OECD MODELLING WORK ON PUBLIC HEALTH: CONTRIBUTION TO THE FORESIGHT PROJECT

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The FRESHER project aimed to represent alternative futures for Europe where the detection of emerging health scenarios is used to test future policies to effectively tackle the burden of NCDs.

Future health scenarios accounted for structural long-term trends in demography, technology, economic, environmental, and societal factors up to 2050.

How healthy will we be in 2050?
FRESHER is based on the combination of quantitative and qualitative techniques:

- Horizon scanning
- Expert opinion and consensus-building techniques
- Microsimulation modelling

Modelling used to carry out:

- Baseline projections (business as usual)
- Scenario projections
- Assessment of policy interventions
Eight Key Trends will Shape Health in Europe
Results of the Horizon Scanning work

• Inequalities
• Productivity and economic growth
• Innovation in medicine and public health
• Citizen empowerment
• Climate change and decarbonisation
• Demographic trends and migration
• Urbanisation
• Agriculture and global food chains
4 Potential Future Scenarios Were Elaborated on 8 Trends, Based on Expert Opinion and Data
Experts Predicted the Risk Factors Evolution in the 4 Scenarios

Expert’s consultation, 2017

For each scenario: Expert’s prediction of the level of risk factors in 2050

91 valid answers (average)
Expert’s evaluation of risk factors in the 4 scenarios

Smoking rates

2015: The rich get healthier, We will health you, Desolation health, Best
2050: Healthy together, Desolation health, Best

Obesity rates

2015: The rich get healthier, We will health you, Desolation health, Best
2050: Healthy together, Desolation health, Best

Source: Expert’s survey, 2017
The OECD SPHeP-NCDs model
372,000 More Cases of Cancer in Europe

Cases of cancer due to population ageing

- Southern Europe: +34%
- Central/Eastern Europe: +16%
- Northern Europe: +35%

2015 - 2050
837,000 More Cases of Dementia in Europe

Cases of dementia due to population ageing

Southern Europe: +86%
Central/Eastern Europe: +58%
Northern Europe: +84%

2015 - 2050
Societal Trends May Bend the Life Expectancy Curve

Women

Men

The Rich Get Healthier

We Will Health You

Healthy Together

Worst

Baseline (demography only)

UN Projection
A 27% Increase in Health Care Expenditure

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<th>Baseline</th>
<th>HealthyTogether</th>
<th>TheRichGetHealthier</th>
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A Set of Effective and Evidence-based Interventions to Tackle Major NCDs

- 20% taxation of tobacco
- GP & dietician counselling for obese people
- 10% taxation of alcohol
- Alcohol advertising regulation
How Far Can Current Policies Take Us?

CVDs

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<th>Year</th>
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Cancers

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• Fit not Fat II, forthcoming
• Applying modelling to improve health and economic policy decisions in the Americas
• Obesity Update 2017
• Health people, healthy planet – The role of health systems in promoting healthier lifestyles and a greener future
• Tackling harmful alcohol use
• Our papers on peer-reviewed academic journals
• OECD Health working papers

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