What We Mean When We Say "Uncertainty" & What to Do About It

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Uncertainty



Uncertainty in Health Technology Assessment

Type of Uncertainty	Examples
Parameter Uncertainty	What is the effectiveness of the treatment? What resources do patients use?
Assumption Uncertainty	What is the relationship between progression free survival and overall survival?
Structural Uncertainty	What is the clinical treatment pathway? What are the relationships between parameters?
Methodological Uncertainty	What discount rate should be used? What is the most appropriate method for estimating survival curves?





Uncertainty





Value of Information =

- What it's worth to reduce uncertainty
- What are the stakes for trying something



Outcomes Based Agreements

A Conceptual Framework for Life-Cycle Health Technology Assessment Kirwin, et al (2022)

 Research Oriented Managed Access (ROMA) https://www.valueinhealthjournal.com/article/S1098-3015(22)00001-8/fulltext





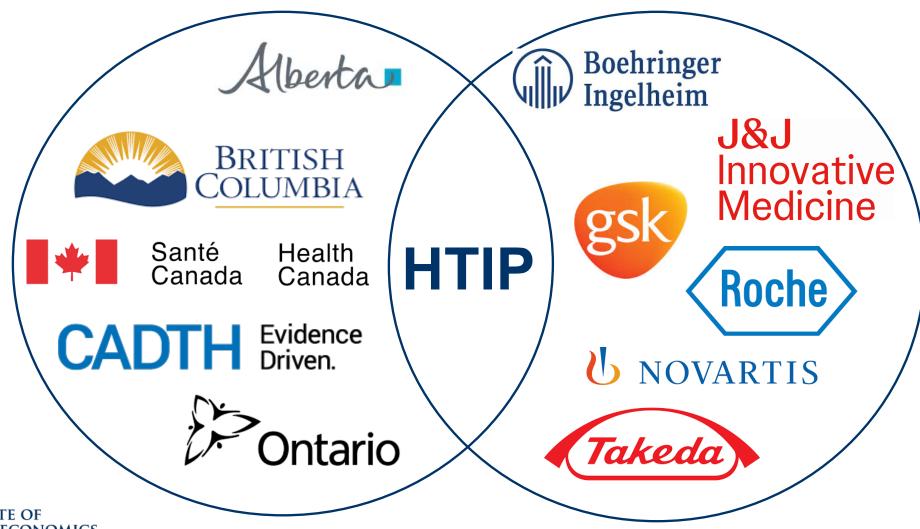
The Institute of Health Economics

- Independent non-profit
- Positioned at intersection of government, academia, & industry
- Multidisciplinary capabilities emphasizing economics, evidence, & policy

Nonpartisan, unbiased, objective



Health Technology Innovation Platform (HTIP) Public-Private Partnership



Health Technology Innovation Platform (HTIP)

Mission:

- Reduce uncertainty & manage risk for payers & industry
- Enable timely adoption of innovative therapies by addressing uncertainty
- Enable value-based investment & reinvestment decision-making
- Operationalize pro-innovation ecosystem across Canada
- Strengthen policy dialogue between innovators and payers



Health Technology Innovation Platform (HTIP)

HTIP 1.0 initial 3-year term with 3 strategic priorities:

Operationalizing RWE for Decision-making

- Identification of methods & tools
- Gap analysis
- "Stress testing" via dev/demo projects
- Validated model, methods & processes

RWE Manual

Methods Training (Value of Information)

Outcomes Based Agreements

- Frameworks for risk management
- Outcomes-based contracting resource development
- Outcomes monitoring, reporting

White paper, templates, recommendations

Path Finding Workshop

Innovative funding models

- Novel risk-balanced funding and contracting concepts and models
- Wide ranging options from blue sky to pragmatic

Encyclopedia of Options

Recommendations Manuscript



HTIP 2.0 – In Development

- Working definition of priorities
 - Rare diseases, precision medicine, & other reimbursement challenges
 - Data standards & infrastructure for innovative agreements (OBAs)
 - Evolution of information reviewed where drugs have uncertainty
 - Leveraging administrative health data

Expansion of participation



Thank you!

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