

PSI Session: Patient Preference Studies: Challenges and Opportunities

Conny Berlin

Exec Dir Patient Experience Data
Science

 **NOVARTIS** | Reimagining Medicine



What are Patient Preferences?

Patient Experience Data (FDA)




- Data that are collected by any persons and are intended to provide information about patients' experiences with a disease or condition
- Includes the experiences, perspectives, needs and priorities of patients related to (but not limited to):
 - Symptoms of their condition and its natural history
 - Impact of the conditions on their functioning and quality of life
 - Experience with treatments
 - Input on which outcomes are important to them
 - Patient preferences for outcomes and treatments
 - Relative importance of any issues as defined by patients

Patient Preference Studies (FDA, Novartis)

collect and **measure the value or importance** that **patients** place on various **characteristics** of a **medical product** or **disease**, ensuring a **patient-centric approach**.

One typical way to collect patient preferences

- More than 30 different methodologies exist which can answer different types of questions
- Discrete Choice Experiments (DCE) are one of the more common preference methods

DCE Attributes	Treatment A	Treatment B
 Average Survival	3 years	2 years
 Severe Pain	10% chance	20% chance
 Severe Fatigue	40%	30%

Do you prefer treatment A or B:

☐ ☐

A B

Patient Preference Studies – External Expectations

Regulators across the globe are requiring evidence of patient involvement and are expecting robust patient experience data to inform decisions. One form of generating this evidence is the conduct of Patient Preference Studies

- **FDA:** e.g. Patient-Focused Drug Development guidances, Benefit-Risk guidance, CDRH PPS guidance
- **EMA:** e.g. Qualification Opinion on IMI PREFER in 2022, Patient Experience Data reflection paper expected in Q3 2025 with guidance on PPS methods
- **ICH E22** «General considerations for Patient Preference Studies»; Planned finalization in 2026



Patient Preference Information – Voluntary Submission, Review in Premarket Approval Applications, Humanitarian Device Exemption Applications, and De Novo Requests, and Inclusion in Decision Summaries and Device Labeling

Guidance for Industry, Food and Drug Administration Staff, and Other Stakeholders

Document issued on August 24, 2016.
This document will be in effect as of October 23, 2016.

The draft of this document was issued on May 18, 2015.

For questions about this document regarding CDRH-regulated devices, contact the Office of the Center Director (CDRH) at 301-796-5900 or Anindita Saha at 301-796-2537 (Anindita.Saha@fda.hhs.gov).

For questions about this document regarding CBER-regulated devices, contact the Office of Communication, Outreach, and Development (OCOD) at 1-800-835-4709 or 240-402-8010.



U.S. Department of Health and Human Services
Food and Drug Administration
Center for Devices and Radiological Health
Center for Biologics Evaluation and Research



03 May 2022
EMADOC-1700519818-808373
Committee for Medicinal Products for Human Use (CHMP)

Qualification Opinion of IMI PREFER

Draft agreed by Scientific Advice Working Party (SAWP)	30 September 2021
Adopted by CHMP for release for consultation	14 October 2021 ¹
Start of public consultation	15 October 2021 ²
End of consultation (deadline for comments)	25 November 2021 ³
Adopted by CHMP	22 April 2022

Keywords Qualification of Novel Methodologies, IMI PREFER, Patients Preference studies



INTERNATIONAL COUNCIL FOR HARMONISATION OF TECHNICAL
REQUIREMENTS FOR PHARMACEUTICALS FOR HUMAN USE

ICH HARMONISED GUIDELINE

GENERAL CONSIDERATIONS FOR PATIENT PREFERENCE
STUDIES

PSI conference 2025 - Wembley Stadium London

Draft version [5.0. Rev. 29 January 2025]

prefer.
PATIENT PREFERENCES

Patient Preference Studies – External Expectations

HTA bodies / payers are also increasingly demanding evidence of patient involvement, still with a wide variation in approaches.

They might consider patient preferences as supportive evidence as investigated in special HTA projects and communicated in publications and at conferences. However, there are less guidances from HTA than for regulators on when and how preference information might support HTA decisions.

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Commentary

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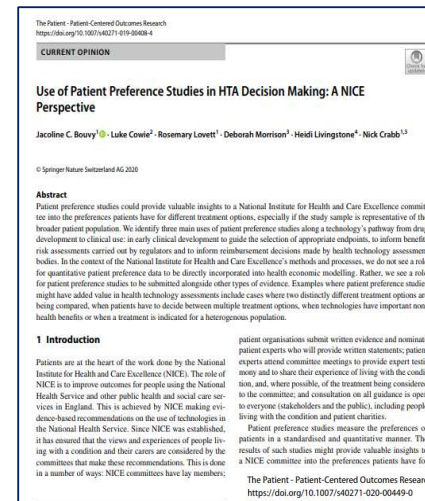
How to integrate evidence from patient preference studies into health technology assessment: a critical review and recommendations

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Abstract

Health technology assessment (HTA) agencies vary in their use of quantitative patient preference data (PP) and the extent to which they have formalized this use in their guidelines. Based on the authors' knowledge of the literature, we identified six different PP "use cases" that integrate PP into HTA in five different ways: through endpoint selection, clinical benefit rating, predicting uptake, input into economic evaluation, and a



Use of Patient Preferences in Health Technology Assessment: Perspectives of Canadian, Belgian and German HTA Representatives

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prefer.
PATIENT PREFERENCES

Abstract

Objective Patient preferences can be informative for health technology assessment (HTA) and payer decision making. However, applications may be different per country. The aim of this study therefore was to investigate HTA representatives' opinions on whether and how to incorporate patient preferences in HTA in their respective countries.

Methods Three country-specific focus groups were conducted with three to seven HTA representatives from Germany, Belgium, and Canada. A predefined focus group guide was used that covered topics relating to how patient preferences can be used in HTA, namely HTA stage, weight, impact, and quality, as well as a case example of gene therapy. Transcripts were analyzed using NVivo 12 following thematic analysis.

Results Across all HTA bodies, an interest in the use of patient preferences was observed for scientific advice and value assessments, but not through incorporation in quality-adjusted life-years and multi-criteria decision analysis. HTA representatives found it difficult to determine the weight patient preferences may receive in decision making, but thought it could have an impact on payer decision making if the study is of acceptable quality.

Conclusions In the near future it may be impossible to achieve structural integration of patient preferences with other evidence in HTA (e.g., in cost-effectiveness analysis), but HTA bodies are willing to incorporate patient preferences in other HTA sections as supportive evidence. To allow for that use, future work should focus on meeting HTA and payer needs when conducting patient preference studies and on education of HTA and payer representatives regarding these studies.



Patient Preference Studies – External Expectations

Regulators, HTA bodies & payers provided consistent messages during IMI PREFER about the use of patient preference information and the robustness of data:

- **Regulators & HTA:** in early clinical development Patient Preference Information is useful to guide the selection of appropriate endpoints
- **Regulators:** to inform benefit-risk assessments
- **HTA:** to inform reimbursement decisions as supportive evidence
- **Regulators & HTA expect**
 - scientifically robust patient preference studies
 - an early dialogue with the study sponsor on the study design and methodology (scientific advice)

These expectations require the right statistical skill set and experience of Patient Preference Studies.

Speaker intro

- **Byron Jones (Novartis)**
- **Michael Bui (University Twente)**
- **Divya Mohan (Open Health)**
- **Cecilia Jimenez Moreno (Kielo Research)**