

## AGENDA: Modelling healthcare expenditure by disease for OECD countries

Thursday 30<sup>th</sup> March 2023, 14:00 – 15:30 CET

14:00-14:10

Item 1: Welcome and introduction

**Speakers:** Michele Cecchini and David Morgan (OECD Secretariat); João Vasco Santos (EUPHA – Public Health Economics)

14:10 – 14:40

Item 2: Disease expenditure estimates for all OECD countries, and impacts on health expenditure by OECD country from achieving SDG goal 3.4

**Speaker:** Professor Tony Blakely, Epidemiologist and Public Health Medicine Specialist; Head of Population Interventions Unit, Melbourne School of Population and Global Health, Australia; Chair of the Aotearoa New Zealand Royal Commission on COVID-19 Lessons Learned.

The presentation will be in two parts. First, the presentation of methods and results for an estimation of health system expenditure by disease by sex by age for all OECD countries. Second, and using these results, a simulation study of how future health system expenditure will change for each OECD country if the annual percentage change in disease incidence rates ('prevention scenario') of case fatality and remission rates ('treatment scenario') is accelerated in order to achieve SDG 3.4 (a 33% reduction in the risk of death from NCD between ages 30 to 70, from 2015 to 2030, within each country).

14:40 – 15:10

Item 3: Estimating healthcare expenditures from patient data at the international level: lessons learnt, achievements and perspectives

**Speaker:** Cédric Doucet, PhD, Applied Mathematics; Health Policy Modeller, OECD Secretariat; National Institute for Research in Digital Science and Technology (INRIA), France.

As part of ongoing work on the economics of non-communicable diseases, the OECD Secretariat has recently developed new AI-based econometric models of healthcare demand and expenditure that use patient-level data from national datasets to evaluate the cost by disease and healthcare services. After presenting these models and the results obtained from several national patient datasets, we will consider issues related to cross-country comparability of outputs and how to improve performances.

15:10 – 15:25

Item 4: Questions and answers

Moderated by Michele Cecchini (OECD Secretariat)

15:25 – 15:30

Item 5: Conclusion

**Speakers:** David Morgan (OECD Secretariat); João Vasco Santos (EUPHA – Health Economics)