

# Virtual World Orphan Drug Conference

4 November 2020



IMPACT-HTA: Special processes to appraise rare disease treatments – Developing feasible, consistent approaches

**Moderator: Sheela Upadhyaya, NICE Consultant**

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# IMPACT-HTA: Special processes to appraise rare disease treatments – Developing feasible, consistent approaches



**Elena Nicod**  
IMPACT HTA WP10  
Co-Principal  
Investigator



**Ana Rath**  
Director,  
INSERM US14



**Niklas Hedberg**  
Chief  
Pharmacist, TLV



**Diane Kleinermans**  
President of the  
Commission of  
Drugs  
Reimbursement,  
INAMI/RIZIV



**Ayesha Ali**  
Medical  
Advisor, Highly  
Specialised  
Services, NHS  
England



**Karen Facey**  
IMPACT-HTA WP10  
Co-Principal  
Investigator

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IMPACT-HTA: Special processes to appraise rare disease treatments – Developing feasible, consistent approaches

*Do we need special processes to appraise medicines for rare diseases?*

Elena Nicod, PhD, Centre for Research on Health and Social Care Management, Bocconi University Milan, Italy – [elena.nicod@unibocconi.it](mailto:elena.nicod@unibocconi.it)

Karen Facey, PhD, Usher Institute, University of Edinburgh, UK – [k.facey@ed.ac.uk](mailto:k.facey@ed.ac.uk)

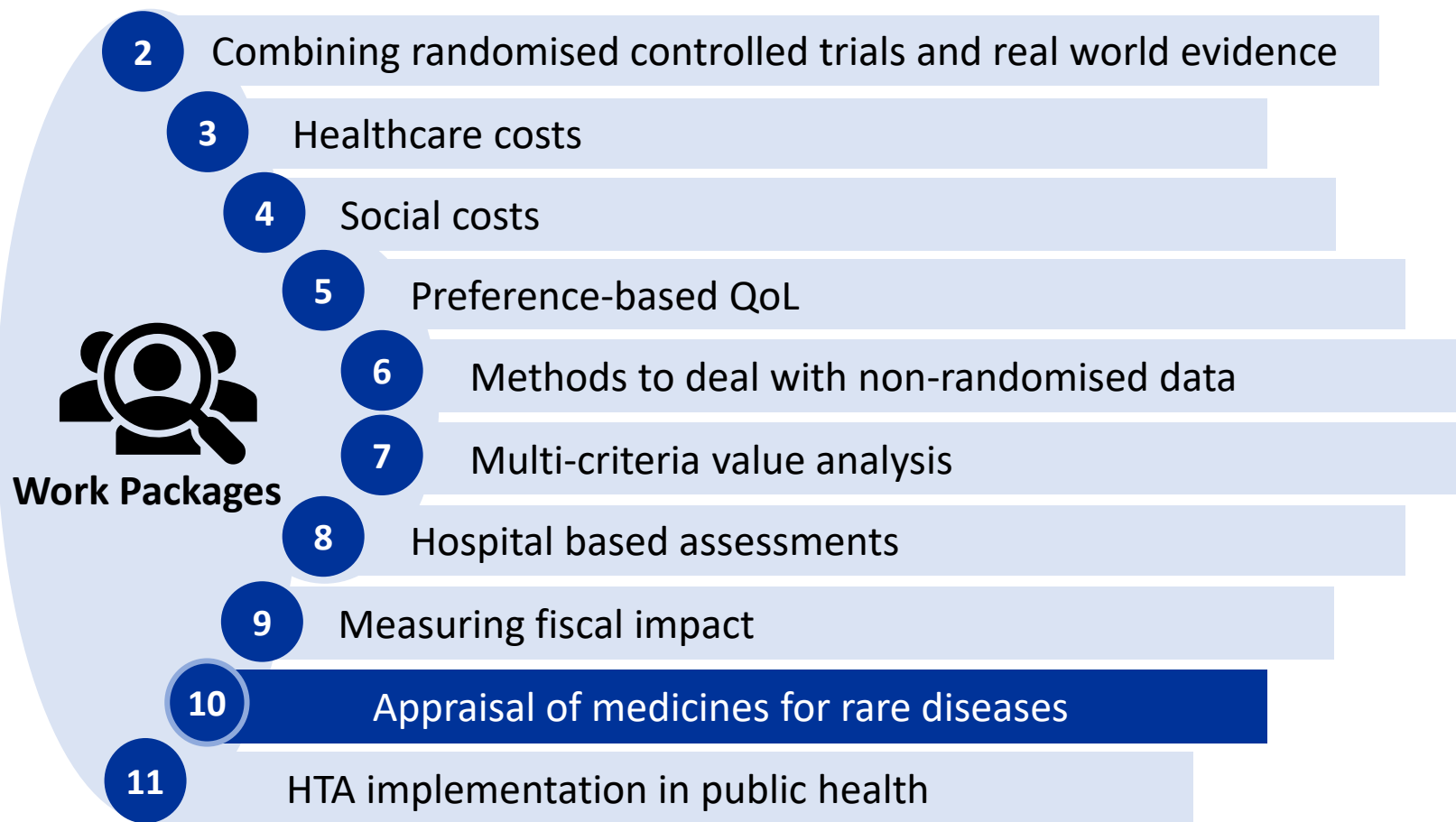


- **Overview of IMPACT-HTA and Work Package 10**
- **What are the common challenges encountered when appraising medicines for rare diseases?**
- **How are countries dealing with these challenges?**
- **What are the key considerations to ensure appraisal processes allow Committees to make the best well-informed decisions?**

## IMPACT HTA

Improved methods and  
actionable tools for enhancing  
HTA

- EC funded H2020 project under the call for improved methods for economic evaluation
- Developing **methods, tools and guidance** for decision-makers in the context of HTA and health system performance



## WP10 team and collaborators

### Team



**Karen Facey PhD CStat  
HonMFPH (co-lead)**  
Senior Research Fellow



**Trenholme Junghans PhD**  
Consultant Anthropologist  
Visiting Research Fellow



**Elena Nicod PhD (co-lead)**  
Research Fellow



**Mike Drummond PhD**  
Professor of Health  
Economics  
University of York  
SDA Bocconi Visiting  
Professor



**Michela Meragaglia PhD**  
Research Fellow



**Amanda Whittal PhD**  
Research Fellow

### Collaborators



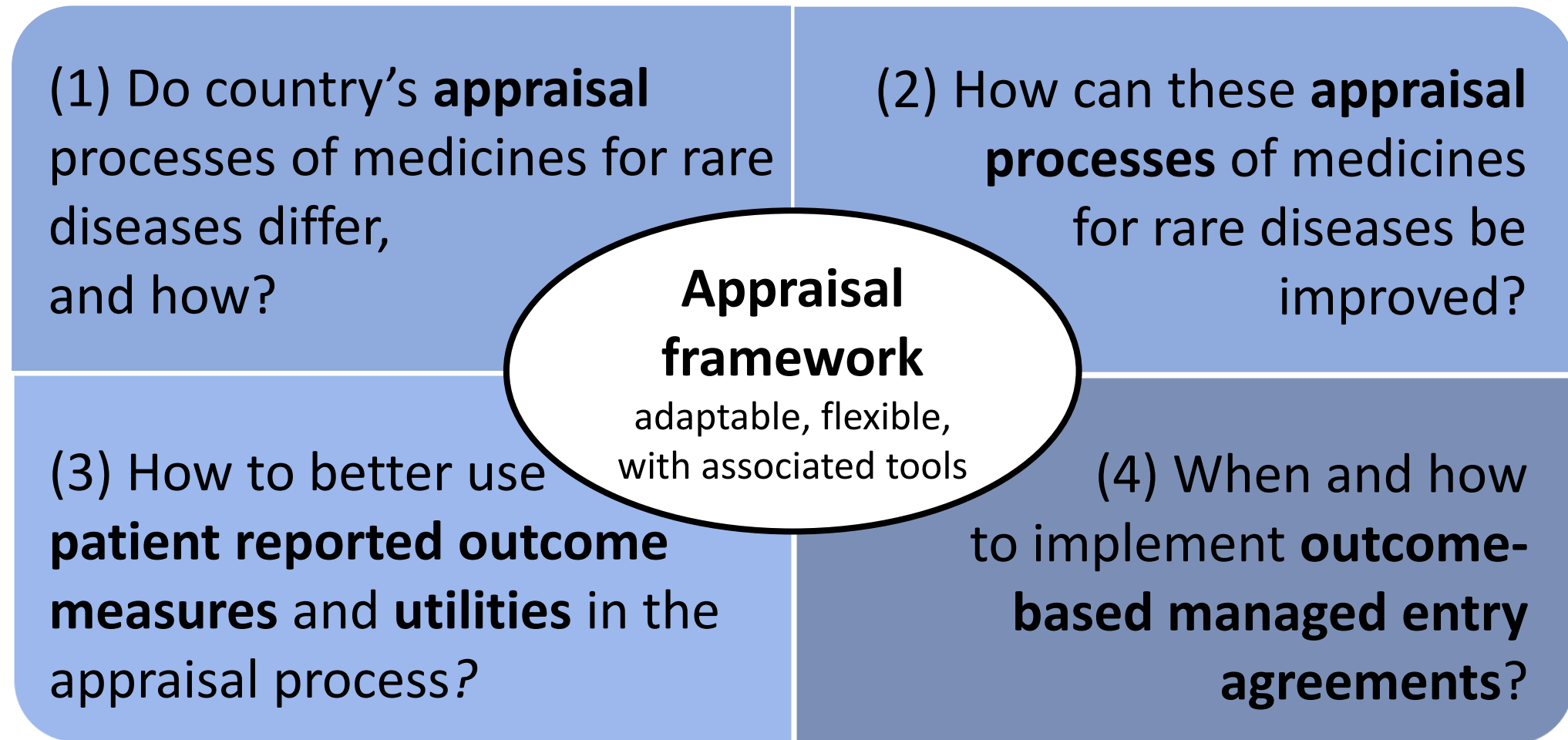
**Sheela Upadhyaya**  
Consultant to NICE Methods Review and  
Accelerated Access Programme



UNIVERSITÀ  
CATTOLICA  
del Sacro Cuore



**Entela Xoxi PharmD, PhD**  
Research Consultant

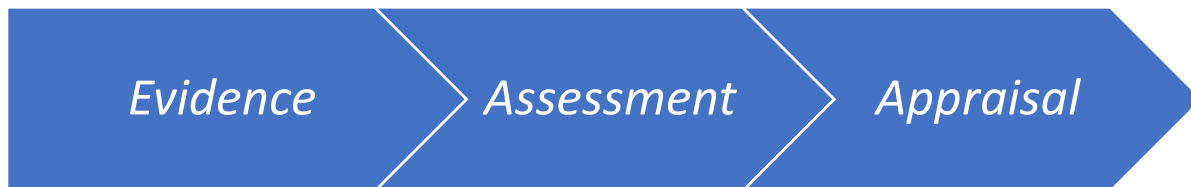




**Health Technology Assessment** is a multidisciplinary process\* that uses explicit methods to determine the **value** of using a *health technology* at different points in its lifecycle

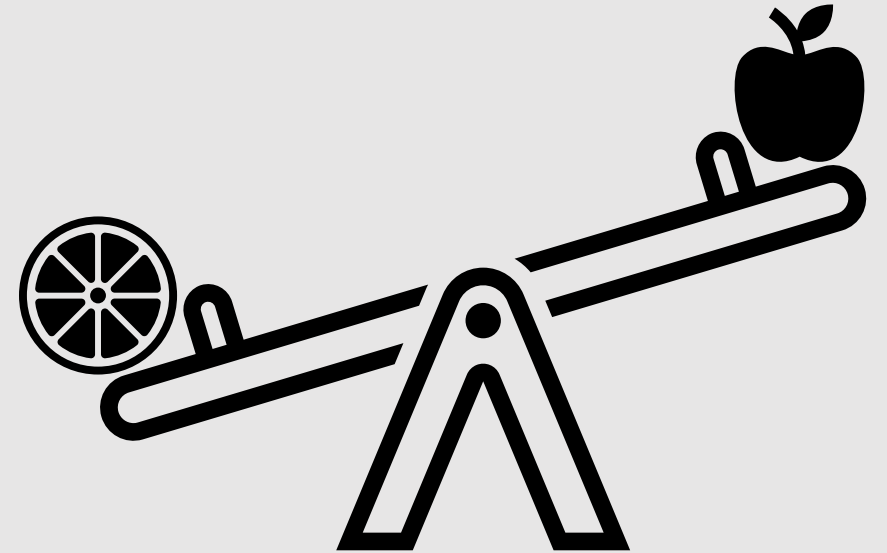
The purpose is to inform health policy and decision-making (*pricing and reimbursement*) to promote an equitable, efficient and high-quality health system

\*The process is formal, systematic, and transparent, and uses state-of-the-art methods to consider the best available evidence



### “Value for money”

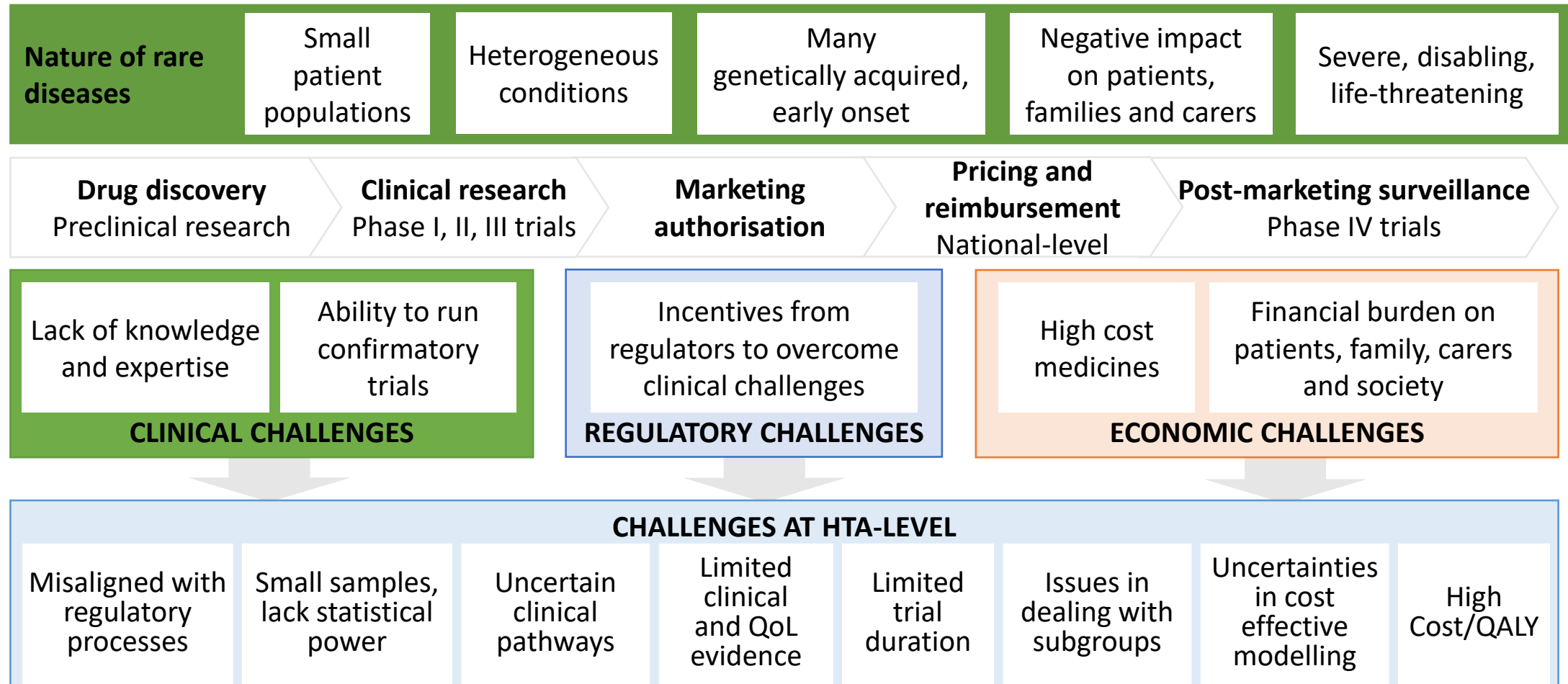
When resources are limited and **choices** have to be made



HTA compares benefits (and sometimes also costs) of a new versus a comparator treatment

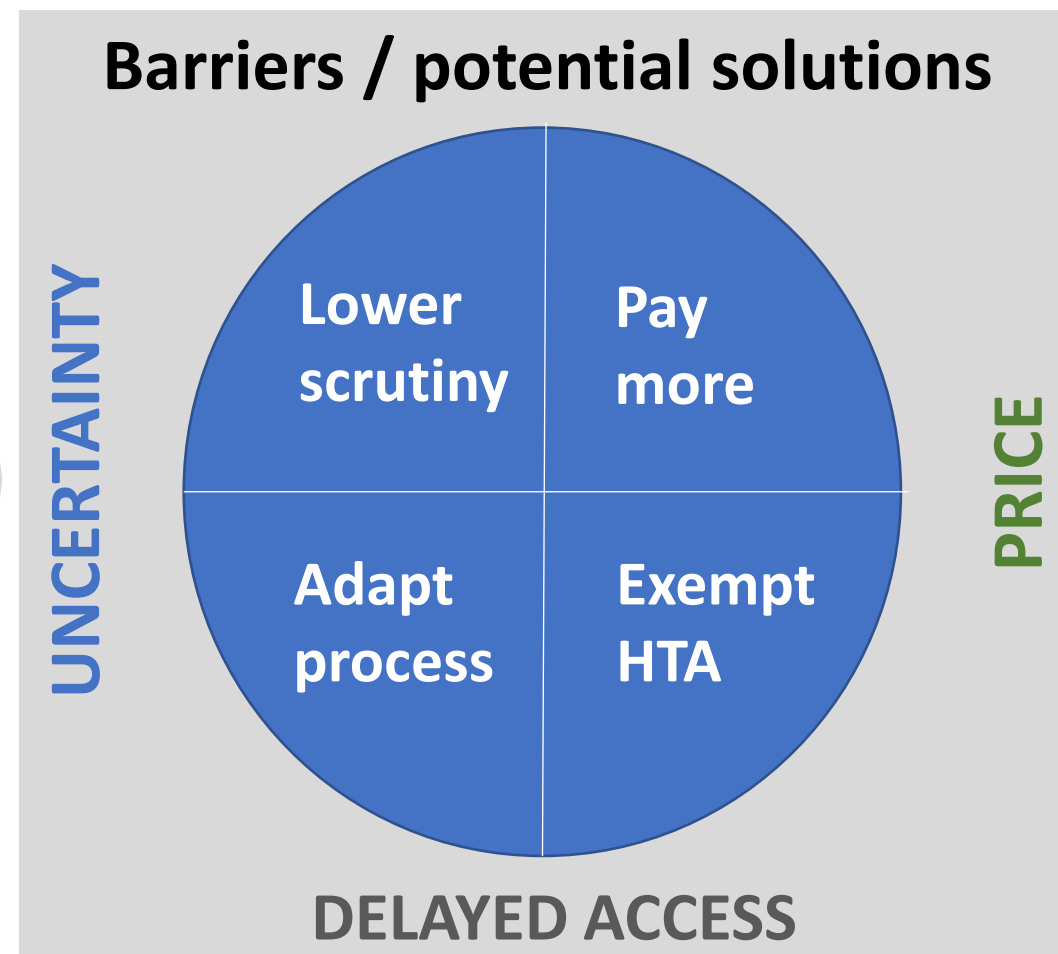


## The difficulties to develop medicines for rare diseases lead to HTA challenges



Conventional HTA appraisal processes may not be suitable to appraise medicines for rare diseases

Often high cost, no/few alternative treatments	High	Higher WTP? Societal preferences
Cost (A) – Cost (B)	= ICER	$\leq$ WTP
Effect (A) – Effect (B)		
Higher uncertainty because of issues around trial design and conduct	Uncertain	Willing to accept greater uncertainty?



41% (13/32) with special HTA processes informing routine use of medicines for rare diseases

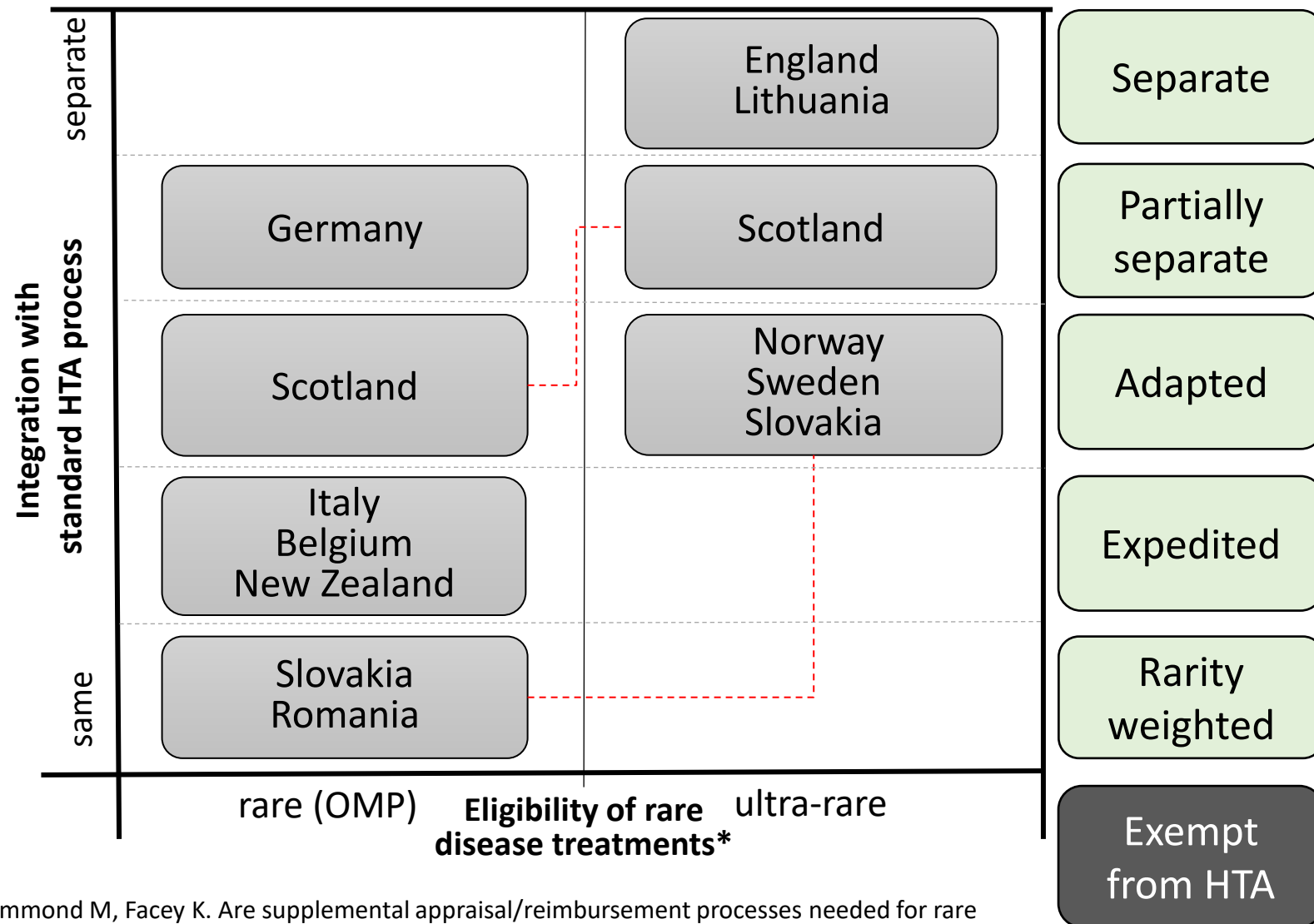
### 37 countries invited

- EU + EAA, New Zealand, Canada, Australia
- 5/37 non-responders excluded

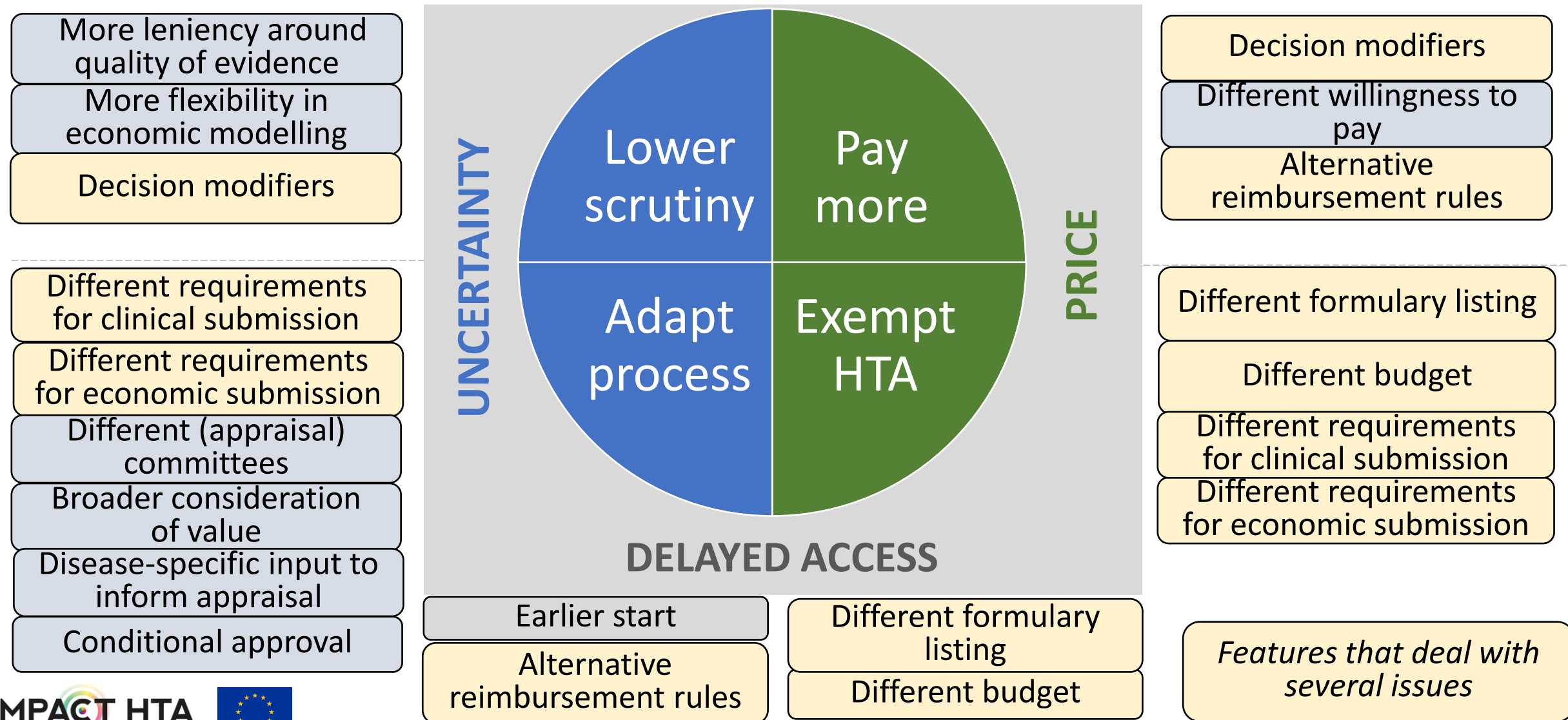
### 32 countries included

[www.impact-hta.eu/country-vignettes](http://www.impact-hta.eu/country-vignettes)

- 41% special process
- 53% standard process
- 6% other programmes applicable to rare disease treatments



Special processes include features – many of which are process adaptations – allowing to better deal with medicines for rare diseases specificities



- Revealed preference to treat medicines for rare diseases differently
  - Special processes in 41% (13/32)
  - Standard processes in 59% (19/32), where:
    - $\geq 1$  features or appraisal criteria likely favouring medicines for rare disease (12/19)
    - planned changes for 4 of remaining 7
- Not about what an ideal process should look like, but about features better dealing with rare disease treatments in a structured and consistent manner
- All issues not being dealt with via special processes, many are new and continue to be adjusted as experience is gained

## RESEARCH

## Open Access

# Are supplemental appraisal/reimbursement processes needed for rare disease treatments? An international comparison of country approaches

Elena Nicod<sup>1\*</sup>, Amanda Whittall<sup>1</sup>, Michael Drummond<sup>2</sup> and Karen Facey<sup>3</sup>

## Abstract

**Background:** There is increasing recognition that conventional appraisal approaches may be unsuitable for assessing the value rare disease treatments (RDTs). This research examines what supplemental appraisal/reimbursement processes for RDTs are used internationally and how they can be characterised. A qualitative research design was used that included (1) documentation of country appraisal/reimbursement processes for RDTs via questionnaires, desk research and iterative interactions with country experts to produce country vignettes, and (2) a cross-country analysis of these processes to identify and characterise features in supplemental processes for RDTs, and compare them to countries without supplemental processes.

**Results:** Thirty-two of the 37 invited countries participated in this research. Forty-one percent (13/32) use supplemental processes for RDTs. Their level of integration within standard processes ranged from low to high, characterised by whether they are separate or partially separate from the standard process, adapted or accelerated standard processes, or standard processes that may be applied to RDTs. They are characterised by features implemented throughout the appraisal process. These features are mechanisms that allow application of different standards to assess the value of the medicine, support to the appraisal/decision-making process, overcome the issues of lack of cost-effectiveness, or exempt from part of/the full appraisal/reimbursement process. They increase the likelihood of reimbursement by adjusting and/or foregoing part of the assessment process, or accepting to pay more for the same added benefit as for common conditions. A large proportion of countries with standard processes include one or more of these features (formally or informally) or are discussing potential changes in their systems.

**Conclusions:** Results suggest revealed preferences to treat RDTs differently than conventional medicines. Some of the challenges around uncertainty and high price remain, but supplemental process features can support decision-making that is more flexible and consistent. Many of these processes are new and countries continue to adjust as they gain experience.

**Keywords:** Rare disease treatment, Orphan medicine, Ultra-orphan medicine, Appraisal, Reimbursement, Access to treatments, Supplemental processes, Health technology assessment



orphanet

The portal for rare diseases and orphan drugs

"Rare diseases are **rare**, but rare disease patients are **numerous**"

Access our Services

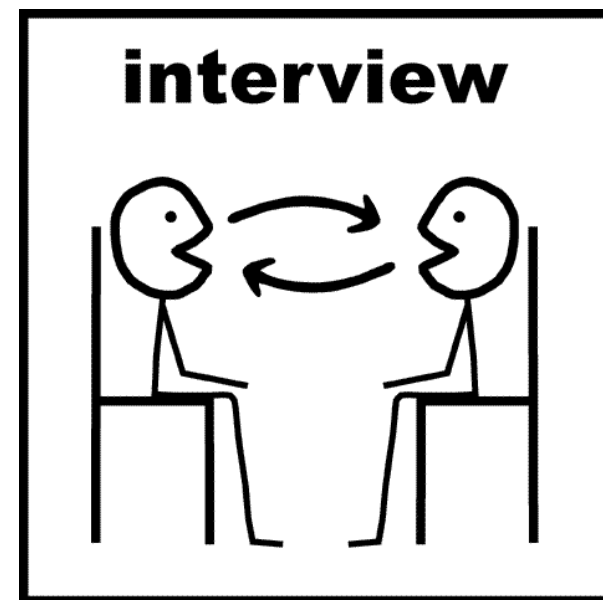
Inventory, classification and encyclopaedia of rare diseases, with genes involved	Inventory of orphan drugs	Directory of patient organisations	Directory of professionals and institutions
Directory of expert centres	Directory of medical laboratories providing diagnostic tests	Directory of ongoing research projects, clinical trials, registries and biobanks	Collection of thematic reports: Orphanet Reports Series



A number of observations on the operationalisation of these process adaptations have arisen from observing HTA appraisal committees

Ethnographic observation, documentation and interviews to explore HTA procedures for medicines for rare diseases (led by Dr Karen Facey, December 2018-February 2021)

- Scottish Medicines Consortium
  - New Drugs Committee
  - Confidential Patient and Clinician Engagement (PACE) Meetings
  - Public SMC Appraisal Committee Meetings
- National Institute for Health and Clinical Excellence
  - TA and HST Appraisal Committee Meetings
- CADTH
  - Confidential appraisal committee meeting



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*Our reflection has been around what is needed within the appraisal process for rare diseases **to allow Committees to make the best decision possible** given each unique circumstance of a disease*

Understanding  
circumstances of  
disease

Adaptable to rare  
disease  
specificities

Structured  
appraisal  
framework

Need to ensure process allows for a good understanding of the individual circumstances of the disease

Understanding  
circumstances  
of disease

>6,000 rare diseases, which are often unique

- Scarcity of knowledge and expertise
- Heterogeneous presentation and progression
- Complex (severity, multi-systemic, disabling, life-threatening, treatment options)

❖ **Flexibility** is needed in appraisal frameworks, but also consistency  $\Rightarrow$  fairness (Accountability For Reasonableness)

❖ **Inputs from clinical and patient experts** are more important to explain the evolving understanding of the disease, who would be treated, what outcomes matter, how clinical trial effects can be interpreted in real-life, the impact on quality of life, and advise on treatment stopping protocols

Appraisal processes should ensure that the value of rare disease treatments is being captured appropriately and consistently

Adaptable to  
rare disease  
specificities

Different process adaptations may help ensure value is being captured given the specificities of rare diseases relating to high levels of uncertainty and price

- ❖ **Additional criteria/alternative processes/modifiers need to be built into the entire HTA process** - evidence submissions for each stakeholder, critical assessment, deliberative discussion (with appropriate frameworks, training and support for all)
- ❖ Any **modifiers** to traditional processes should be explicitly **presented for each product** at each meeting so that all understand what flexibility is possible
- ❖ Value often discussed in the context of, **e.g. severity, unmet need, existence of treatment alternatives, children, equality, innovative nature of treatment**
- ❖ **Stakeholders could help resolve uncertainties if they were notified in advance and able to submit evidence related to specific questions**
- ❖ **Guidance is needed on modelling methods that are feasible for rare diseases** – when are models too unstable to be the basis of decision-making?

## A structured and flexible appraisal framework is needed to ensure fair decision-making

Structured  
appraisal  
framework

The Appraisal framework should be sufficiently structured and flexible to allow Committees to make the best decision for each individual case

- ❖ **Need to characterise different forms (and levels?) of uncertainty and what this means for decision-making**
- ❖ **Need structure for decision-making beyond cost-effectiveness** with clarity about how the decision-making works (stakeholders, invited experts, committee members)
- ❖ If clinical uncertainties can be resolved within a reasonable time period, **outcome-based managed entry agreements may be suitable**

Towards a **flexible** appraisal process better **adapted to reflect individual circumstances of rare diseases** that allows for **fair and consistent decision-making**

**Thank you for your attention!**

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**Ana Rath, PhD**

Director, INSERM and Orphanet

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**Niklas Hedberg**

Chief Pharmacist, Dental and Pharmaceutical  
Benefits Board (TLV)

Chair, EUnetHTA Executive Board



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**Diane Kleinermans, MD**

President of the Commission of Drugs Reimbursement,  
Belgium National Institute for Health and Disability  
Insurance (INAMI/RIZIV)

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**Ayesha Ali, MD**

Medical Advisor, Highly Specialised Services, NHS  
England

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**Karen Facey, PhD**

IMPACT-HTA WP10 So-Principal Investigator  
Usher Institute, University of Edinburgh, UK