

*Past Imperfect, Present Tense,
Future Conditional:*
Where next for value frameworks?

Andrew Briggs

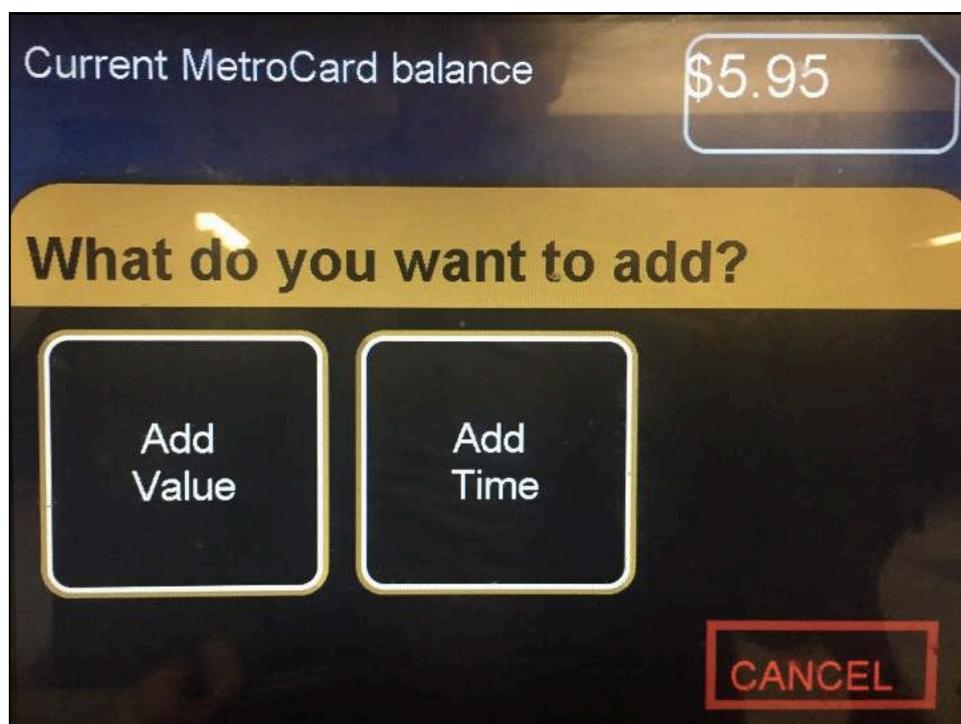


University
of Glasgow



Memorial Sloan Kettering
Cancer Center





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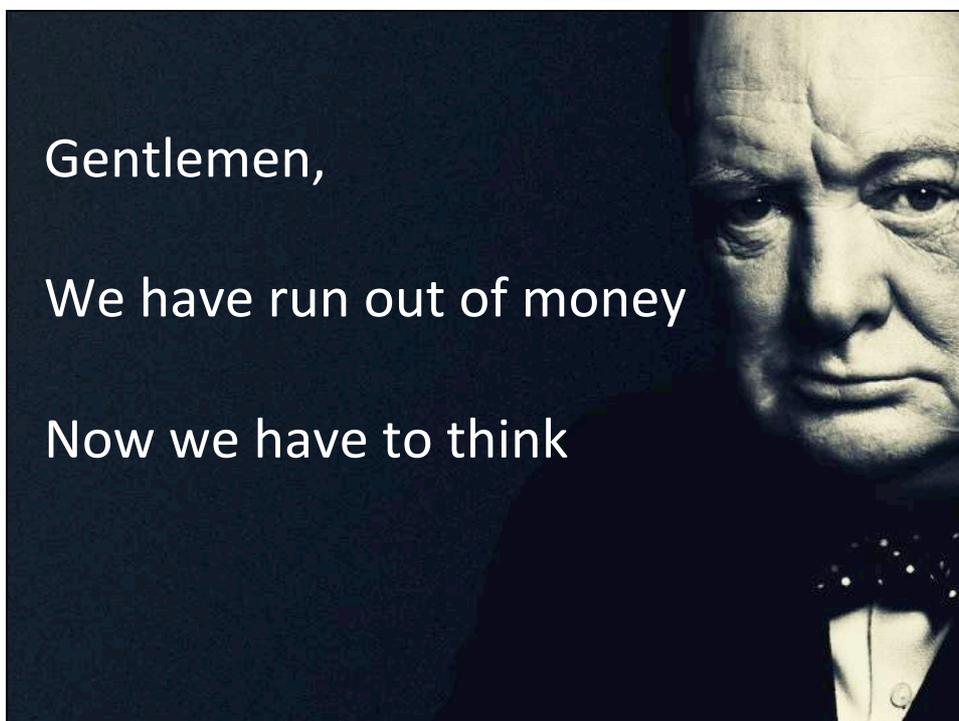
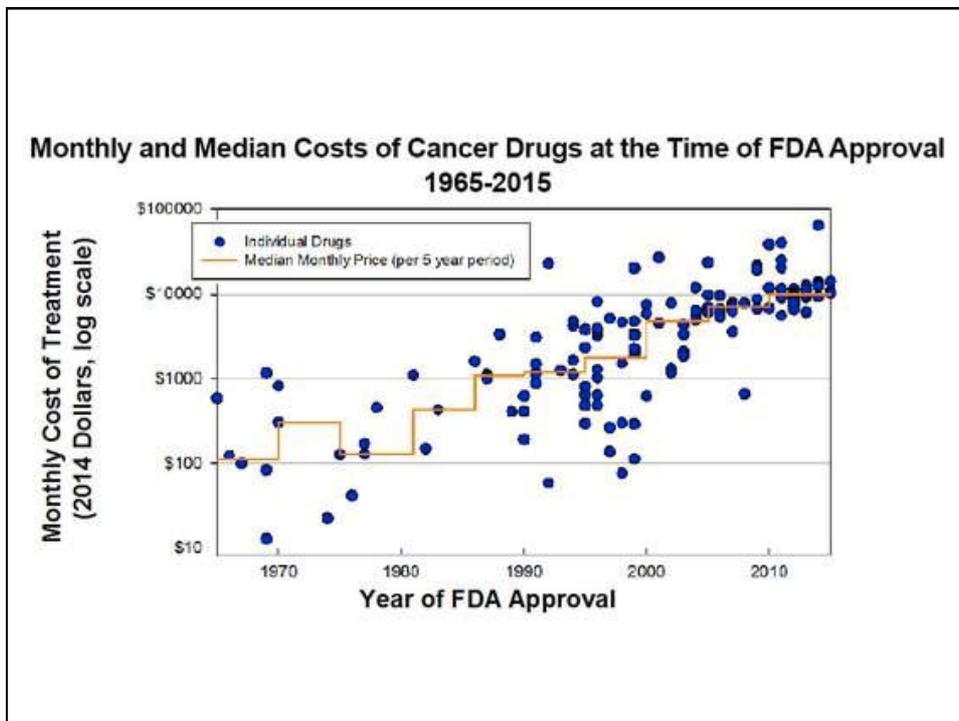
DIVIDE ET IMPERA: PROTECTING THE GROWTH OF HEALTH CARE INCOMES (COSTS)

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It is proper to preface an essay of this sort with the observation that anyone who has received health care for a serious illness is likely to agree that, with few exceptions, health care sectors in the USA and elsewhere tend to be staffed with millions of smart and highly trained professionals who sincerely seek to improve the quality of their patients' lives. Their admirable clinical efforts, however, are embedded in a ceaseless struggle over money. That struggle is the focus of this essay.

Every health care system naturally pursues two distinct goals, as is illustrated in Figure 1, namely (1) enhancing the quality of patients' lives and (2) enhancing the quality of lives of those who provide real resources to the process of health care (Reinhardt, 1987). Patients also play a dual role in this setting, of course. They are both objects of human compassion and biological structures yielding cash flows, which in the USA can be openly traded on the stock exchanges (Reinhardt, 1999). A strictly observed etiquette in public debates on health policy, however, is never to talk openly about the second goal of health care. Any proposal to enhance the second goal therefore must be styled to seem to further the first goal—e.g. 'enhancing the quality of patient care', 'innovating to create value for patients', 'saving lives', and so on. This essay will stray from that tradition.



ACA, PCORI and cost-per-QALY

“The Patient-Centered Outcomes Research Institute ... shall not develop or employ a dollars-per-quality adjusted life year ... as a threshold to establish what type of health care is cost effective or recommended.”

The Patient Protection and Affordable Care Act, 2010
Neumann & Weinstein, 2010

Therapy Value Frameworks in US

- American College of Cardiology- American Heart Association (ACC-AHA)
- Institute for Clinical and Economic Review (ICER)
- National Comprehensive Cancer Network (NCCN)
- American Society of Clinical Oncology (ASCO)
- Memorial Sloan-Kettering Cancer Center (MSKCC)
- 2nd US Panel on Cost-effectiveness

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PERFORMANCE MEASURES

ACC/AHA Statement on Cost/Value Methodology in Clinical Practice Guidelines and Performance Measures 

A Report of the American College of Cardiology/American Heart Association
Task Force on Performance Measures and Task Force on Practice Guidelines

Writing Committee Members*

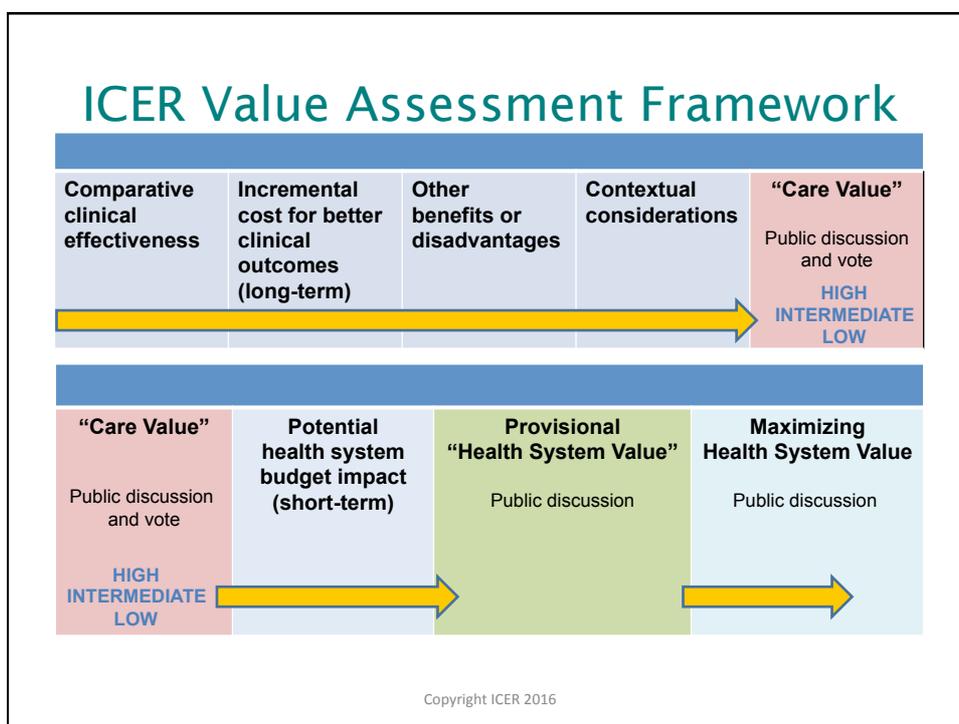
Jeffrey L. Anderson, MD, FACC, FAHA, <i>Co-Chair</i>	Mark A. Hlatky, MD, FACC, FAHA
Paul A. Heidenreich, MD, MS, FACC, FAHA, <i>Co-Chair</i>	Alice K. Jacobs, MD, FACC, FAHA
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Jonathan L. Halperin, MD, FACC, FAHA	

*Writing committee members are required to recuse themselves from voting on sections to which their specific relationships with industry may apply; see Appendix 2 for detailed information.

ACC-AHA Statement

- High value: <\$50,000 per QALY
- Low value: >\$150,000 per QALY
- Value thresholds could be pegged to GDP or other socially accepted norm
- Supplemented by quality of evidence level

This report stresses that the value category should be only one of several considerations in medical decision making and resource allocation. Providers and society may be willing to pay more for the only effective treatment for a rare disease (e.g., congenital versus adult cardiac care).



COST-EFFECTIVENESS IN HEALTH AND MEDICINE
SECOND EDITION

Peter J. Neumann, Gillian D. Sanders, Louise B. Russell, Joanna E. Siegel, and Theodore G. Galiats

US Panel on Cost-Effectiveness

In 1993, the U.S. Public Health Service convened a panel of 13 non-government scientists and scholars to review the developing field of cost-effectiveness analysis.

Recommendations published in 1996 by OUP

Recommended QALY as output by which to measure value

US Panel on Cost-Effectiveness II has just reported 2016

QALYs remain recommended metric

Are cancer frameworks special?

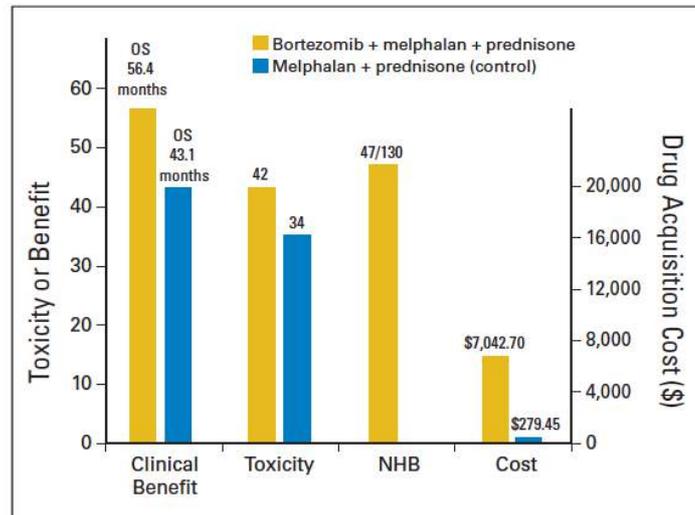
NCCN Evidence Blocks

NCCN EVIDENCE BLOCKS CATEGORIES AND DEFINITIONS

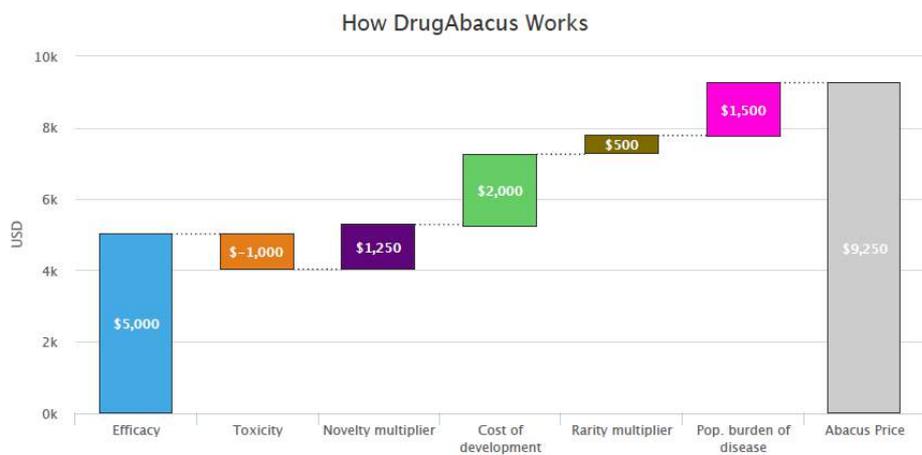
5							
4							
3							
2							
1							
	E	S	Q	C	A		

E = Efficacy of Regimen/Agent
 S = Safety of Regimen/Agent
 Q = Quality of Evidence
 C = Consistency of Evidence
 A = Affordability of Regimen/Agent

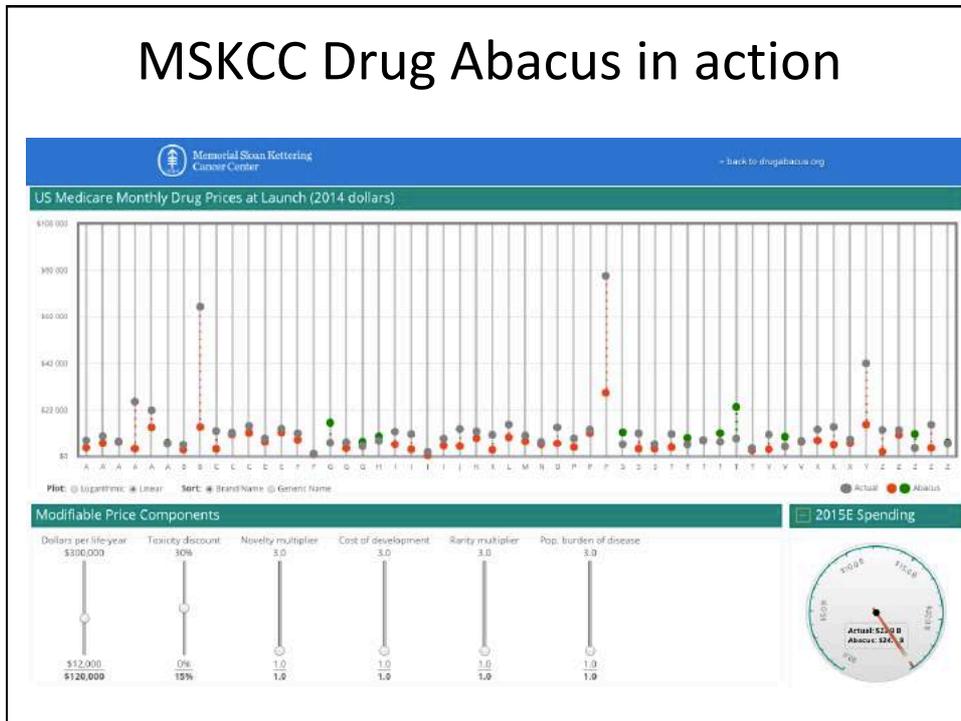
ASCO Value Framework



MSKCC Drug Abacus



MSKCC Drug Abacus in action



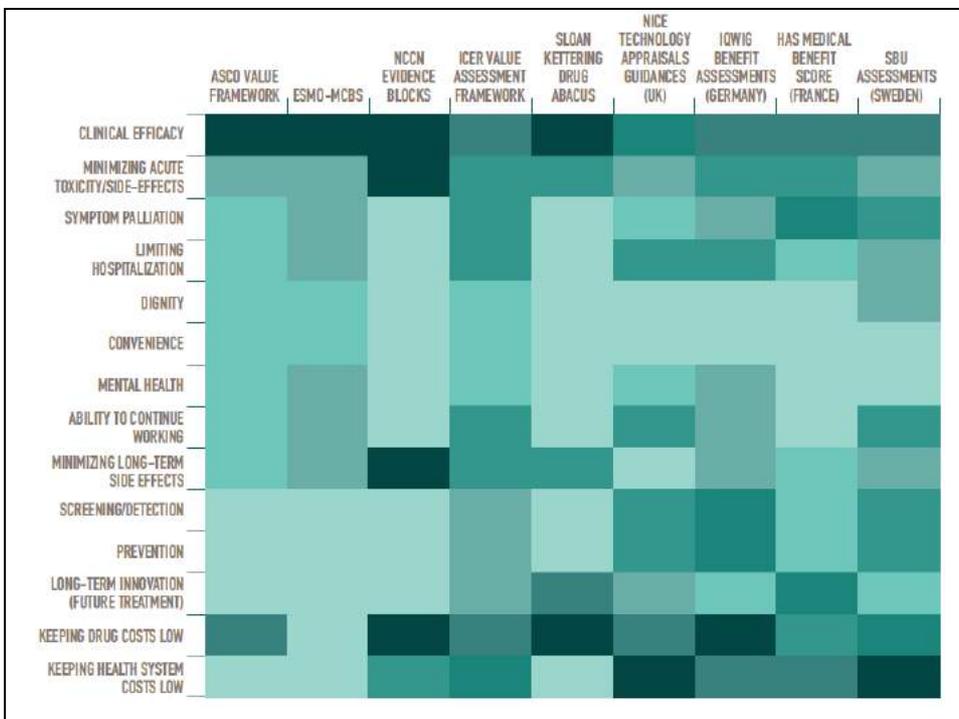
Response from industry?

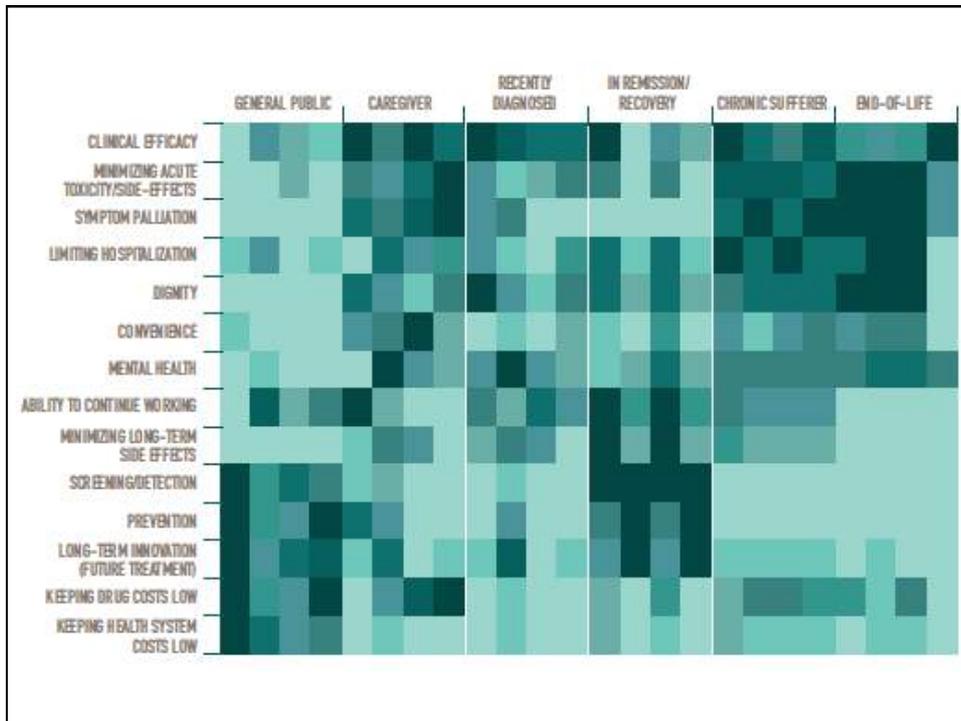


Concept Paper

- Results of a workshop
- Supported and facilitated by Grayling
- Funded by Eli-Lilly

PERSPECTIVES ON VALUE IN CANCER CARE





Disease specific MCDA?



ISPOR / ASHEcon White Paper

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ISPOR ANNOUNCES ESTABLISHMENT OF NEW INITIATIVE ON VALUE ASSESSMENT FRAMEWORKS

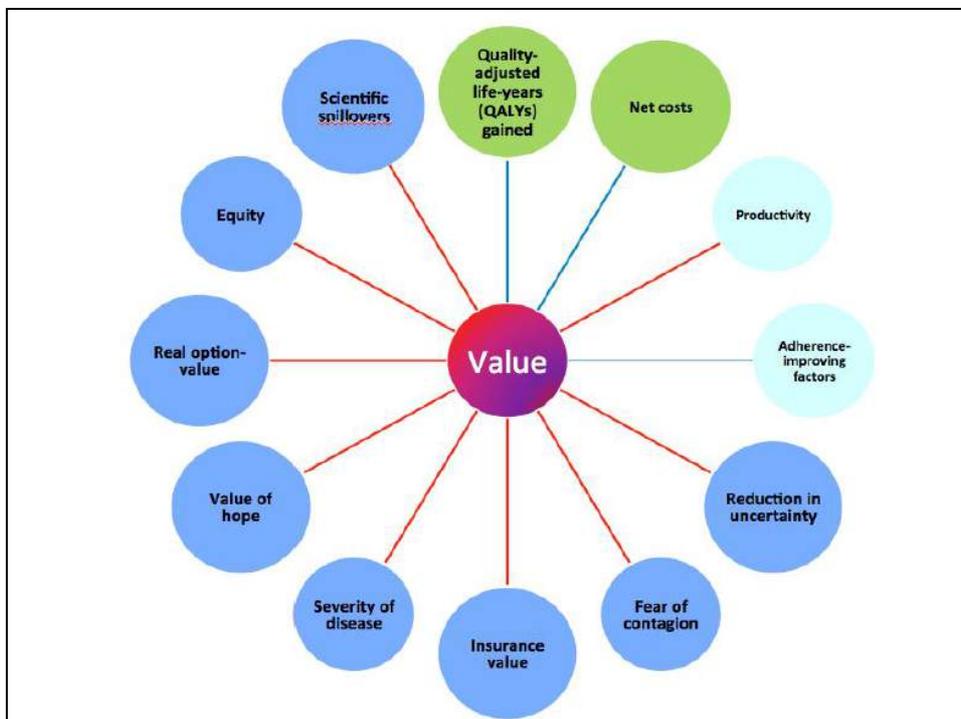
Posted on [May 5, 2016](#)

ANNOUNCEMENT

Princeton, NJ—May 5, 2016—The International Society for Pharmacoeconomics and Outcomes Research (ISPOR) announced today that it is embarking on the planning phase of a new *Initiative on Value Assessment Frameworks*.

Archives

- [-] 2017 (11)
- [+] March (5)
- [+] February (4)
- [+] January (2)
- [+] 2016 (75)



Many forms of Government have been tried, and will be tried in this world of sin and woe.

No one pretends that democracy is perfect or all-wise.

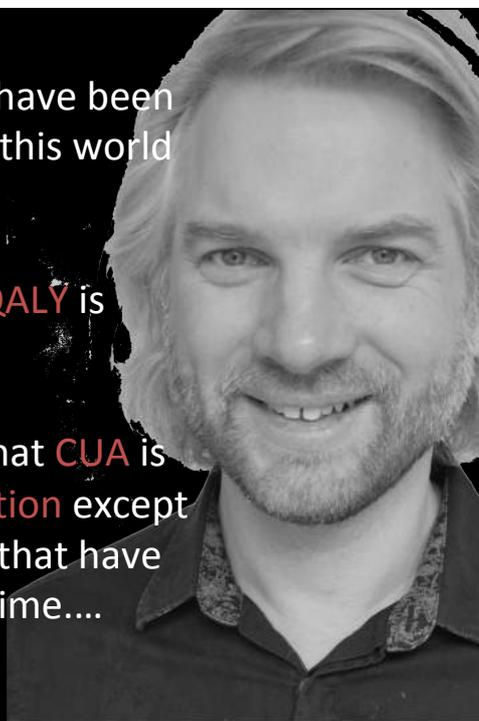
Indeed it has been said that democracy is the worst form of Government except for all those other forms that have been tried from time to time....



Many forms of **outcome** have been tried, and will be tried in this world of sin and woe.

No one pretends that a **QALY** is perfect or all-wise.

Indeed it has been said that **CUA** is the worst form of **evaluation** except for all those other forms that have been tried from time to time....



Focus groups on value at MSKCC

Ranking	Patients	Physicians	Nurses
1	Overall Efficacy	Efficacy	Efficacy
2	Side effects	Financial toxicity	Quality of Life
3	Long-term sequelae	Toxicity	Side-effects
4	How well established the treatment is	Functional outcomes	Administration
5	Reputation of the oncologist, cancer center, group	Inconvenience to patients/ caregivers and family	Communication
6	Alternative options	Societal costs and consequences	Innovation

Identifying attributes of cancer treatments: What do stakeholders consider important?

Background
The long history of cancer treatments has led to a focus on patient-centered care, but a shift to identifying what patients value in their care is needed to better understand their needs and to improve the quality of care.

Methods
A structured focus group process employing the nominal group technique (NGT) was used to identify the attributes considered to be most important by patients, physicians, and nurses.

Results
The top ranked attributes were overall efficacy, side effects, long-term sequelae, how well established the treatment is, reputation of the oncologist, cancer center, group, and alternative options.

But will they trade health? Developing an economic value framework for oncology

Background
Value frameworks in health care are proliferating often with very little input from economists. In particular, a number of oncology value frameworks have emerged, perhaps due to the greater costs of novel therapies in the cancer space. But none of these value frameworks include weights that economists would recognize as legitimate values. If attributes beyond health are truly valued then it is reasonable to suppose that health would be traded for other attributes of value. One test of value would be to see if stakeholders would trade a health attribute for non-health attributes.

Methods
Previously reported qualitative focus group work with cancer patients, oncology clinicians and oncology nurses identified the following as important attributes alongside the traditional health gains associated with treatment:

- treatment convenience;
- avoidance of treatment alternatives;
- disease rarity;
- quality of evidence;
- prognosis without treatment.

Results
Mixed logit regression (Table 1) identified statistically significant preferences for less inconvenient treatments, treatments with no alternatives, higher evidence quality, helping those with shorter prognosis and providing more QALY gains. Only the number of people affected (only of disease) was insignificant.

Table 1: Top ranked non-health attributes

Ranking	Attribute	Ranking	Attribute
1	Overall efficacy	1	Side effects
2	Side effects	2	Long-term sequelae
3	Long-term sequelae	3	How well established the treatment is
4	How well established the treatment is	4	Reputation of the oncologist, cancer center, group
5	Reputation of the oncologist, cancer center, group	5	Alternative options
6	Alternative options	6	Financial toxicity
7	Financial toxicity	7	Toxicity
8	Toxicity	8	Functional outcomes
9	Functional outcomes	9	Administration
10	Administration	10	Communication
11	Communication	11	Innovation
12	Innovation	12	Societal costs and consequences

Table 1: Mixed Logit Regression

Attribute	Estimate	SE	Z	P	OR	95% CI
Overall efficacy	0.89 (0.22)*	0.02	0.46	1.31		
Side effects	-0.15 (0.02)**	0.02	-0.52	0.07		
Long-term sequelae	-0.18 (0.03)**	0.03	-0.61	0.24		
How well established the treatment is	0.05 (0.02)*	0.03	0.44	0.49		
Reputation of the oncologist, cancer center, group	0.15 (0.02)**	0.04	0.26	0.58		
Alternative options	1.44 (0.04)**	0.05	0.30	2.20		
Financial toxicity	0.09 (0.02)	0.08	-0.33	0.73		
Toxicity	-0.03 (0.01)*	0.02	-1.51	0.28		
Functional outcomes	0.15 (0.11)	0.05	0.43	0.68		
Administration	0.00 (0.01)	0.01	0.00	0.99		
Communication	0.00 (0.01)	0.01	0.00	0.99		
Innovation	0.00 (0.01)	0.01	0.00	0.99		
Societal costs and consequences	0.00 (0.01)	0.01	0.00	0.99		

Figure 1: Relative importance of each attribute

Reflections on MCDA for HTA

- MCDA originally designed to help committees make decisions
- While extension to HTA seems intuitive, the 'devil is in the detail'
- Application to HTA requires careful consideration of:
 - Independence of criteria
 - Scoring that involves 'sacrifice'
- Economists use a particular form of MCDA

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VALUE IN HEALTH • (2016) ■■■-■■■



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Treacle and Smallpox: Two Tests for Multicriteria Decision Analysis Models in Health Technology Assessment

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ABSTRACT

Multicriteria decision analysis (MCDA) is rightly receiving increasing attention in health technology assessment. Nevertheless, a distinguishing feature of the health domain is that technologies must actually improve health, and good performance on other criteria cannot compensate for failure to do so. We argue for two reasonable tests for MCDA models: the treacle test (can a winning intervention be incompletely ineffective?) and the smallpox test (can a winning intervention be for a disease that no one suffers from?). We explore

why models might fail such tests (as the models of some existing published studies would do) and offer some suggestions as to how practice should be improved.

Keywords: decision analysis, health technology assessment, multicriteria decision analysis, preferential independence.

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Principles for Value Frameworks

- Should be generic not disease specific
- Should measure health in QALY terms
- Value beyond health attributes should be demonstrated by preparedness to sacrifice health
- Should pass the 'Treacle' and 'Smallpox' tests

Where next for Value Frameworks?

- US Panel and ISPOR/ASHEcon White Paper are aligned
- Value is in the Health Economists purview
- Could a broader concept of value re-ignite the welfarist / extra-welfarist debate?
- Many emerging value frameworks do not involve economists and do not conform to our notion of value
- We need to engage with 'value-quackery' in the medical field not the health economics literature