

Implementing a Program for Early Feasibility Studies in Europe: Goldmine or Fool's Gold?

CO-MODERATORS:

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SPEAKERS



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Patient Advisory Group

HEU-EFS Harmonised approach to Early Feasibility Studies for Medical Devices in the European Union: an overview

Andrea Rappagliosi | Edwards Lifesciences

Maria Luisa Buzelli | Bocconi University

Issue Panel Implementing a Program for Early Feasibility Studies in Europe: Goldmine or Fool's Gold?

ISPOR 2025 | Glasgow, 10 November 2025

Disclaimer

This project is funded by the European Union, the private members, and those contributing partners of the Innovative Health Initiative Joint Undertaking under grant agreement No 101112185. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the aforementioned parties. Neither of the parties can be held responsible.

Challenges

Bringing medical technology innovations to patients in the EU has become increasingly long and difficult.



Rising R&D costs.



Ever-stricter EU regulations.



Lack of harmonised approaches in Member States for facilitating early evidence generations.



Uncertainty for innovators.



Decline in attractiveness of Europe.



European patients missing out on the latest medical technology innovations.

Needs



**New approaches are needed to ensure patients
get a timely access to their treatment and
Europe remains at the forefront of innovation.**

Context: Early Feasibility Studies (EFS)



Investigational Device Exemptions (IDEs) for Early Feasibility Medical Device Clinical Studies, Including Certain First in Human (FIH) Studies

Guidance for Industry and Food and Drug Administration Staff

Document issued on: October 1, 2013

The draft of this document was issued on November 10, 2011.

For questions regarding this document, contact CDRH's Andrew Farb, 301-796-6343, Andrew.Farb@fda.hhs.gov; or Dorothy Abel, 301-796-6366, Dorothy.Abel@fda.hhs.gov; or CBER's Office of Communication, Outreach and Development at 1-800-835-4709 or 301-827-1800.

Introducing new category of clinical investigations, part of regulatory pre-market approval pathway for high-risk medical devices (MD)

WHAT?

- A limited clinical investigation of a device **early in development**.

WHEN?

- Typically, **before the device design has been finalized**, for a specific indication (e.g. innovative device for a new or established intended use).

WHY?

- To **evaluate the device design concept** with respect to initial clinical safety and device clinical performance or effectiveness (if appropriate) as per intended use in a **small number of subjects** when this information cannot practically be provided through additional preclinical assessments or appropriate preclinical tests are unavailable.

EFS in the EU

- EFS provided for in the MDR 2017/745.
- ISO 14155:2020 “Clinical investigation of medical devices for human subjects” introduced a taxonomy for different clinical investigation types.
- However, no standardised procedural framework, guidelines or common reference standards to conduct EFS in the EU.

Start date: 1 October 2023
End date: 30 September 2027

Project information

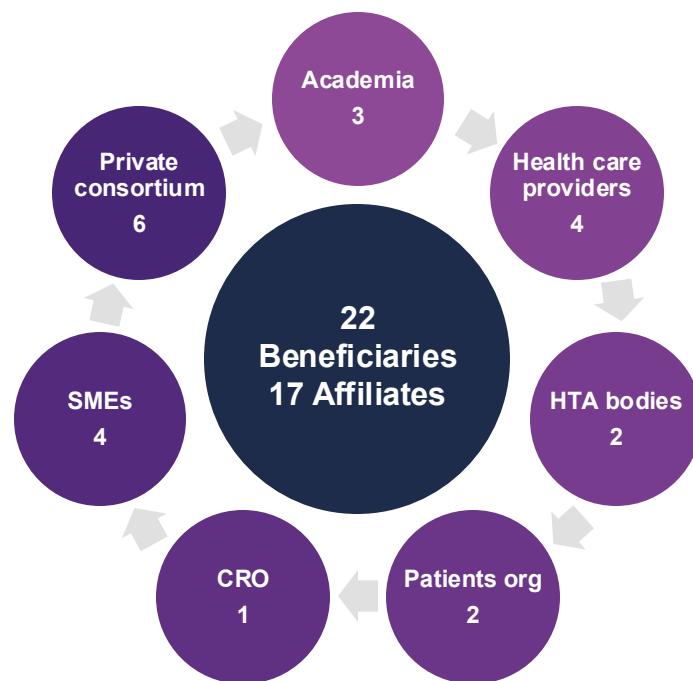
DOI: [10.3030/101112185](https://doi.org/10.3030/101112185)
Total cost: € 19 008 438,75



Goal

Formulate recommendations for the establishment of an Early Feasibility Studies Program within the European Union, with a focus on ensuring **patient safety** and enhancing the EU single market **competitiveness**.

Consortium



Advisory Board

- Competent Authorities
- Notified Bodies
- National Ethics Committees
- Medical societies
- Networks
- Independent Experts
- Trade Association

Patient Advisory Group

10 members

1

Research & Analysis:
State of Play, Barriers, Best practice

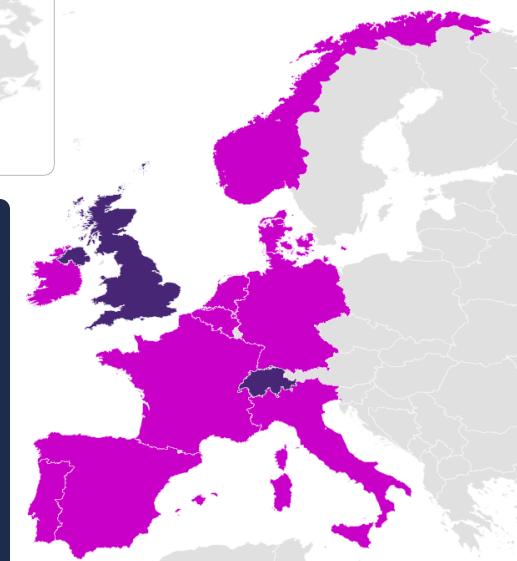


Consortium countries

- 9 EU
- 1 EEA
- 3 non-EU

2

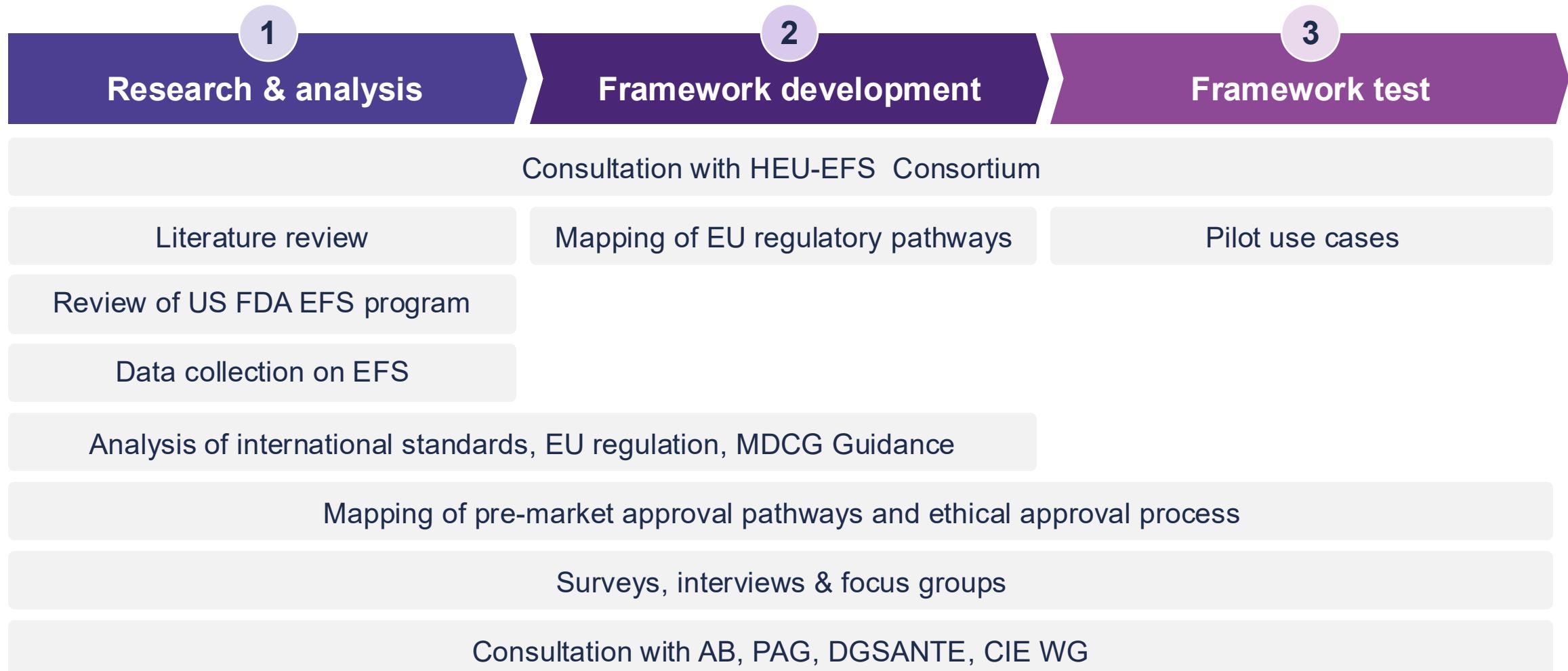
HEU EFS Methodology:
Process, Templates / Checklists, KPIs



3

Pilot Use-Cases:
Pilots to test & validate the methodology

Phases of the HEU-EFS Project



The HEU-EFS Consortium



Expected impact



Patients

Patients with no or little treatment options **access** innovative technologies to improve prognosis & quality of life.



Health systems

Payers and policymakers make **evidence-based, informed investment decisions** that meet patient needs and generate value for society.



Clinical & innovation excellence

Technology providers develop innovations that meet healthcare professional & patient needs.

Healthcare professionals deepen their clinical development **excellence**.

Implementing a Program for Early Feasibility Studies in Europe: Goldmine or Fool's Gold? Regulatory, industry, and patient perspectives

Marta Kerstan | Johnson & Johnson MedTech

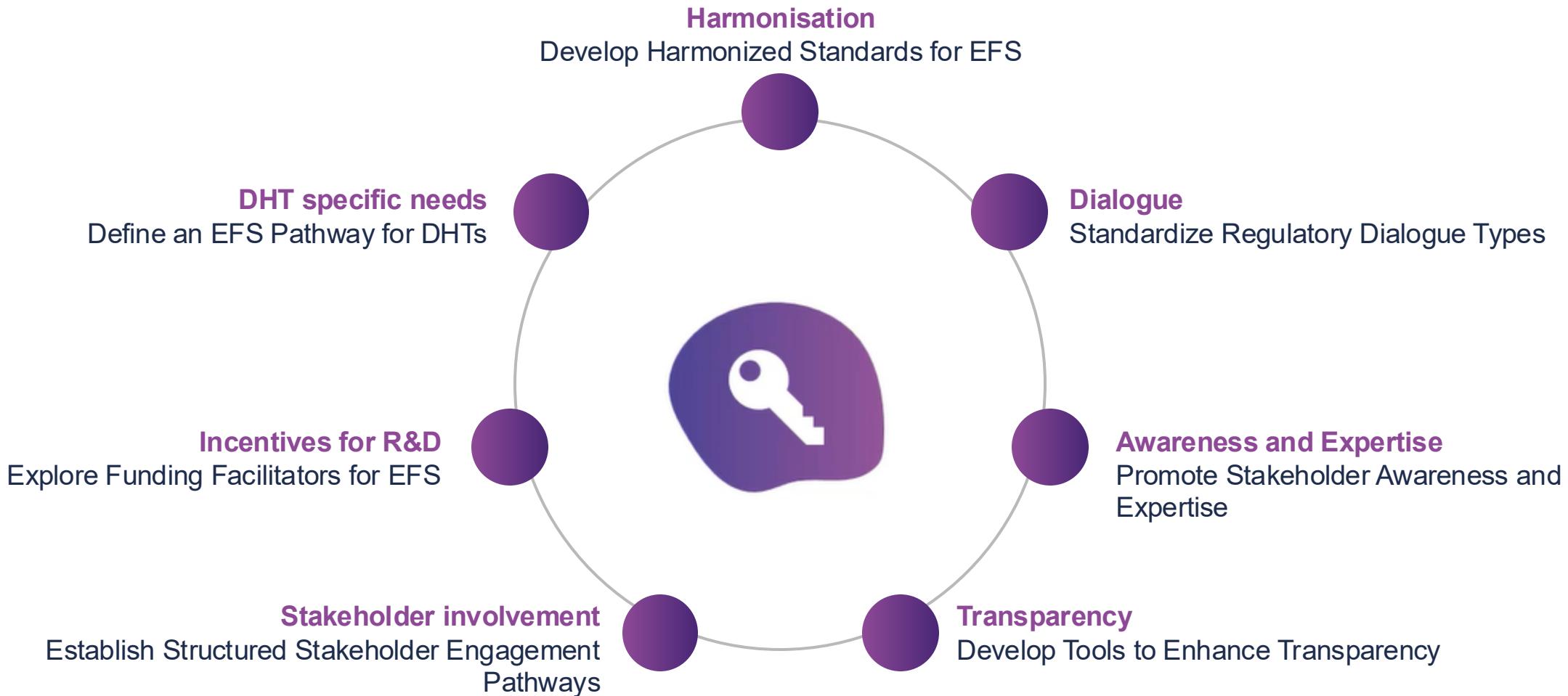
Tom Melvin | University of Galway, Ireland

Lucía Feito Allonca | HEU-EFS Patient Advisory Group (PAG) member

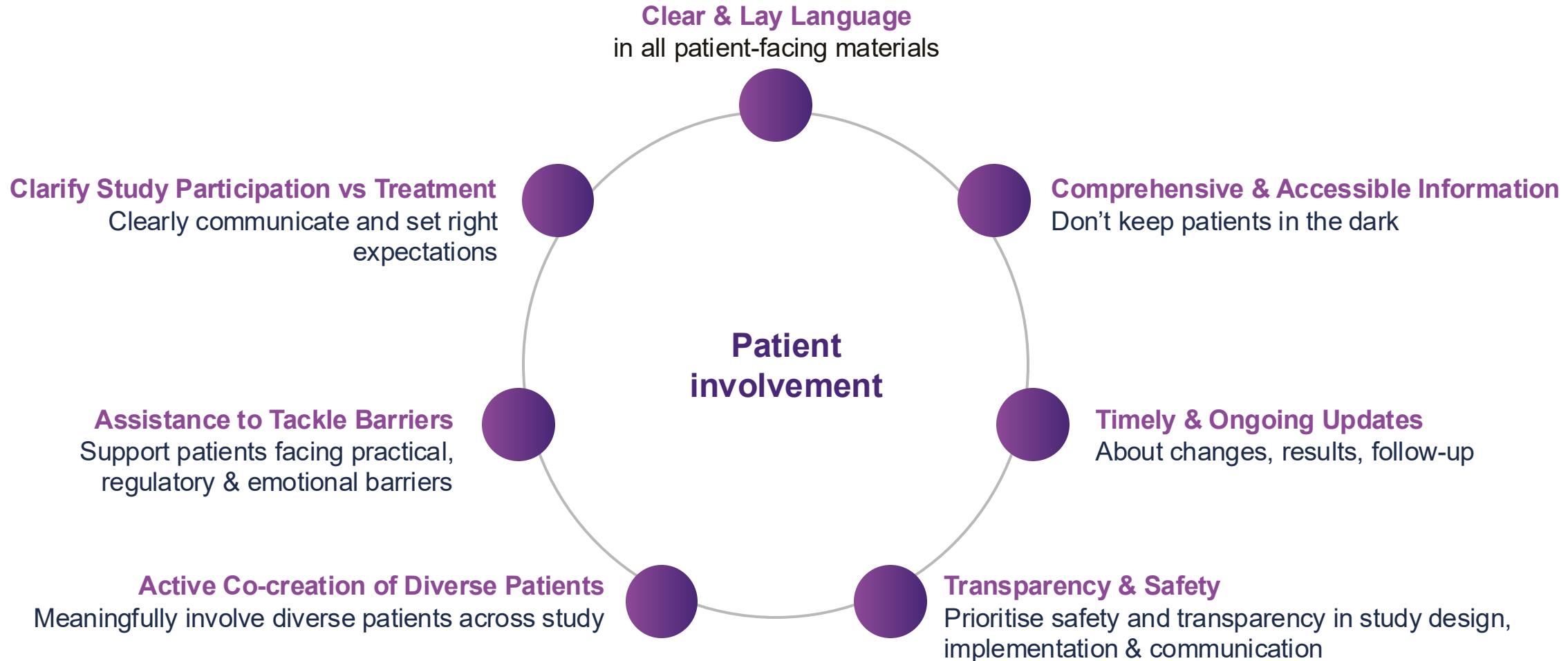
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Key Recommendations



Key Recommendations – Patient involvement & Awareness



HEU-EFS Harmonised approach to Early Feasibility Studies for Medical Devices in the European Union: next steps

Andrea Rappagliosi | Edwards Lifesciences

Maria Luisa Buzelli | Bocconi University

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HEU-EFS is launching public pilots !



Main objectives of pilots

1

To test the HEU-EFS project methodological framework with selected pilot use-cases.

2

To recommend adjustments needed to improve the methodology.



Increase the number of pilots



Expand the patient conditions



Obtain valuable feedback from entities not involved in HEU-EFS preparation



Increase awareness

Call for pilots

Participants will:

Get the opportunity to test streamlined process and templates for EFS submissions.

Benefit from a unique learning opportunity and engage with our consortium experts.

Contribute feedback that will shape the development of the future EU EFS programme.



Criteria:

- Submitting in EU /EEA Country
- EFS planned submission to authorities by Nov 2026

High-risk devices (Class III and Class IIb)

- Breakthrough Device / Unmet Patients Needs
- Anatomical Understanding
- New / Expanded Intended Uses or Indications for Use for Patients

Submission process

Key process steps



About Pilot Application and Implementation

- HEU-EFS Point of Contact manages sponsor interaction & execution of pilots
- Training on HEU-EFS process and documentation will be provided

About the Point of Contact and Screening

- Bocconi University (point of contact) and HEU-EFS Screening Committee responsible for review of pilot application, answer questions and training
- Contact point: pilot@heuefs.eu
- Information: www.heuefs.eu
- Deadline 31st March 2026

Interested in finding out more?



Dedicated Webinar on Pilots on
5 December 2025, 15.00 – 16.00 CET

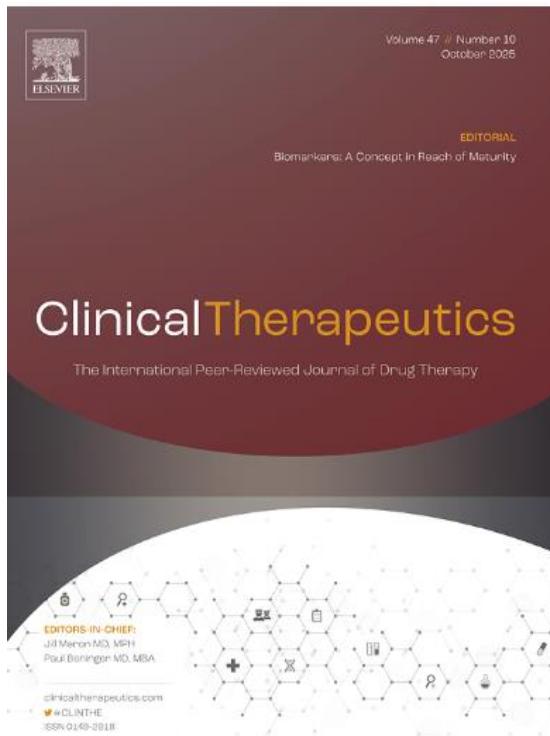
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Call for papers

Early Feasibility Studies for Medical Devices: goldmine or fool's gold?

Submission deadline: **15 December 2025**



Special issue information:

This specialty update will present the experience and lessons learnt in the first 10 years of the FDA EFS Program and discuss the desirability and potential of these studies. It aims to gather empirical evidence and discuss, among others, whether their introduction has been successful in attracting early clinical investigations and facilitating early access to technological innovation in the US, where they stand in the evidence generation plan for MDs, whether products that come to the market after an EFS have a higher risk of safety issues for patients, what are the benefits perceived by the patients, and which feedback mechanisms can be put in place to include their preferences in the development of new MD. Case studies relating to individual technologies that arrived on the market after an EFS was conducted are welcome. We encourage submissions of contributions presenting strengths and weaknesses of EFS with a multi-stakeholder perspective including regulators, clinical sites and trialists, technologies developers, experts of ethical issues, patients and their associations.

[LINK](#)



Q&A



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Thank you!

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Co-funded by
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ISPOR SESSION 043



Day and Time: Monday 10 November, 13:45 – 14:45 – **HALL 1**

Proposed agenda:

- Welcome: Luisa Buzelli (2 mins)
- Brief state of the art in the EU & relevance of the HEU-EFS project (public/private consortium): Andrea Rappagliosi (5 mins)
- Introduction to the HEU-EFS project: Luisa Buzelli (5 mins)
- Presenting perspectives and recommendations from the HEU-EFS project from regulatory, industry, and patient perspectives (30 mins):
 - Harmonisation of applications: Tom
 - Dialogue: Marta & Tom
 - Awareness and expertise: Lucia
 - Transparency: Tom
 - Stakeholder involvement: Lucia
 - R&D support: Marta
 - DHT specific needs: Tom (also mentioning Jmir paper)
- HEU-EFS project's next steps: Call for pilots (Andrea Rappagliosi); call for papers (Luisa Buzelli) (3mins)
- Q&A: (15 mins)

Slides & Upload: each speaker to add their slides to this PPT by **Wednesday 5 November**.

Luisa responsible for PPT upload on ISPOR website

Where to meet on Monday: Speaker Ready Room at conference centre, 11.15am

If you arrive after lunch - directly in Hall 1 at 13.15