DO NOVEL VALUE MEASURES HAVE A PLACE IN EUROPEAN HTA?

ISPOR-EU panel, Nov 12, 2018, 3.45 - 4.45pm [Breakout Session #2 (IP6)]



Participants

Moderator

Ross Maclean, MD, SVP, Head of Medical Affairs, Precision Value & Health, USA

Panelists

Louis Garrison, PhD, Professor Emeritus, Dept. of Pharmacy, University of Washington, USA Mark Sculpher, PhD, Professor, Centre for Health Economics, University of York, UK Jens Grueger, PhD, SVP and Head, Global Access, Hoffman La Roche, Switzerland



The Panel: Diverse perspectives



Lou Garrison

- Recap on the role of QALY in HTA and place the QALY in the wider context of other "Elements of Value";
- Comment on how novel value measures address static vs.
 dynamic opportunity costs; and
- Introduce issue of future generation willingness-to-pay for today's innovation.



The Panel: Diverse perspectives



Mark Sculpher

- Explore if/how the benefits from innovation equate to the value delivered and that "value" requires one to identify and compare benefits that are socially and fiscally meaningful to the opportunity costs;
- Affirm that healthcare systems can only afford to pay for specific, measurable benefits; and
- Challenge whether the US perspective adequately addresses opportunity costs?



The Panel: Diverse perspectives



Jens Grueger

- Describe how novel treatments may confer benefits not captured in existing approaches and that an HTA "average" benefit does not capture the unique, patientcentric benefits of some therapies;
- Highlight that healthcare systems not equipped to consider some benefits e.g., improved QoL; and
 - Challenge different market perspectives on value.



Live Content Slide

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Poll: Q1. In HTA, to what extent should the QALY be supplemented by other measures of value?



Live Content Slide

When playing as a slideshow, this slide will display live content

Poll: Q2. Should patient's perspectives include only those patients who stand to benefit from a new product (0) or also include those who will forgo benefit as a result of its funding(1)?



Live Content Slide

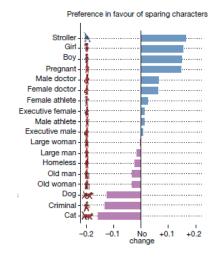
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Poll: Q3. Do you think health status utility measures (and thus QALY) adequately include the patient's perspective?





The public's view on valuing life



40 million people from 233 countries/territories completed an online survey

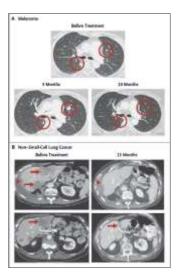
A variation of the "trolley problem" in philosophy, applied to self-driving cars ... think of the center lane vs. the bicycle lane.

Strong preferences for saving: Humans > animals Many people > Few people Children > Elderly

Geo-cultural differences

Awad E et al. The Moral Machine experiment. Nature 2018; 563: 59-64

The impact of innovation



<u>MELANOMA</u> - Initial increase in lung nodules (at 6 weeks and 3 months) followed by complete regression (at 10 months).

<u>NSCLC</u> – Partial response (at 15 months) in liver and lungs.

Brahmer JR et al. Safety and efficacy of anti-PD-L1 antibody in patients with advanced cancer. NEJM 2012; 366: 2455-2465.



PRECISION

The impact of innovation



The value of a violin virtuoso?

Link <u>here</u>.

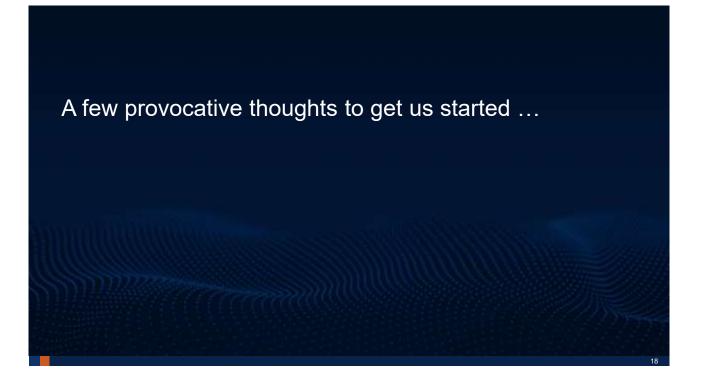


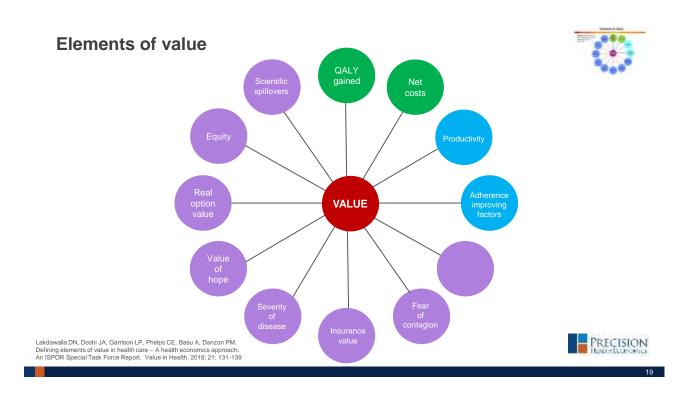
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The value of simply knowing ...



The medical diagnostic process informs patient and provider knowledge. Novel technologies such as Next Generation Sequencing (NGS) have the potential to transform the depth, breadth and consequences of such knowledge (aka "personal utility"), in turn delivering value. For example:

- 45% of adult respondents were willing to pay for information on a variant for which there was no effective treatment available¹.
- 27% of the general population would want "secondary findings" information for disorders with severe quality-of-life consequences, irrespective of whether effective medical treatment was available².
- Parents were interested in the return of highly penetrant non-medically actionable conditions in children, particularly if manifestations were more severe (e.g., earlier age of onset and greater level of disability)³.

References:

Marshall DA, Gonzalez JM, Johnson FR, et al. What are people willing to pay for whole-genome sequencing information, and who decides what they receive? Genet Med 2016;18:1295–302.
 Regier DA, Peacock SJ, Pataky R, et al. Societal preferences for the return of incidental findings from clinical genomic sequencing: a discrete choice experiment. CMAJ 2015;18:TE190–7.

Levels MA, Stine A, Paquin RS, et al. Docease pretences to user detail of inclusioning from unarge transmissing expensions advances close expension. Control 2017, 07:21 39-71.
 Levels MA, Stine A, Paquin RS, et al. Parental pretences to ward genomic sequencing for non-medically actionable conditions. In hiddren: a discrete-choice experiment. General Med 2018;20:181–9.

Is society's view of "value" every changing?







Do you view the 12 elements of value as static or dynamic, and if dynamic, how do innovators and payers keep up?



Accounting for the patient perspective



How does the patient perspective translate into economic value to justify treatment costs?



How will this treatment impact the patient and their day-to-day life?



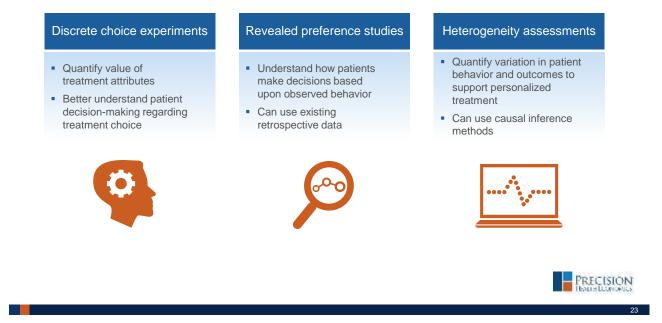
How can patient quality of care, satisfaction and outcomes be improved in a meaningful, measurable way?



How can value and quality assessments better account for and incorporate the patient perspective?



Complementary methods to understanding the patient perspective



Obvious yet not easily measurable





Regarding "specific, measurable benefits", how should aspects of life that are perhaps more "intangible" be accommodated?



How high is the "Fourth Hurdle"?

- What matters most to the patient about a particular treatment?
 - Survival?
 - Treatment toxicity or side effects?
 - Insurance coverage?
- What prevents a patient from adhering to the medication?
 - What factors facilitate adherence?
- What elements of symptom improvement are most valuable to patients?
 - Functional ability?
 - Quality of life?
- What are the impacts of treatment-related costs on the patient?
 - Out-of-pocket costs
 - Ancillary costs

Innovation driving Rx options, better outcomes and need for data

 Cisplatin Docetaxel Gemcitabine Hydrochloride Irinotecan Yinorelbine Tartrate Vinorelbine Tartrate Gefitinib Gefitinib Gefitinib Gefitinib Gefitinib Gefitinib Gefitinib Gefitinib Storet https://www.cancer.gov/about-cancer/treatment/drugs/ung (accessed 5tro/1s) Corres thtps://www.cancer.gov/about-cancer/treatment/drugs/ung (accessed 5tro/1s) 	1998 (n=6)	2018 (n=26)	
Source: https://www.cancer.gov/about-cancer/treatment/drugs/lung (accessed 5nov18)	DocetaxelGemcitabine HydrochlorideIrinotecanPaclitaxel	 Alectinib Atezolizumab Bevacizumab Brigatinib Carboplatin Ceritinib Crizotinib Dabrafenib Docetaxel Erlotinib Hydrochloride Everolimus 	 Mechlorethamine Hydrochloride Methotrexate Necitumumab Nivolumab Osimertinib Paclitaxel Paclitaxel Albumin-stabilized Nanoparticle Formulation Pembrolizumab Pemetrexed Disodium Ramucirumab Trametinib
	Source: https://www.cancer.gov/about-cancer/treatment/drugs/lung (accessed 5nov18)		PRECISIC

Example: Drugs approved to treat NSCLC





"Uneasy lies the head that wears a crown."

- Convenience
- Mode of administration
 - Uncertainty
 - Fear
 - Hope
 - Insurance value
 - Option value
 - Financial burden
 - Side effect tolerance
 - Family / caregiver considerations
 - Treatment goals



Does the burden-of-proof for quantifying all these elements of value rest with the innovator, or it is shared more broadly?



Quote from Shakespeare's play Henry IV, Part 2.



Patient perspective is increasingly considered in value assessment

- > Frameworks for evaluating cost-effectiveness are increasingly considering a broader perspective and more patient-centered impacts.
- > Advocacy organizations appear keen to defend patient-centered endpoints.



remoes: Amitabh, Jason Shafrin, and Rawinder Dhawan. "Utility of cancer value frameworks for patients, payers, and physicians." JAMA 315.19 (2016): 2069-2070. Naumann, Peter J., Richard J. Wilke, and Louis P. Garrison." A health economics approach to US value assessment frameworks—introduction: an ISPOR Special Task Foce report [1]: Value in Healt 21.2 (2016): 119-123. ŝ

