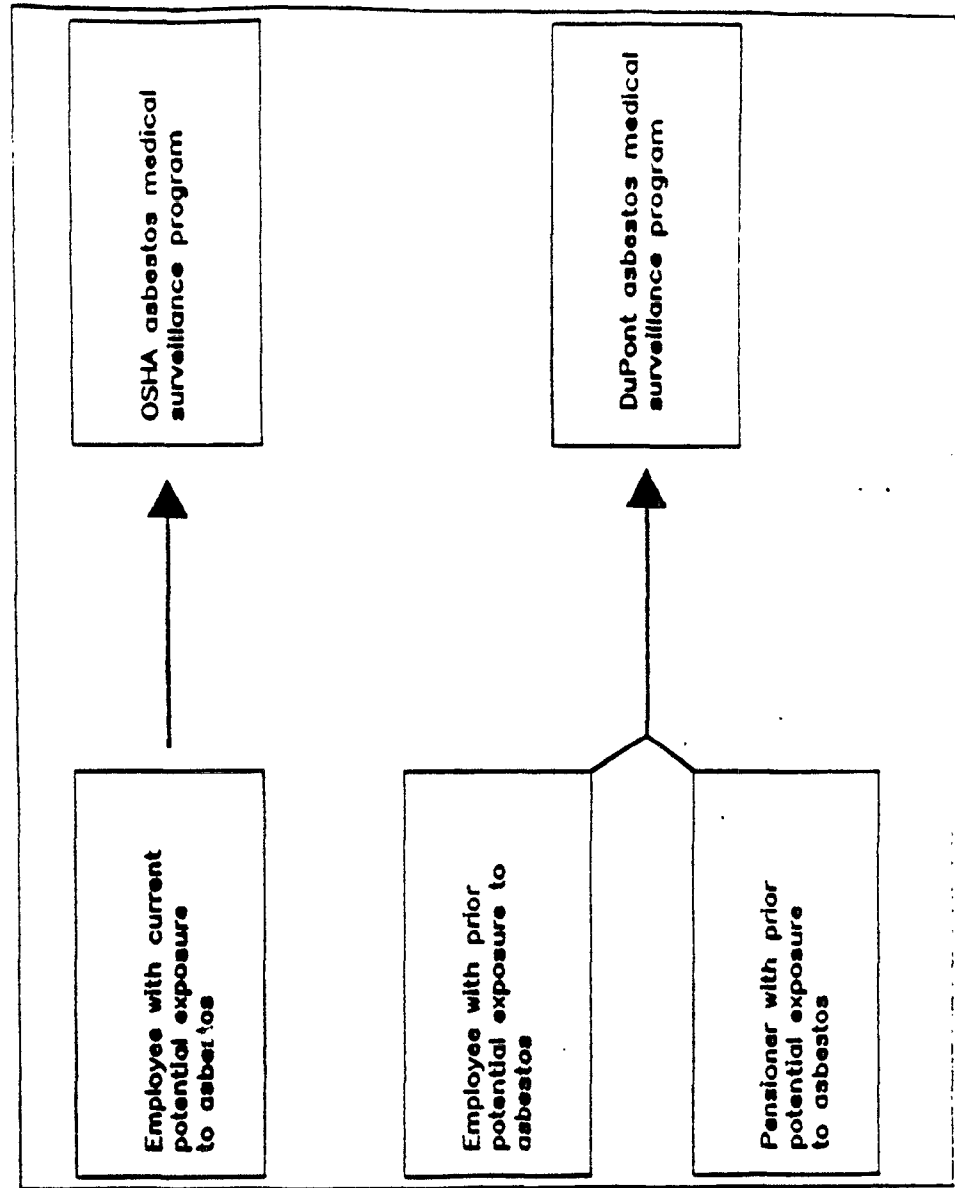
Cancer - lung - lower lobes - associated with smoking.

There is NO Treatment!

Du Pont Program: ^{no selection} Ind Hygiene (S & P) maintain ~~asbestos level~~ < 2 fibres/cc
 Toxicology - fiber count, animal studies, information
Team effort epidemiology - study of experienced medical

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Attachment F



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