

Asthma

->nonspecific hyperresponsiveness, bronchodilator, SICT, across-workshift-spirometry, PEF, skin+ELISA
->Diisocyanates, Vegetable dust (byssinosis-Monday syndrome), Platinosis (metal-salts), acid anhydrides, Wood dust (plicatic acid), wheat, dust, vapor, chemicals, etc.

Silicosis

->miners (gold), sandblasters, foundry, tunnel drillers, ceramic workers, silica flour production
Chronic+accelerated->nodules upper+middle lobe, eggshell-calcifications->PMF
acute ->esp. sandblasting, no nodules; alveolar (lipo)proteinosis
=>complication: Carcinoma, cor pulmonale, TBC, fungal, chronic bronchitis

Asbestosis

->most common: chrysotile = white asbestosis
->insulation, roofing, heat-resistant clothing, brake lining, cement, mining
-> asbestosis > 2 microm; mesoth > 5, cancer > 10
->pleura!
-> bibasilar posterolat. Crackles
->diffusion capacity carbon monoxide
->xray: lower zones, bilat. Pleural thickening, less defined heart border + hemidiaphragm
->smoking relation!

Lead poisoning

->battery manufacturing, metal, ceramic, water, paint (toys), gas, ammunition, mining
->heme synt -> Protoporphyrin + ALA
->free -> brain, kidney, liver, skin, muscles
->acute: lead colic, tarry stool, GI, CNS, RF
->chronic: nonspecific CNS, wrist/foot drop, arthralgias+myalgias, gum lead line, anemia, nephropathy
->hypochromic anemia, basophilic stippling, incr. protoporphyrin + ALA, reticulocytosis
->clear eating areas, shower+clear work clothes, respiratory protection, gloves+coveralls, check lead levels!
->Succimer + CaNa₂EDTA

Mercury poisoning

->TIGER! seafood, thermometers, taxidermy, felt industry, amalgam
->acute: pulmonary sym + chemical pneumonitis, RF, neurologic symptoms
->chronic: psychiatric, tremor (hand+head), paresthesias; oral cavity inflammation, blue teeth+gum, sweating+skin eruptions
->blood mercury, proteinuria, xray->chem. Pneumonitis
->control, ventilation+resp protection, handling, surveillance
->dimercaprol + penicillamine

Organic solvents – skin, CNS (acute+chronic), PNS, respiratory system, heart, liver, kidney, hematological, carcinogenic effect?, reproductive

CO – firefighter, garage worker, petroleum refinery, furnace jobs -> headache drowsiness, dyspnea+tachypn, blurred vision, unconsciousness, death

Hydrogen Cyanide – dyspnea, GI, mild CNS-loss consciousness, seizures, resp. depression+cardiac arrest, death; ->!don't mix with acid+avoid skin contact -> Nitrites, sodium thiosulfate, hydroxocobalamin

Elbow ->dorsal flex+flex, pronation, supination->butcher, tennis

SHOULDER ->rotator cuff+scapula-humeral periarthrit, over shoulder, vibr, flex+abduction

Tenosynovitis- better with activity, flex+ext arm+finger; thumb to other finger, pronation-supination =>packers, crop pickers, tailors, fitters

DeQuervain->long+short ext+long abdu, repetitive prehension (greifen)

Trigger f->stenosing tenosynovitis

Carpal Tunnel->hypertext.+flexion with flexed finger->automobile assembling, packers->Tinel+Phalen's sign

Whole body vibration - <20Hz : Vibration sickness (GI, dec. VA+labyrinth, MSK pain, HT)

Hand-arm – 1250-3000Hz demyelinating periph neuropathy, degeneration hand+finger bones+joint, CT deposition => Hand-arm vibration syndrome=vasospasm (Raynaud) => thermography, finger BP

NOISE -> >85db; Weber+Rinne