

17 October 2024 – Flanders Vaccine, Ghent
Jade Pattyn



Adult Immunization Board

A platform to provide multidisciplinary guidelines for the implementation and optimization of adult immunization in Europe

Content of the presentation

- From idea to concept
- AIB secretariat and AIB advisors
- AIB mission and objectives
- **AIB workplan: (upcoming) meetings and activities**
 - AIB Technical (April 2023)
 - AIB Country meeting (Dec 2023)
 - AIB Technical meeting (April 2024)
 - AIB Country meeting (Dec 2024)

Adult Immunization Board: From idea to concept

Growing number and share
of older people

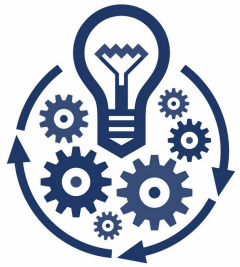
Concerning low adult
vaccination coverage

Barriers experienced during
implementation of adult
(COVID-19) vaccination

Increasing number of
questions about adult
immunization / life course
immunization

...

*Need for independent and multidisciplinary reflection on
adult immunization in Europe*



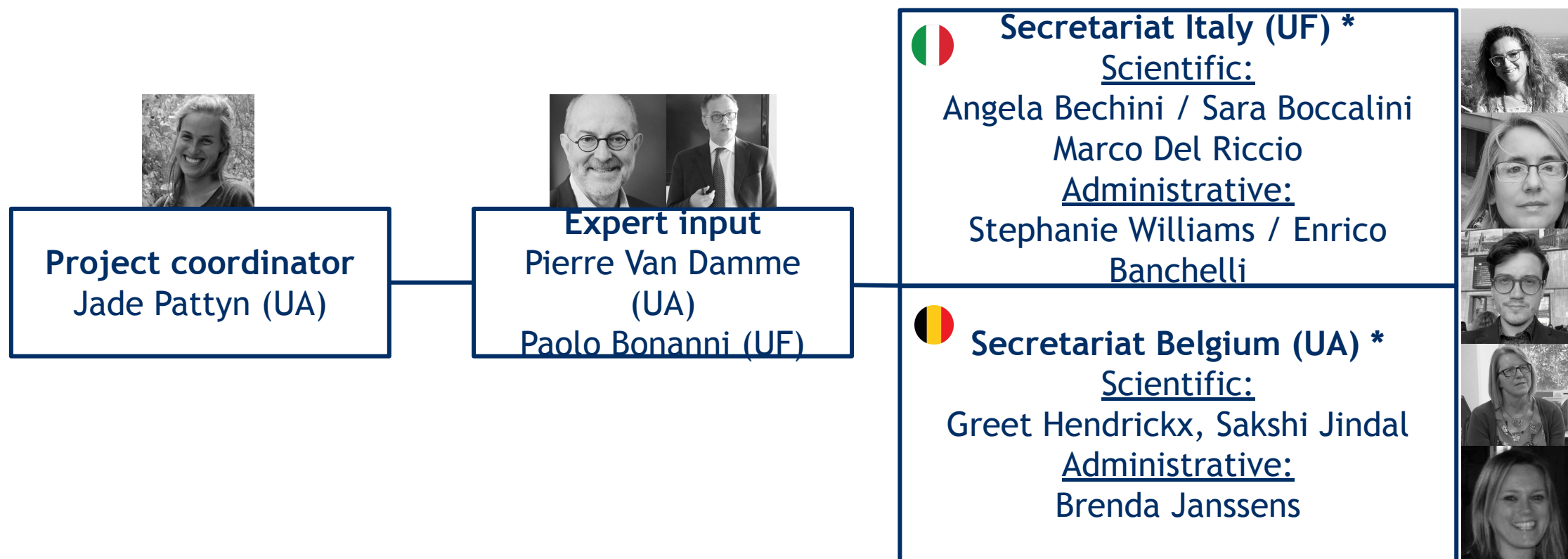
Adult Immunization Board

Based on good experience with existing multidisciplinary advisory groups



The AIB has a permanent executive secretariat

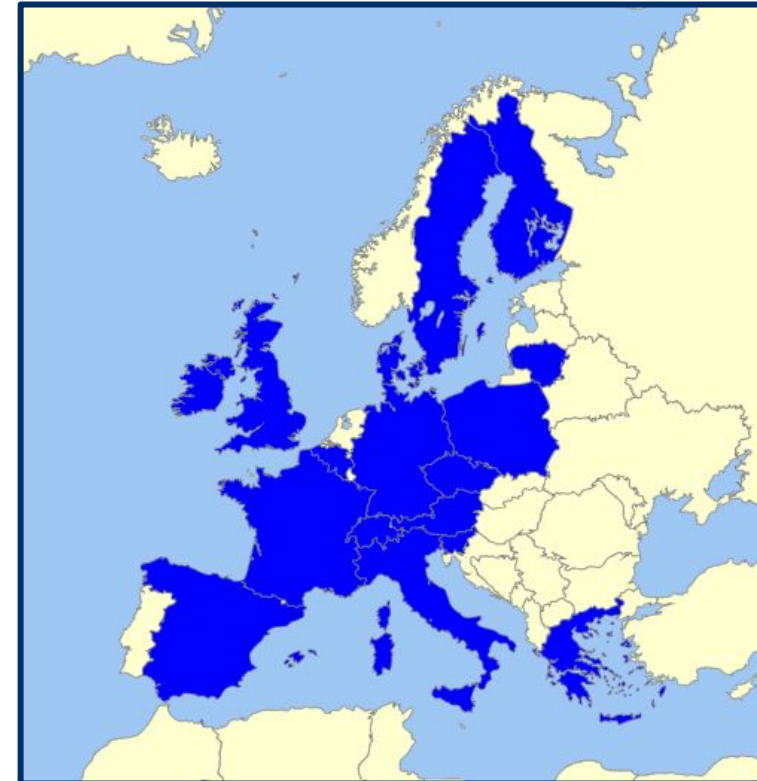
Collaboration between university of Antwerp (UA) and university of Florence (UF)



Composition and structure of the AIB: advisors

Board members / advisors

- Experts in different fields of adult immunization/representing different regions
 - *Expertise: Vaccinology, Infectious diseases, Immunology, Epidemiology, Vaccine technologies, Primary health care, Public health, Travel medicine, Vaccine Confidence Communication, Health economics, Aging*
 - *Characteristic: Engaged/ enthusiastic*
- AIB advisors ☐ **not paid**



**Independent,
international,
multidisciplinary
group of 23 advisors**

Provide scientific
evidence-based
reflection and
guidance on
strategic, technical
and policy issues
that will occur as we
move forward in the
implementation and
optimization of adult
immunization
programs



Niyazi Cakmak
(WHO EURO)



Daphne Holt
(CLCI)



Mariano Votta
(Active Citizenship
Network)



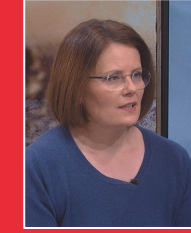
Odile Launay
(France)



Giovanni Gabutti
(Italy)



Helena Maltezou
(Greece)



Heini Salo
(Finland)



Jacek Wysocki
(Poland)



Antoni Torres
(Spain)



Ligita Jancoriene
(Lithuania)



Heidi Larson
(Belgium / UK)



Per Ljungman
(Sweden)



Robert Steffen
(Switzerland)



Pierre Van Damme
(Belgium)



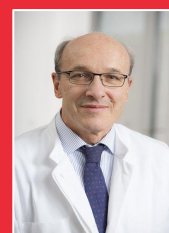
Birgit Weinberger
(Austria)



Sotirios Tsiodras
(Greece)



Stefania Maggi
(Italy)



Thomas Weinke
(Germany)



Johan Flamaing
(Belgium)



Roman Chlibek
(Czech
Republic)



Alojz Ihan
(Slovenia)



Paolo Bonanni
(Italy)



Javier Díez-Domingo
(Spain)

AIB - Mission and Objectives

- **AIB is established with the aim of contributing to the reduction of mortality and morbidity from vaccine-preventable infections and diseases in European adults.**
 - provide evidence-based guidance on fundamental technical and strategic issues
 - monitoring the progress of adult immunization programs at European and (sub)national levels.

AIB – Way of working: 2 meeting per year

- **1) Technical meeting**

- to discuss specific technical aspect on adult immunization with subject-matter experts

- **2) Country meeting**

- to discuss country specific aspects of adult immunization together with local experts
- create a platform where people of the country involved in adult immunization can discuss and start future initiatives

- **Meeting on invitation only to keep group small -> guarantee interaction/ discussion**

- **The focus audience are policymakers, researchers, public health experts, HCP**

Meetings - Way of working



Meeting topics- countries
Objectives - meeting
outcome

Literature –web review



Draft agenda

Potential speakers

Potential
participants



Adult Immunization Board (AIB)

Technical meeting:

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

University of Antwerp
(Belgium)

DRAFT



Please note that this is a preliminary draft of the AIB meeting objectives/ agenda

Preliminary Meeting Objectives:

- Provide an overview of current vaccine-preventable infections (VPIs) in the adult population (>18y)
- Discuss the methodology and challenges in computing the health burden of adult VPIs (focus on Europe)
- Understand how the health burden estimates of adult VPIs shape national vaccination policies and practices and inform public health priorities
- Evaluate the current VPIs health burden evidence to provide a convincing case for strengthening adult vaccination in Europe

Intended Impact:

Accurate information about the health burden of VPIs in adults is needed for several reasons:

- To understand the need and justification for consolidating actual and propose new adult vaccination programmes
- To measure the impact of adult vaccination programs on individual and population health, health systems, economic and social factors
- To collate the rationale to improve prevention / vaccination strategies for adult diseases (e.g. update or revise immunization schedules, implement targeted delivery strategies, etc.)
- To support health policy recommendations and priorities

The purpose of the first AIB technical meeting is to identify and discuss the challenges and opportunities when assessing the health burden of VPIs in European adults.

Target audience (> 60 participants):

The Adult Immunization Board will bring together European vaccinologists, epidemiologists, opinion leaders, policymakers, public health and health care professionals of different specialties, patient groups, professional medical and paramedical organizations. A diverse set of data will be presented and programs, strategies, successes and challenges will be discussed.

Differences with existing VHPB and HPV board



VHPB Board

- Disease specific
- Mostly EU-focussed
- Secretariat UA based
- Multisponsored unrestricted grants
- Since 1992



HPV Board

- Disease specific
- Global
- Secretariat UA based
- Multisponsored unrestricted grants
- Since 2015



Adult Immunization Board

- **Not** disease specific
- EU-focussed
- Secretariat UA and UF based
- Unrestricted grant Vaccines Europe
- Since 2022

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 - AIB Technical meeting (April 2024)
 - AIB Country meeting (Dec 2024)
- **Side projects**

AIB meetings

1. **Technical meeting:** Assessing the **health burden** of VPI in European adults: challenges and opportunities (April 2023)
2. **Country meeting:** Adult immunization in **Italy**: successes, lessons learned and the way forward (December 2023)
3. **Technical meeting:** Strategies for **introducing and implementing vaccines** for adults into National Immunization Programs in Europe: exemplary approaches and key insights (April 2024)

*Next: **Country meeting:** Adult immunization in Finland: successes, lessons learned and the way forward (December 2024)*



All meeting presentations are available on our website

Recap Technical meeting (20-21 April 2023, Antwerp)

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

Meeting Objectives

- To provide an overview of current vaccine-preventable infections (VPIs) in the adult population (≥ 18 years of age)
- To discuss the methodology and challenges in calculating the health burden (HB) of adult VPIs (focus on Europe)
- To understand how HB estimates of adult VPIs shape national vaccination policies & practices & inform public health priorities
- To evaluate current VPIs HB evidence to provide a convincing case for strengthening adult vaccination in Europe

The purpose of the first AIB technical meeting is to identify and discuss the challenges and opportunities when assessing the health burden of VPIs in European adults.

All meeting presentations are available on our website:

<https://www.adultimmunizationboard.org/meetings/technical-meeting-april-2023/>

Overview of current vaccines for adults used in Europe (>18-years-old)

| Vaccine | (Age-dependent) routine vaccines | Catch-up missed child/ adolescence vaccines | Individual risk-based vaccines (e.g., pregnancy, medical condition) | Travel-related vaccines | Occupational activity-related vaccines (e.g., HCW, CCW, people who work with animals, etc.) ** |
|---------------|----------------------------------|---|---|-------------------------|--|
| Anthrax | | | X | | X |
| Cholera | | | | X | |
| COVID-19 | X | | X | X | X |
| Dengue | | | | X | |
| Ebola | | | | | X |
| Hepatitis A | | X | | | X |
| Hepatitis B | | X | X | X | X |
| Hib | | | X | | |
| HPV | | X | X | | |
| HZ | X | | | | |
| S. Influenza | X | | | | |
| Pneumococcus | X | | | | |
| JE | | | | | |
| MenACWY | | X | | | |
| MenB | | X | | | |
| MMR(V) | | X | | | |
| Mpox | | | | | |
| Polio | | X | | X | |
| Rabies | | | | X | X |
| RSV | X | | X | | |
| TB | | | X | | X |
| TBE | X | X* | X | X | X |
| Tdap | X | X | X | | |
| Typhoid fever | | | | X | |
| Yellow fever | | | | X | |

The list covers adult vaccines up to October 2023 □ add Chikungunya




NPJ Vaccines: under review

Vaccines for adults tracker and landscape: An overview of the types of vaccines for adults authorized, recommended and used in the European Union.

Authors: Jade Pattyn¹, Odile Launay², Robert Steffen³, Birgit Weinberger⁴, Giovanni Gabutti⁵, Ihan Alojz⁶, Thomas Weinke⁷, Ligita Jancoriene⁸, Paolo Bonanni⁹, Pierre Van Damme¹



Assessing the health burden of vaccine-preventable infections in European adults: Challenges and opportunities translated into action

Pattyn, Jade^b ; Bonanni, Paolo^c; Del Riccio, Marco; Weinke, Thomas;
Roman, Chlíbaek; Maggi, Stefania; Steffen, Robert; Salo, Heini;
Ljungman, Per; Hendrickx, Greet; Boccalini, Sara; Bechini, Angela
Van Damme, Pierre

[Hide additional authors](#)   Save all to author list

Key conclusions from the meeting:

- Health BoD data are essential for evidence-informed vaccine policy decision-making and for the monitoring of interventions (e.g. vaccination programmes).
- Harmonisation of BoD methods is necessary to allow comparability and interpretation of results across studies.
- Health burden studies are resource demanding and require extensive high-quality data: efforts to improve Europe's infectious disease surveillance and collaborations offering both capacity building and cost-sharing should be further promoted.
- Geographical differences and inequalities are found at all levels of adult immunisation in Europe (e.g. in surveillance strategies and data collection, data quality, vaccine recommendations and uptake) and should be considered when interpreting BoD results.
- The communication of VPI health BoD should be tailored to each stakeholder (e.g. ministry of health, NITAG, healthcare providers, general population) and combined with other drivers of political decisions (e.g. health economics) to ensure effective translation into vaccine policy.



Recap Country meeting (6-7 December 2023, Florence)

Adult Immunization in Italy: successes, lessons learned and the way forward

Meeting Objectives

- Provide an overview of the **epidemiology and disease burden** of VPI among adults in Italy. Explain the functioning of infectious disease surveillance and control programs in Italy
- Provide an **overview of the healthcare system** in Italy and review how (adult) **immunization programs are structured** within the Italian health care system. Explain the **evaluation and market authorization process** of (adult) vaccines in Italy
- Present the **Italian Lifetime Immunization Schedule** and provide an overview of the new **National Immunization Plan (PNPV 2023-25)**, discuss the decision-making process and criteria according to which vaccines are evaluated and included
- Discuss the **purchase, distribution and financing** of adult vaccines
- Explore the **organization and delivery** of adult vaccination services in different regions of Italy
- Discuss the **recording and reporting of vaccination data** in Italy, including coverage rate monitoring and the national registry, as well as vaccine impact monitoring and vigilance practices
- Analyze the **population's vaccination demand and acceptance**, addressing issues such as vaccine confidence and compulsory vaccination policies for specific adult population groups
- Present the strategies and programs implemented in Italy to **vaccinate specific adult population groups**, highlighting the challenges and opportunities
- Explore **future prospects and potential solutions** to overcome barriers and enhance adult immunization efforts in Italy and other European countries

All meeting presentations are available on our website:

<https://www.adultimmunizationboard.org/meetings/country-meeting-december-2023/>

Recap Country meeting (6-7 December 2023, Florence)

- The aim of these meetings is to establish a collaborative network of national experts of different fields, creating a platform for the exchange of knowledge and best practices in adult immunization.
- Detailed meeting report [□](#) on AIB website
- Peer-reviewed paper [□](#) soon published [□](#) Human Vaccines & Immunotherapeutic
- Highly encouraging, positive feedback from the feedback surveys of participants



Recap Technical meeting (Prague, 18-19 April 2024)

Strategies for introducing and implementing vaccines for adults into National Immunization Programs in Europe: Exemplary Approaches and Key Insights

- **Background:**

- Increasing **implementation of vaccines for adults** within lifelong vaccination initiatives across several EU countries (e.g., RSV, COVID-19)

- **Meeting aim**

- To **explore the latest strategies and valuable insights** regarding the implementation of adult vaccines into National Immunization Programs.
- AIB seeks to **gather diverse perspectives** from **various:**
 - Context, Disciplines, Vaccines for adults

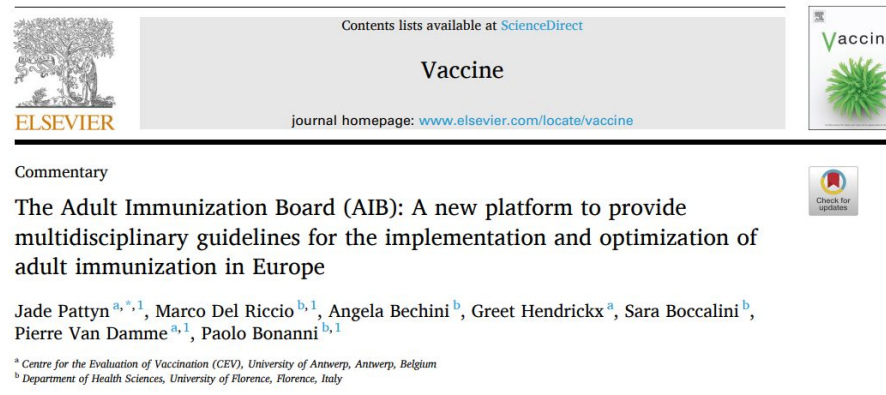
Upcoming Country meeting (Finland, December 2024)

- Review the structure of the **healthcare system in Finland**, focusing on **how adult vaccination programs** are integrated into the national vaccination plan. Analyze current **policies and strategies** for adult vaccination.
- Explore the integration of [national healthcare registers](#) in monitoring and evaluating vaccine coverage and effectiveness. Analyze the **organization, distribution, and regulatory systems** for adult vaccination at the national and regional level.
- Discuss the effectiveness of current **surveillance systems** in detecting and responding to vaccine-preventable diseases in adults.
- Understand the role **of modeling and economic evaluations** in shaping **vaccine policy**. Discuss how modelling studies can inform policy decisions and prioritization of vaccines.
- Address the factors influencing **vaccine acceptance and strategies to increase demand** among adults. Assess public attitudes and beliefs toward adult vaccination.
- Focus on existing vaccination strategies for [specific population groups \(H5 avian influenza vaccination, Finnish military conscripts\)](#) and the effectiveness of such programs.
- Discuss future directions for adult vaccination.

| | | |
|--|--|--|
| How to react to emergencies (COVID, mpox) / lessons learned to coordinate research priorities / Lessons Learned from Emergency Response Vaccination Efforts | Pricing of adult vaccines: past, present and future – appropriate and sustainable funding and procurement systems | Off-label use of vaccines in (older) adults |
| Tailored vaccine services for adults: redesign delivery systems, which actors are involved // Vx delivery non-clinical settings (e.g. pharmacy) | Vaccine safety: which AE and side effects are known Detection, assessment, understanding and communication | Prevention of respiratory infections in older adults (influenza, pneumococci, COVID, RSV) |
| Healthy living, healthy ageing: Burden of VPD in European adults – what if we do nothing (□ technical meeting 2023) | Adult Immunization integrated into healthy living and healthy ageing policies | Risk communication and educational interventions to specific adult populations |
| Diphtheria, tetanus, pertussis: what is the current situation, where do we come from? What can we still do? | The strength of Immunization coverage targets like 75% for influenza / are should we move to yearly more reachable targets in Europe? | Vaccine equity in Europe / vaccines for underserved communities (incl migrants) / Equity within and among countries / Vaccines access within and among EU-countries |
| Influenza vaccination: what is the current situation, where do we come from? What can we still do? | Challenges and solutions to implement adult immunization / life course immunization (□ technical meeting 2024) | Vaccination in pregnant women |
| Vaccination of older adults – what are the gaps? | Immunosuppression and immuno-senescence // aging parameters of the immune system | Vaccination/ vaccine confidence of health care providers |
| E-vaccination cards: experiences across Europe/ Collection of epi-data / vaccine coverage data (Electronic vaccine registry) : what are the challenges/ barriers | Vaccine needs for adults: prioritize action to adapt and recommend vaccines // New indications / adapted and new vaccines / new technologies and administration routes | Identification of the most appropriate target/s for adult vaccination efforts involves a complex trade-off between multiple factors, including vaccine efficacy, duration of protection, and the disease burden in different groups. |
| Immunization schedule: Heterogeneity amongst countries and within countries // can a European adult vaccination schedule help for more standardised policy and reduce the complexness // Who makes recommendations at EU level to include vaccines in national vaccination calendars for adults | European adult vaccine confidence and strategies | Pro's and con's of target vaccination campaigns |
| What can we learn from adult travel vaccination for general adult vaccination | Durability of vaccine-induced immune response: annual / 10y immunisation cycle / boosters // annual adult immunisation programmes + needed infrastructure | joint EU clinical HTA framework EU joint scientific consultations EUnetHTA 21 |
| Co-administration // bundling delivery // simplification of vaccination schedules | Mandatory adult vaccinations: scientific and ethical considerations | Social, economic and psychological impact of VPD in European adults |
| How to mirror success during the past 50 years with the Expanded Programme on Immunization for children | The role of health insurances for adult vaccination | |

AIB output and communication channels

- Website
- LinkedIn
- Video
- Publications



Eurosurveillance • Open Access • Volume 28, Issue 48 • 1 November 2023

Assessing the health burden of vaccine-preventable infections in European adults: Challenges and opportunities translated into action

Pattyn, Jade^b ; Bonanni, Paolo^c; Del Riccio, Marco; Weinke, Thomas;
Roman, Chl'ibek; Maggi, Stefania; Steffen, Robert; Salo, Heini;
Ljungman, Per; Hendrickx, Greet; Boccalini, Sara; Bechini, Angela
Van Damme, Pierre

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Thank you

Adult Immunization Board

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A collaboration of



UNIVERSITÀ
DEGLI STUDI
FIRENZE
DSS
DIPARTIMENTO DI
SCIENZE DELLA SALUTE



University
of Antwerp

Output links

Meeting reports

- [Technical meeting report: Assessing the health burden of vaccine preventable infections in European adults: challenges and opportunities translated into action, Antwerp, Belgium \(20-21 April 2023\)](#)
- [Country meeting report: Adult Immunization in Italy: successes, lessons learned and the way forward \(6-7 December 2023\)](#)

International peer-reviewed articles

- [Pattyn J, Del Riccio M, Bechini A, Hendrickx G, Boccalini S, Van Damme P, Bonanni P. The Adult Immunization Board \(AIB\): A new platform to provide multidisciplinary guidelines for the implementation and optimization of adult immunization in Europe. Vaccine. 2024 Jan 1;42\(1\):1-3. doi: 10.1016/j.vaccine.2023.11.060. Epub 2023 Dec 3. PMID: 38044243.](#)
- [Pattyn J, Bonanni P; Adult Immunization Board working group. Assessing the health burden of vaccine-preventable infections in European adults: challenges and opportunities translated into action. Euro Surveill. 2023 Nov;28\(48\):2300791. doi: 10.2807/1560-7917.ES.2023.28.48.2300791. PMID: 38037730; PMCID: PMC10690864.](#)

AIB video

- <https://www.youtube.com/watch?v=4lbpByol6Ow&t=157s>

LinkedIn page

- <https://www.linkedin.com/company/adult-immunization-board-aib/posts/?feedView=all>

