

healthy all life long

# BAHCI

Bringing a Health Claim to Information: Measuring the impact of health data on the health outcomes of European citizens

> Euro-Peristat Meeting Rolduc Abbey, the Netherlands 9 April 2018

> > Marie Delnord



# Marie Skłodowska-Curie Actions

## • WHO CAN APPLY?

- This action is for **experienced researchers** from across the world.
- Applicants need a doctoral degree or at least four years' full-time research experience by the time of the call deadline.

## • WHAT CAN BE FUNDED?

• All research areas can be funded. MSCA Fellows come from a wide variety of disciplines – from physics to linguistics, and from health-sciences to mathematical modelling.

## • WHAT THE FUNDING COVERS

- The grant is awarded to the host organisation, usually a university, research centre or a company in Europe.
- The grant provides an **allowance to cover living, travel and family costs**. In addition, the EU contributes to the **training, networking and research costs** of the fellow, as well as to the management and indirect costs of the project.





# MSCA2017 Standard IF – Life Sciences

7,154 proposals submitted ST-IF/ 1701 proposals in Life Sciences, 12% accepted

#### **AREAS:**

- Public health and epidemiology
- Health services, health care research
- Bioinformatics, e-Health, medical informatics
- Keywords: health information systems, health system performance, surveillance and monitoring, health indicators, european public health, eHealth, evidence-based health interventions



## **Project coordination**

- <u>Beneficiary</u>: Sciensano: Belgian Federal Research Public Health Institute
- <u>Supervisor</u>: Prof. Dr. Herman Van Oyen, Coordinator InfACT

Director Dpt Epidemiology and Public Health (Sciensano), Professor Epidemiology at Ghent University, Editor-in-Chief of Archives of Public Health, and Editor of the International Journal of Public Health.

• <u>Research focus</u>: epidemiological methods, survey research, ageing and disabling process, and monitoring of health inequality.



## **Project coordination**

• Researcher: Marie Delnord

French, 31 y/o.

7+ years of research experience in the field of epidemiology and public health

Focus in the areas of perinatal health and international comparisons (at Inserm U1153 EPOPé research team since 2011)

PhD thesis in Epidemiology: "Understanding variations in preterm birth rates and trends in 34 in high-income countries."

"This MSCA project is a unique opportunity for me to consolidate my credentials as a European public health researcher and expand my career possibilities beyond the perinatal health field."

# Background

• EU Member States share similar levels of development and access to care. Yet, key population health indicators vary widely across countries.

The societal burden of health inequalities is high -> *leveraging evidence to achieve better health outcomes is a priority.* 

• In Europe however, there is heterogeneity in the level and nature of evidence that are available to decision-makers and key stakeholders

What is the impact of differences in health information (HI) capacity on the population burden of disease?

# Aim: Months M1 August 2018-M24

- Provide a "HI Impact Index" that could be used by EU public health decision makers to:
- 1. Measure the uptake of evidence into policies and care
- 2. Assess the impact of HI on population health overall and in priority areas for Europe:
  - maternal and child health,
  - chronic diseases,
  - antimicrobial resistance,
  - Injury prevention, and
  - patient reported outcomes and experiences.

# Originality

• Addresses an important knowledge gap in EU-Health Information System evaluation.

#### Does better health data translate into better outcomes?

- This project will examine the potential of new sources and types of data for routine European public health monitoring (i.e. big data, social media, health apps)
- Based on an inclusive multi-stakeholder approach: InfAct Joint Action participants + patient groups + R&D private sector

## Methods:

# 1. Provide a conceptual framework for assessing the impact of health data on health outcomes

Builds on previous work done by

- WHO on assessing HIS
- by Euro-Peristat on establishing a EU perinatal health information system
- existing Health Impact Assessment tools
- and data available from the BRIDGE Health project.
- Months M1-M12; Deliverables: D1. Systematic review, D2. Policy brief

# 2. Develop the "HI Impact Index": web-based DELPHI consensus process

• With representatives of EU-MS public health and statistical agencies, healthcare providers, HIT developers (public and private), and patients

Additional methodological support on the DELPHI from the Euro-Peristat group.

<u>Goal:</u>

1) Identify a core set of HI criteria "*HI standards for better outcomes*" that reflect uptake of information into policy, medical care, and by patients and the population

### 2) **Domain specific items** in priority areas:

- Maternal and Child health
- Patient Reported Outcome Measures/and Experiences of Chronic Disease (PROMS/PREMS of Myocardial Infarction, and diabetes)
- Antimicrobial Resistance
- and Injury Prevention.
- Months M6-M9; D3. Data management plan D4. Scientific publications

## 3. Pilot the "HI Impact Index"

Measure associations with publicly available European health status indicators in priority health areas (Euro-Peristat Core Indicators 2004-2015, ECHI,..)

Months M9-M20; D5. HI Impact Index available on the Sciensano website.

# Focus in MSCA communication activities



• 1/The added-value of European comparative public health research

International comparisons are an opportunity to learn from one another.

Venue: European Researcher's Night (ERN), and an EC Research and Innovation event, Young Forum Gastein/Euro-Peristat newsletter.

 2/MSCA funding contributes to reducing health inequalities and genderbased inequalities:

News article on HI investments that have reduced inequalities in perinatal health.

• 3/Finally, EU research is cutting-edge and encourages citizen participation.

We will give examples from of our research of 'digital citizen science' as a driver of health.

Venue: ERN, and during MSCA Ambassadors events at a local high school/ULB

## Scoring: 7,154 proposals submitted/ 1701 proposals in Life Sciences.

### • BAHCI Total score: 94.60% , in top 10%

Each section (Excellence, Impact and Implementation) rated from 0-5

#### Excellence (4.7/5)

 "The candidate has identified an important research field and provides very good background (...)" "Gender aspects are very convincingly integrated and well thought through in terms of health differences"

#### Impact (4.8/5)

- "The expected impact of the planned research and training on the experienced researcher's career prospects after the fellowship is **ambitious and very plausible**."
- *"The new knowledge generated* by the action will be disseminated and *exploited in multiple credible strategies*. The project benefits from multiple approaches that include a *range of stakeholder groups"*

#### Implementation (4.7/5)

• "The **beneficiary's active contribution to the research and training activities** is coherent. The available infrastructure, facilities and logistics are very well suited for the success of this project.