

## **Emtree 2025.01 release notes**

### **General improvements**

All new MeSH preferred terms and changes for 2025 as published by the NLM were incorporated into Emtree. Please note that we don't use ambiguous terms, which is why we have not added 9 MeSH terms over the years, as they appear in MeSH, but with disambiguation information (see statistics).

### **Diseases**

In total 436 new disease concepts were introduced:

- A new hierarchy was created under 'chemically induced disease', bringing together various previously unrelated concepts, and whereby 58 drug dependence-related new terms (a.o. intoxication, craving, harm and withdrawal-related), as well as 140 new experimental disease terms were added
- Review of "eye disease"-hierarchy and addition of among others 12 anopia-, 11 scotoma- and 5 coloboma-related new concepts.
- 17 new pain- and discomfort-related terms have been added.
- 16 new aphasia-related concepts have been added.
- Introduction of postprandial disease branchlet with 8 new concepts.
- Introduction of stroke complication branchlet with 6 concepts.
- Correction for "autotomy" by disambiguation of this concept and move from under 'cell division' towards "automutilation" respectively "autoamputation (animal)".
- Correction of "thorax outlet syndrome" by splitting off narrower labels into becoming its narrower terms.
- 50+ terms have been added as a part of ongoing project of taxonomy enrichment of disease branch "congenital disorders" with terms included based on to the classification based on WHO classification of birth defects and ICD-11 classifications.
- Revision and addition of terms from existing taxonomies in view of expanding disease taxonomy.

### **Drugs and chemicals**

Updates regarding all routinely monitored sources were provided.

- The content of list 131 (published on 11/09/2024) of proposed INNs the including the COVID-19 special edition as published by the WHO was incorporated (229 entries) and published corrections on previous lists were processed.
- The United States Adopted Names published from July 2024 until October 2024 (included) were incorporated.
- Names of newly approved drugs, drugs under consideration and drug trade names as published by the FDA, EMA and MHRA in the period June 2024 – September 2024 (included) were incorporated.

In total, 279 new concepts have been added.

### **Medical devices**

524 new alternative labels have been added to the medical device branch of Emtree.

- Of these 524 new alternative labels 418 comprise new device trade names. Most of these device trade names were sourced directly from their corresponding manufacturers. This is an ongoing effort and will be continued in future releases.
  - These also include FDA's recently approved devices until the date of Emtree editorial freeze.
- 30 new concepts have been added to the medical device branch of Emtree.
  - Concepts associated with 'signal amplifiers', 'educational devices', 'audiovisual aid', 'photovoltaic device' have been added. For full coverage of concept and altlabel additions see the document 'Emtree terms added and changed (January 2025)'

### **Anatomy**

In total 50 new anatomy terms were added, among which:

- 18 new joint-related terms
- addition of 'surgical stump'-branchlet of 6 new terms
- addition of 9 animal-related new anatomy terms

Correction of 'stamina' by disambiguation into 'stamina (plant)' and 'stamina (physical)'.

### **Procedures**

New additions were made to several procedure-branches:

- Review of amputation-hierarchy, moving 'amputation' out from under 'orthopedic surgery' upto 'surgery', thereby bringing together orthopedic and various soft-tissue amputations into one hierarchy, and addition of 25 new amputation-related concepts.
- Addition of new 'surgical fixation'-branchlet and introduction of 24 new concepts.
- Addition of new 'tamponade (procedure)'-branchlet with 10 new concepts.
- Addition of 23 new plastic surgery concepts.
- Addition of 10 new cautery-related concepts.
- Correction for "sex reversal" by disambiguation of these labels and moving them to the general procedure ("gender reassignment"), surgery ("gender affirming surgery") and the biological process ("sex reversal process")
- 'Personality test' and 'personality assessment' have been merged.

### **Chemical phenomena:**

- Addition of new 'coupling reaction' and 'rearrangement reaction'-branchlets with 23 new reaction-related concepts.

- Addition of 12 new chemical bonds.

### **Parameters**

- Addition of 7 new mortality and 4 new morbidity terms
- Addition of 6 new survival-related concepts.

### **Biological function:**

- Addition of 'sex determination process'-branchlet and addition of 7 new terms (a.o. the disambiguated "sex reversal process" term, see bullet point under Procedures).
- Review of 'reproduction' hierarchy and introduction of 5 new 'pollination system'-related terms.
- Correction of 'cannibalism' by moving it out from under 'crime' towards 'predation', and addition of 3 narrower terms (of which 'human cannibalism' was also placed under 'crime').

### **Organisms**

In total there are 118 new entries with 336 synonyms added. Amongst these are 37 new SARS-CoV-2 variants/strains and 56 SARS-CoV-2 pseudotyped viruses.

As WHO marked Monkeypox virus (MPXV, mpox) as a threat, we have also included the two main and each two subclades of mpox (clade I, Ia, Ib, II, IIa and IIb) and 4 respective strains.

### **Society**

- 31 new education-related concepts were added
- 11 new 'expectation'-related concepts were added
- Addition of consent-, legal duty- and legal liability-branchlets whereby 11, 8 resp. 8 new terms were added.

### **Named groups of persons:**

Due to the introduction of "pregnant person" changes were made to the hierarchy for "named groups by pregnancy" and "female by pregnancy history" was introduced as a new term,

as well as addition of a further 14 person-related concepts.