Introducing Health Technology Assessment (HTA)

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Workshop: HTA-what do I need to know as national patient advocate

EMSP Annual and Youth Congress

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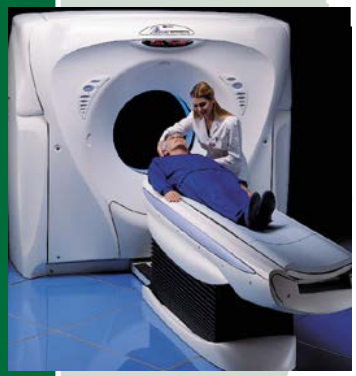
Outline

- Health Technologies (HTs): basic concepts
- What Health Technology Assessment (HTA) is?
- Basis for HTs market approval
- What is assessed in HTA?
- Basic steps of HTA
- Who is who in HTA
- What you can do to get involved

Health Technologies: Material Nature

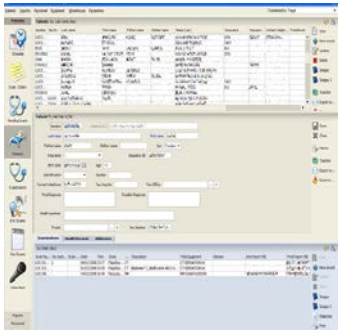
Medical Devices, equipments & supplies



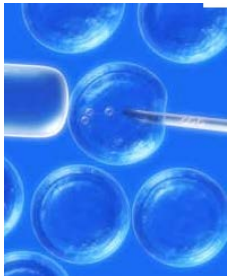
Medical/Surgical Procedures

Drugs

Support Systems



Biologics



Organizational and managerial Systems

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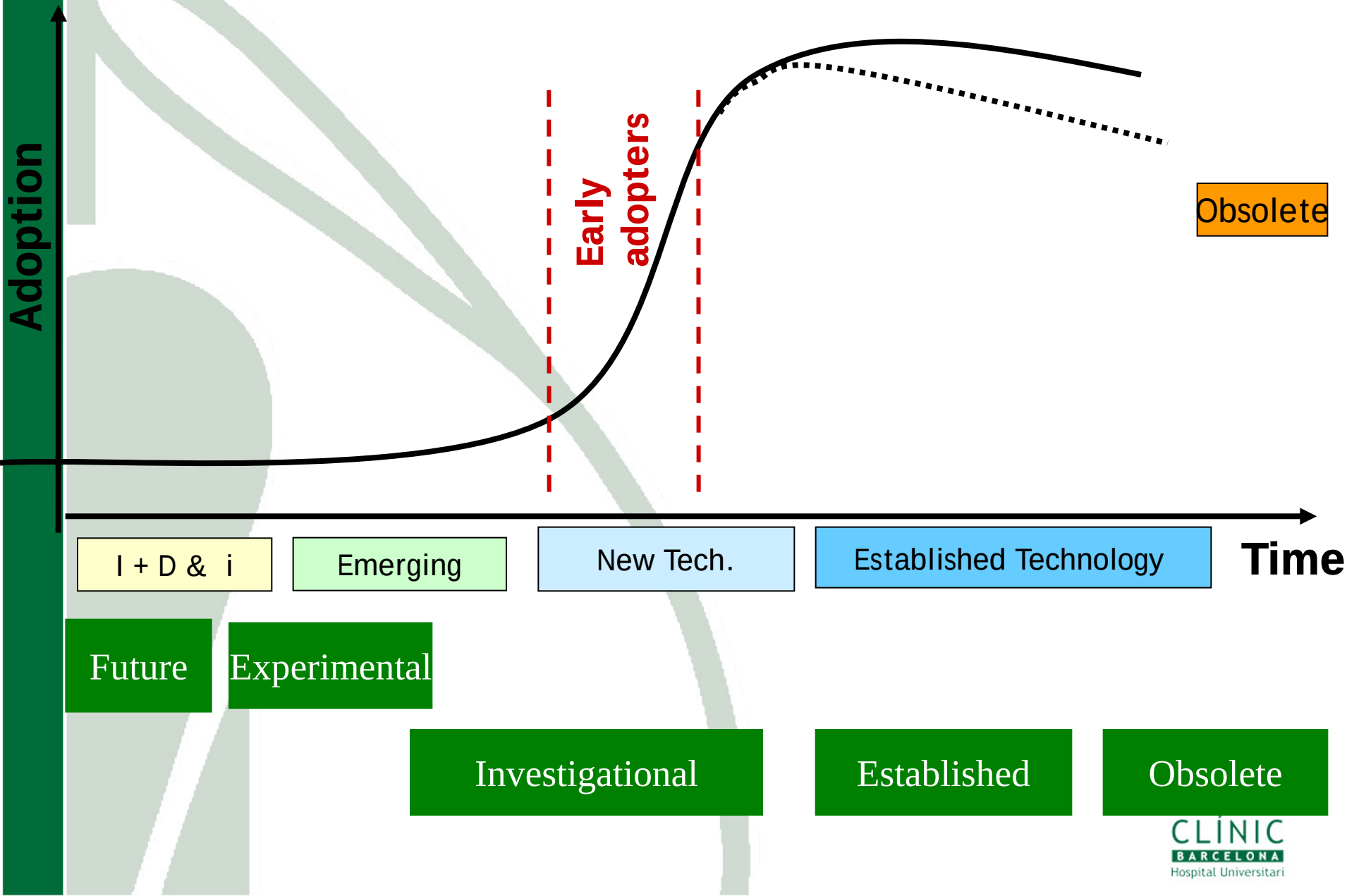
Health Technologies: Purpose or application

- ***Prevention:*** protect against disease
  - Eg. Immunization, hospital infection control program
- ***Screening:*** detect abnormality, disease or risk factor
  - Eg. Tuberculin test
- ***Diagnosis:*** identify the cause of disease
  - Eg. X-ray for possible broken bone
- ***Treatment:*** improve or maintain health status
  - Eg. Coronary artery by-pass, psychotherapy
- ***Rehabilitation:*** restore, maintain or improve disable's person function
  - Eg. Exercise program for post-stroke patients

Health Technology: Stage of Diffusion



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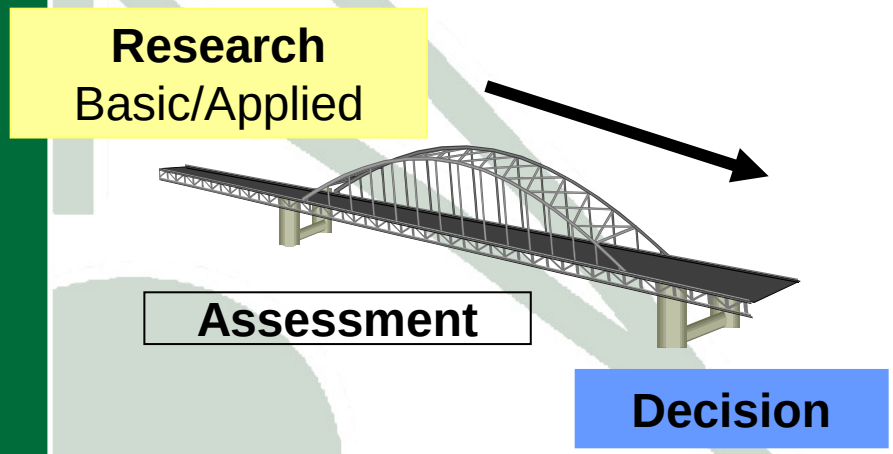
What Health Technology Assessment (HTA) is?

- It is the **research-based**, **practice-oriented assessment** of relevant available **knowledge** on the direct and intended **consequences of technologies**, as well as the indirect and unintended consequences

- The **goal** of health technology assessment is to provide **input to decision making in policy and practice**

HTAi Corporate Strategy: http://www.htai.org/index.php?id=19

What Health Technology Assessment is?



HTA deals with:

- ❖ Global scientific evidence
- ❖ Local evidence and other information

HTA approaches/orientation to HTs:

- ✓ *Technology-oriented*: Focused on specific HTs (STA)
- ✓ *Health Problem oriented:* Solutions for managing a particular problem (MTA)
- ✓ *Project-oriented*: local placement or use of a HT in a particular insitution (mini-HTA, rapid-HTA)

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Possibilities of HTA & health systems

MACRO

To Inform	**Coverage**
	Distribution and allocation resource
	Design of payment systems
	Entry Schemes mechanism
	To guide **disinvestments** decisions
To guide Scientific and Industrial Policy	
	Identification of **research gaps**.
	Info valorization & transfer

MESO

To Inform	Investments (innovation “in”)
	Research
To support	Valorization & transfer (own innovat)
	Assessment “in-time”
To teach	Decision makers

MICRO

To Feed	**CPG development**
To Support	Adequate use oh Health Technol
To Teach	Professionals & citizens
To disseminate	Mas-media, users associati

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What is the basis for HTs market approval?

Regulatory Agencies: PMA (FDA), CE Mark

Can it work?

Benefits & Risks

- "Ideal" conditions:
- Best centers
- Best doctors
- Selected patients

Source information:

Clinical evidence (RCT: Phase I, II, III)

Drugs:
Pharmacokinetics

Medical Devices:
Quality

Source information:

Technical tests

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What is assessed in HTA?

Health Technology Assessment

Regulation:
CE Mark, FDA-PMA

Can it work here?

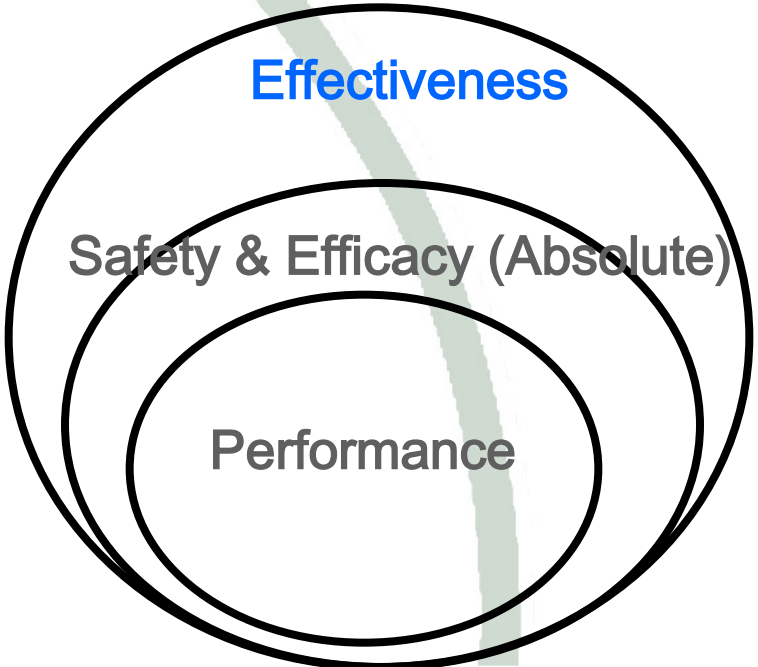
Can it work?

Benefits & Risks

- "Real" world:
- Our centers
- Our doctors
- Average patients

Comparative Effectiveness

How much better/safer?



Source information:

Global evidence: MegaTrials, non-experimental

Local evidence:

Pragmatic Trials

Country info, EHR, Registries ..

Quality of evidence

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What is assessed in HTA?

Source information:

Economic evaluation studies

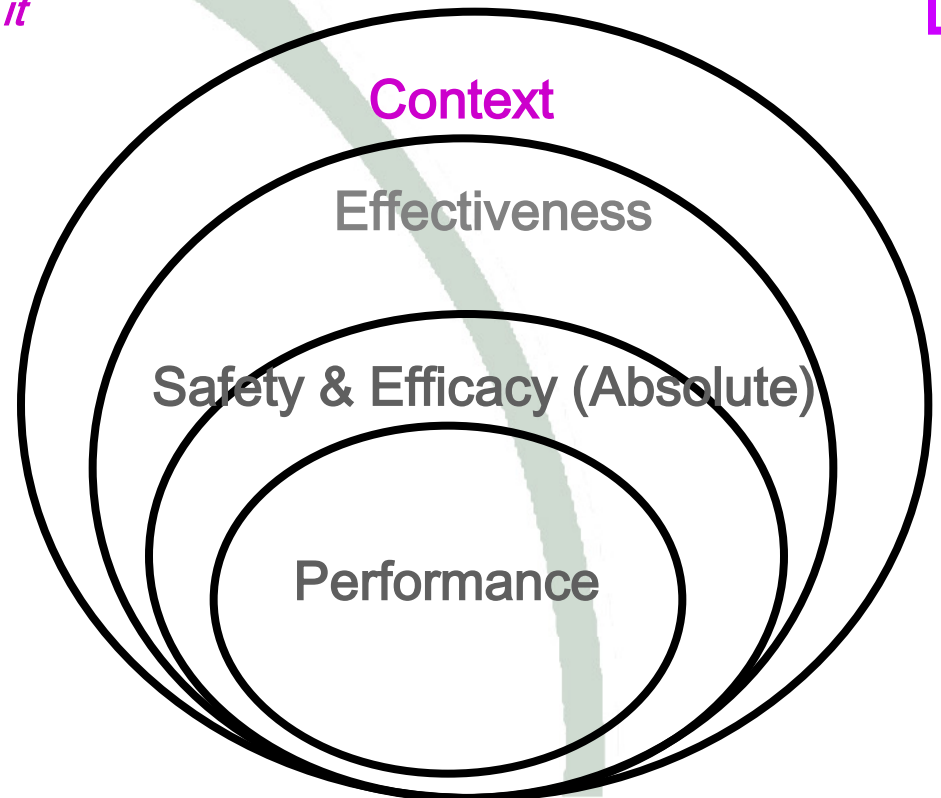
Health Technology Assessment

Should we do it here?

Can it work here?

Regulation: CE Mark, FDA-PMA

Can it work?



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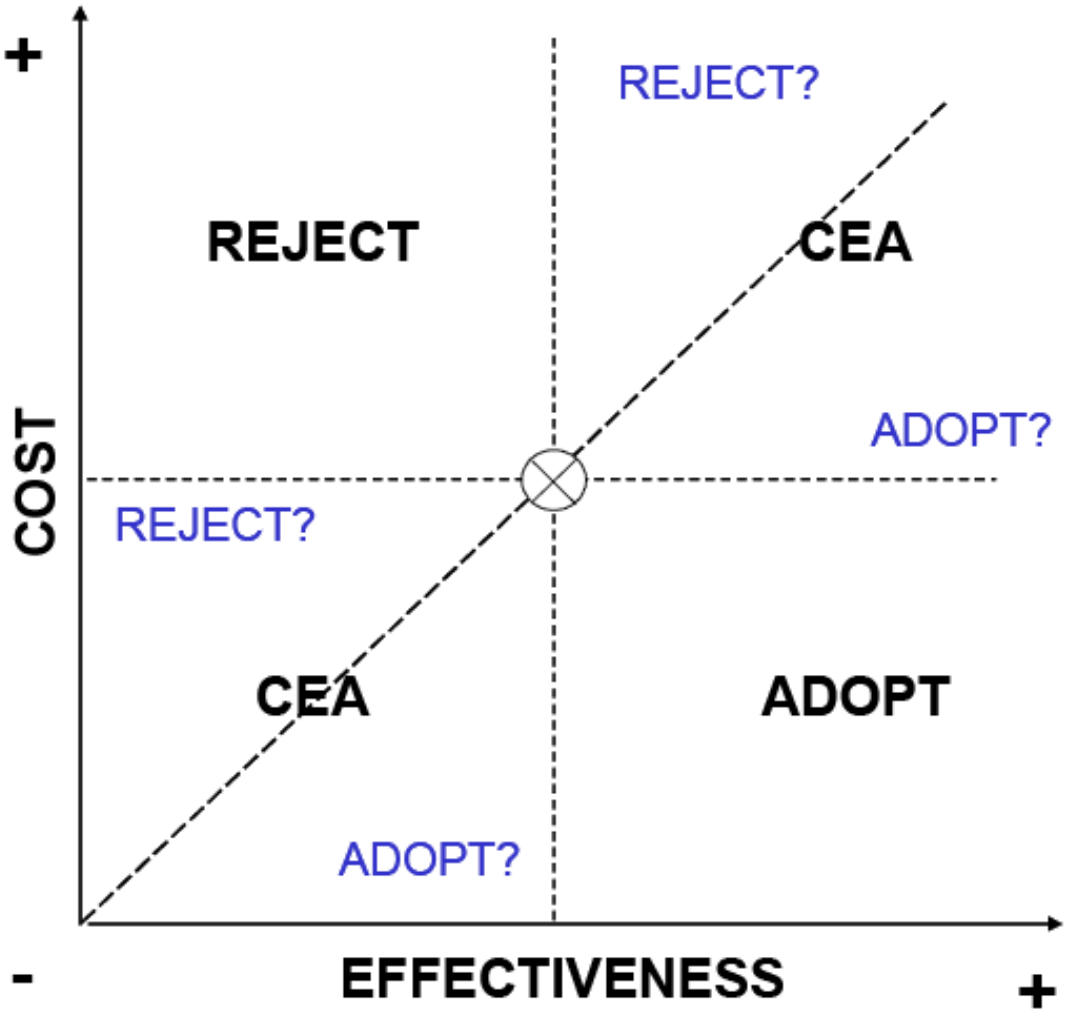
What is assessed in HTA?



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What is assessed in HTA?

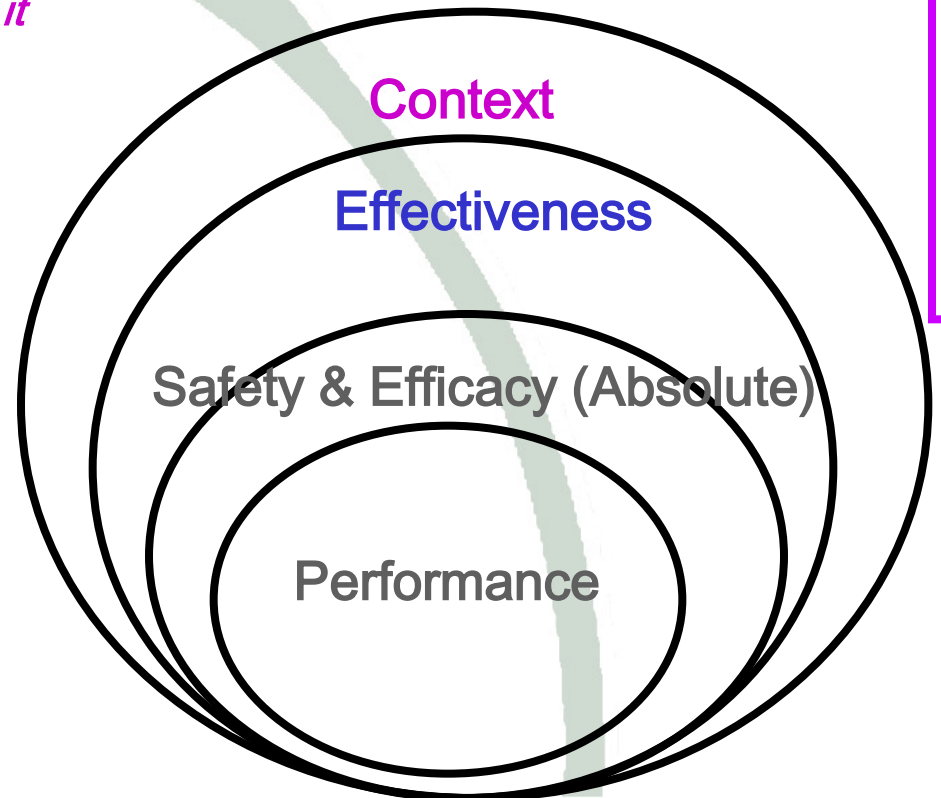
Health Technology Assessment

Regulation:
CE Mark, FDA-PMA

Should we do it here?

Can it work here?

Can it work?



Source information:

Economic evaluation studies

Budget impact

Ethical, Legal appraisal

Organizational analysis

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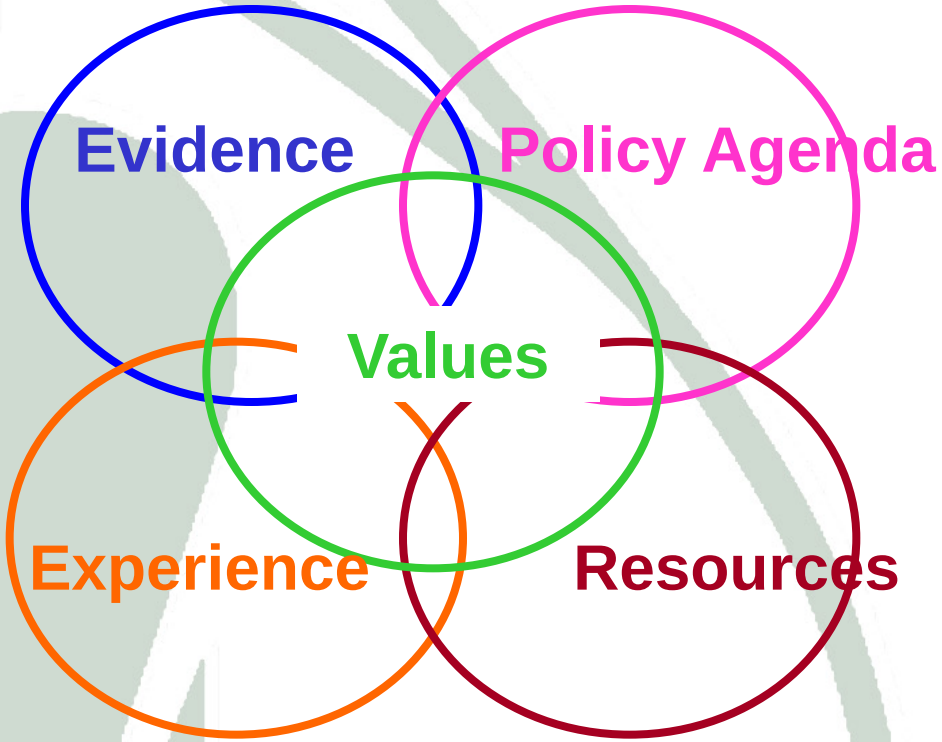
Basic steps of HTA

1. Identify assessment topics
2. Specify the assessment problem (definition of policy question)
3. Determine the scope of the assessment
4. Search and retrieve evidence
    1. Appraise/interpret evidence (Quality!)
    2. Integrate/synthesize evidence
    3. Collect new primary data (as appropriate)
5. Formulate findings and recommendations
    1. +/- Appraisal
6. Disseminate findings and recommendations
7. Monitor impact

Why are different HTA based-decisions are made in different jurisdictions?

More about Context !!!!!



Other criteria in final decision:

- Need
- Available alternatives
- Innovativeness
- Burden / severity disease
- Relevance for public health
- Equity

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Who is who in HTA?

www.htai.org

Doers and users HTA

More than 1,200 individuals

Organizational members

48 Non-Profit

16 For-Profit

10 Interest Subgroup: Patient and Citizens

Only public HTA agencies

INAHTA: Consumer involvement

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What can you do to get involved?

Listen to: Liuska Sanna !!!

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Thank you for your attention!

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