

Health Technology Assessment

Alireza Mahboub Ahari
Ahari60heco@gmail.com
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Economic-Based Medicine: an Evolving Paradigm

Economists :
Choices have to be based on

The value of what society gives up when an intervention funded



the cost

The value of what society gains



the benefits

Economic-Based Medicine: an Evolving Paradigm

A **myopic focus** on benefits alone is an incomplete basis of making decisions.

what is
**clinically effective may not be
cost effective**, but **what is cost effective is always cost
effective**. Let us explore these issues.

What is Health Technology Assessment?

- ▶ Is a tool to help decision-makers.
- ▶ Is the systematic evaluation of the properties and effects of health care technology.

It aims to:

- ▶ provide structured evidence-based input to
- ▶ policymaking in order to
- ▶ Inform the formulation of safe and effective health policies.

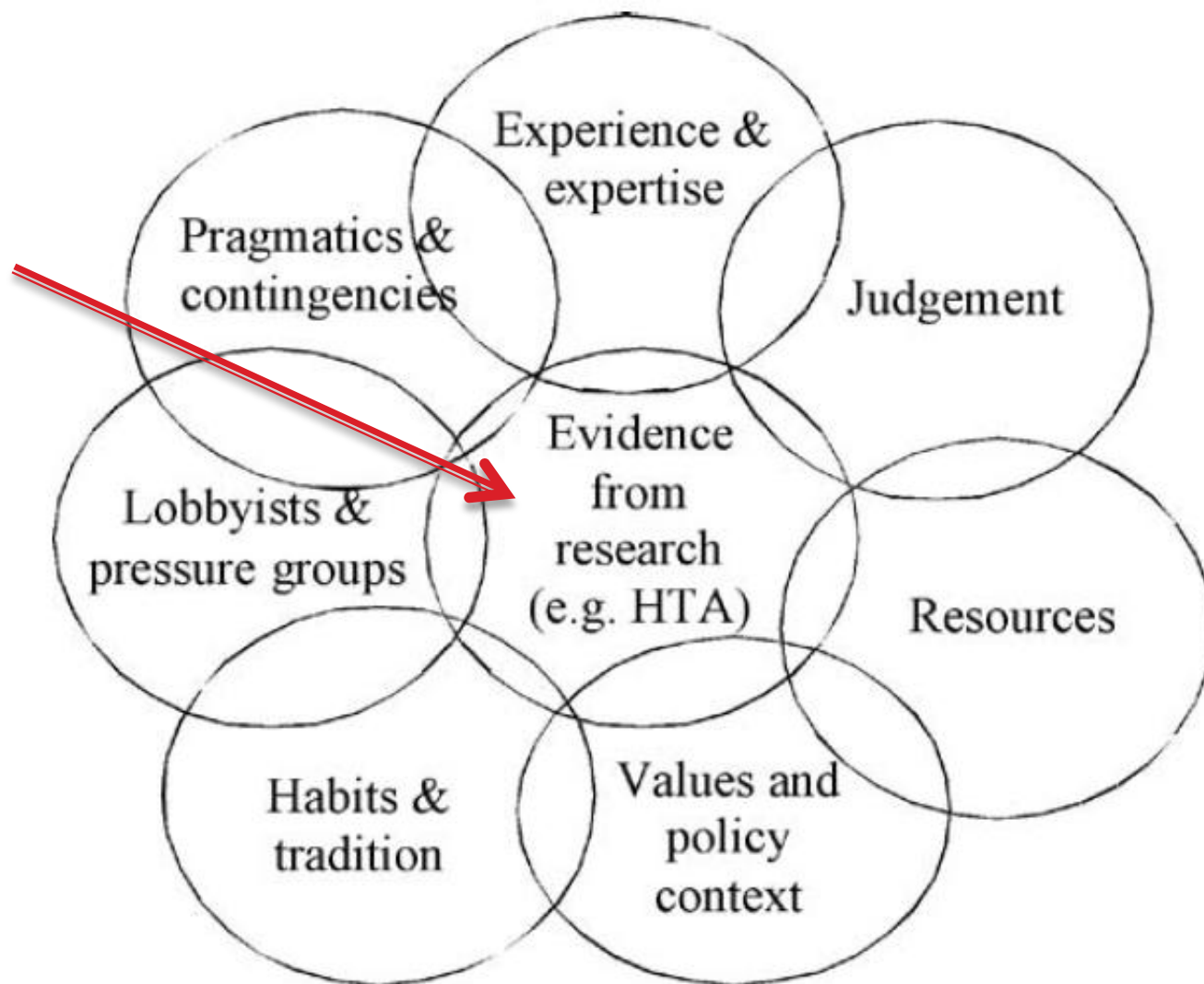
What Is The Technology

- ❖ Drugs
- ❖ Devices
- ❖ Medical and surgical procedures and
- ❖ The administrative and support systems through which health care is delivered.

Technologies are applied across the spectrum of health care

- ▶ primary prevention
- ▶ early detection of disease and of risk factors
- ▶ diagnosis
- ▶ treatment
- ▶ rehabilitation

Fig. 2.2 *Factors that influence policy-making*



Source: adapted from Davies, 2005

Components of the HTA process include

- ▶ **Comparison** of the health technology with an alternative intervention.
- ▶ **Identification and retrieval** of information on the health technology
- ▶ **Critical evaluation**
- ▶ **Synthesis** of the evaluation **findings**(bringing together different types of information and analysis)
- ▶ **Formulation of conclusions** and recommendations.
- ▶ **Dissemination**

Attributes of health technologies

Safety	Information considered by regulatory agencies and also safety issues associated with procedures and with effects of technology on overall process
Efficacy	The performance of a technology under 'ideal' conditions or conditions of best practice
Effectiveness	The performance of a technology under 'routine' conditions, for example when it has become widely distributed in a health care system
Economic impact	Costs of a technology are of immediate interest to health care budgets, but HIA will often be concerned with economic costs and benefits, and in judgments as to whether a technology is a good value for money
Equity	The extent of access to a technology
Ethical issues	The consequences of the technology for the well being and rights of those it might affect.

Iran's Medical Device Market

- ▶ The medical device market appears to have no coherent regulatory framework.
- ▶ Imports account for an estimated 97.7% of the market;
- ▶ Imports were valued at US\$591.7 million in 2009, with Germany and the Netherlands being the leading suppliers.

Iran's Medical Device Market(cont..)

- ▶ In 2010, Iran's medical device market is estimated to be worth **US\$702 million**.
- ▶ The market is projected to grow at a strong 11.1%, taking the market to **US\$1,190 million** by **2015**.
- ▶ Iranian health sector imports more than \$US **1 billion pharmaceutical products in 2011**. however the export are valued more than **US\$100million**.

HTA in Iran

- ▶ Establishment of HTA Office in Ministry of Health.
- ▶ HTA students training in MSc level.
- ▶ Health Insurance organizations focus on HTA and Economic Evaluation.
- ▶ Introducing of Pharmaco-economic techniques for Iranian society.

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*Best
Wishes*

Wishes

Best