Public Health Research Funding – The European Union

DFG Roundtable 20.-21.1.2014

Helmut Brand, Jean Monnet Professor of European Public Health
To fight general depression in the room:

Innovation is possible if the University acts!

BSc in EPH
MSc in EPH (very good job opportunities!)
PhD in EPH

Jean Monnet Chair in European Integration
WHO CC in Regional Health Policy (2014)

High societal impact
(in research and up to running the European Health Forum)

2 Past-ASPHER presidents in the room
... appropriate and cost-effective care...
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Public health services

- News
- Policy
- Activities
- Country work
- Data and statistics
- Publications
- Partners

Public health services

Life expectancy at birth in the European Region increased by 3 YEARS between 1980 and 2010

71 years
1980

76 years
2010

Public health is defined as "the art and science of preventing disease, prolonging life and promoting health through the organized efforts of society" (Acheson, 1988; WHO).

Read more
The science and art of preventing disease, prolonging life and promoting health through the organized efforts and informed choices of society, organizations, public and private, communities and individuals.
European Action Plan for Strengthening Public Health Capacities and Services

Box 1. Ten essential public health operations (EPHOs)

1. Surveillance of population health and well-being
2. Monitoring and response to health hazards and emergencies
3. Health protection including environmental, occupational, food safety and others
4. Health promotion including action to address social determinants and health inequity
5. Disease prevention, including early detection of illness
6. Assuring governance for health and well-being
7. Assuring a sufficient and competent public health workforce
8. Assuring sustainable organizational structures and financing
9. Advocacy, communication and social mobilization for health
10. Advancing public health research to inform policy and practice
Public Health (Services)

**Is “health care” in or out?**

**Germany: Definition of Public Health**

**Europe:**
- Health Mandate (limited)
- Research Mandate (not limited)
- Country specific recommendations,
- x-border directive

**Remember: Public Health has to do with Politics!**
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Reviewing Public Health Capacity in the EU

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Green line: capacities *fully developed and functioning well*
Red line: EU-average
Green line: capacities *fully developed and functioning well*
Red line: national scores
EU Funding for Research e.g.:

- **DG Sanco Health Programme**
- **Horizon 2020**
  - Innovative medicines initiative\(^1\) (IMI),
  - European and developing countries clinical trials partnership\(^2\) (EDCTP)
  - Active and assisted living programme\(^3\) (AAL).
  - European Innovation Partnership on Active and Healthy Ageing\(^4\) (EIP-AHA).
  - Erasmus+ (e.g. Jean Monnet)
  - ERC
  - COST
  - JRC
  - ESF
  - ...

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\(^1\) [http://www.imi.europa.eu/content/documents#horizon_2020](http://www.imi.europa.eu/content/documents#horizon_2020)
\(^2\) [http://www.edctp.org/Towards_EDCTP2.799.0.html](http://www.edctp.org/Towards_EDCTP2.799.0.html)
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Outcome of the DG Sanco Health Programme

Applied Research

Implementation Research

November 2013 23 (suppl 2)
Public Health Innovation and Research in Europe

Introduction

Public Health Innovation and Research in Europe: introduction to the supplement
M. McCarthy and D. Zeegers Paget

PHIRE (Public Health Innovation and Research in Europe): methods, structures and evaluation
F. Barnhoorn, M. McCarthy, W. Devillé, K. Alexanderson, M. Voss and C. Conceição

Civil society engagement in innovation and research through the European Public Health Association

Tracking uptake of innovations from the European Union Public Health Programme
M. Voss, K. Alexanderson and M. McCarthy

Impact of innovations in national public health markets in Europe
M. McCarthy, K. Alexanderson, M. Voss, C. Conceição, O. Grimaud, L. Narkauskaitė, Z. Katreniakova, A. Saliba and M. Sammut

Programmes and calls for public health research in European countries
C. Conceição, O. Grimaud, M. McCarthy, F. Barnhoorn, M. Sammut, A. Saliba, Z. Katreniakova and L. Narkauskaitė

Strategies for public health research in European Union countries
O. Grimaud, M. McCarthy and C. Conceição

Competitive funding and structures for public health research in European countries
M. McCarthy, C. Conceição, O. Grimaud, Z. Katreniakova, A. Saliba, M. Sammut and L. Narkauskaitė

National action for European public health research
M. McCarthy, D. Zeegers Paget and F. Barnhoorn
Health systems and policy research in Europe: Horizon 2020

Europe is a natural laboratory for learning about health policies and health systems. With diverse systems to finance, provide, and govern health care across the 27 member states of the European Union and the wider European region there are many opportunities transferred to individuals and families through out-of-pocket payments, with the greatest health effects on the least wealthy.3,4 Equally seriously, the wider health effects of the worst European recession in living memory are likely to be profound and protracted, especially in

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Preparation of Horizon 2020:

Independent Expert Group on the Future of European Public Health Research

Workshops of DG Research on Public Health Challenges and Public Health Research at the European Health Forum Gastein
Independent Expert Group on the Future of European Public Health Research

1: What should the future thematic priorities within Horizon 2020 be?

2: How to better structure European public health research in the future?

3: How to develop stronger links and synergies between national research activities and policy agendas and EU funded research?

4: How to improve the uptake of evidence generated from public health research in development of public health policy?


Recommendations:

EU “added value”:
- clearly demonstrate a potential for translation and policy uptake to benefit the health of EU citizens and
- would not necessarily be funded by national agencies.

Health Promotion:
- barriers to the adoption of healthy lifestyles, and
- use this understanding to develop innovative interventions.

Disease Prevention:
- cutting-edge research on the causes and management of disease
- ‘deprogramming’ of interventions that now are known to be ineffective or too costly compared to other solutions.

Health Services Research:
- innovations that improve the humanity, quality, safety and efficiency of care and
- encourage a shift towards prevention

Health Policy:
- focus on the major policy challenges for public health in the coming decades.
Dedicated funding for:
- methodological aspects of public health research and
- research on knowledge translation.

We need more research into ‘what works’ rather than research that confirms the existence of well-established problems.

Overcome uncoordinated nature of current project funding by:
- support of Research Networks to achieve incremental progress on a small number of priority themes over the period 2014-2020.
- be coordinated by a new Board for Public Health Research.

General issues:
- Present to the European Parliament and the Health Council a new EU health and health research strategy identifying common public health challenges and responses across the member states.
- Inform academia, policy makers and the general public of its public health research funding activities through an appropriate communication strategy.
- Improve the extent to which its research is translated into practice.
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Personalising health and care

Understanding health, ageing and disease
PHC 1 – 2014: Understanding health, ageing and disease: determinants, risk factors and pathways
PHC 2 – 2015: Understanding diseases: systems medicine
PHC 3 - 2015: Understanding common mechanisms of diseases and their relevance in co-morbidities

Effective health promotion, disease prevention, preparedness and screening
PHC 4 – 2015: Health promotion and disease prevention: improved inter-sector co-operation for environment and health based interventions
PHC 5 – 2014: Health promotion and disease prevention: translating ‘omics’ into stratified approaches
PHC 6 – 2014: Evaluating existing screening and prevention programmes
PHC 7 – 2014: Improving the control of infectious epidemics and foodborne outbreaks through rapid identification of pathogens
PHC 8 – 2014: Vaccine development for poverty-related and neglected infectious diseases: Tuberculosis

Improving diagnosis
PHC 11 – 2015: Development of new diagnostic tools and technologies: in vivo medical imaging technologies
PHC 12 – 2014/2015: Clinical research for the validation of biomarkers and/or diagnostic medical devices

Innovative treatments and technologies
PHC 13 – 2014: New therapies for chronic non-communicable diseases
PHC 14 – 2015: New therapies for rare diseases
PHC 15 – 2014/2015: Clinical research on regenerative medicine
PHC 16 – 2015: Tools and technologies for advanced therapies
PHC 17 – 2014: Comparing the effectiveness of existing healthcare interventions in the elderly
PHC 18 – 2015: Establishing effectiveness of health care interventions in the paediatric population
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Advancing active and healthy ageing
PHC 19 – 2014: Advancing active and healthy ageing with ICT: Service robotics within assisted living environments
PHC 20 – 2014: Advancing active and healthy ageing with ICT: ICT solutions for independent living with cognitive impairment
PHC 21 – 2015: Advancing active and healthy ageing with ICT: Early risk detection and intervention
PHC 22 – 2015: Promoting mental wellbeing in the ageing population

Integrated, sustainable, citizen-centred care
PHC 23 – 2014: Developing and comparing new models for safe and efficient, prevention oriented health and care systems
PHC 24 – 2015: Piloting personalised medicine in health and care systems
PHC 25 – 2015: Advanced ICT systems and services for Integrated Care
PHC 26 – 2014: Self-management of health and disease: citizen engagement and mHealth
PHC 27 – 2015: Self-management of health and disease and patient empowerment supported by ICT
PHC 28 – 2015: Self-management of health and disease and decision support systems based on predictive computer modelling used by the patient him or herself
PHC 29 – 2015: Public procurement of innovative eHealth services

Improving health information, data exploitation and providing an evidence base for health policies and regulation
PHC 30 – 2015: Digital representation of health data to improve disease diagnosis and treatment
PHC 31 – 2014: Foresight for health policy development and regulation
PHC 32 – 2014: Advancing bioinformatics to meet biomedical and clinical needs
PHC 33 – 2015: New approaches to improve predictive human safety testing
PHC 34 – 2014: eHealth interoperability
Co-ordination activities

HCO 1 – 2014: Support for the European Innovation Partnership on Active and Healthy Ageing
HCO 2 – 2014: Joint Programming: Coordination Action for the Joint Programming Initiative (JPI) "More Years, Better Lives - the Challenges and Opportunities of Demographic Change"
HCO 3 – 2015: Support for the European Reference Networks: Efficient network modelling and validation
HCO 4 – 2014: Support for international infectious disease preparedness research
HCO 5 – 2014: Global Alliance for Chronic Diseases: prevention and treatment of type 2 diabetes
HCO 6 – 2015: Global Alliance for Chronic Diseases: 2015 priority
HCO 7 – 2014: ERA-NET: Establishing synergies between the Joint Programming on Neurodegenerative Diseases Research and Horizon 2020
HCO 8 – 2014: ERA-NET: Aligning national/regional translational cancer research programmes and activities
HCO 9 – 2014: ERA-NET: Systems medicine to address clinical needs
HCO 10 – 2014: ERA NET: Rare Disease research implementing IRDiRC objectives
HCO 11 – 2015: ERA-NET: Collaboration and alignment of national programmes and activities in the area of brain-related diseases and disorders of the nervous system
HCO 12 – 2015: ERA-NET: Antimicrobial Resistance
HCO 13 – 2015: ERA-NET: Cardiovascular disease
HCO 14 – 2014: Bridging the divide in European health research and innovation
HCO 15 – 2014: Mobilisation and mutual learning action plan
HCO 16 – 2014: National Contact Points
Other actions
HOA 1 – 2014/2015: Subscription fee: Human Frontier Science Programme Organisation
HOA 2 – 2014/2015: Tenders for programme evaluation, studies and impact assessment and for conferences, events and outreach activities
HOA 3 – 2014/2015: Presidency events – eHealth
HOA 4 – 2014/15: Independent experts assisting in proposal evaluations and project reviews
HOA 5 – 2014: Grant to the Global Alliance for Chronic Diseases
HOA 6 – 2014: Stem cell research outreach
HOA 7 – 2015: eHealth Sectoral Inducement Prize
HOA 8 – 2015: Inducement prize

Budget 1.21 billion Euro for 2014/2015
Thank you and see you in Europe

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