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Use of MCDA in HTA, Coverage and Reimbursement Decision-Making

**Experiences and Insights from EMEA, Latin America and Asia-Pacific** 

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The views expressed at this presentation are my own.

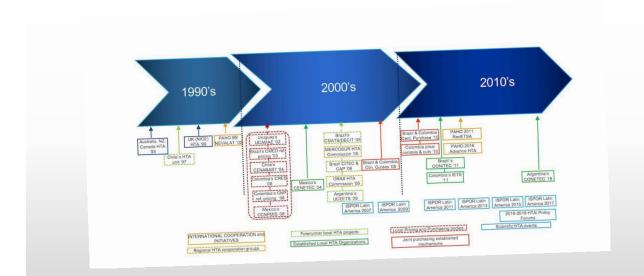
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## **Some facts about Latin America**

- 20 Countries
- Population (2018): 641,357,517 0,9% annual growth.
- Projected growth by 2030: -2,8%
- GDP per capita (PPP): \$ 16,587
- Highly fragmented Healthcare Systems
- Universal Health Coverage index: 70%

ation UHC fact sheets.

 $Source\ of\ data: The\ World\ Bank\ Country\ Database\ and\ The\ World\ Health\ Organization\ UHC\ fact\ sheets.$ 



Gilardino, R et al. Val Health Reg Issue. 2019 (in Press)



#### HTA and MCDA to support healthcare decisign

- HTA has no formal role in the decision-making process1
- Only applied for a selected group of technologies (high cost)1
- Limitation in HTA capacity building<sup>1</sup>
- Emphasis on cost-effectiveness (and ICER) as decision-making rule 1,2
- Interest of include more decision-making criteria (unmet medical need, relevance to priority setting, budget impact)1

Currently MCDA is applied only in a few cas



Adapted from Evidence and Value: Impact on Decision Makina (EVIDEM)

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- 1. Rosselli D, et al. Val Health Reg Issue. 2017. 14C. 20-27
- 2. Drake J, et al. Jrnl of Market Access & Health Policy. 2017. 5. 1360545

# **ISPOR**

#### FIFARMA recommended MCDA criteria ...

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- Cost-effectiveness excludes other important factors such as: innovation, disease severity, size of patient population, equity, or clinical guidelines.
- Countries with Cost/QALY, have less access to "new cancer drugs" and/or are adopted more slowly at lower rates.

#### MCDA as a deliberative tool in healthcare decision-making

Decision makers can find this "partial" [deliberative] form of MCDA a useful way of summarizing the relevant evidence, to help structure their deliberations about which alternatives are best.

#### MCDA criteria for inclusion

Limits Cost-effectiveness from their criteria, given economic impact and effectiveness are already listed as separate criteria.

Description of criteria Added therapeutic benefit/innovationa Improved efficacy/effectiveness

Improved safety Unmet medical need addressed by new technology Quality of life (patients, families, caregivers)

Economic impactb

Economic impact from a societal perspective

Local health system priorities Disease severity/progression<sup>c</sup>

Health prioritization Clinical guidelines and international health standards

Completeness in international and local clinical practice guidelines

Medications approved by globally recognized healthcare organizations

Quality of evidence Integrity and consistency of evidence Relevance and validity of evidence

Qualitative criterion

Quantitative

criterion

Patient access

Equity<sup>1</sup> Other

Sustainability of manufacturer business practices<sup>9</sup> Capacity of local system to use appropriate

Drake J, et al. Jrnl of Market Access & Health Policy. 2017. 5. 1360545



### Not only the "pharmaceutical" industry is interested in MCDA..

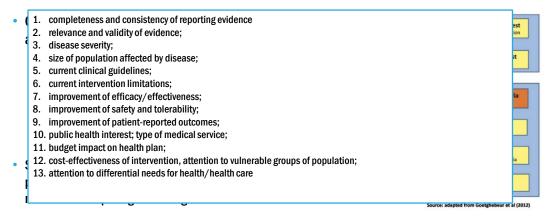
- To value the innovation, are important the cost effectiveness and budget impact analysis.
  The societal perspective support the considerations of how much health the patient gains and what is the cost of that gain<sup>1</sup>
- Policymakers are paying attention to alternative approaches including MCDA and "Value Frameworks" 1,2
- MCDA is gaining interest among decision makers, as it could value and prioritize different health interventions where resource allocation is difficult<sup>2</sup>
  - 1. Data from ISPOR Latin America Regional Health Policy Summit. September 2019, Bogota.
  - 2. Rosselli D, et al. Val Health Reg Issue. 2017. 14C. 20-27



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# MCDA for Transparent resource allocation in Colombia: results from a Stakeholder panel



Castro H, et al. Cost Effect Resour Alloc 2018, 16(Suppl 1):47 Castro H, et al. Intl Jrnl of Technology Assessment in Health Care, 32(04), 307–314

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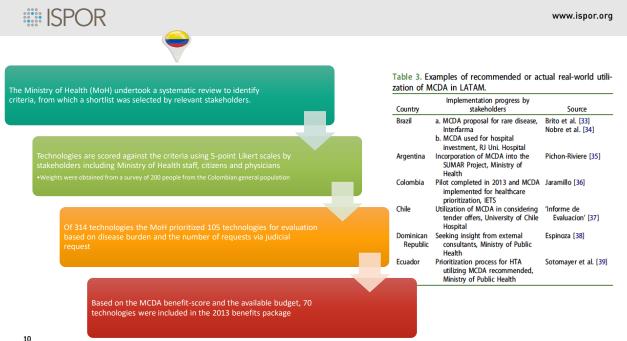
# **Exploring the Potential Use of MCDA in Central America and the** Caribbean

- Multi-stakeholder panel w/ representatives from 12 Countries:
  - Is MCDA perceived as a robust tool to be incorporated into local decision-making processes for priority setting?
  - In which ongoing decision-making processes can MCDA be most useful and feasible to implement?

**Despite limitations in eliciting weights** and scoring, the group expressed that MCDA seems reasonably robust to be implemented as a tool for local decision-making processes.

Broader consensus was achieved in the use of MCDA to inform priorities for public health planning, which in some countries is called the National Health Plan or National Development Plan for Health. Representatives emphasized the relevance for <u>prioritizing treatments to be included in the coverage</u> schemes and for joint purchasing.

Espinoza MA, et al. Val Heal Reg Issues. 2018, 17. 1-2



Marsh et al. Cost Ef Resour Alloc 2018, 16(Suppl 1):43

Drake J, et al. Jrnl of Market Access & Health Policy. 2017. 5. 1360545

#### RESEARCH ARTICLE

#### Benefit, risk and cost of new oral anticoagulants and warfarin in atrial fibrillation; A multicriteria decision analysis

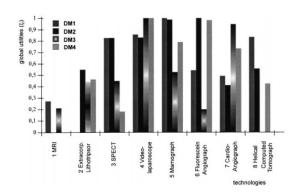
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**BMC** Public Health

A multi-criteria decision analysis approach to assessing malaria risk in northern South

Temitope O. Alimi<sup>1\*</sup>, Douglas O. Fuller<sup>2</sup>, Socrates V. Herrera<sup>3,4</sup>, Myrlam Arevalo-Herrera<sup>3,4</sup>, Martha L. Quinones<sup>5</sup>, Justin B. Stoler<sup>2,6</sup> and John C. Beier<sup>6</sup>



Fonseca et al, Statist. Med. 18, 3345}3354 (1999

# **ISPOR** Is there a future for MCDA in the Region?

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Box 1: Components of an effective and fair HTAinformed priority-setting process

- Specific legislation and structures to oversee the use of HTA to inform government decision-making
- Specific legislation and structures to register new health products that are efficacious and safe to use A systematic process that involves a wide range of stake-
- holders in identifying policy-relevant interventions for assessment · Economic analysis and clinical assessment of priority inter-
- ventions that use sound methods and are based on criteria that conform to social and health objectives
- · Budget impact analyses that project the financial impact of new interventions
- A deliberative process that combines the findings of the above analyses with more subjective criteria generated through consultation, and makes recommendations
- A government decision-making process that assesses these recommendations and decides whether to fund new interventions under the public budget
- An appeals and evaluation process that allows government decisions to be challenged and assesses the impacts of newly funded interventions
- A mechanism to adjust and update recommendations on the basis of new information

Sources: [2, 5, 9, 26, 27]

- MCDA is an important decision-making approach that allow for inclusion of a variety of value elements in process that can be made transparent to stakeholders <sup>1</sup>
- MCDA for HTA emphasizes fair process, argumentation, iteration and systematic thinking
- Priority setting tends to be more complex in lower- and middleincome countries (LMICs)
- It is important to learn the lessons and be aware of the current, more general methodological debates in the application of MCDA for HTA<sup>2</sup>

1. Garrison L, Value in Health 21(2018)124 - 1 3 0

2. Marsh et al. Cost Ef Resour Alloc 2018, 16(Suppl 1):43

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