

## **Emtree 2021.03 release notes**

### **General improvements**

The developments on Covid-19 retains our special attention, more detail can be found below.

### **Diseases**

195 disease concepts have been added including:

- Additions of 3 disorders linked to COVID-19 (1 disease variant, 1 disease complication and 1 vaccination-related complication)
- Revision and expansion of “zoonosis” branch is completed. As a part of Emtree taxonomy improvement “zoonosis” was significantly expanded and got more hierarchy levels in between in Emtree 2021.02 with 4 top nodes with 311 diseases. In current version 4 nodes remain the same, the number of diseases increased up to 358 (47 concepts were added or moved to this branch, incorrectly assigned altlabels transferred/new concepts created)
- Revision and expansion of “meningitis” branch. As a part of Emtree taxonomy improvement “meningitis” expanded and from 18 NTs with 26 diseases in Emtree 2021.01 to 9 NTs with 80 diseases, hierarchy levels were significantly improved. (54 new concepts were added or moved to this branch, incorrectly assigned altlabels transferred/new concepts created)
- Revision and expansion of “encephalitis” branch. As a part of Emtree taxonomy improvement “encephalitis” expanded and from 12 NTs with 69 diseases in Emtree 2021.01 to 13 NTs with 133 diseases, hierarchy levels were significantly improved (64 new concepts were added or moved to this branch, incorrectly assigned altlabels transferred/new concepts created)
- Revision and expansion of “thrombocytopenia” branch. As a part of Emtree taxonomy improvement “thrombocytopenia ” expanded and from 10 NTs with 12 diseases in Emtree 2021.01 to 11 NTs with 31 diseases, hierarchy levels were significantly improved (19 new concepts were added or moved to this branch, incorrectly assigned altlabels transferred/new concepts created)
- Revision and expansion of “fracture” branch, by addition of synonyms throughout the branch and expansion by 38 new concepts.
- Addition of 4 “atherosclerotic plaque”-related concepts
- Addition of 8 experimental diseases.

### **Drugs and chemicals**

- Updates with regards to all sources that are routinely monitored have been provided.
  - The United States Adopted Names published from March 2021 until June 2021 (included) were incorporated.
  - Names of newly approved drugs, drugs under consideration, orphan drug assignments and drug trade names as published by the FDA, EMA and MHRA in the period February 2021 - May 2021 (included) were incorporated.
  - The content of list 125 - COVID-19 special edition (published on 08/06/2021) of proposed INNs as published by the WHO was incorporated (1 entry).

- Data on COVID-19 related clinical trials as published on ClinicalTrials.gov (database of privately and publicly funded clinical studies conducted around the world, supplied by the US National Library of Medicine) was used to identify relevant new COVID-19/SARS-CoV-2 concepts or additional synonyms for addition within the regular editorial guidelines.
- Taxonomy data on COVID-19 vaccines was updated with (WHO or nationally) approved vaccines and new trade names etc.
- In total, 108 new concepts were added.

### **Medical devices**

- 37 new device concepts have been added to Emtree. There has been an addition of 28 concepts related to in vitro diagnostic test kits.
- 287 GMDN terms and definitions have been incorporated to existing and new concepts providing a connection with terms as used by FDA's GUDID. 250 of the above GMDN terms are related to in vitro diagnostics. 85 GMDN codes attached to former GMDN terms have been deduplicated, a GMDN code relates to one GMDN term.
- 691 device trade names have been added, including FDA approved devices till date of editorial freeze. 575 device trade names have been extracted from device manufacturer websites; this will be continued for more device manufacturers.
- In total 1063 alternative labels have been added to medical device concepts.

### **Procedures**

- Expansion of "asepsis"-branch by 7 new sterilization-based procedures.
- Expansion of "orthopedic surgery"-branch by 31 new procedures
- Addition of 6 "immunoprecipitation" and 4 genetic "purification" procedures
- Addition of 5 "myography" procedures

### **Anatomy**

- Addition of 86 SARS-COV-2 related cell lines.

### **Organisms**

In total: 145 new labels and in total 32 new organism concepts have been added as part of the integration of COVID-19 related concepts

- Where possible the new synonyms with Greek letters have been added to existing concepts.
- 16 new SARS-CoV-2 isolates/variants/strains have been added to the taxonomy
- 100 new labels have been added

as part of regular improvements:

- 16 new concepts have been added

### **Society and environment**

- Addition of 7 identity, 6 diversity and 6 inequality concepts
- Expansion of “biomedical disciplines, science and art” by 12 scientific fields
- Expansion of “cognitive bias”-branch by 6 concepts

### **Biological functions**

- Expansion of “taxis response”-branch by 12 “...taxis” and 6 related “...sensing”-terms
- Addition of 5 “...tropism” terms