

From evidence to action in health policy making: a mission impossible?

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Agenda

- The changing health landscape
- A perfect storm?
- Possible actions
- Opportunities and challenges
- Final remarks

Common challenges

People live longer and have less children.

People migrate within and between countries, cities grow bigger.

Non communicable diseases dominate the disease burden.

Depression and heart disease are leading causes to healthy life years lost.

Infectious diseases, such as HIV, tuberculosis remain a challenge to control.

Antibioticresistant organisms are emerging. Health systems face rising costs.

Primary health care systems are weak and lack preventive services.

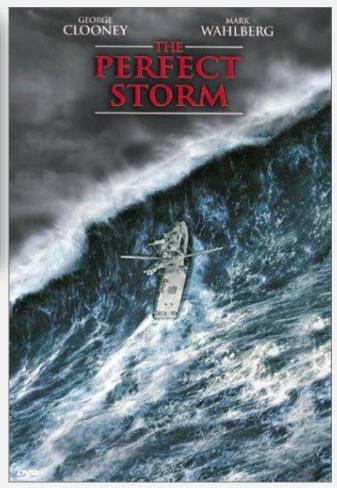
Public health capacities are outdated.

The changing health systems landscape is preparing for the "perfect storm"

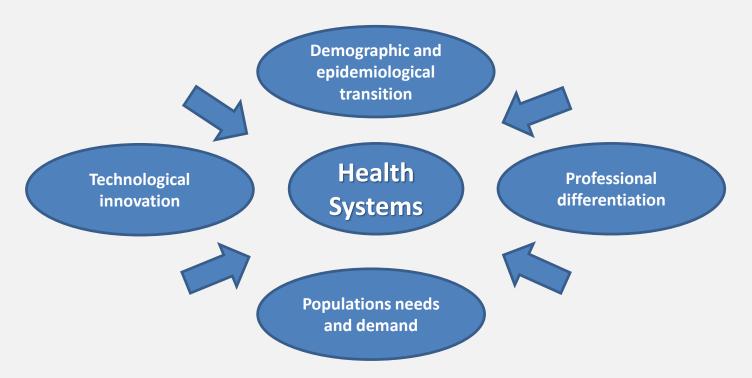


A "perfect storm" is an expression that describes an event where a rare combination of circumstances will aggravate a situation drastically.

The term is also used to describe an actual phenomenon that happens to occur in such a confluence, resulting in an event of unusual magnitude.

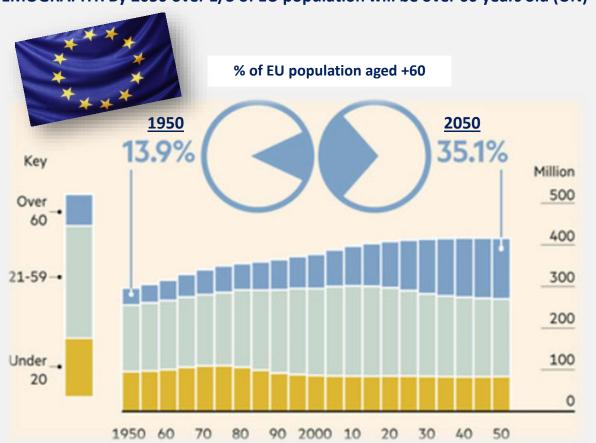


The waves of demand and supply



Demand

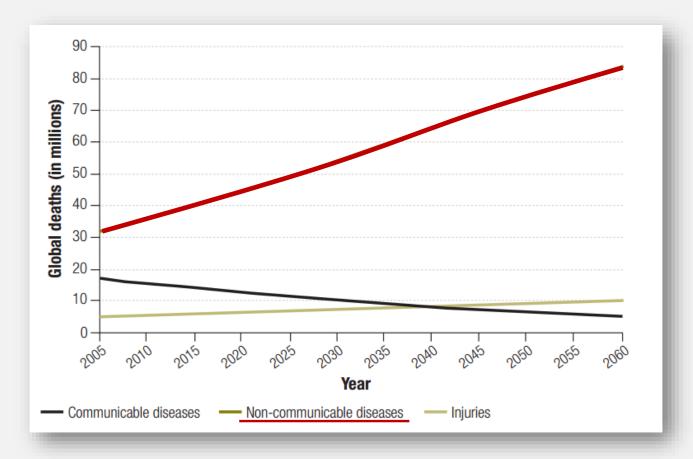
DEMOGRAPHY: By 2050 over 1/3 of EU population will be over 60 years old (UN)







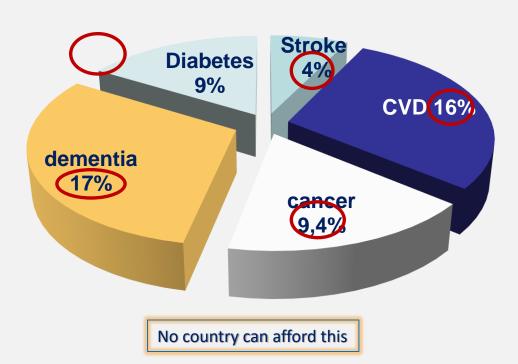
Chronic diseases



Chronic conditions and economic burden

It has been estimated that the commonest chronic conditions are costing the EU countries more than 1 trillion Euros per year, which is expected to increase to 6 trillion Euros by the middle of the century.

In UK the cost of chronic conditions such as stroke, heart diseases, diabetes, cancer and dementia pile up to over 50% of total healthcare expenditure.



Technological supply

Doctors' views: greatest innovations of the second healthcare revolution

- MRI and CT scanning
- ACE inhibitors
- Balloon angioplasty
- Statins
- Mammography
- Coronary artery bypass graft surgery
- Proton pump inhibitors and H2 blockers
- SSRIs and recent non-SSRI antidepressants

- Cataract extraction and lens implants
- Hip and knee replacement
- Ultrasonography
- Gastrointestinal endoscopy
- Inhaled steroids for asthma
- Laparoscopic surgery
- Non steroidal antiinflammatory drugs
- Cardiac enzymes

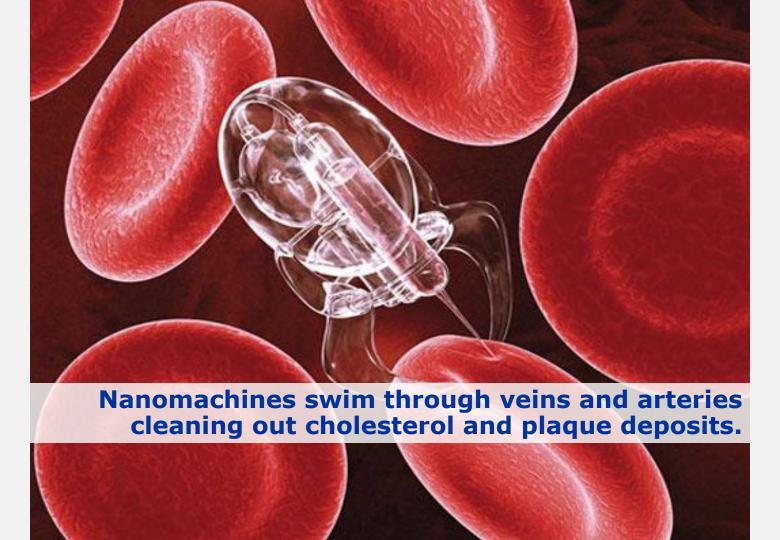


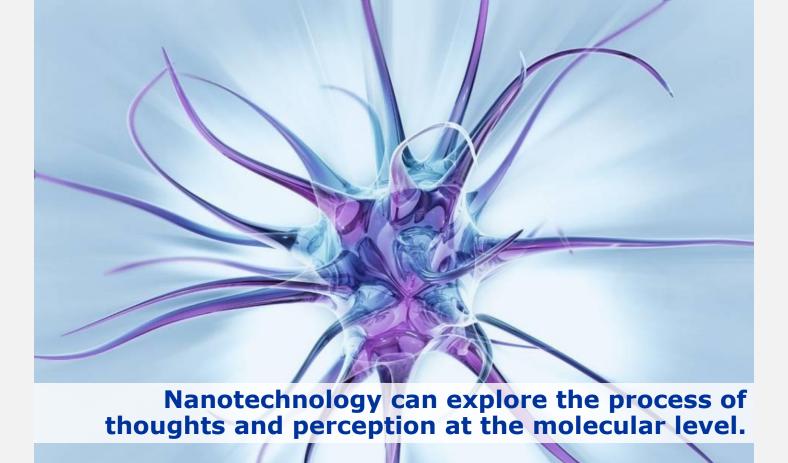






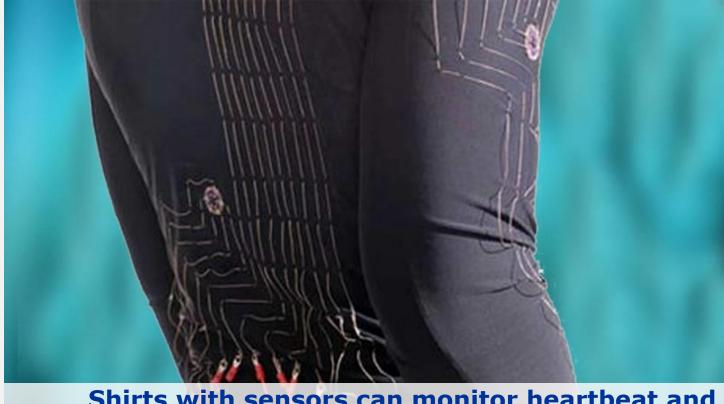








Neural implants can counteract Parkinson's disease and tremors from multiple sclerosis.

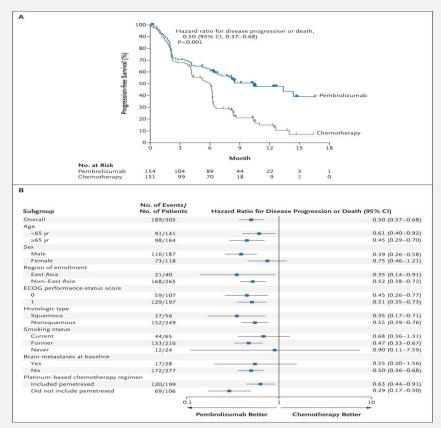


Shirts with sensors can monitor heartbeat and other vital signs directly to a doctor.



Generation of new approaches in psychology, in the design of new drugs and in the treatment of pain.

Pembrolizumab: Progression-free Survival in the Intention-to-Treat Population.



Reck M et al. N Engl J Med 2016;375:1823-1833



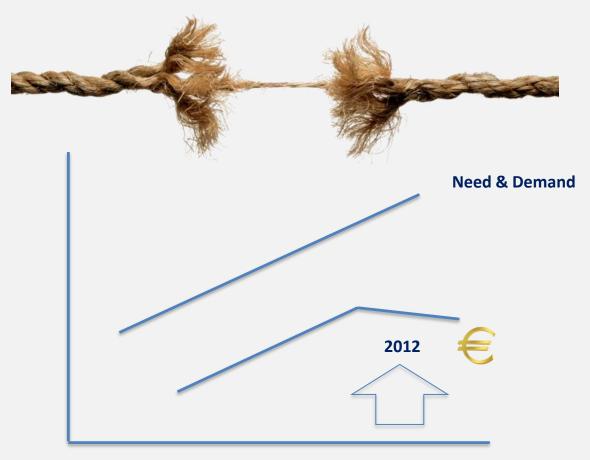
Regimen Cost (80 kg patient)

Regimen	Cost of Nivolumab	Cost of Ipilimumab	Cost of Regimen
Nivo+ lpi for 11.5 m	\$144,408	\$151,158	\$295,566
Nivo for 6.9 m	\$103,220	\$0	\$103,220
Ipilimumab for 2.9 m	\$0	\$158,252	\$158,252





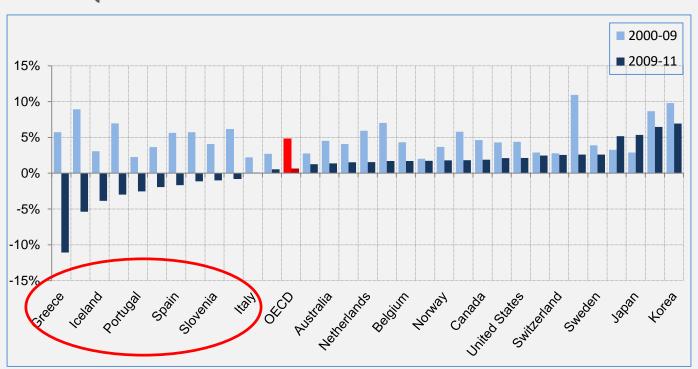
Financial constraints





Health spending

Average annual growth in health spending in real terms

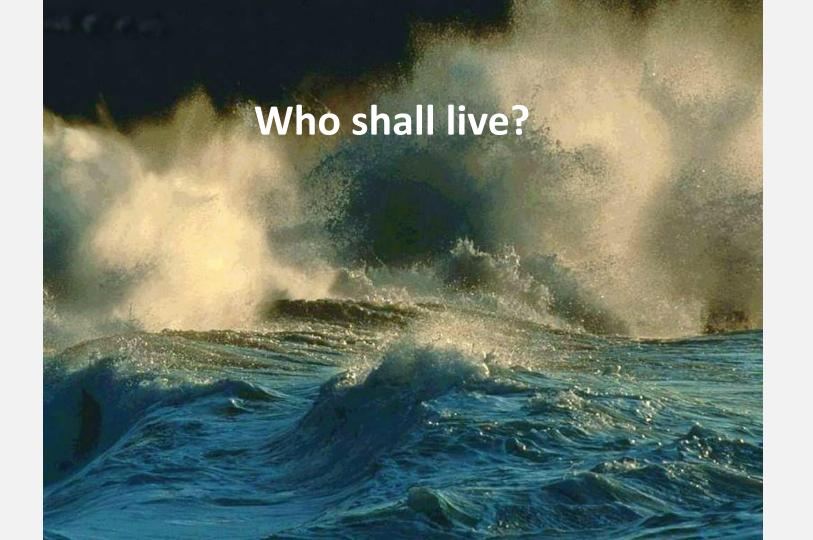


Conclusion

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- Substantial fiscal challenge from rising health care costs over the longer term.
- Significant population ageing expected
- Non-demographic pressures likely to continue raising health spending
- Sensitivity analysis vital given the scale of uncertainty
- Long-term outlook unsustainable without policy change.

NHS trusts end-of-year financial results £ millions 1,000 500 -500 -1,000 -1,500-2,000 -2,5002009-10 2010-11 2011-12 2012-13 2013-14 2014-15 Q1 to Q3 2015-16





Health Sustainability

"There are two kinds of problems in life.

Big ones and small ones.

The small ones money can solve.

The big ones money cannot solve"

Will Roberts

The times they are a changing

- Changes in *information technologies* (electronic medical record, e-health capacities, tablet-based patient management, centralized Big Data)
- Changes in *citizen expectations* (choice of provider, equal and rapid access, privacy)
- Changes in *patient expectations* (participation in decision-making, second opinions, international quality standards, patient rights)
- Changes in *payment systems* (public and private): casebased payment, penalties for poor outcomes (readmission, re-treatment), volume based contracting
- Changes in *provider configuration* (consolidating hospitals and services, integrating health and social care)

20 th CENTURY HEALTHCARE	21 ST CENTURY HEALTHCARE	
Doctor centred	Patient centred	
Patient as passive complier	Patient as co-producer	
Hospital	System	
Bureaucracy	Network	
Driven by finance	Driven by knowledge	
High carbon	Low carbon	
Focussed on effectiveness	Focussed on value and waste	
Challenges met by growth	Challenges met by transformation	

J.A. Gray, W. Ricciardi Better value health care, 2008

European White Paper on Healthcare Sustainability

Healthcare systems need to be reorganized, and sustainability framework represents a prominent option to guide new policies, plans and programs





Only Evidence-based decision making can fix it

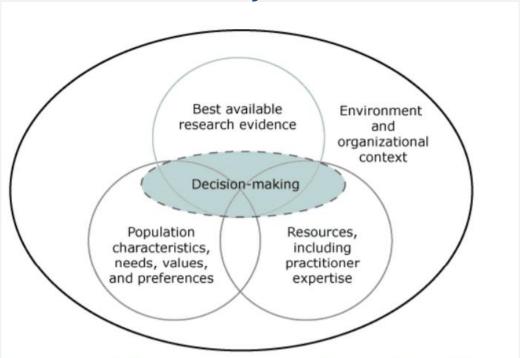


Figure. Domains that influence evidence-based decision making. Source: Satterfield JM et al (2).



2017 IANPHI Annual Meeting
Public Health Institutes of the World

IANPH

IANP

Proposal for IANPHI (from TO REACH)

a coordination and support action aimed at producing research evidence supporting health care services and systems to become more resilient, effective, equitable, accessible, sustainable and comprehensive

OBJECTIVES

- To produce a Strategic Research Agenda
- To broaden the coalition of committed institutions
- To design an efficient "structure"

identifying metaquestions, themes and policy areas

- Effects of health care reforms on major health outcomes, such as changing the funding of health insurance or privatisation of care.
- Understanding the optimal relationship between hospital care and primary care and community care
- Ensuring service provision that is safer, of higher quality, and more patientcentred
- New approaches to health technology assessment and to the economic and organisational consequences of introducing health technologies.
- Effectiveness and efficiency of performance indicators and their linkage to other governance policies.
- Exploring the reasons (and suggest the solutions) for the existing disparities and inequalities in health care provision.
- Implementing biomedical innovation in health services and systems

The consortium 10th EPH PUBLIC HEALTH CONFERENCE



Europe



28 partners **20** countries

US and Canada



Israel



The TO-REACH consortium

Chaired by Prof Walter Ricciardi, President of the Istituto Superiore di Sanità), the EU-funded TO-REACH project consists of 27 partners, clustered around three main types:

- At the core are Ministerial and funding bodies from 15 EU Member States and 5 non-EU countries, all seeking to
 fund research that has the potential to change how care is being provided in the near or distant future.
 - a. the Istituto Superiore di Sanità (the Italian National Institute of Health), coordinator,
 - b.
 - Agenas, national Agency for regional health services, Italy;
 - d. ZonMw (Netherlands Organisation for Health Research & Development), the Netherlands;
 - e. Austrian Public Health Institute (GÖG), Austria
 - f. Academy of Finland, Finland;

Ministero della Salute, Italy

- g. IReSP/ITMO santé publique, France;
- h. Health Research Board, Ireland;
- . Latvian Council of Science, Latvia;
- Research Council of Norway, Norway;

 Foundation for Science and Technology (FCT) Portugal;
- National Institute of Public Health, Slovenia;
- m. Forte, Swedish Research Council for Health, Working Life and Welfare, Sweden;
- . Federal Office of Public Health (FOPH), Switzerland;
- b. Health and Care Research Wales, UK:
- p. Regional Agency for Public Health and Social Well-being (PHA) HSCNI, Northern Ireland UK;
- . CIHR Institute of HSPR, Canada;
- r. Israeli Ministry of Health, Israel;
- s. Agency for Healthcare Research and Quality (AHRQ), United States.
- National research organisations, able to identify methodological guidance for a future research programme and mapping shared priority areas between countries and stakeholders in those countries.
 - a. NIVEL, Netherlands organisation for health services research, the Netherlands;
 - b. National Institute for Health and Welfare (THL), Finland;
 - c. University of Riga (RSU), Latvia;
 - d. University of Malta (UoM), Malta;
 - e. Babes-Bolvai University (UBBCU), Romania:
 - f. Catholic University of Sacred Heart (UCSC), Italy.
- European level bodies, able to contribute to part of the scientific preparations as well as well-positioned to identify fellow bodies and initiatives which require alignment.
 - a. European Observatory on Health Systems and Policies;
 - b. European Health Management Association (EHMA);
 - c. European Public Health Association (EUPHA).



to-reach



...the beginning



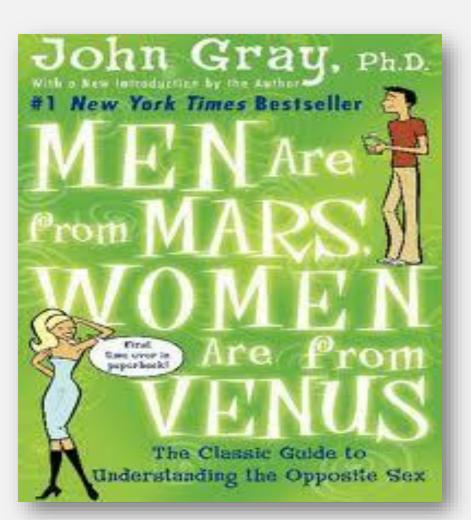








Born to identify the European Health Care common challenges and organizational needs, and to propose possible solutions to improve health system performance and to identify the most effective ways to organize, manage, finance, and deliver high quality, sustainable, and equitable care to our citizens.





Loved Voted Elected Power

Botticelli, Florence

We all know what to do, what we don't know is how to win the elections afterwards.



Jean-Claude Juncker



Evidence
Science
Transparency
Accountability



Mars: I don't like you, and I ignore you

Padovanino, Venice



Mars: I don't like you but I need you



Mars: I am depressed, she doesn't like my wonderful muscles... publications!)

Velazquez, Madrid



Botticelli, Florence

Venus: he is sleeping!

He must be a public health researcher!

Conclusion

- Countries are all experiencing challenges in delivering sustainable health care.
- Health system research has been demonstrated to provide valuable insight for Countries, which has facilitated discernable service improvements and improved efficiency.
- However, to date there has been only limited levels of scientifically grounded comparative health system research and analysis.
- Interpretation and adoption based upon comparative assessment is not as simple as 'copy and paste', hence the value of establishing a framework for undertaking such research
- You need good and brave health services and systems researchers

The future is not a destination like Rome or Taormina waiting for our arrival





it is something like a beautiful bridge that we have to imagine, plan and build





and together science and politics can do it better



Mars and Venus in love and harmony, Pompei







Because you don't know where you are, you don't know where you are going and you are blaming me for all this mess..

Thanks for your attention