Can the cure be worse than the disease?

Limitations in the applicability of thresholds to assist in the health resource allocation decision making process in developing countries

Prof Andres Pichon-Riviere MD MSc PhD



We don't have a costeffectiveness threshold!!

The frustrated Latin-American health economist

Threshold = Holy Grail







Scope of the presentation

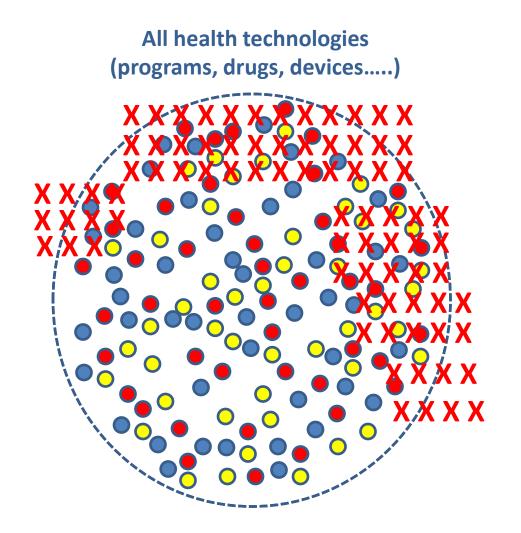
Finding an appropriate threshold, can be part of the solution to our problems?

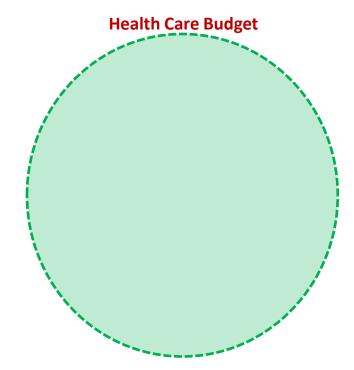
In Latin America, is it possible to find an appropriate threshold?

If we are able to define a threshold methodologically valid, can we base our decisions on it?

Even in the case that we can estimate a threshold with the most robust methods, its application in Latin American countries will face anyway many limitations. Many more limitations that its application may have today in countries like Canada, Australia or UK.









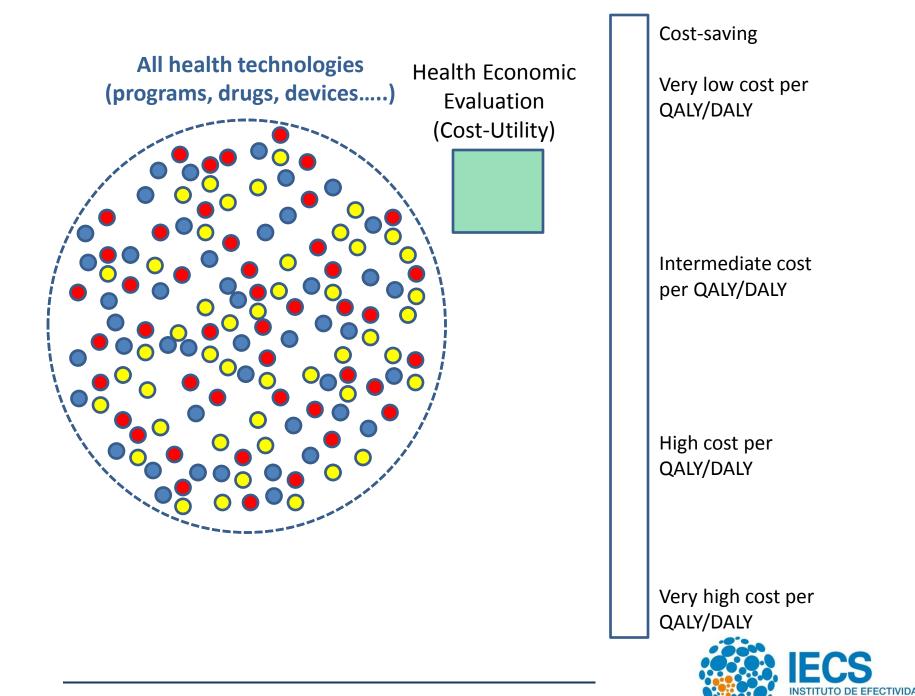
How to best allocate our **limited** funds?

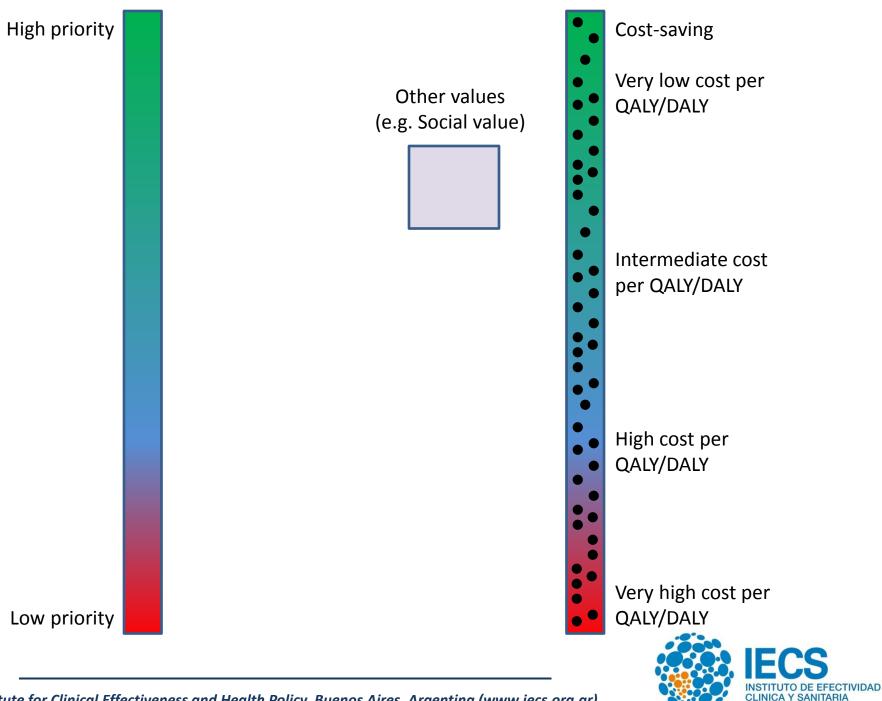
It is important to know which interventions or technologies are "important" (with a highest priority for the society, those that we can not fail to provide). Secure resources to guarantee that these interventions will be available for the entire population.

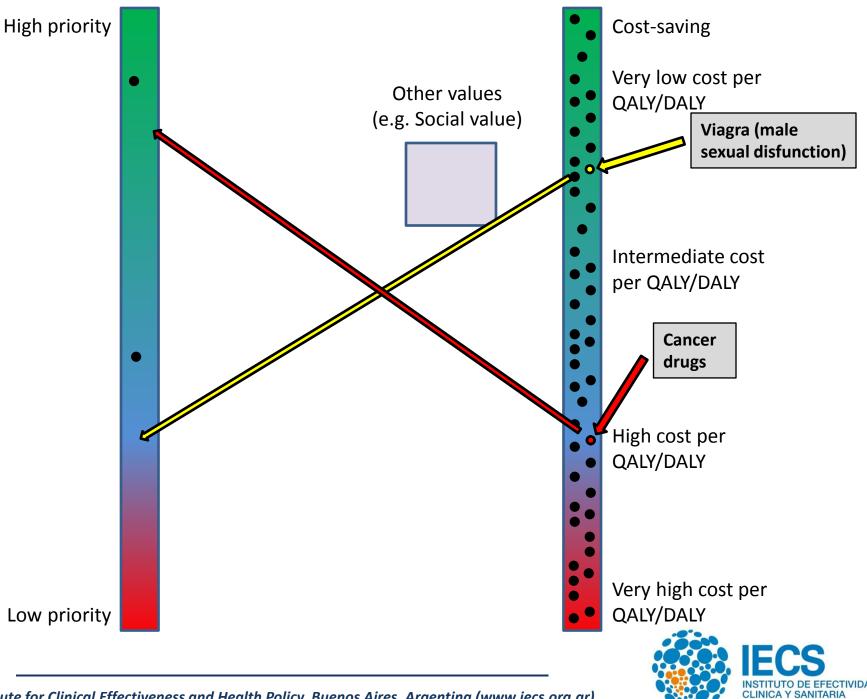
What services/technologies are less "important"? Those that if we fail to provide will not greatly affect health or social outcomes.

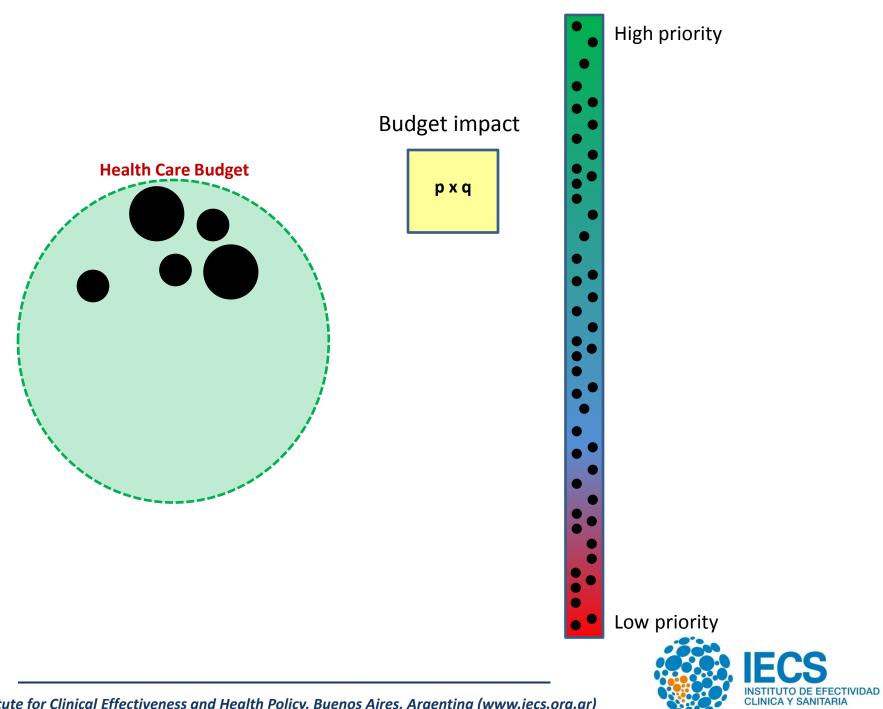
But defining what is "important", what is a priority, is not easy.

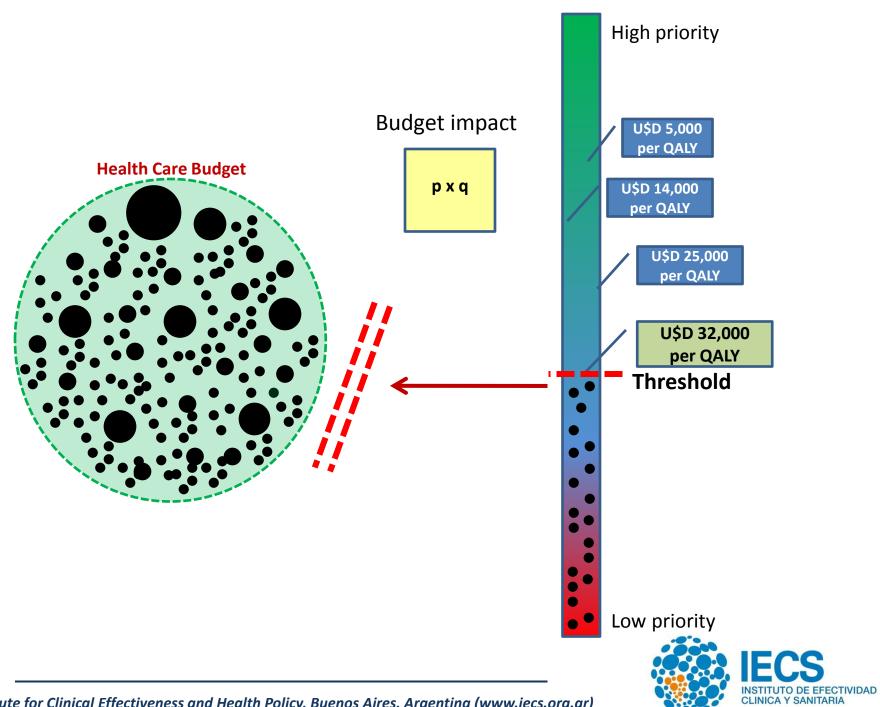


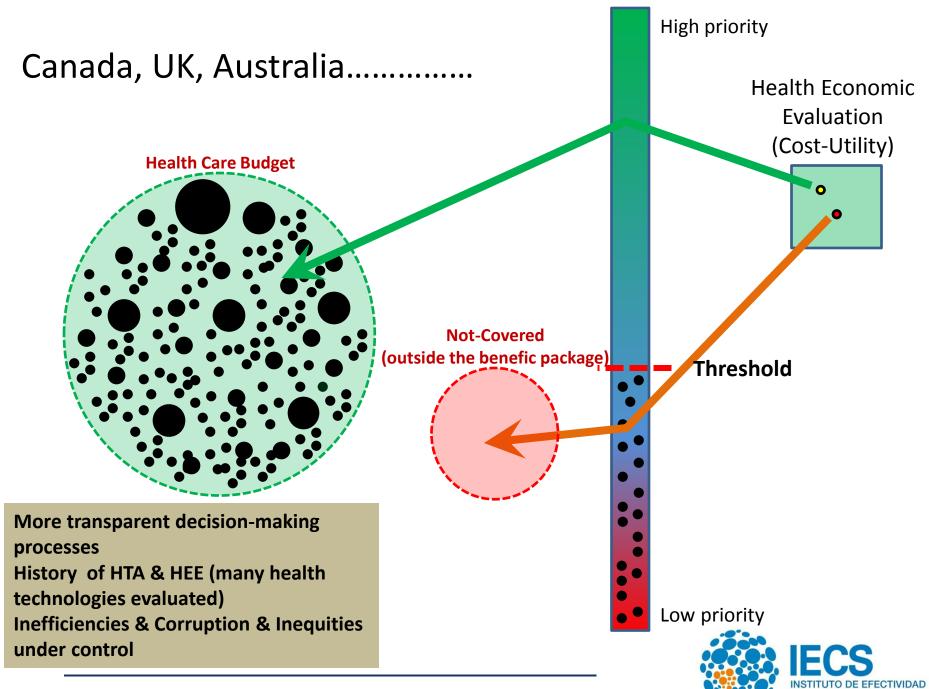


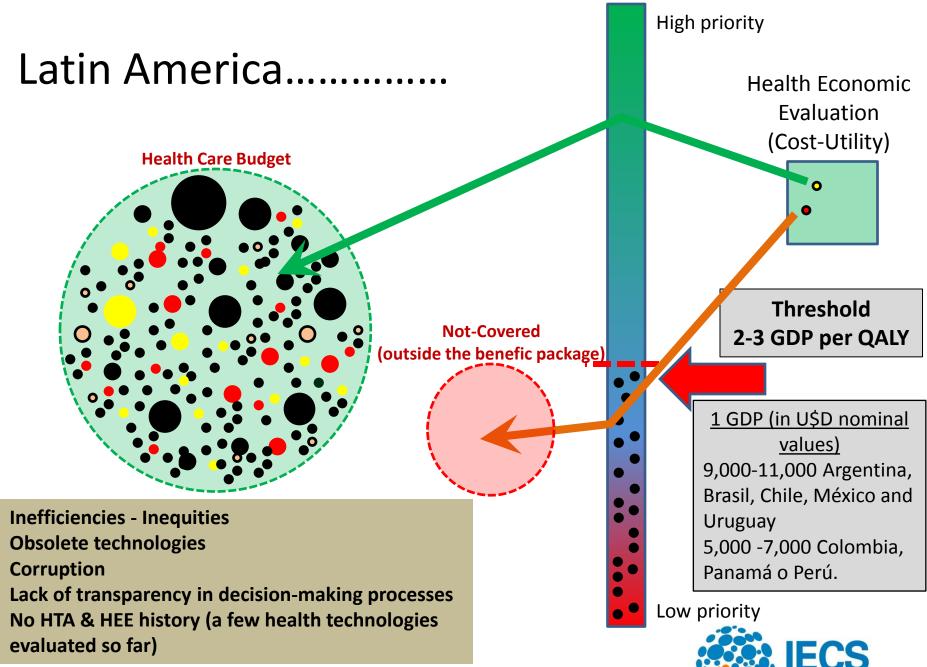










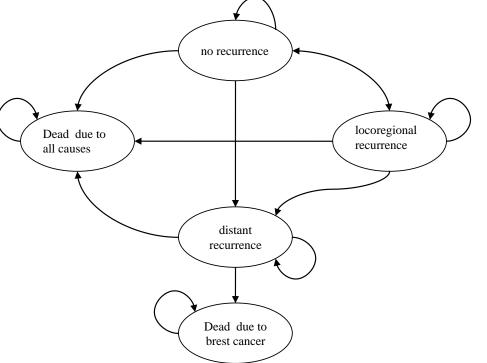


ILCO INSTITUTO DE EFECTIVID CLINICA Y SANITARIA Beyond the validity of any threshold, its application in Latin American (or developing) countries faces many limitations.

These limitations are less related to the threshold in itself but to the characteristics of health systems :

- Inefficiencies
- Inequities
- •Obsolete technologies
- Lack of transparency in decision-making processes.





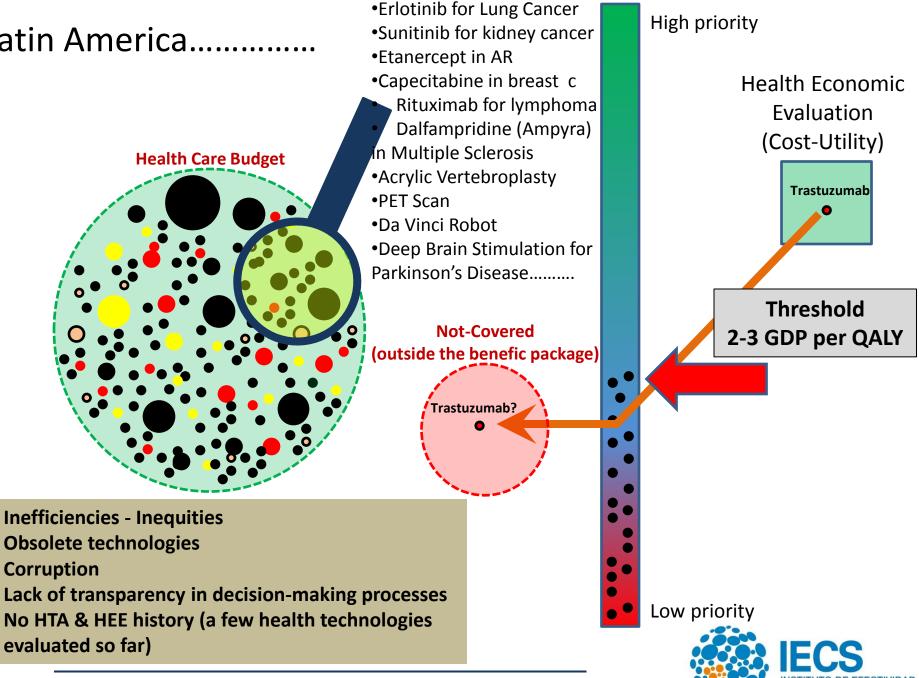
Cost-effectiveness of trastuzumab in early breast cancer in six Latin-American countries

<u>Funding</u>: Global Health Research Initiative (International Development Agency –CIDA-, Canadian Institutes of Health Research –CIHR-, Health Canada and the International Development Research Centre – IDRC-).

Incremental Cost-Effectivenness ratio (cost per QALY U\$D)

	Brasil	Argentina	Chile	Peru	Bolvia	Uruguay
Epidemiological adjustment only for overall mortality Epidemiological adjustment for transition probabilities (not adjusted for the effect oftrastuzumab)	Above 3 GDP per QALY					
Epidemiological adjustment for transition probabilities (also adjusting for effect of trastuzumab)	85,803	69,716	63,862	50,037	54,599	83,529

Latin America.....



Final remarks (1)

•Do not be paralyzed by the lack of a perfect threshold (we have bigger problems than that!)

•Thresholds based on GDP or other methods arising in each country can always helpful as a reference (not to wait for perfect data to estimate a threshold). Threshold are a tool not a rule

•It is important to move forward and produce more and more studies of cost-effectiveness and cost-utility in the region

•Start applying explicitly the economic evidence in the decision-making process

•Wait until conditions are ideal can take years. Meanwhile take into account the limitations imposed by the context



Final remarks (2)

May be countries that are beginning to apply Cost-Effectiveness (CE) evidence to inform coverage decisions should initially:

1. Analyze the CE of various interventions in the context of defined health problems (e.g. cancer). And make decisions only when we have relatively complete information.

2. Focus the analysis on the "best" and "worst". Promote the use of interventions with a very favorable CE and identify interventions with ridiculously high CE ratios to prevent them entering the public coverage.

3. Produce more information in the region. We need to expand our knowledge base about the cost-effectiveness of interventions in Latin America.



Final remarks (3)

<u>Challenge</u>: to decide where we should invest our analysis efforts and resources.

Does it makes sense to focus all our analysis efforts on just a few high-cost technologies?

Develop a transparent decision making process and attack the inefficiencies of the health system as a whole.

HTA of new technologies is not a substitute for the reform of the health care systems.

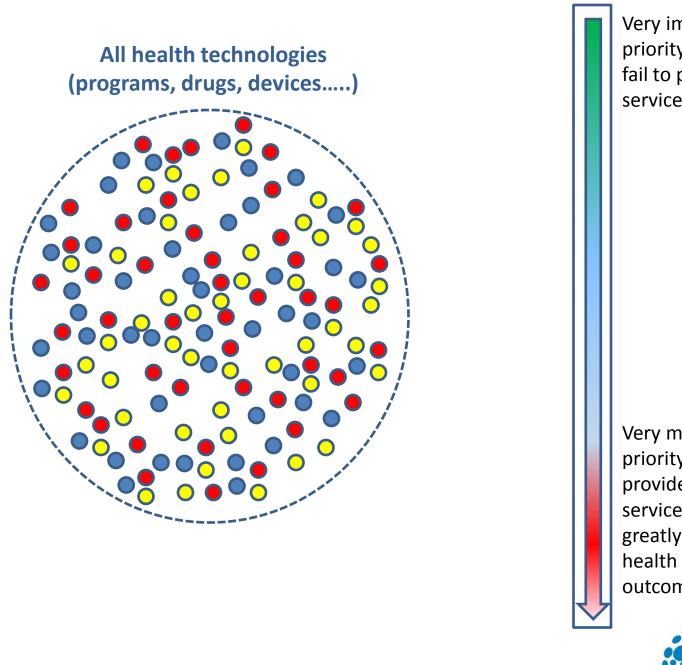
In developing countries HTA of individual technologies probably represents only a very small contribution to a big problem. It is important to find the way in which the HTA methods can be apply to develop better health care systems as a whole.



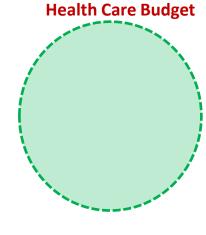
Thank you!

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Very important. High priority. We can not fail to provide these services.

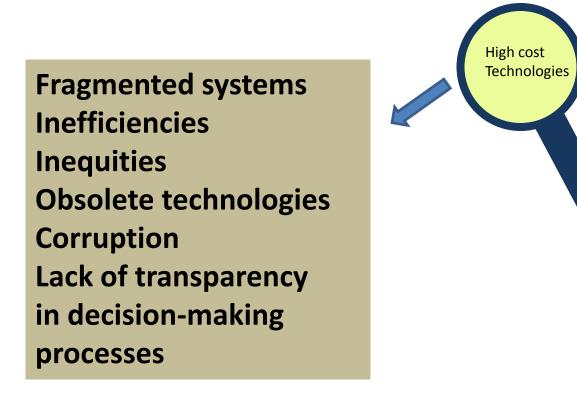


Very minor. No priority. Failure to provide these services will not greatly affect the health or social outcomes.

Not-Covered (outside the benefic package)

IECS

Improve the decision making process (and the health system in general)



It is important not only to analyze the incorporation of new technologies, but also to develop a transparent decision making process and attack the inefficiencies of the health system as a whole.

HTA of individual technologies is not a substitute for the reform of the health care systems

1. Analyze the CE of various interventions along health problems (e.g. cancer)

2. Focus the analysis on the best and worst.

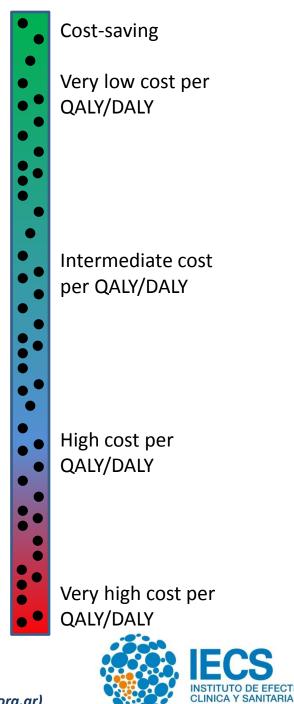
3. To produce more information in the region about the cost-effectiveness of interventions .

It is important not only to analyze the incorporation of new technologies, but also to develop a transparent decision making process and attack the inefficiencies of the health system as a whole.

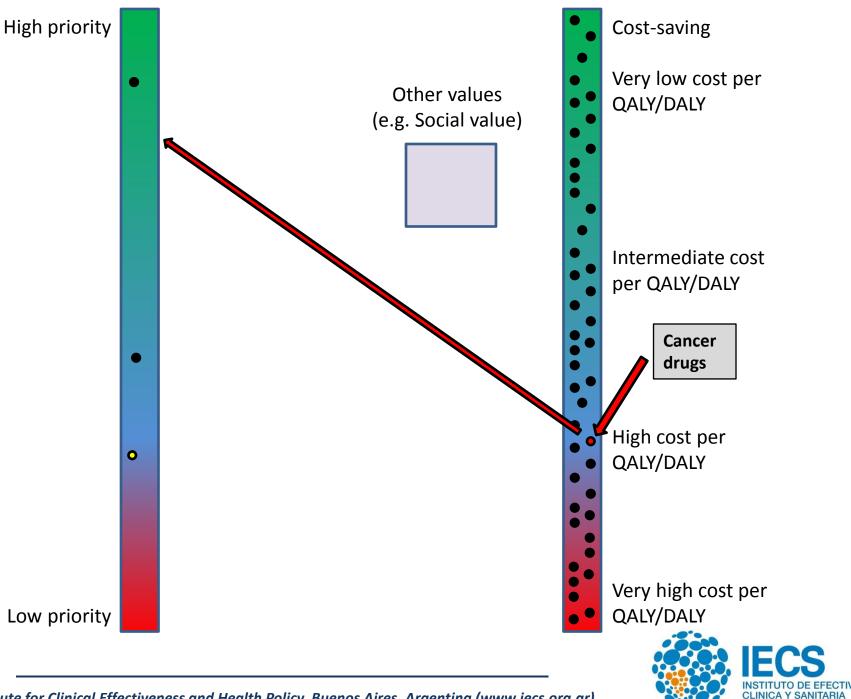
HTA of individual technologies is not a substitute for the reform of the health care systems.

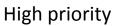
Find the way in wich the HTA science can be apply to help to develop better health care systems as a hole, beyond the individual analysis of health techonogies.



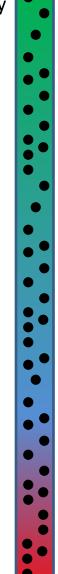


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Low priority



Other values (e.g. Social value) Cost-saving

Very low cost per QALY/DALY

Intermediate cost per QALY/DALY

High cost per QALY/DALY

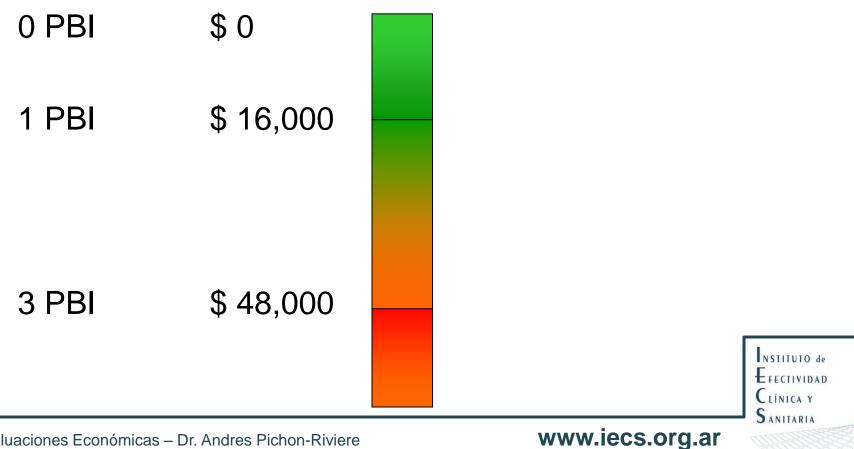
Very high cost per QALY/DALY



IDAD

CE en Brasil

PBI per cápita Brasil: R\$ 16.000



Evaluaciones Económicas – Dr. Andres Pichon-Riviere