POLICY DEPARTMENT FOR ECONOMIC, SCIENTIFIC AND QUALITY OF LIFE POLICIES



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Modifiable risk factors and prevention: overview of current knowledge and main challenges

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International Agency for Research on Cancer (IARC/WHO)

Presentation for the ENVI Committee / Health Working Group







The need for cancer prevention in Europe facing the projected cancer burden 2018-2040



Including non-melanoma skin cancer

No country can afford to treat its way out of the cancer problem

A balanced, integrated approach to prevention, early detection and treatment is required

More than 40% of all cancers today are preventable with rigorous cancer prevention



Why cancer prevention?

- Cancer burden too big to rely only on advances in treatment
- Most cancers only curable in early stages
- Several cancers come with severe suffering of people before they die
- Synergies: Cancer control = NCD control





REVIEW ARTICLE

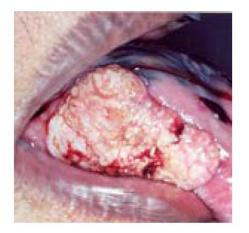
Primary prevention: a need for concerted action

International Agency for Research on Cancer
World Health
Organization

Joachim Schüz, Carolina Espina and Christopher P. Wild
International Agency for Research on Cancer (IARC), Lyon, France

Talking about cancer...

- Cancer encompasses over 100 types of disease, occurring at different sites and in different cell types
- Common feature is cells that have lost their normal cell function, divide and grow uncontrollably invading neighbouring tissue, and spreading to other parts of the body
- Hence, cancer types differ in terms of:
 - aetiology / their causes
 - symptoms and when detectable
 - treatments
 - prognosis and after-care





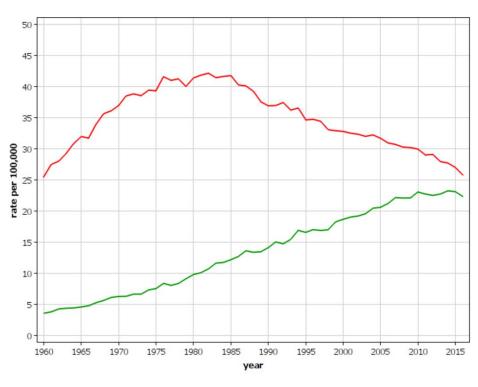


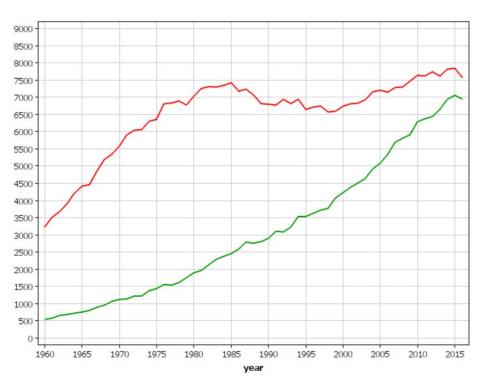
Time trends in cancer incidence:

Lung cancer in the Nordic countries, 1960-2015

Age-adjusted incidence rate (W)

Numbers of incident cases







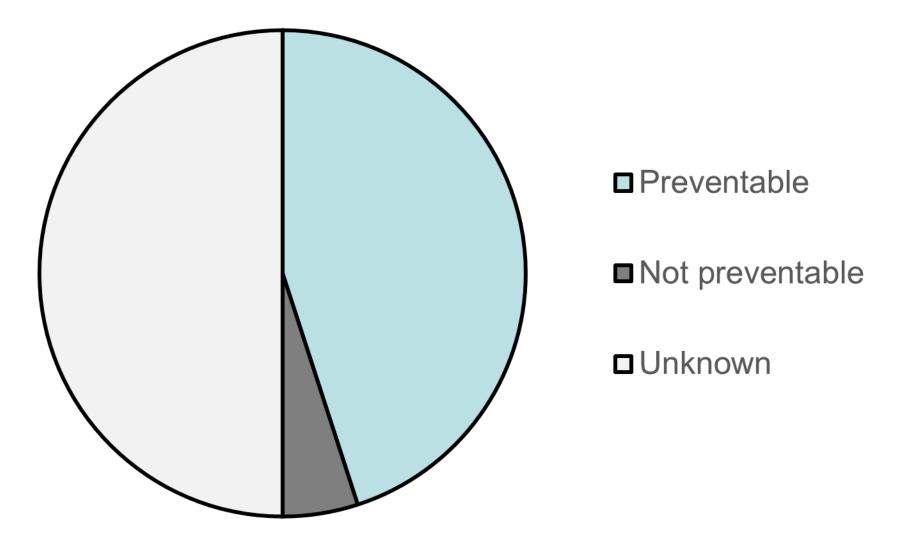




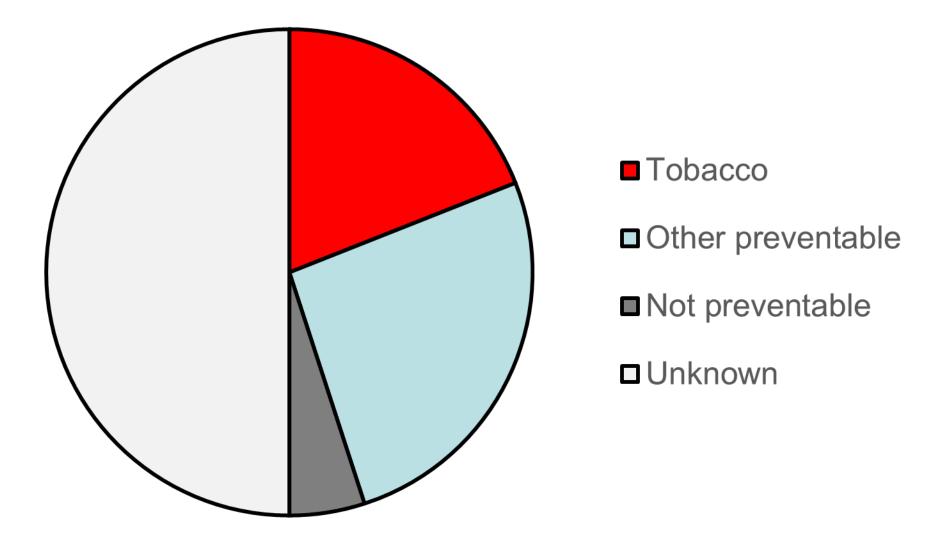
Prostate Cancer Mortality: Spain/Denmark in 1995 and 2015

	Number of deaths	Age-standardized Mortality Rate
1995	5278	13.7
2015	5757	8.2
Change %	+9%	-40%
1995	1050	20.1
2015	1170	15.3
Change %	+11%	-24%

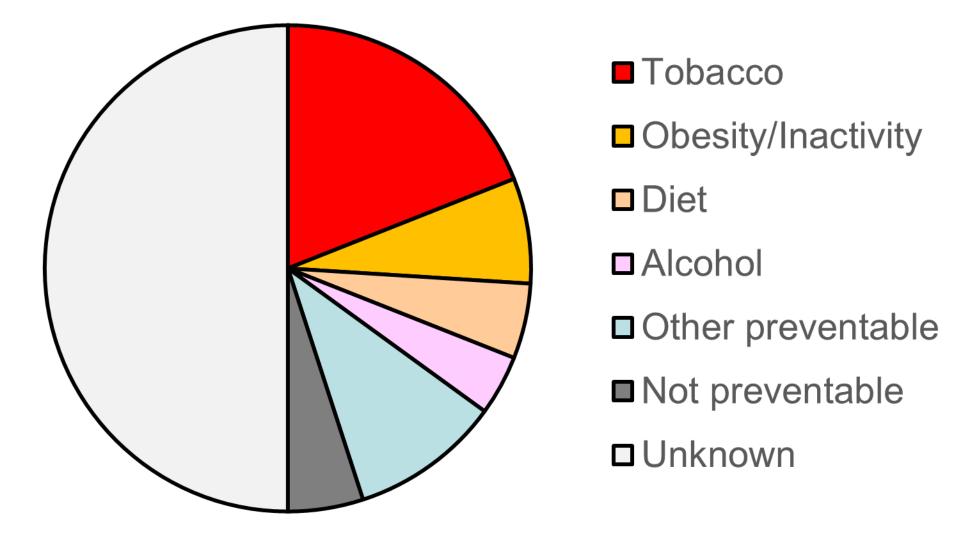




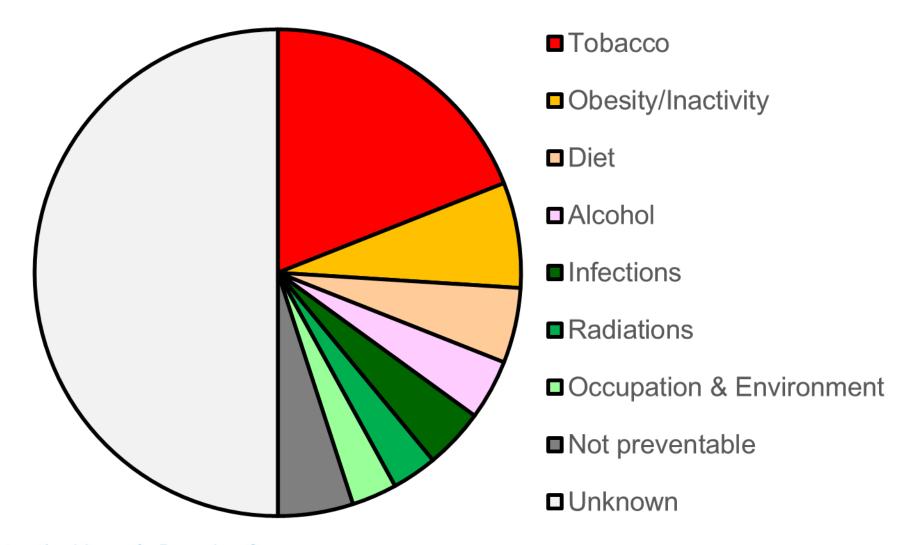




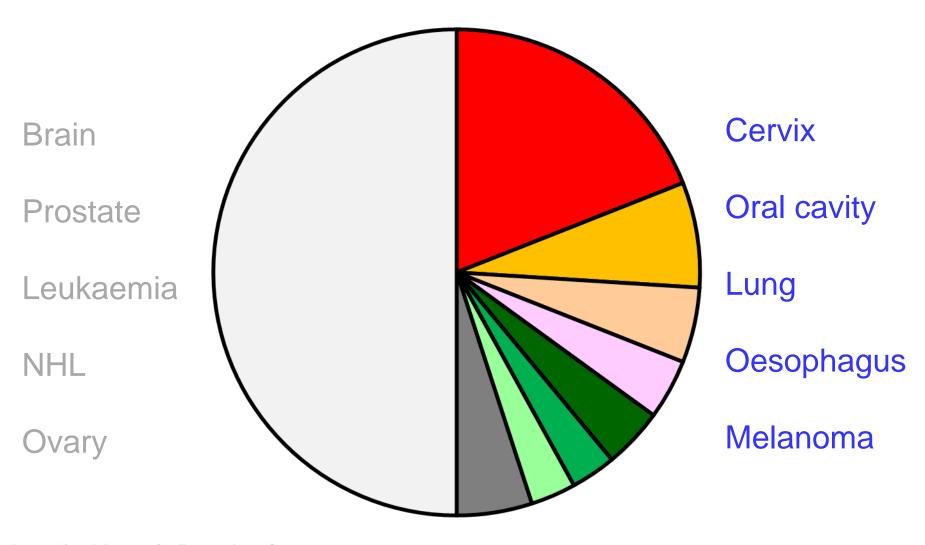














4th Edition European Code Against Cancer





ECL Interactive Maps

European Code Against Cancer

12 Ways to reduce your cancer risk

The European Code Against Cancer includes 12 ways to reduce your cancer risk. Use the interactive map below to explore national efforts of all European Union member states against each message.







smoke



Healthy body weight



Physical activity



Diet



Alcohol



Sun/UV exposure



Pollutants



Radiation



Breastfeeding



Screening

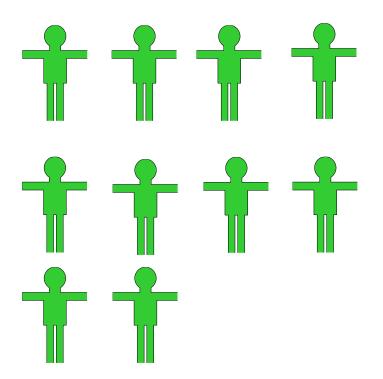


- Completely smoke-free according to WHO definitions
 - Not completely smoke-free according to WHO definitions

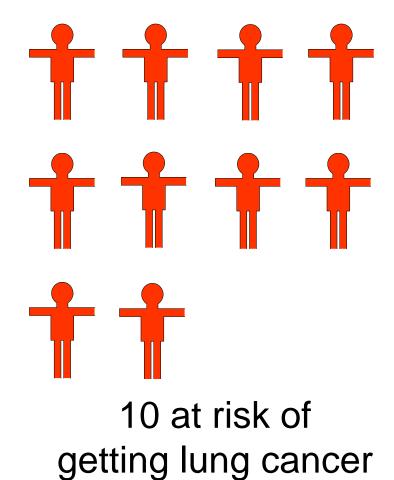




Lung Cancer Dilemma

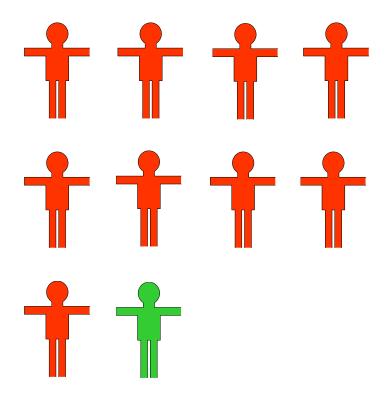


10 having lung cancer

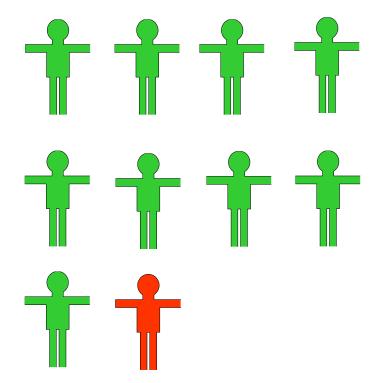




Lung Cancer Dilemma



9 out of 10 die within five years



9 out of 10 can be prevented



Smoking

is the new smoking

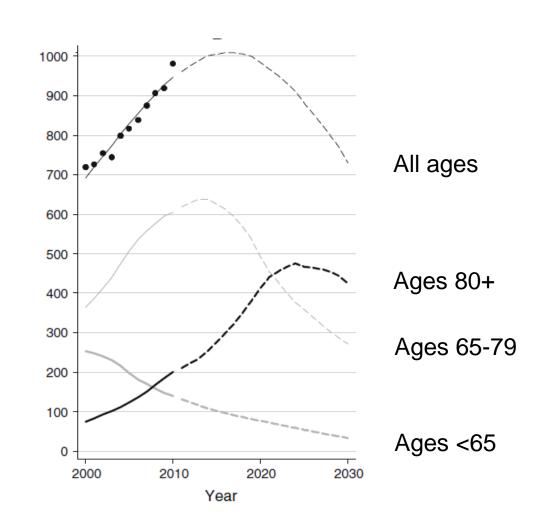
Stop Cancer!

Primary prevention needs time to show effect

Long duration between exposure and detection of cancer

Reversing trends may take decades

Success of primary prevention to be measured in reduction of exposure and changes in the projection of future cancers



Mesothelioma mortality in former West Germany



Take-home messages

- In Europe as many as 100 million new cases of cancer will be diagnosed in the next 20-25 years
- Prevention can reduce the burden by more than 40%
- Primary prevention is an urgent long term investment as it takes long time to show effects
- Prevention through organized screening and vaccination programs to be fully implemented
- Tobacco causes about half of preventable cancers
- Research to identify causes remains essential



Surf & Read



http://cancer-code-europe.iarc.fr

https://www.europeancancerleagues.org/cancer-prevention-ecac-map/#1



http://cancerpreventioneurope.iarc.fr



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Thank you for your attention!

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