Data Challenges in Heath Technology Assessment: A Canadian Perspective

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Three words that define Canada







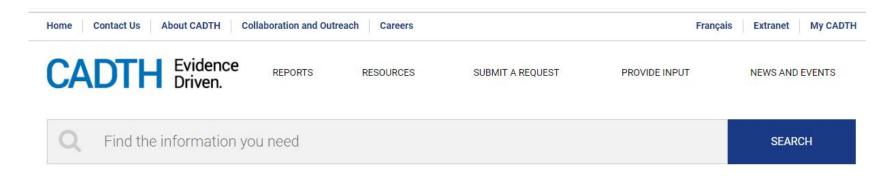
HOCKEY





About CADTH

- A national Health Technology Assessment (HTA) agency in Canada
- Provides evidence-based reimbursement advice to public payers



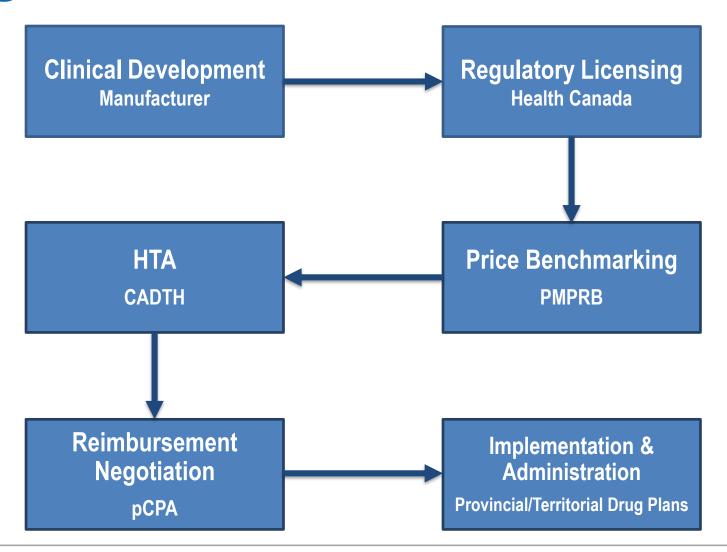


CADTH HTA Process

- Independent
- Robust
- Objective
- Inclusive
- Transparent
- Equitable
- Evidence-based

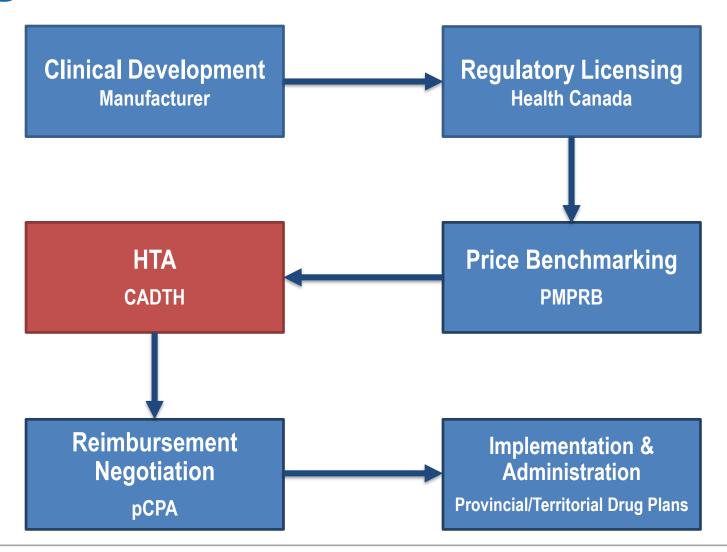


Drug Review Process in Canada





Drug Review Process in Canada





Health Technology Assessment

HTA seeks to assess the value of healthcare technologies

For public payers, value is assessed as **cost-effectiveness** at the individual patient level

Key data for HTA:

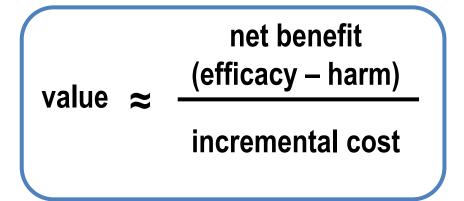
- Clinical effects
- Cost



HTA Data Challenges

Ensuring good value means maximizing cost-effectiveness through:

- maximizing efficacy
- minimizing harm
- minimizing cost





Data Challenges in Value Assessment

Uncertain data = uncertain value

Sources of uncertainty:

- Clinical data
 - Uncertain effect sizes
 - Clinical relevance of effects
 - Surrogate outcomes
 - Indirect comparisons
- Cost data
 - Population size (utilization)
 - Real-world effectiveness



"In God we trust; all others bring data."

W. Edwards Deming (1900–1993)

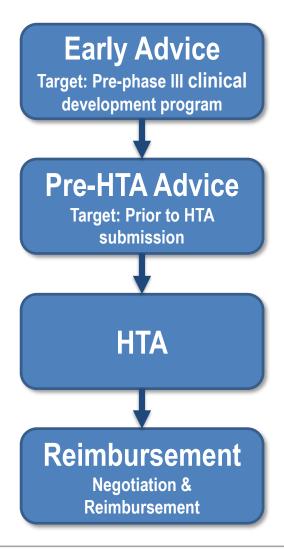


"In God we trust; all others bring valid data."

W. Edwards Deming (1900–1993)

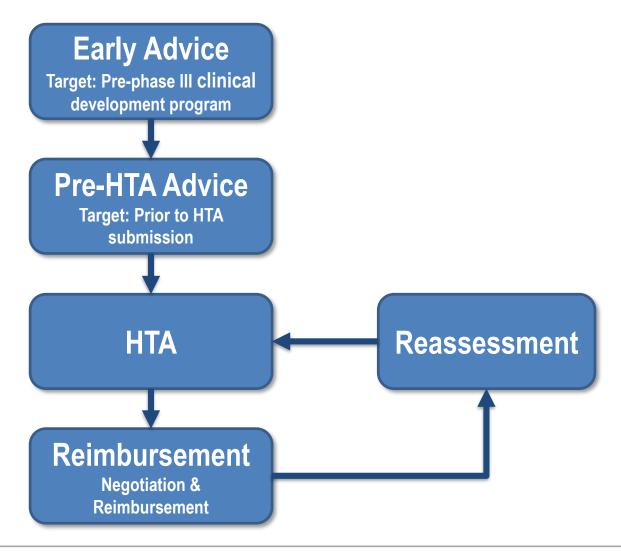


The Many Faces of Data Validation





The Many Faces of Data Validation





Data Challenges in Canada

- Different requirements for regulators vs.HTA vs. payers
- No universal health records
- No standards or process for data validation
- Limited data sharing
- No transparent pricing
- No system for conditional reimbursement/reassessment



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