Health Technology Assessment: Role in technology development & use

Fiona A. Miller, PhD

Associate Professor of Health Policy, IHPME

Director, Division of Health Policy & Ethics, THETA

Health Loss & Health Aging,
IOM-NRC Workshop
Washington, DC
January 14, 2014

Institute of Health Policy, Management & Evaluation
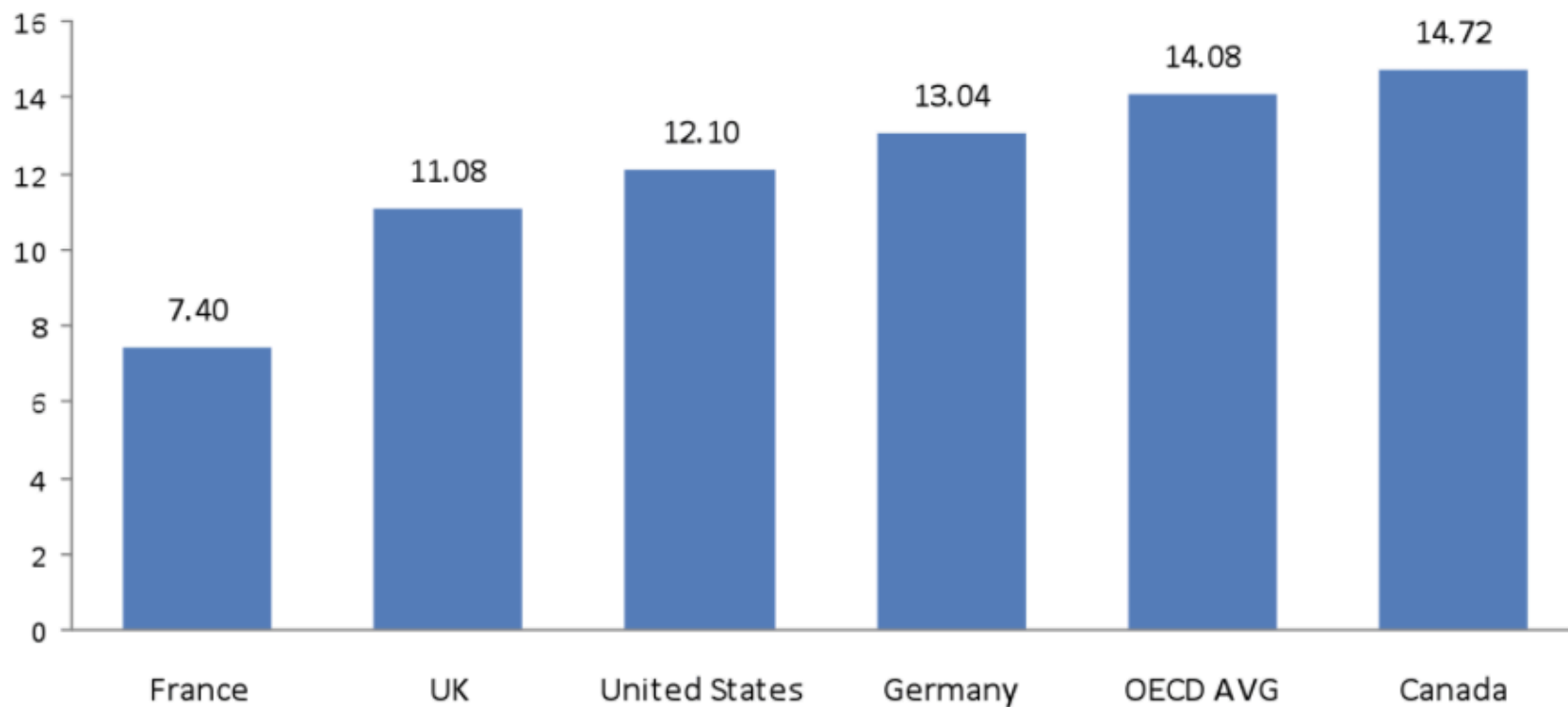UNIVERSITY OF TORONTO

theta
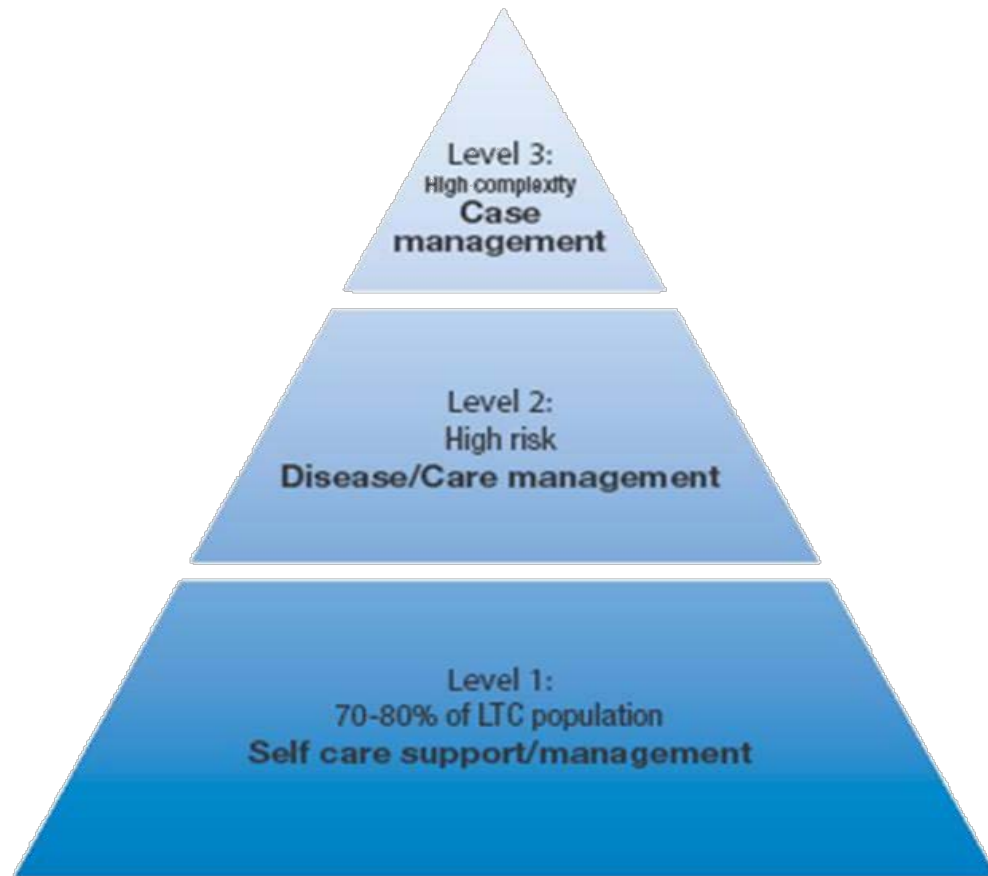Toronto Health Economics and
Technology Assessment Collaborative

"Explore innovative hearing technologies, and barriers to their development and use"

- Health Technology Assessment (HTA) – barrier & facilitator
  - Applied policy analysis to support decisions about payment for health technologies (including drugs, devices, diagnostics, procedures, etc..)
    - Evidence-informed
    - Value-laden

  → Plays important and growing role in determining use
  → Increasingly organized to support technology development

Institute of Health Policy, Management & Evaluation
UNIVERSITY OF TORONTO

theta
Toronto Health Economics and
Technology Assessment Collaborative

Out-of-Pocket Spending as a Percentage of Total Health Expenditures, Select Countries, 2008

Kaiser Permanente Triangle
Source: UK Department of Health (2005)

HTA
INFLUENCING USE

HTA

- Multidisciplinary field of applied policy analysis
  - Emerged in US
  - Well developed internationally
  - International Network of Agencies for HTA (INAHTA) now includes 57 member agencies from 32 countries
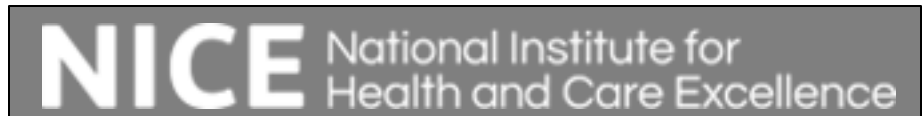
COMMENTARY

Newly Approved Does Not Always Mean New and Improved

Geoffrey M. An...
David Juurlink,
Allan S. Detsky,

HT Regulation:

- Is it safe to have this technology on the market – at least for a specific class of patients?
- Does it – in theory – do what it claims to do?

HT Assessment:

- Is it safe and at least as good as alternatives – in the real world?
- Is it worthwhile to invest in this technology?

Institute
UNIVERSITY OF TORONTO

theta
Toronto Health Economics and
Technology Assessment Collaborative

HTA: Variable role in healthcare systems

- Detached from coverage
  - CADTH
  - Many European HTA agencies

- Directly informing coverage (eg, baskets of insured goods)
  - NICE, UK
  - OHTAC, CED, Ontario, Canada

- Directly informing priority setting (eg, services provided in closed budget environments)
  - Hospital/ regional-based HTA

Institute of Health Policy, Management & Evaluation
UNIVERSITY OF TORONTO

theta
Toronto Health Economics and
Technology Assessment Collaborative

Doing HTA

Clinical evidence

- Safety & efficacy
- Real world effectiveness
- Comparative effectiveness

Institute of Health Policy, Management & Evaluation
UNIVERSITY OF TORONTO

theta
Toronto Health Economics and
Technology Assessment Collaborative

Doing HTA

Clinical evidence
- Safety & efficacy
- Real world effectiveness
- Comparative effectiveness

Economic evidence
- Value for money (cost utility, value-based pricing)
- Budget impact/ affordability

Institute of Health Policy, Management & Evaluation
UNIVERSITY OF TORONTO

theta
Toronto Health Economics and
Technology Assessment Collaborative

Doing HTA

Clinical evidence
- Safety & efficacy
- Real world effectiveness
- Comparative effectiveness

Economic evidence
- Value for money (cost utility, value-based pricing)
- Budget impact/ affordability

Patient & social values
- Patient preferences
- Health equity
- Accountability for reasonableness

Institute of Health Policy, Management & Evaluation
UNIVERSITY OF TORONTO

theta
Toronto Health Economics and
Technology Assessment Collaborative

HTA

INFLUENCING DEVELOPMENT

- Innovation policy
  - Increased attention to "demand side" among governments
    - Procurement chief instrument
    - Some attention to health

- Health policy
  - Health care systems as 'drivers of growth'
  - UK: NHS
    - "Accelerating adoption and diffusion"

NHS

INNOVATION
HEALTH
AND WEALTH

ACCELERATING ADOPTION AND DIFFUSION IN THE NHS

Institute of Health Policy, Management & Evaluation
UNIVERSITY OF TORONTO

theta
Toronto Health Economics and
Technology Assessment Collaborative

HTA experiments 1.

- HTA & adoption
  - NICE, UK
    - Health Technologies Adoption Programme
      - Aligned with Medical Tech Assessment
      - Support med tech industry in UK
  - OHTAC, Ontario
    - Implementation Framework
      - Health technology value chain

NICE boosts support for innovative ideas

NICE's support for hospitals wanting to adopt innovative new technologies has been given a boost as it takes on the work of the NHS Technology Adoption Centre (NTAC) in May.

With funding from NHS England, the new Health Technologies Adoption Programme (HTAP) at NICE will provide a more systematic approach to the adoption by the NHS of new technologies such as diagnostic and monitoring devices, surgical implants and other technologies that improve the care given to patients.

Despite the often considerable potential of these new technologies to improve patient health and increase NHS productivity, there is concern that the benefits are not made available to patients quickly enough. The government's Innovation Health and Wealth report in 2011 recommended the transfer of the NHS Technology Adoption Centre to NICE in an effort to improve uptake.

NICE's new programme will work in a similar way to NTAC, engaging with front-line clinicians, managers and procurement specialists in hospitals, clinical commissioning groups and community services to enable them to better understand and overcome the barriers to adoption.

The team of five have already been working closely with NICE's Medical Technologies Programme, supporting the implementation of products that have been evaluated by NICE. By moving into the

Implementation Subcommittee

Report on the Gap between Evidence and Uptake

HTA experiments 2.

- HTA & harmonization
  - Exploring harmonization of regulatory and HTA requirements

  - Exploring consistency/ clarity on HTA/ coverage requirements

International Journal of Technology Assessment in Health Care, 27:3 (2011), 253–260.
© Cambridge University Press 2011
doi:10.1017/S0266462311000262

POLICIES

Interactions between health

Green Park Collaborative
A partnership for innovation and effectiveness

Home   GPC-USA   **GPC-INTL**   Get Involved   News

ALZHEIMER'S DISEASE PILOT

The Green Park Collaborative (GPC) is an international initiative exploring the scientific and procedural feasibility of developing guidance for the life science industry on the design of clinical studies to meet the needs of HTA and coverage bodies. The outputs of the pilot include an Evidence Guidance Document on Alzheimer's Disease, and an evaluation of the pilot process. The prototype guidance document is not intended to represent consensus statements on the part of its participants, but rather demonstrate the feasibility of and inform the subsequent development of guidance beyond the pilot phase.

GPC-INTL is jointly led by:

CMTP
Center for Medical Technology Policy

HTAi
www.htai.org

Institute of Health Policy, Management & Evaluation
UNIVERSITY OF TORONTO

University of Oslo and Norwegian Knowledge Center for the Health Services

On behalf of the HTAi Policy Forum

HTA experiments 3.

- 'Early' HTA
  - "Decision-support" for industry
  - Public demand as "sophisticated customers"

  - MaRS-EXCITE, Ontario
    - Single, harmonized, pre-market, evidence-analysis and evidence-generation process

MaRS EXCITE

EXCITE enables better health technologies to get to market faster for improved health outcomes

HTA: Technology use & development

- Growing & increasingly demanding role for HTA
  - Supporting evidence-informed & value laden resource allocation decisions
  - More actively engaging with role in innovation system

- Analysis of merits of collective investments in hearing loss technologies
- Guide/incentive for development of further technological innovations relevant to hearing loss

Institute of Health Policy, Management & Evaluation
UNIVERSITY OF TORONTO

theta
Toronto Health Economics and
Technology Assessment Collaborative

Health Technology Assessment:
Role in technology development & use

FIONA A. MILLER, PHD

ASSOCIATE PROFESSOR OF HEALTH POLICY, IHPME

DIRECTOR, DIVISION OF HEALTH POLICY & ETHICS, THETA

Health Loss & Health Aging,
IOM-NRC Workshop
Washington, DC
January 14, 2014

Institute of Health Policy, Management & Evaluation
UNIVERSITY OF TORONTO

theta
Toronto Health Economics and
Technology Assessment Collaborative