

Adult Immunization Board - Technical meeting: Assessing the health burden of vaccine-preventable infections in European Adults: challenges and opportunities

Session 1: Welcome and meeting definition setting

Chairs: Pierre Van Damme and Paolo Bonanni

- 8:45 **Welcome and introduction of Adult Immunization Board**
▶ **Pierre Van Damme** - University of Antwerp
▶ **Paolo Bonanni** - University of Florence
- 9:15 **Short intro on what is health burden of disease (focus on VPIs)**
▶ **Brecht Devleesschauwer** - Lifestyle and chronic diseases - Department of Epidemiology and Public Health - Sciensano - Brussels
- 9:35 **Adult vaccine space: general overview of the current VPIs in the adult population** ▶ **Joe Schmitt** - University of Cologne - Cologne - Germany Global Health Press Singapore - Remote
- 9:55 Discussion

Session 2: The methodology and challenges of computing the health burden of adult VPIs (focus on Europe)

2.1 Burden of (vaccine-preventable) infectious disease studies

Chairs: Giovanni Gabutti and Ligita Jancoriene

- 10:15 **BCoDe study: results from the Burden of Communicable Diseases in Europe study - 2009-2013 / ECDC toolkit to calculate DALYs and the European Surveillance System TESSy** ▶ **Mirjam Kretzschmar** - National Institute for Public Health and the Environment - RIVM - Bilthoven
- 10:35 **Burden of infectious disease studies in Europe and the United Kingdom: a review of methodological design choices** ▶ **Periklis Charalampous** - Department of Public Health - Erasmus MC University Medical Center - Rotterdam
- 10:55 Discussion
- 11:15 Coffee
- 11:35 **BVPD study: The burden of vaccine preventable diseases in Australia**
▶ **Tracy Dixon** - Australian Institute of Health and Welfare - Remote
- 11:50 **ONBOIDS: Ontario Burden of Infectious Disease Study** ▶ **Jeffrey C Kwong** - ICES - Toronto - Public Health Ontario - Toronto - Dalla Lana School of Public Health University of Toronto - Remote
- 12:05 Discussion
- 12:25 Lunch

2.2 Health information systems and data sources:

▮ Chairs: Robert Steffen and Birgit Weinberger

- 13:30 **WHO Surveillance guidelines: A global comprehensive VPD surveillance strategy for the immunization agenda 2030** ▶ Anindya Bose - Department of Immunization - Vaccines & Biologicals (IVB) - WHO - Geneva
- 13:45 **EU Data sources: European data sources for computing burden of (potential) VPD in ageing adults - VITAL working group** ▶ Alejandro Orrico Sánchez - Vaccines Research Department (AIV) - FISABIO - Valencia
- 14:00 **Burden of disease studies in the WHO European Region & the European Burden of Disease Network (burden-eu)** ▶ Mark O'Donovan - University College Cork - Cork - Ireland
- 14:15 **European Health Data Space (EHDS): EU health data collection and data safety: impact on the estimation of burden of VPIs** ▶ Dipak Kalra - European Institute for Innovation through Health Data (i~HD) - Ghent

14:30 Discussion

14:45 Coffee

2.3 What can we learn from the GBD study?

▮ Chairs: Thomas Weinke and Helena Maltezos

- 15:05 **Lessons from 30 years of large scale Global burden of disease (GBD) study** ▶ Tomislav Mestrovic - University of Washington's Institute for Health Metrics and Evaluation (IHME) - Seattle - US
- 15:25 Discussion

Session 3: The epidemiology and health burden of selected adult VPIs • part 1

▮ Chairs: Thomas Weinke and Helena Maltezos

3.1 Health Burden of VPI in a pandemic situation

- 15:35 **COVID-19 example** ▶ Sara Monteiro Pires - European Burden of Disease Network National Food Institute - Technical University of Denmark
Kgs Lyngby - Denmark

3.2 Health Burden of VPI in older adults

- 15:50 **Herpes zoster example** ▶ Hester E de Melker - National Institute for Public Health and the Environment - RIVM - Utrecht - The Netherlands
- 16:05 **Herpes zoster example** ▶ Angela Bechini - University of Florence - Italy
- 16:20 **RSV example** ▶ Xiao Li - Centre for Health Economics Research & Modelling Infectious Diseases - CHERMID - University of Antwerp - Belgium
- 16:35 **RSV / Influenza example** ▶ Stefania Maggi - National Research Council-NI-Aging Branch - Padua - Italy
- 16:50 Discussion and closing day 1

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Assessing the health burden of vaccine-preventable infections
in European Adults: challenges and opportunities**

Session 3: The epidemiology and health burden of selected adult VPIs • part 2

▮ **Chairs: Jacek Wysocki and Daphne Holt**

3.3 Health Burden of VPI in younger adults

8:45 **HPV example** ▶ **Paolo Bonanni** - University of Florence

3.4 Health Burden of VPIs in travelers

9:00 **Vaccine-Preventable Travel Health Risks: What Is the Evidence—What Are the Gaps?** ▶ **Robert Steffen** - University of Zurich - Switzerland

3.5 Health Burden of VPIs in immunocompromised

9:15 **Burden of VPIs in immunocompromised populations**

▶ **Per Ljungman** - Karolinska University Hospital - Karolinska Comprehensive Cancer Center - Karolinska Institutet - Stockholm - Sweden

9:30 Discussion

Session 4: From theory to practice: how are health burden estimates used to recommend adult vaccines in national immunization programs in Europe

▮ **Chairs: Roman Chlibek and Heini Salo**

9:45 **Knowledge Translation and Burden of Disease, from theory to practice**

▶ **Ziad El-Khatib** - Karolinska Institute - Stockholm - Sweden - Remote

10:05 **The impact of the health burden in an archetype analysis of older adult immunization decision-making and implementation (focus on Europe)**

▶ **Lois Privor-Dumm** - Johns Hopkins Bloomberg School of Public Health International Vaccine Access Center - Baltimore - US

- 10:25 **Impact of the health burden on Vaccine market access pathways in the EU27 and the United Kingdom - analysis and recommendations for improvements** ▶ Chiara Cadeddu - Section of Hygiene - University Department of Life Sciences and Public Health - Università Cattolica del Sacro Cuore - Rome - Italy
- 10:45 Discussion
- 11:00 Coffee

Examples of how health burden estimates are used to recommend adult vaccines in NIPs in Europe

▮ Chairs: **Aparna Keegan and Odile Launay**

- 11:20 **Example NITAG (N-Europe): Finland**
▶ Heini Salo - Finnish Institute for Health and Welfare - Finland
- 11:35 **Example NITAG (C-Europe): Czech Republic**
▶ Roman Chlibek - Department of Epidemiology - Vaccination Centre - Faculty of Military Health Sciences - University of Defence - Czech Republic
- 11:50 **Example NITAG (W-Europe): Germany**
▶ Thomas Weinke - Klinikum Ernst von Bergmann - Medizinische Klinik Gastroenterologie - Infektiologie - Pneumologie - Potsdam - Germany
- 12:05 **Example NITAG (S-Europe): Greece** ▶ Sotirios Tsiordas
University of Athens Med School 4th Dept of Medicine - Greece - Remote
- 12:20 Discussion
- 12:40 Lunch
- 13:30 **Breakout Groups**
- 14:15 **Plenary feedback**
- ▮ Chairs: **Pierre Van Damme and Paolo Bonanni**
- 14:45 **Summary of the meeting** ▶ Chloé Wyndham-Thomas (P95)
- 15:15 Discussion and closing of the meeting