

Post-WCLC 2015, Dresden

Lung Cancer Epidemiology / Tobacco Control

Manfred Neuberger

Medical University of Vienna, Austrian Academy of Science

Lung cancer decrease expected from:

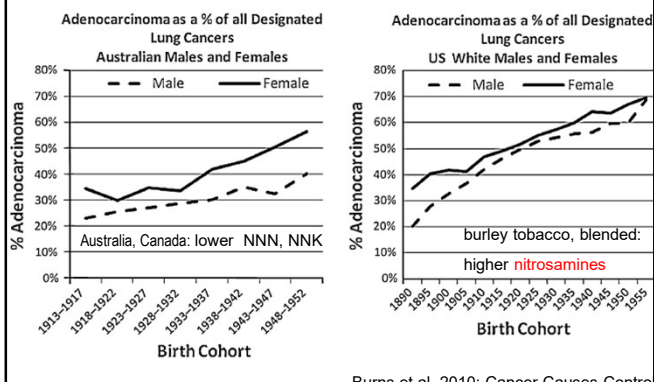
- Reduction of PM_{2.5} in ambient air (outdoor and indoor)
- Ban of asbestos, CICH₂-O-CH₂Cl, COCl₂, and other occupational carcinogens
- ↓ As, Be, Cd, Cr^{VI}, Ni, SiO₂, soot, Rn and other environmental & occup. carcinogens

Lung cancer increase expected from:

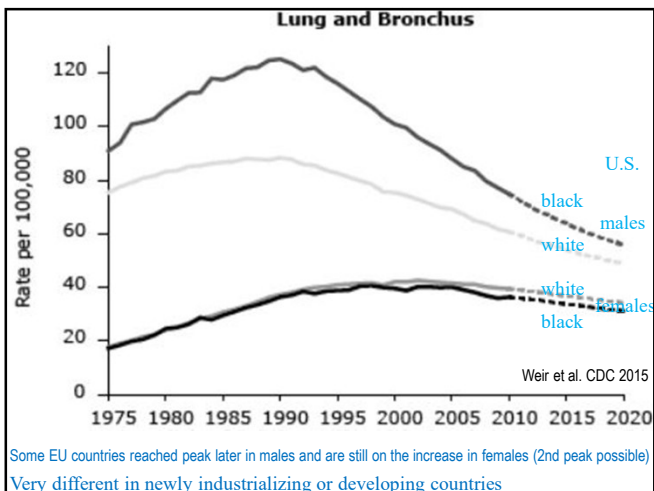
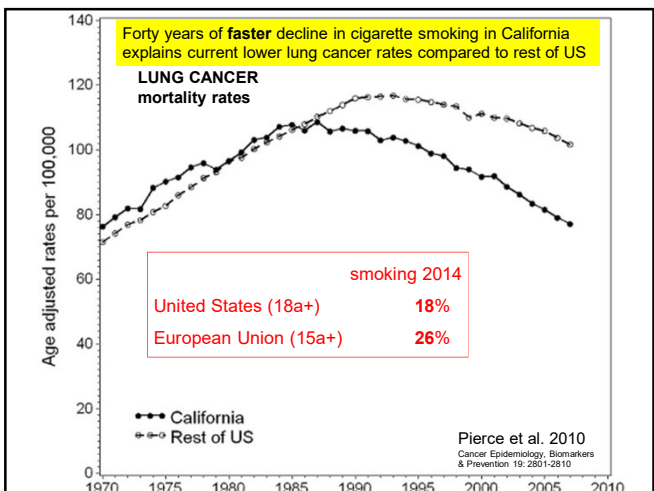
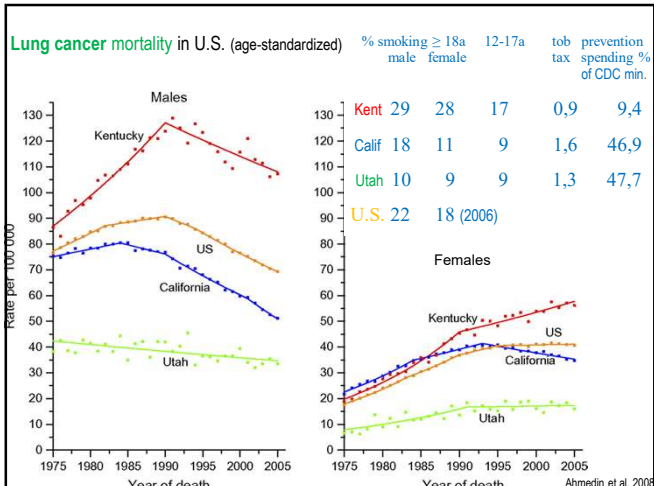
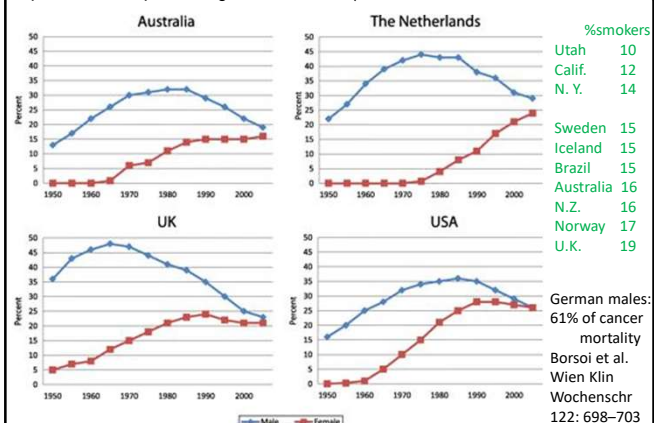
- Tobacco marketing, affordability
- Gateways to nicotine addiction (shisha, e-cigarettes, etc.)
- Earlier start of regular smoking (additives, advertisement, deregulation)
- Undermining of cessation (alternatives: reduction, dual use)

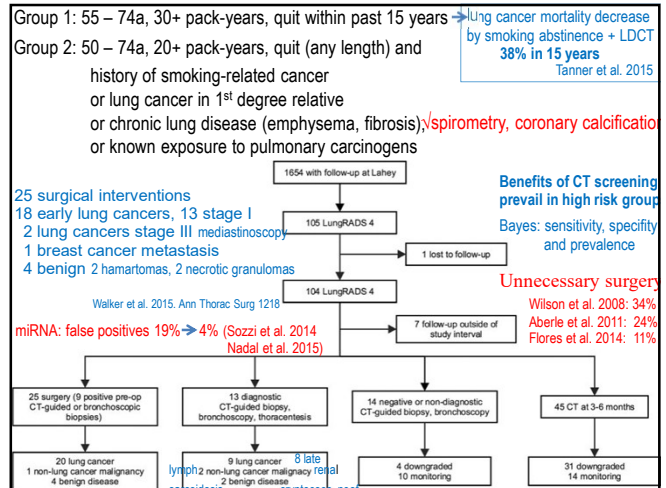
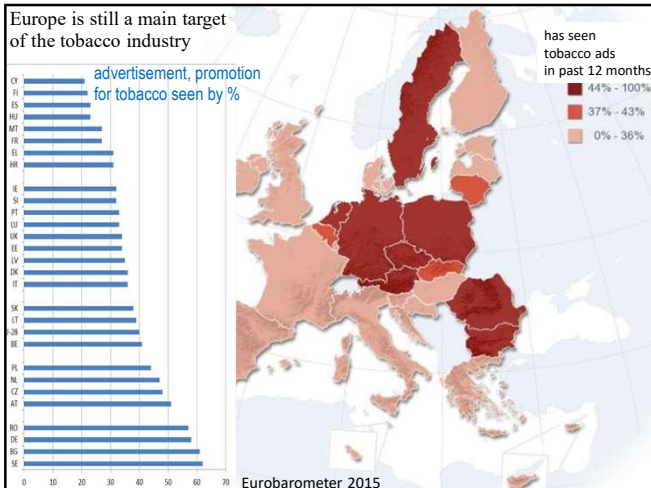
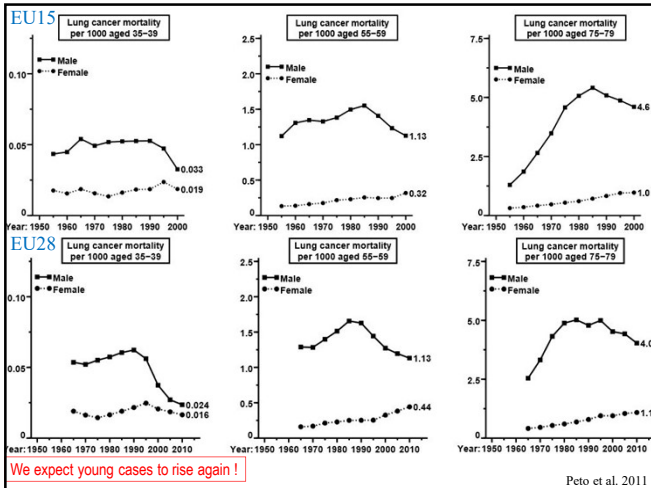
Worldwide increase of bronchial adenocarcinoma

Deeper inhalation of low tar cigarettes with ventilated filters, menthol, etc, alveolar deposition PAHs adsorbed on larger surface of smaller particles (sidestream smoke) (BaP potency equivalency factors underestimate cancer risk)



Smoking-attributed deaths estimated from lung cancer rates, expressed as a percentage of all deaths (Thun et al. 2012. Tob Control 21:96)





Lung cancer screening needs to be combined with smoking cessation

Misperceptions:

- Everyone who participates in screening will benefit
- Screening offers protection from lung cancer
- CT yields the same health benefits as smoking cessation
- A cancer-free test result indicates absence of personal harms of smoking
- Cancer is the only consequence of smoking
- Low personal susceptibility to the harms of tobacco

In 49% these beliefs were reinforced and potentially exacerbated by screening and lowered the motivation to participate in smoking cessation programs.

Zeliadt et al. 2015. JAMA Intern Med 175:1530-7

THANK YOU FOR YOUR ATTENTION

INITIATIVE ÄRZTE GEGEN RAUCHERSCHÄDEN
 AUSTRIAN COUNCIL ON SMOKING AND HEALTH

Please visit our treasury of information
www.aerzteinitiative.at