



| ADVERSE OCCURRENCE TAXONOMY |                                   |                                          |                           |                     |            |                                                                      |                                                   |                                                      |
|-----------------------------|-----------------------------------|------------------------------------------|---------------------------|---------------------|------------|----------------------------------------------------------------------|---------------------------------------------------|------------------------------------------------------|
| LEVEL 1                     | LEVEL 2                           | LEVEL 3                                  | LEVEL 4                   | LEVEL 1             | LEVEL 2    | LEVEL 3                                                              | LEVEL 4                                           |                                                      |
| Harm to a recipient         | Infection                         | Fungal                                   | Rhodotorula               | Harm to a recipient | Malignancy | Blood and lymphoid                                                   | Lymphoma, B-cell, marginal zone                   |                                                      |
|                             |                                   |                                          | Scedosporium              |                     |            |                                                                      | Lymphoma, B-cell, other or not further specified  |                                                      |
|                             |                                   |                                          | Sporothrix                |                     |            |                                                                      | Lymphoma, NK cell                                 |                                                      |
|                             |                                   | Prion                                    | CJD                       |                     |            |                                                                      | Lymphoma, T cell                                  |                                                      |
|                             |                                   |                                          | vCJD                      |                     |            |                                                                      | Lymphoma, type not specified                      |                                                      |
|                             |                                   |                                          | Parasitic                 |                     |            |                                                                      | Acanthamoeba                                      | MGUS (monoclonal gammopathy of unknown significance) |
|                             |                                   | Babesia                                  |                           |                     |            |                                                                      | Multiple myeloma/plasmacytoma leukemia            |                                                      |
|                             |                                   | Balamuthia                               |                           |                     |            |                                                                      | Myelodysplastic syndrome                          |                                                      |
|                             |                                   | Clonorchis                               |                           |                     |            |                                                                      | Plasmacytoma, extra medullary                     |                                                      |
|                             |                                   | Echinococcus                             |                           |                     |            |                                                                      | Polycythemia vera                                 |                                                      |
|                             |                                   | Halicephalobus                           |                           |                     |            |                                                                      | Bone and cartilage                                | Bone cancer, other or type not specified             |
|                             |                                   | Leishmania                               |                           |                     |            |                                                                      |                                                   | Chondrosarcoma                                       |
|                             |                                   | Plasmodium                               |                           |                     |            |                                                                      |                                                   | Osteosarcoma                                         |
|                             |                                   | Schistosoma                              |                           |                     |            |                                                                      | Breast                                            | Ductal adenocarcinoma                                |
|                             |                                   | Strongyloides                            |                           |                     |            |                                                                      |                                                   | Lobular adenocarcinoma                               |
|                             |                                   | Toxoplasma                               |                           |                     |            |                                                                      |                                                   | Breast cancer, other or type not specified           |
|                             |                                   | Trypanosoma                              |                           |                     |            |                                                                      | Cardiovascular                                    | Atrial myxoma                                        |
|                             |                                   | Wuchereria                               |                           |                     |            |                                                                      |                                                   | Cardiac, other or type not specified                 |
|                             | Type not specified                | Central nervous system                   | Astrocytoma (WHO grade 1) |                     |            |                                                                      |                                                   |                                                      |
|                             | Carcinoma of unknown primary site |                                          | Astrocytoma (WHO grade 2) |                     |            |                                                                      |                                                   |                                                      |
|                             | Cancer, multiple types            |                                          | Astrocytoma (WHO grade 3) |                     |            |                                                                      |                                                   |                                                      |
|                             |                                   |                                          | Adrenal                   |                     |            | Adrenal cancer, other or type not specified                          | Astrocytoma/glioblastoma multiforme (WHO grade 4) |                                                      |
|                             | Adrenal cortical carcinoma        |                                          |                           |                     |            | Astrocytomas and glioblastomas not further specified (WHO grade 1-4) |                                                   |                                                      |
|                             | Pheochromocytoma                  |                                          |                           |                     |            | CNS lymphoma                                                         |                                                   |                                                      |
|                             | Malignancy                        |                                          | Blood and lymphoid        |                     |            | Essential thrombocythemia (thrombocytosis)                           | CNS tumor, other or type not specified            |                                                      |
|                             |                                   |                                          |                           |                     |            | Histiocytic neoplasm, not further specified                          | Ependymoma (WHO grade 2-3)                        |                                                      |
|                             |                                   |                                          |                           |                     |            | Hodgkin lymphoma                                                     | Medulloblastoma (WHO grade 4)                     |                                                      |
|                             |                                   |                                          |                           |                     |            | Leukemia, lymphocytic, acute lymphoblastic                           | Gastrointestinal                                  | Anal adenocarcinoma                                  |
|                             |                                   |                                          |                           |                     |            | Leukemia, lymphocytic, chronic                                       |                                                   | Anal squamous cell carcinoma                         |
|                             |                                   |                                          |                           |                     |            | Leukemia, lymphocytic, not further specified                         |                                                   | Anus cancer, other or type not specified             |
|                             |                                   |                                          |                           |                     |            | Leukemia, monocytic, acute                                           |                                                   | Appendix adenocarcinoma NOS                          |
|                             |                                   |                                          |                           |                     |            | Leukemia, myeloid, acute myelogenous (includes myeloid sarcoma)      |                                                   | Appendix mucinous adenocarcinoma                     |
|                             |                                   |                                          |                           |                     |            | Leukemia, myeloid, chronic myelogenous                               |                                                   | Appendix cancer, other or type not specified         |
|                             |                                   | Leukemia, myeloid, not further specified |                           |                     |            | Esophageal adenocarcinoma                                            |                                                   |                                                      |
|                             |                                   | Leukemia, myeloid, promyelocytic         |                           |                     |            | Esophageal squamous cell carcinoma                                   |                                                   |                                                      |
|                             |                                   | Leukemia, type not specified             |                           |                     |            | Esophageal cancer, other or type not specified                       |                                                   |                                                      |
|                             |                                   | Lymphoma, B cell, follicular             |                           |                     |            | Gastric adenocarcinoma                                               |                                                   |                                                      |
|                             |                                   | Lymphoma, B-cell, Burkitt                |                           |                     |            | Gastric cancer, other or type not specified                          |                                                   |                                                      |
|                             |                                   | Lymphoma, B-cell, diffuse large type     |                           |                     |            | Gastrointestinal carcinoid/neuroendocrine tumor                      |                                                   |                                                      |
|                             |                                   | Lymphoma, B-cell, mantle zone            |                           |                     |            | Gastrointestinal stromal tumor (GIST)                                |                                                   |                                                      |

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|-----------------------------|------------|-------------------------------------------|-----------------------------------------------------|---------------------|------------|-----------------------------------|----------------------------------------------------------|
| LEVEL 1                     | LEVEL 2    | LEVEL 3                                   | LEVEL 4                                             | LEVEL 1             | LEVEL 2    | LEVEL 3                           | LEVEL 4                                                  |
| harm to a recipient         | malignancy | Gastrointestinal                          | Large bowel adenocarcinoma                          | Harm to a recipient | Malignancy | Lung and lower respiratory system | Lung cancer, small cell                                  |
|                             |            |                                           | Large bowel cancer, other or type not specified     |                     |            |                                   | Lung cancer, squamous cell (bronchogenic)                |
|                             |            |                                           | Small bowel adenocarcinoma                          |                     |            |                                   | Lung cancer, other or type not specified                 |
|                             |            |                                           | Small bowel gastrointestinal stromal tumor (GIST)   |                     |            |                                   | Tracheal cancer                                          |
|                             |            |                                           | Small bowel cancer, other or type not specified     |                     |            |                                   | Neuroendocrine carcinoma                                 |
|                             |            | Germ cell, sex cord and related tumors    | Choriocarcinoma                                     |                     |            | Neuroendocrine tumor              |                                                          |
|                             |            |                                           | Embryonal cell carcinoma                            |                     |            | Small cell carcinoma              |                                                          |
|                             |            |                                           | Granulosa cell tumor                                |                     |            | Ovaries and fallopian tubes       | Endometrioid ovarian carcinoma                           |
|                             |            |                                           | Leydig cell tumor                                   |                     |            |                                   | Mucinous ovarian carcinoma                               |
|                             |            |                                           | Mixed germ cell tumor                               |                     |            |                                   | Serous ovarian carcinoma                                 |
|                             |            |                                           | Seminoma/dysgerminoma                               |                     |            |                                   | Brenner tumor/transitional cell carcinoma                |
|                             |            |                                           | Sertoli-Leydig cell tumor                           |                     |            |                                   | Ovaries and fallopian tubes, other or type not specified |
|                             |            |                                           | Teratoma                                            |                     |            | Pancreas                          | Acinic/acinar cell carcinoma                             |
|                             |            |                                           | Yolk sac tumor                                      |                     |            |                                   | Islet cell tumor                                         |
|                             |            |                                           | Germ cell tumor, other or type not specified        |                     |            |                                   | Pancreatic (ductal) adenocarcinoma                       |
|                             |            |                                           | Sex cord tumor, other or type not specified         |                     |            |                                   | Pancreatic intraepithelial neoplasia (PanIN)             |
|                             |            | Nasopharyngeal carcinoma                  | Pancreas cancer, other or type not specified        |                     |            |                                   |                                                          |
|                             |            | Head and neck                             | Ocular melanoma                                     |                     |            | Parathyroid                       | Parathyroid carcinoma                                    |
|                             |            |                                           | Salivary gland carcinoma                            |                     |            |                                   | Parathyroid cancer, other or type not specified          |
|                             |            |                                           | Squamous cell carcinoma, larynx and hypopharynx     |                     |            | Pleura and peritoneum             | Mesothelioma                                             |
|                             |            |                                           | Squamous cell carcinoma, tongue and oral cavity     |                     |            |                                   | Pleura and peritoneum, other or type not specified       |
|                             |            |                                           | Head and neck cancer, other or type not specified   |                     |            | Prostate                          | Prostate adenocarcinoma/carcinoma                        |
|                             |            | Angiomyolipoma                            | Prostate cancer, other or type not specified        |                     |            |                                   |                                                          |
|                             |            | Kidney and urinary tract                  | Renal cell carcinoma                                |                     |            | Skin                              | Basal cell carcinoma                                     |
|                             |            |                                           | Renal oncocytoma                                    |                     |            |                                   | Melanoma                                                 |
|                             |            |                                           | Renal cancer, other or type not specified           |                     |            |                                   | Merkel cell carcinoma                                    |
|                             |            |                                           | Urothelial (transitional) cell carcinoma            |                     |            |                                   | Squamous cell carcinoma                                  |
|                             |            |                                           | Bladder adenocarcinoma                              |                     |            |                                   | Skin cancer, other or type not specified                 |
|                             |            |                                           | Urinary tract neoplasm, other or type not specified |                     |            | Soft tissue/sarcoma               | Angiomyolipoma                                           |
|                             |            |                                           | Cholangiocarcinoma                                  |                     |            |                                   | Angiosarcoma                                             |
|                             |            | Hepatocellular adenoma                    | Chondrosarcoma                                      |                     |            |                                   |                                                          |
|                             |            | Hepatocellular carcinoma                  | Epithelioid hemangioendothelioma                    |                     |            |                                   |                                                          |
|                             |            | Liver, angiosarcoma                       | Ewing's sarcoma                                     |                     |            |                                   |                                                          |
|                             |            | Liver, hemangioendothelioma               | Fibromatosis/desmoid tumor                          |                     |            |                                   |                                                          |
|                             |            | Liver cancer, other or type not specified | Fibrosarcoma                                        |                     |            |                                   |                                                          |
|                             |            | Bile duct cancer (extrahepatic)           | Kaposi's sarcoma                                    |                     |            |                                   |                                                          |
|                             |            | Gallbladder cancer                        | Leiomyosarcoma                                      |                     |            |                                   |                                                          |
|                             |            | Lung and lower respiratory system         | Lung cancer, adenocarcinoma                         |                     |            |                                   | Liposarcoma                                              |
|                             |            |                                           | Lung cancer, carcinoid                              |                     |            |                                   | Nerve sheath tumor NOS                                   |
|                             |            |                                           | Lung cancer, neuroendocrine and large cell cancer   |                     |            | Neurilemmoma/schwannoma           |                                                          |

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|-----------------------------|---------------------------------------------|--------------------------------------------------|--------------------------------------|------------------------------|-----------------------------|-----------------------------------------|-----------------------|
| LEVEL 1                     | LEVEL 2                                     | LEVEL 3                                          | LEVEL 4                              | LEVEL 1                      | LEVEL 2                     | LEVEL 3                                 | LEVEL 4               |
| harm to a recipient         | malignancy                                  | Soft tissue/sarcoma                              | Neurofibroma                         | harm to a recipient          | Miscellaneous complications | Acute Hemolytic Reaction - non-immune   |                       |
|                             |                                             |                                                  | Osteosarcoma                         |                              |                             | Cardiovascular complications            |                       |
|                             |                                             |                                                  | Paraganglioma                        |                              |                             | Catheter related complications          |                       |
|                             |                                             |                                                  | Rhabdomyosarcoma                     |                              |                             | Delayed engraftment                     |                       |
|                             |                                             |                                                  | Solitary fibrous tumor               |                              |                             | Delayed Hemolytic Reaction - non-immune |                       |
|                             |                                             |                                                  | Sarcoma, other or type not specified |                              |                             | Febrile Reaction                        |                       |
|                             |                                             |                                                  | Follicular carcinoma                 |                              |                             | Graft failure                           |                       |
|                             |                                             | Medullary carcinoma                              | Hemosiderosis                        |                              |                             |                                         |                       |
|                             |                                             | Papillary carcinoma                              | Hypertensive Reaction                |                              |                             |                                         |                       |
|                             |                                             | Thyroid cancer, other or type not specified      | Hypotensive Reaction                 |                              |                             |                                         |                       |
|                             |                                             | Endometrial carcinoma                            | Inappropriate clinical application   |                              |                             | Insufficient MPH0 use                   |                       |
|                             |                                             | Endometrial stromal sarcoma                      | Neurological complications           |                              |                             | Ecessive MPH0 use                       |                       |
|                             |                                             | Cervical adenocarcinoma                          | Pulmonary complications              |                              |                             |                                         |                       |
|                             |                                             | Cervical squamous cell carcinoma                 | Surgical site complications          |                              |                             |                                         |                       |
|                             |                                             | Cervical cancer, other or type not specified     | TACO                                 |                              |                             |                                         |                       |
|                             | Uterine cancer, other or type not specified | TAD                                              |                                      |                              |                             |                                         |                       |
|                             | Alloimmune                                  | Toxicity                                         | Citrate                              |                              |                             |                                         |                       |
|                             | Autoimmune                                  | Undue exposure to risk/intervention              | Potassium (hyperkalemia)             |                              |                             |                                         |                       |
|                             | Genetic                                     |                                                  | Other                                | DMSO                         |                             |                                         |                       |
|                             | Hypersensitivity/allergy                    |                                                  | Thromboembolism                      | Ethlene oxide                |                             |                                         |                       |
|                             | Acute Hemolytic Reaction                    |                                                  |                                      | Allergic reaction            |                             |                                         |                       |
|                             | Allergic Reaction                           |                                                  |                                      |                              |                             | Drug related reactions                  | Local                 |
|                             | Delayed Hemolytic Reaction                  | Systemic /anaphylactic                           |                                      |                              |                             |                                         |                       |
|                             | Delayed Serologic Reaction                  | GCSF-related                                     |                                      |                              |                             |                                         |                       |
|                             | Immunological complications                 | Detrimental immunization (MPHO other than blood) | ABO immunisation                     |                              |                             | harm to a donor                         | Embolic Complications |
|                             |                                             |                                                  | Rh immunisation                      | Fat embolism                 |                             |                                         |                       |
|                             |                                             |                                                  | HLA immunisation                     | Thromboembolism              |                             |                                         |                       |
|                             |                                             |                                                  | Other detrimental immunization       | Excessive collection/removal |                             |                                         |                       |
|                             |                                             | Graft versus Host Disease                        | Infection                            |                              |                             |                                         |                       |
|                             |                                             | Post Transfusion Purpura (PTP)                   |                                      |                              | Malignancy                  |                                         |                       |
|                             |                                             | Passive alloimmune thrombocytopenia              |                                      |                              |                             |                                         |                       |
|                             |                                             | Rejection                                        |                                      |                              |                             |                                         |                       |
| TRALI                       |                                             |                                                  |                                      |                              |                             |                                         |                       |

| ADVERSE OCCURRENCE TAXONOMY         |                                     |                            |         |                                                     |                                   |         |         |
|-------------------------------------|-------------------------------------|----------------------------|---------|-----------------------------------------------------|-----------------------------------|---------|---------|
| LEVEL 1                             | LEVEL 2                             | LEVEL 3                    | LEVEL 4 | LEVEL 1                                             | LEVEL 2                           | LEVEL 3 | LEVEL 4 |
| Harm to a donor                     | Miscellaneous complications         | Anesthetic agents          |         | Harm to a fetus or offspring                        | Genetic                           |         |         |
|                                     |                                     | Cardiovascular             |         |                                                     |                                   |         |         |
|                                     |                                     | Catheterization/Intubation |         |                                                     |                                   |         |         |
|                                     |                                     | Gastrointestinal           |         | Loss                                                | Highly matched or autologous MPHO |         |         |
|                                     |                                     | Immunological              |         |                                                     | Suitable organ(s)                 |         |         |
|                                     |                                     | Insertion of needle        |         | Mix-up                                              | Large quantity of unmatched MPHO  |         |         |
|                                     |                                     | Metabolic                  |         |                                                     | Gamete                            |         |         |
|                                     |                                     | Neurological               |         |                                                     | Embryo                            |         |         |
|                                     |                                     | Psychological              |         | Unsuitable MPHO released for clinical use - no harm | Incorrect MPHO applied - no harm  |         |         |
|                                     |                                     | Pulmonary                  |         |                                                     |                                   |         |         |
|                                     | Surgical site                       | Other                      |         |                                                     |                                   |         |         |
|                                     | Procurement outside legal framework |                            |         |                                                     |                                   |         |         |
|                                     | Toxicity                            |                            |         |                                                     |                                   |         |         |
| Undue exposure to risk/intervention |                                     |                            |         |                                                     |                                   |         |         |
| Vasovagal Reactions                 |                                     |                            |         |                                                     |                                   |         |         |
| Other                               |                                     |                            |         |                                                     |                                   |         |         |

# MPHO type taxonomy

| MPHO (Medical Products of Human Origin) TAXONOMY |                         |                 |                       |         |         |                            |                                 |                                            |                    |                 |
|--------------------------------------------------|-------------------------|-----------------|-----------------------|---------|---------|----------------------------|---------------------------------|--------------------------------------------|--------------------|-----------------|
| LEVEL 1                                          | LEVEL 2                 | LEVEL 3         | LEVEL 4               | LEVEL 1 | LEVEL 2 | LEVEL 3                    | LEVEL 4                         |                                            |                    |                 |
| MPHO                                             | Organs                  | Liver           |                       | MPHO    | Cells   | Adipocytes                 |                                 |                                            |                    |                 |
|                                                  |                         | Heart           |                       |         |         | Chondrocytes               |                                 |                                            |                    |                 |
|                                                  |                         | Kidney          |                       |         |         | Dendritic cells            |                                 |                                            |                    |                 |
|                                                  |                         | Lung            |                       |         |         | Fibroblasts                |                                 |                                            |                    |                 |
|                                                  |                         | Pancreas        |                       |         |         | Genetically modified cells |                                 |                                            |                    |                 |
|                                                  |                         | Small bowel     |                       |         |         | Hepatocytes                |                                 |                                            |                    |                 |
|                                                  |                         | Combined        | Heart lung            |         |         |                            |                                 | HPC (hematopoietic progenitor cell)        | Marrow             |                 |
|                                                  |                         |                 | Kidney pancreas       |         |         |                            |                                 |                                            | Apheresis          |                 |
|                                                  |                         |                 | Liver Kidney          |         |         |                            |                                 |                                            | Cord blood         |                 |
|                                                  |                         |                 | Multivisceral         |         |         |                            |                                 |                                            | Type not specified |                 |
|                                                  | Composite tissue grafts | Face            |                       |         | Blood   | Keratinocytes              |                                 |                                            |                    |                 |
|                                                  |                         | Hand            |                       |         |         | Leukocytes                 |                                 |                                            |                    |                 |
|                                                  |                         | Uterus          |                       |         |         | Limbal cells               |                                 |                                            |                    |                 |
|                                                  | Type not specified      |                 |                       |         |         | Mesenchymal stem cells     |                                 |                                            |                    |                 |
|                                                  |                         |                 |                       |         |         | Olfactory mucosal cells    |                                 |                                            |                    |                 |
|                                                  | Tissues                 | Musculoskeletal | Bone                  |         |         |                            |                                 | Reproductive                               |                    |                 |
|                                                  |                         |                 | Cartilage             |         |         |                            |                                 |                                            |                    | Whole blood     |
|                                                  |                         |                 | Meniscus              |         |         |                            |                                 |                                            |                    | Red blood cells |
|                                                  |                         |                 | Osteochondral         |         |         |                            |                                 |                                            |                    | Platelets       |
|                                                  |                         |                 | Tendon or ligament    |         |         |                            |                                 |                                            |                    | Plasma          |
|                                                  |                         | Cardiovascular  | Blood vessels         |         |         |                            | Other                           | Milk                                       |                    |                 |
|                                                  |                         |                 | Conduit               |         |         |                            |                                 | Fecal microbiota                           |                    |                 |
|                                                  |                         |                 | Heart valves          |         |         |                            |                                 | Topical products of human origin           |                    |                 |
|                                                  |                         |                 | Pericardium           |         |         |                            |                                 | Plasma derivates                           |                    |                 |
|                                                  |                         | Ocular          | Conjunctiva           |         |         |                            | MPHO-derived medicinal products | Cell derived medicinal products            |                    |                 |
|                                                  |                         |                 | Cornea                |         |         |                            |                                 | Tissue derived medicinal products          |                    |                 |
|                                                  |                         |                 | Limbal tissue         |         |         |                            |                                 | Tissue and cell derived medicinal products |                    |                 |
|                                                  |                         |                 | Sclera                |         |         |                            |                                 |                                            |                    |                 |
|                                                  |                         | Adipose tissue  |                       |         |         |                            |                                 |                                            |                    |                 |
|                                                  |                         |                 | Amniotic membrane     |         |         |                            |                                 |                                            |                    |                 |
|                                                  |                         |                 | Other fetal membranes |         |         |                            |                                 |                                            |                    |                 |
|                                                  |                         |                 | Dura mater            |         |         |                            |                                 |                                            |                    |                 |
|                                                  |                         |                 | Larynx                |         |         |                            |                                 |                                            |                    |                 |
| Nerve                                            |                         |                 |                       |         |         |                            |                                 |                                            |                    |                 |
| Parathyroid glands                               |                         |                 |                       |         |         |                            |                                 |                                            |                    |                 |
| Placenta                                         |                         |                 |                       |         |         |                            |                                 |                                            |                    |                 |
| Skin                                             |                         |                 |                       |         |         |                            |                                 |                                            |                    |                 |
| Trachea                                          |                         |                 |                       |         |         |                            |                                 |                                            |                    |                 |
| Umbilical cord tissue                            |                         |                 |                       |         |         |                            |                                 |                                            |                    |                 |