

# Biomedical literature supports medical device development

## How does Embase help you?

Embase facilitates biomedical literature research focused on:

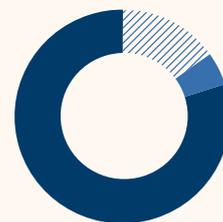
- Device concept and design
- Clinical evaluation reports
- Reimbursement topics
- Post-market surveillance



## What does Emtree contain?

Emtree contains terms for:

- Medical device concepts
- Trade names
- FDA-approved GMDN names
- Medical procedures and more!



## A resource for medical device developers

Embase is recognized as a key resource for medical device development and post-market surveillance.

Information found in the biomedical literature is a significant resource for every stage of the medical device life cycle. Teams focused on concept and design, clinical evaluations, reimbursement discussions, and post-market surveillance all benefit from Embase. It enables straightforward searches of a comprehensive and current biomedical literature database.

Embase is a recommended solution for medical device developers, as described in the following guidelines:

- The European Commission's *Guidance on the clinical evaluation of medical devices – MEDDEV 2.7.1 (rev. 4)*
- The Cochrane Collaboration's *Handbook for systematic reviews of interventions, version 5.1.0*
- The European Network for Health Technology Assessment's *Process of information retrieval for systematic reviews and health technology assessments on clinical effectiveness (version 1.2)*
- The European Medicines Agency's *Guideline on good pharmacovigilance practices (GVP) Module VI*

## Embase's medical device content

Embase is designed to ensure that every user can find the information they need, with features including:

- A comprehensive and up-to-date biomedical literature database containing over 30 million records from more than 8,500 journals and 5,500 conferences
- An indexing system based on the thesaurus Emtree®, which contains tens of thousands of terms relevant for medical device searching
- A dedicated medical device search form to facilitate creation of the complex search strings needed for high-recall, high-precision searches supporting clinical evaluation and adverse event reporting
- Medical device subheadings to focus searches on content related to relevant topics (e.g., adverse device events, device comparison, device economics)
- Search automation and alerting features to ensure that all newly published information is quickly captured and no adverse event is missed

Figure 1. PICO search form

Figure 2. Medical device search form

Figure 3. Medical device search form showing subheadings available to narrow the search down.

## Emtree and medical devices

Emtree contains over 5,000 medical device concept terms, 12,000 trade names, 25,500 alternative labels and 4,000 global medical device nomenclature (GMDN) terms. This supports comprehensive indexing of information of interest to medical device developers.

## How to start searching

Embase offers several ways to search for medical device information, depending on your goal.

For systematic reviews of the literature for clinical evaluation reports, use the **PICO** search form (Figure 1). Using the evidence based method PICO (population, intervention, comparison and outcome), this form enables the building of comprehensive search strategies. Emtree terms and their synonyms can be easily added to the query, significantly speeding up search construction.

For post-market surveillance, use the dedicated **Medical device** search form (Figure 2). This new form, designed in consultation with search and post-market surveillance experts, facilitates rapid construction of high-recall, high-precision search strings that capture mentions of medical device adverse events in a timely manner.

After you input search terms, the **Medical device** search form also offers device subheadings (Figure 3) to narrow the search down to literature with specific classifications of interest.

With extensive international journal and conference coverage, deep biomedical indexing and intuitive search features, Embase is the key resource for generating systemic reviews in support of medical device development and post-market surveillance. Contact us to learn more about you can leverage Embase for your company's success.

## Embase

Embase provides the means to search the world's most comprehensive and up-to-date collection of biomedical literature. The user interface is easy to learn thanks to dedicated query forms for systematic reviews and drug-, disease- or medical device-focused searches. Embase is recommended for key tasks in biomedical research, including gathering evidence for medical recommendations and clinical evaluations.

For more information,  
visit [elsevier.com/embase](https://elsevier.com/embase).

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