

An Asbestos Overview

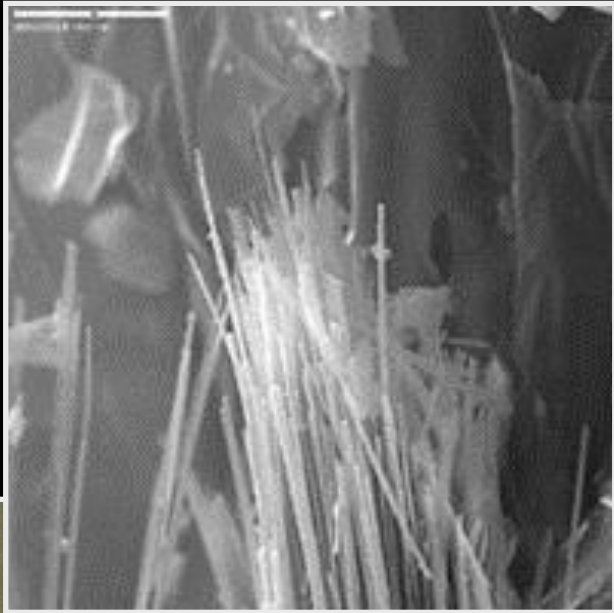
*NH HEALTH OFFICERS ASSOCIATION
2016 SPRING WORKSHOP*



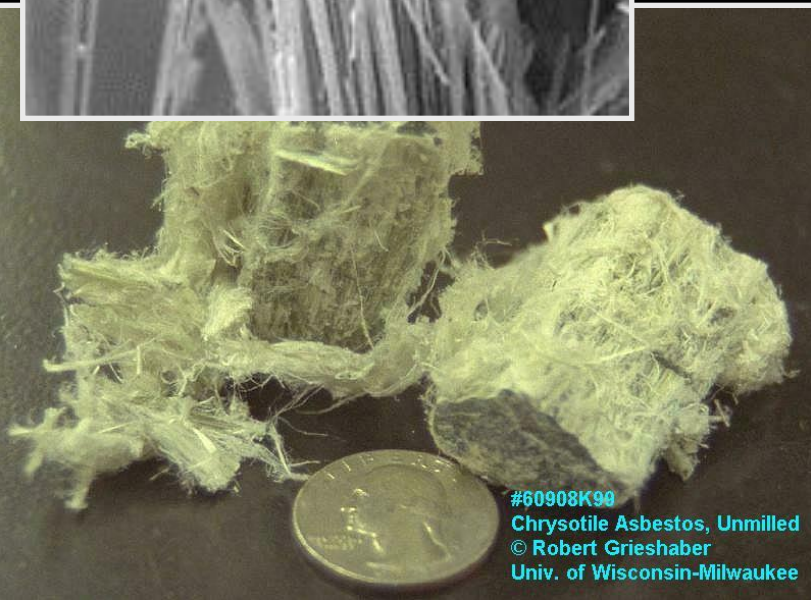
May 18, 2016



What Is Asbestos?



- Naturally Occurring Mineral
- Made of:
 - ✓ Silicon
 - ✓ Oxygen
 - ✓ Hydrogen
- Most Common Types
 - ✓ Chrysotile (Fibers)
 - ✓ Amosite (Needles)
 - ✓ Crocidolite (Needles)

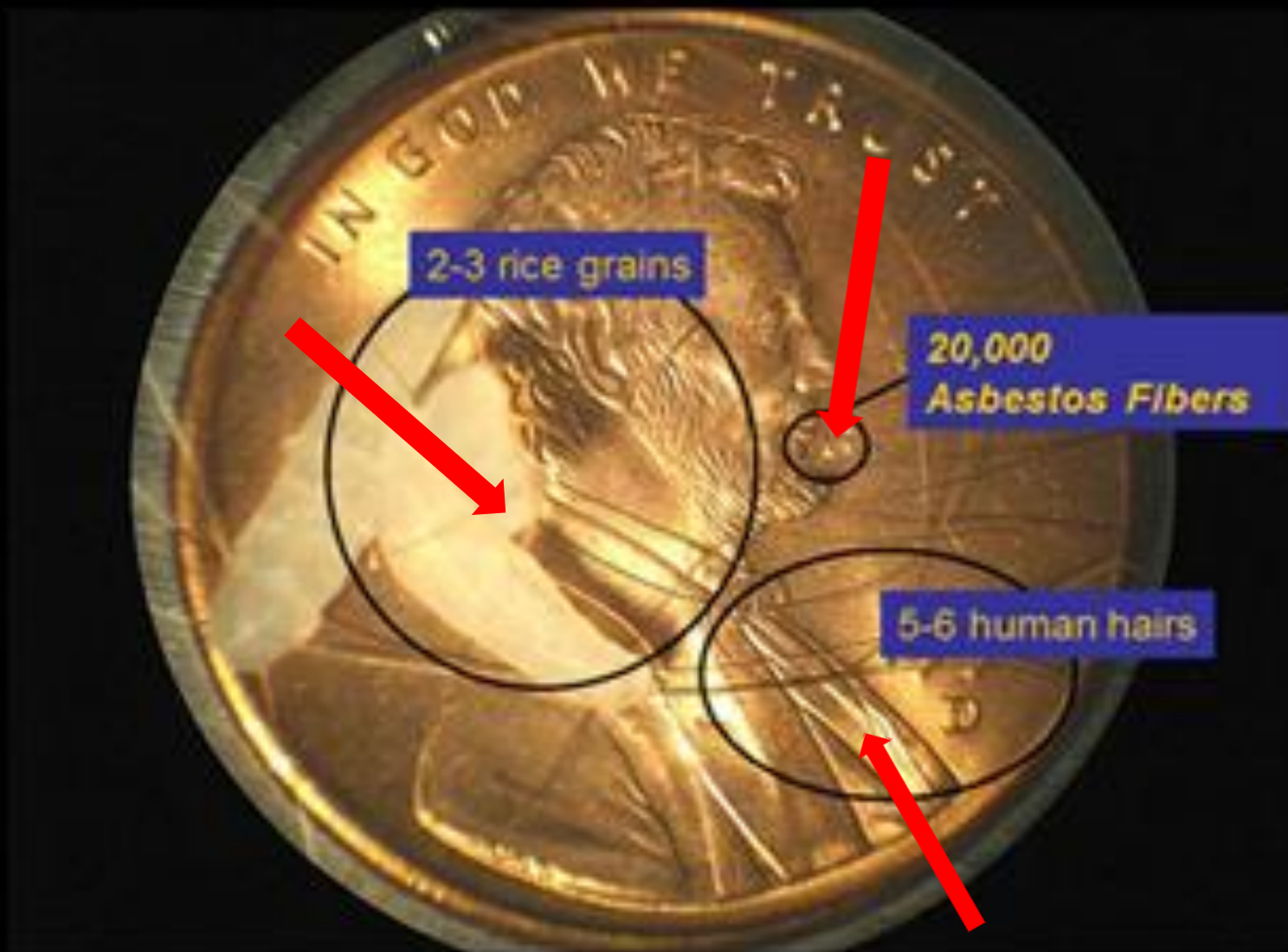


#60908K90
Chrysotile Asbestos, Unmilled
© Robert Grieshaber
Univ. of Wisconsin-Milwaukee

Properties

- ✓ *High Tensile Strength*
- ✓ *Nonconductive*
- ✓ *Non-combustible*
- ✓ *Resistant to Corrosion*
- ✓ *Strong and Flexible*
- ✓ *Light weight*
- ✓ *Microscopic Fibers*
- ✓ *Non-Biodegradable*

How small is asbestos?



What are the Routes of Exposure?

- ✓ Inhalation

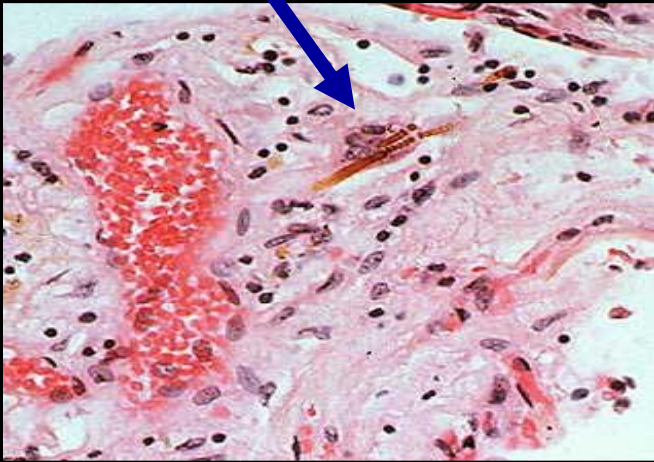
- ✓ Ingestion

First & Second Hand Exposure

- ✓ You (inhalation, clothing, shoes)
- ✓ Your Co-Workers
- ✓ Family and Friends

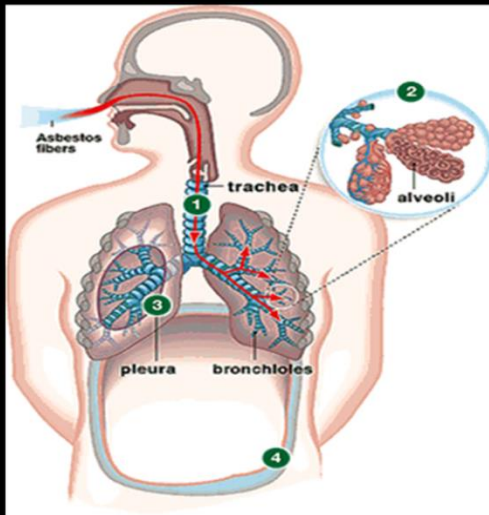


Types of Diseases



*Asbestos Fibers/Bodies
Lodged in Lungs*

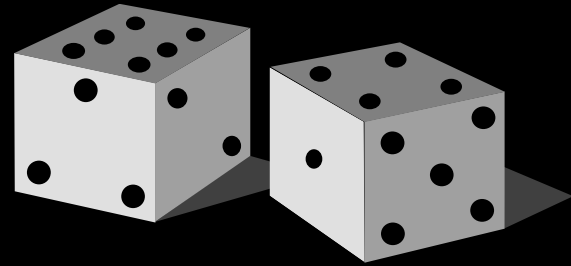
- ☞ Lung cancer
- ☞ Mesothelioma
- ☞ Asbestosis



10 to 40 years
before symptoms appear

Risk Factors for Disease

- ✓ *Dose*
- ✓ *Duration of exposure*
- ✓ *Frequency of exposure*
- ✓ *Occupation*
- ✓ *Smoking status*



Common ACMs

- ✓ *Vinyl Flooring - tile/sheeting, backing & mastics*
- ✓ *Boiler & Pipe Insulation and Cements*
- ✓ *Transite (Siding, Roofing, Pipe, etc.)*
- ✓ *Asphalt Roofing Materials*
- ✓ *High Temperature Gaskets*
- ✓ *Caulking and Putty*
- ✓ *Dry Wall, Plaster & Joint Compound*
- ✓ *Friction Devices*
- ✓ *Vermiculite*

Roofing



Shingles



Cements



Flashing/Caulking

Boiler, Pipes, & Insulation



Laws & Regulations

NH RSA 141-E, *Asbestos Management and Control Act*

NH Env-A 1800, *Asbestos Management and Control*

EPA 40 CFR 763 Subpart E, *Asbestos-Containing
Materials in Schools*

Demolition/Renovation Projects

DES receives 1200 demolition/renovation notifications per year.



Inspection and Notification

- ✓ Inspection required for any renovation/demolition.
(By a Qualified Asbestos Inspector)
- ✓ Notify DES & City/Town 10-dys in advance of any:
 - Major Asbestos Abatement work, or
 - Demolition Project
- ✓ Abatement requires NH Certification/Licensing

Homeowners can do their own abatement work...

Notes:

- Only applies to single-family owner occupied residence. Must not be sold for six months after asbestos abatement.
- Must still follow the work practices, properly package, and properly dispose of the ACM per Env-A 1800, as would a Certified or Licensed contractor.



Asbestos In Schools

Subject to AHERA Regulations.

School must:

- ✓ Designate an Asbestos Manager
- ✓ Maintain a Current Management Plan
- ✓ Conduct Periodic Inspections
- ✓ Manage Asbestos (removal or in place)
- ✓ Subject to Periodic Inspection by DES



Disposal of Asbestos Waste

At a landfill permitted to accept ACM

- NH Landfills permitted to accept ACM:
 - Waste Management, Rochester
 - Mt. Carberry, Success Township
 - Four Hills, Nashua (from Nashua only)



Any Questions?

