Biomedical Literature Supports Medical Device Development

Information found in the biomedical literature is a significant source for every stage of the medical device life cycle, from concept and design through clinical trials to release and reimbursement, as well as post-market surveillance.

In June 2016, the updated Medical Device Clinical Evaluation Report (CER) guidelines came into effect (Revision 4 of MEDDEV 2.7/1), detailing where and how to search for literature and how to record the process of collecting, appraising and analyzing the items found.

Embase provides all the relevant information and essential evidence for creating high-quality systematic reviews that support for medical device development and post-market surveillance. With over 32 million indexed records from c. 8,300 peer-reviewed journals and over 7,000 conferences, Embase is a highly versatile database covering the most important biomedical literature from 1947 to the present day. The unique life science thesaurus Emtree® is used to index the content, ensuring rapid discoverability.

Gather Everything Needed in Straightforward Searches

- Develop an effective and novel device
- Prepare for successful regulatory submissions
- Demonstrate economic benefits
- Establish the device's value, benefits and safety
- Detect safety signals and identify all adverse events
- Remain compliant with post-market surveillance requirements

| >32M records | c. 8,300 journals,* | >2.4M conference abstracts from 2009 to present |
| 4 subheadings for medical devices | >3,000 specific medical device terms | 38 check tags for study types |

* Including >2,900 that are not contained in MEDLINE
Rely on Superior Biomedical Indexing

The full text of articles in Embase is indexed using the Emtree thesaurus, which has over 73,000 preferred terms and subheadings that identify the role of the drug, disease or device in the article. Emtree includes unique non-English content, along with detailed indexing of study types, trial phases, patient populations, etc.

Emtree is a powerful resource for building systematic review searches. Applying relevant Emtree index terms along with any synonyms ensures that results will be as comprehensive as possible without sacrificing precision.

Systematic Guide to Finding Evidence

The evidence-based method PICO (population, intervention, comparison and outcome) enables the building of comprehensive search strategies that inform medical decisions.

Embase offers a dedicated PICO search form that helps to structure evidence-based searches. Emtree terms and their synonyms can be easily added to the query, significantly speeding up search construction.

Pinpoint the Most Relevant Results

Advanced limits specific to device searches, such as device subheadings, randomized controlled trials (RCTs), systematic reviews and meta-analyses, help focus the search on the most relevant content. Dedicated results filters enable users to rapidly zero in on the precise answers.

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.

Discover more at elsevier.com/embase