



MedDRA to SNOMED CT and SNOMED CT to MedDRA Mapping Conventions

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Introduction

Mapping conventions were created prior to undertaking the initial development of the maps and were revised during the process as experience was gained. The conventions serve to ensure accuracy and consistency in mapping and continue to be applied in the maintenance phase of the production maps. Users of the maps are encouraged to refer to these mapping conventions as a resource for understanding the scope, structure, and intended use of the maps.

Use Cases of the Maps

The maps were created as part of the WEB-RADR 2 project. The overall purpose of creating the 2 maps was to use the enhanced functionality of the mobile application to facilitate exchange of data between regulatory databases (which use MedDRA) and healthcare databases/electronic health records (which use SNOMED CT). Two maps were developed (from MedDRA to SNOMED CT and SNOMED CT to MedDRA) to support seamless data exchange within the application platform. The sub-set of frequently used terms mapped in the project define a set of key pharmacovigilance terms that need to be linked to their counterparts in either terminology. In addition, a set of COVID-19 related terms were also included in the first production release of the maps to capture important aspects of the pandemic.

For the SNOMED CT to MedDRA map, these key pharmacovigilance concepts when coded in SNOMED CT in an electronic health record (EHR) can be mapped to MedDRA for the purpose of adverse event reporting to regulatory authorities or for the purposes of epidemiological research. By using the MedDRA to SNOMED CT map, these same key terms coded in MedDRA representing adverse events, warnings, and other regulatory information can be mapped into SNOMED CT so that the information is available for the patient's record and clinical decision-support.

Timeline

Development of the initial maps based on a sub-set of ~7,400 key pharmacovigilance terms (February-November 2019)

- MedDRA v21.1
- SNOMED CT version Jan 2019 International edition

Alpha test of the maps (April-September 2020)

Final Production release of the maps (April 2021)

- Based on feedback from alpha release and including COVID-19 terms
- MedDRA Version 23.1 (September 2020)
- SNOMED CT January 2021 International edition

Release Schedule

Releases of the maps will occur in April each year and will be based on the September MedDRA release of the preceding year (Version x.1) and SNOMED CT International edition release of January in the current year.

General Mapping Guidance

- A. **Structure and hierarchy.** MedDRA groups its terms in a five-level hierarchy. The Preferred Term (PT) level represents single medical concepts and the Lowest Level Term (LLT) level represents synonyms, lexical variants, and sub-elements. SNOMED CT structure uses concepts as Fully Specified Names (FSNs) with a number of agreed descriptions available (synonyms) in a multi-level hierarchy. Screenshots and examples are intended for illustrative purposes.

When mapping any two terminologies, differences in how clinical entities are represented will inevitably be encountered. MedDRA and SNOMED CT, while sharing domain coverage, have different structures and features to support their unique use cases and user requirements. One key difference lies in term specificity. Both terminologies offer highly granular codes, however, it is an

important policy of SNOMED International to avoid excessive pre-coordination, instead favoring post-coordination for more detailed clinical recording. Consequently, mapping may rely on linking specific source terms to more generic target concepts, while taking measures to preserve the map’s understandability, reproducibility, and usefulness.

B. SNOMED CT concepts and MedDRA terms are checked against hierarchy placement to determine if concepts/terms are equivalent.

Example

Vitamin D. Direct lexical match but is a test name in MedDRA and a substance in SNOMED CT.

The screenshot shows the SNOMED CT interface for the concept 'Vitamin D measurement (procedure)'. On the left, under 'Term Details in Primary Language', it lists 'LLT - Lowest Level Term' with MedDRA Code 10050713 and Term 'Vitamin D'. Below this, 'LLT Occurrences in MedDRA' shows a tree structure with 'Vitamin D' as the root, branching into 'Vitamin D', 'Vitamin D analyses', and 'Metabolic, nutritional and blood gas investigations', with 'Investigations' as a sub-term. On the right, the 'Parents' section lists 'Steroid measurement (procedure)' and 'Vitamin measurement (procedure)'. The main concept box shows 'Vitamin D measurement (procedure)' with SCTID 83729008 and its English name 'Vitamin D measurement (procedure)'. Two relationship boxes are visible: 'Component → Vitamin D and/or vitamin D derivative' and 'Method → Measurement - action'.

In this case, LLT *Vitamin D* would be mapped instead to SNOMED CT Vitamin D measurement (procedure) if within scope of the map.

This screenshot is similar to the previous one, showing the SNOMED CT interface for 'Vitamin D measurement (procedure)'. It displays the same 'Parents' list and the main concept box with SCTID 83729008. The relationship boxes are 'Component → Vitamin D and/or vitamin D derivative' and 'Method → Measurement - action'.

C. Mapping in both directions is to an exact conceptual match.

Example 1:

- LLT Permanent cardiac pacemaker insertion maps to SNOMED CT Implantation of cardiac pacemaker (procedure).
- SNOMED CT Implantation of cardiac pacemaker (procedure) maps to LLT Cardiac

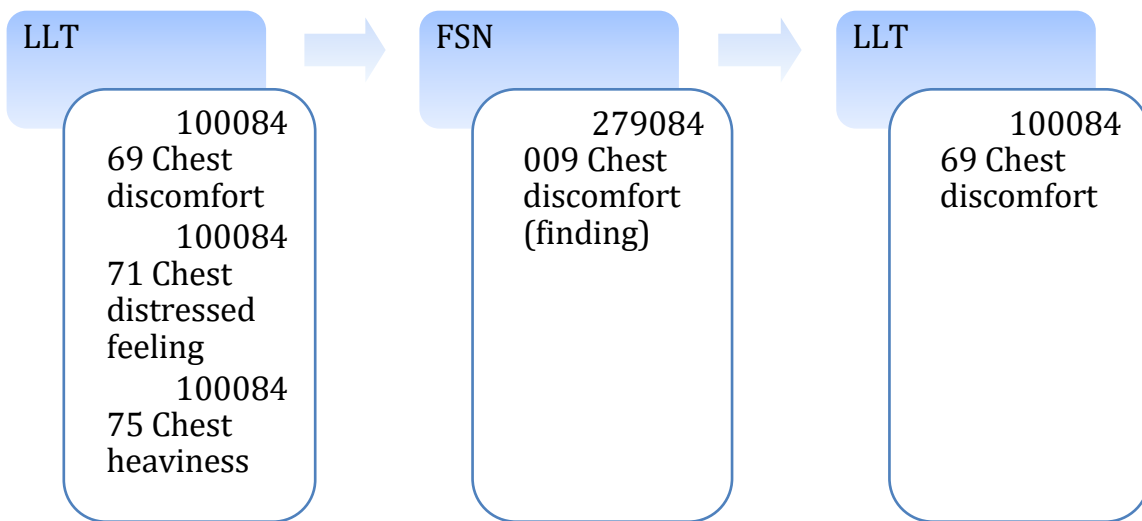
pacemaker insertion.

Example 2:

- LLT Emotional lability maps to SNOMED CT Mood swings (finding).
- SNOMED CT Mood swings (finding) maps to LLT Mood swings.

Note that while Emotional lability is a synonym of Mood swings in SNOMED CT, in MedDRA, LLT *Emotional lability* is under PT *Affect lability* (HLT *Affect alterations NEC*) and LLT *Mood swings* is under PT *Mood swings* (HLT *Fluctuating mood symptoms*). Both terms are under HLT *Mood disorders and disturbances NEC*. The two terminologies use different editorial guidance for their organisation and in some cases such as this one where the structure of SOC *Psychiatric disorders* is based on DSM-5, closely related terms may be in different parts of the hierarchy. For the purposes of the maps, a pragmatic approach is taken, and concepts/terms are either considered to be exact conceptual matches or unmappable.

- D. **Any concepts/terms that are not an Exact Match are flagged as unmappable.** This identifies relevant concepts in either terminology that might be missing and are required to provide a more complete mapping. The addition of any new content is discussed by the relevant terminology organisation.
- E. **The source term (MedDRA or SNOMED CT) is mapped to the equivalent concept in the target terminology (SNOMED CT or MedDRA).** That same concept in the target terminology then becomes the source for mapping in the reverse direction back to the starting terminology which becomes the target, whilst aiming for the same semantic match.
- For example, if a MedDRA term is to be mapped (source), the MedDRA LLT is mapped to an FSN in SNOMED CT (target) to create the MedDRA to SNOMED CT map. Then the same FSN (source) is mapped back to the equivalent concept in MedDRA (target) to create the SNOMED CT to MedDRA map.



- F. **Each directional map is independent.** Taking the MedDRA to SNOMED CT map as an example, in many instances, the LLT mapped from MedDRA to SNOMED CT will be the same as the LLT when mapped in the reverse direction from SNOMED CT to MedDRA, i.e., LLT 1 to FSN; FSN to LLT 1. In others, the LLT mapped from MedDRA to SNOMED CT will differ from the resulting LLT when mapped in the reverse direction, i.e., LLT 1 to FSN; FSN to LLT 2. This occurs because the two terminologies differ with respect to lexical variants, spellings, etc. However, the clinical meaning of the term/concept should always be the same in both directions. See Principles 1 and 2 for specific examples.

While more than one LLT can map to the same FSN, and in the reverse direction going from SNOMED CT to MedDRA, more than one FSN can map to the same LLT, however, the mapping in either direction will always be a 1:1 map. This supports the use case of using SNOMED EHR data to report adverse events without double counting.

- G. **The maps include active SNOMED CT concepts and current MedDRA LLTs only, i.e., inactive and non-current terms are excluded.**
- H. **Typically the maps use (finding/disorders), (event), (procedure), and (situation with explicit context) concepts in SNOMED CT. However, there may be valid exceptions.**

Example

- LLT Infarction maps to FSN Infarct (morphologic abnormality).

The map does not use (substance) concepts in SNOMED CT since the names of drugs and other substances are out of scope of MedDRA.

Unqualified test name terms that indicate simply that a test was performed, e.g., LLT *Blood glucose*, are generally not included in the maps due to their limited value from a pharmacovigilance or clinical information perspective, however, there may be exceptions where unqualified test name terms are utilized in mapping if they are found to be of benefit such as LLT *Arthroscopy* and LLT *Laparoscopy*.

Specific Mapping Conventions

Principle 1

MedDRA LLT is mapped to SNOMED CT Fully Specified Name (FSN) concept, finding the same semantic match. The FSN is used to confirm the meaning. The same applies to the SNOMED CT concept to MedDRA LLT map.

Example

- MedDRA LLT Rhabdomyolysis maps to SNOMED CT Rhabdomyolysis (disorder).
- The map is not to SNOMED CT Rhabdomyolysis (morphologic abnormality) as this concept refers to a pathological related finding rather than a clinical one.

The screenshot shows a search interface with a search bar containing 'Rhabdomyolysis'. Below the search bar, a table lists 23 matches. The first match is 'Rhabdomyolysis (morphologic abnormality)', which is highlighted. To the right, a detailed view of the selected concept is shown, including its parents: 'Degenerative disorder of muscle (disorder)', 'Degenerative disorder of musculoskeletal system (disorder)', and 'Disorder of skeletal muscle (disorder)'. The selected concept is 'Rhabdomyolysis (disorder)' with SCTID: 240131006.

Type at least 3 characters ✓ Example: shou fra	Summary	Details	Diagram	Expression	Refsets	Member												
<p>Rhabdomyolysis</p> <p>23 matches found in 1.552 seconds.</p> <table border="1"> <tr> <td>Rhabdomyolysis</td> <td>Rhabdomyolysis (morphologic abnormality)</td> </tr> <tr> <td>Rhabdomyolysis</td> <td>Rhabdomyolysis (disorder)</td> </tr> <tr> <td>Traumatic rhabdomyolysis</td> <td>Muscle crush syndrome (disorder)</td> </tr> <tr> <td>Secondary rhabdomyolysis</td> <td>Secondary rhabdomyolysis (disorder)</td> </tr> <tr> <td>Exertional rhabdomyolysis</td> <td>Exertional rhabdomyolysis (disorder)</td> </tr> <tr> <td>Paroxysmal rhabdomyolysis</td> <td>Paroxysmal rhabdomyolysis (disorder)</td> </tr> </table>	Rhabdomyolysis	Rhabdomyolysis (morphologic abnormality)	Rhabdomyolysis	Rhabdomyolysis (disorder)	Traumatic rhabdomyolysis	Muscle crush syndrome (disorder)	Secondary rhabdomyolysis	Secondary rhabdomyolysis (disorder)	Exertional rhabdomyolysis	Exertional rhabdomyolysis (disorder)	Paroxysmal rhabdomyolysis	Paroxysmal rhabdomyolysis (disorder)	<p>Parents</p> <ul style="list-style-type: none"> Degenerative disorder of muscle (disorder) Degenerative disorder of musculoskeletal system (disorder) Disorder of skeletal muscle (disorder) <p>Rhabdomyolysis (disorder) ☆</p> <p>SCTID: 240131006</p> <p>240131006 Rhabdomyolysis (disorder) </p> <p>en Rhabdomyolysis (disorder)</p> <p>en Rhabdomyolysis</p>					
Rhabdomyolysis	Rhabdomyolysis (morphologic abnormality)																	
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Exertional rhabdomyolysis	Exertional rhabdomyolysis (disorder)																	
Paroxysmal rhabdomyolysis	Paroxysmal rhabdomyolysis (disorder)																	

- SNOMED CT Rhabdomyolysis (disorder) maps to LLT Rhabdomyolysis.

Search Results

PT LLT

- LLT
 - Exact Match - 1
 - LLT Rhabdomyolysis
 - Lexical Variant - 0
 - Synonym Search Results - 0
 - Contains Search Results - 2
 - LLT Exertional rhabdomyolysis
 - LLT Rhabdomyolysis-induced renal failure

Term Details in Primary Language

LLT - Lowest Level Term

MedDRA Code	MedDRA Term	Currency
10039020	Rhabdomyolysis	Y

SMQ Code	SMQ Name	Scope	Status
20000044	Neuroleptic malignant syndrome (SMQ)	Broad	Active
20000002	Rhabdomyolysis/myopathy (SMQ)	Narrow	Active

LLT Occurrences in MedDRA

- LLT Rhabdomyolysis
 - PT Rhabdomyolysis
 - LLT Myopathies
 - LLT Muscle disorders
 - LLT Musculoskeletal and connective tissue disorders

Note that in this example, the starting LLT (Rhabdomyolysis) in the MedDRA to SNOMED CT map is the same as the LLT (Rhabdomyolysis) in the reverse SNOMED CT to MedDRA map. i.e., LLT 1 to FSN and FSN to LLT 1.

Principle 2

When identifying maps, the synonyms in SNOMED CT are only used to inform the choice of the FSN. The maps do not allow mapping to synonyms.

Example

- MedDRA LLT Somnolence maps to SNOMED CT Drowsy (finding).
- SNOMED CT Somnolence is a synonym of Drowsy (finding) indicating that these terms are semantically equivalent i.e. share the same meaning. Therefore, the synonym guides the mapper to select the appropriate FSN as the target for the map.
- Other LLTs under PT Somnolence such as LLT Sleepiness and LLT Sleepy are also included in the list of terms to map and these will also map to SNOMED CT Drowsy (finding).

The screenshot shows a search interface with a search bar containing 'somnia'. Below the search bar, it indicates '8 matches found in 1.551 seconds'. A table lists the following results:

Somnia	Drowsy (finding)
Somnia	Drowsiness, function (observable entity)
Daytime somnolence	Daytime somnolence (finding)
Neonatal somnolence	Drowsiness of the newborn (disorder)
Somnia syndrome	Somnia syndrome (disorder)
Excessive somnolence	Excessive somnolence (finding)
Disorder of excessive somnolence	Disorder of excessive somnolence (disorder)
Post-radiotherapy somnolence syndrome	Post-radiotherapy somnolence syndrome (disorder)

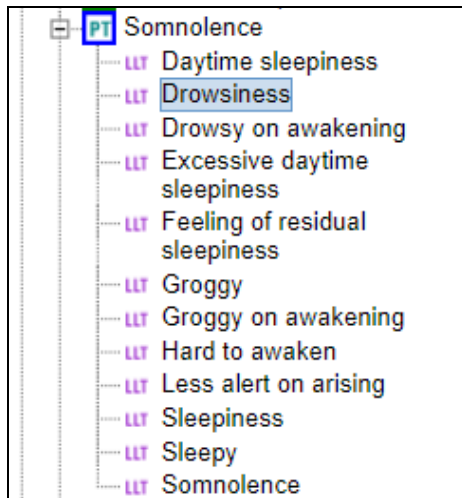
Below the table, it says 'All results are displayed'. To the right, there are tabs for 'Summary', 'Details', 'Diagram', 'Expression', 'Refsets', and 'Members'. The 'Parents' section lists:

- Disturbance of consciousness (finding)
- Finding related to sleep (finding)
- Functional finding (finding)
- Wakefulness finding (finding)

The 'Details' view for 'Drowsy (finding)' shows:

- SCTID: 271782001
- 271782001 | Drowsy (finding) |
- en Drowsy (finding)
- en Drowsy
- en Drowsiness
- en Mental status, drowsy
- en Sleepiness
- en Sleepy
- en Somnolence
- en Somnolence (sleepiness)

- In the reverse direction, SNOMED CT Drowsy (finding) maps to MedDRA LLT Drowsiness (1:1 map). “Drowsy” is not in MedDRA, only LLT Drowsy on awakening. MedDRA LLT Drowsiness is the closest match to SNOMED CT Drowsy (finding).



Note that in this example, the source LLT (Somnolence) in the MedDRA to SNOMED CT map differs from the LLT (Drowsiness) in the reverse SNOMED CT to MedDRA map. i.e., LLT 1 to FSN (Drowsy) and FSN to LLT 2. This results from finding the closest match to SNOMED CT Drowsy which is LLT *Drowsiness* in MedDRA. All of the maps represent the same clinical meaning however: LLT *Somnolence* and LLT *Drowsiness* both are under PT *Somnolence* and they are represented in SNOMED CT as FSN Drowsy (with its synonyms including Somnolence, Drowsiness, Sleepiness, etc.).

Principle 3

Not Otherwise Specified (NOS) and Unspecified terms in MedDRA

- In the MedDRA to SNOMED CT map, NOS and unspecified LLTs are mapped to the unqualified SNOMED CT concept, i.e., without any further classification.

Example

- LLT Pain NOS maps to SNOMED CT Pain (finding).
- LLT Non-autoimmune hemolytic anemia, unspecified maps to SNOMED CT Non-autoimmune hemolytic anemia (disorder).
- NOS and unspecified concepts will not be added to SNOMED CT.
- In the SNOMED CT to MedDRA map, the SNOMED CT FSN is mapped to the unqualified LLT, and will eschew mapping to NOS or unspecified LLTs in this direction where possible.

Example

- SNOMED CT Pain (finding) maps to LLT Pain.
- SNOMED CT Non-autoimmune hemolytic anemia (disorder) maps to LLT Non-autoimmune hemolytic anemia.

Principle 4

UK English and US English variants

For MedDRA to SNOMED CT map:

- Both US and UK spelling variants in MedDRA are mapped to the SNOMED CT concept, i.e., the FSN which uses the US spelling. The UK spellings in SNOMED CT (descriptions) are synonyms and are used to help identify the correct FSN, but the actual map is to the FSN, not the synonym (see Principles 1 and 2).

Example

- LLT Edema and LLT Oedema both map to SNOMED CT Edema (finding).

During the maintenance change request process, if a map is requested with a source LLT that exists in MedDRA using both the UK and US spellings (as in the oedema/edema example), the alternate spelling will also be added as an additional map with both LLTs mapping to the

equivalent SNOMED FSN, which would use the US spelling as detailed above.

The screenshot shows a search for 'edema' in SNOMED CT. The search results list various terms like 'Oedema' and 'Edema'. A detailed view of 'Edema (finding)' (SCTID: 267038008) is shown, listing its parents as 'Clinical finding (finding)' and its synonyms in English: 'Interstitial edema', 'Oedema', 'Edema', 'Interstitial oedema', and 'Edema (finding)'. Callouts explain that 'Clinical finding (finding)' is the SNOMED CT concept (FSN) and that the list of synonyms includes both UK and US spellings used in the MedDRA map.

For SNOMED CT to MedDRA map:

Example

- o FSN Edema (finding) maps to LLT Edema (1:1 cardinality).

The screenshot shows a list of MedDRA LLT terms under the parent 'Oedema'. The term 'Edema' is highlighted with a blue box, and a callout points to it from the text 'FSN Edema (finding)'. Other terms in the list include 'Chronic edema', 'Chronic oedema', 'Edema aggravated', 'Edema like', 'Edema NOS', 'Edema transient', 'Edema-like', 'Edematous weight gain', 'Idiopathic edema', 'Idiopathic oedema', 'Inflammatory edema reaction', 'Inflammatory oedema reaction', 'Oedema', 'Oedema aggravated', 'Oedema like', 'Oedema NOS', 'Oedema transient', 'Oedema-like', 'Oedematous weight gain', 'Pitting edema', 'Pitting oedema', 'Weeping edema', and 'Weeping oedema'.

Note that clinical records using SNOMED CT use either UK or US spellings. When SNOMED CT is implemented in EHRs, a language subset (UK or US English) will be implemented by the system depending on the country of location. The end user will thus view the US or UK synonyms but these are represented by the unambiguous SNOMED CT concept which uses the US spelling.

Every PT in MedDRA has an LLT that is identical to it and shares the same code. In MedDRA, UK English spelling is used at the PT level and above; US spellings are only represented at the LLT level. Analysis is performed at the PT level.

In the use case of taking SNOMED CT EHR data and converting it to MedDRA to report or count adverse events, one needs to avoid double counting. The 1:1 cardinality from SNOMED CT (US spelling) to MedDRA (US spelling) would ensure that events are only counted once in MedDRA. Maps are generated based on SNOMED CT concepts; whether the EHR uses the SNOMED CT US spelling or the UK spelling, both would map via the FSN to the same single term in MedDRA.

Principle 5

Combination terms and infection/body site.

- MedDRA LLT is mapped to an equivalent SNOMED CT combination term if available.

Examples

- LLT Dementia due to Parkinson's disease maps to SNOMED CT Dementia due to Parkinson's disease (disorder).
 - LLT Escherichia urinary tract infection maps to SNOMED CT Urinary tract infection caused by Escherichia coli (disorder).
- Similar principles apply in the SNOMED CT to MedDRA map.
 - If an equivalent combination term is not available in either terminology, the term is flagged as unmappable for discussion and potential addition.

Principle 6

Test results

- MedDRA test result concepts are typically found in SNOMED CT (finding) but may also be represented in SNOMED CT (disorder).

Examples

- MedDRA LLT Blood glucose increased maps to SNOMED CT Glucose in blood specimen above reference range (finding).
- LLT Gastric acid increased maps to SNOMED CT Hyperchlorhydria (disorder).

Principle 7

Specimen type

- If the specimen type is not specified in the source concept/term, it is mapped to the concept/term without the specimen type, if available.
- If the specimen type is not specified in the source concept/term and the concept/term without the specimen type is not available in the target terminology, it is acceptable to default to blood or the most common specimen type for that particular test.
- The default specimen type is serum, not plasma, if blood is specified.
- The maps attempt to preserve the specimen type whenever possible.

Examples

- LLT Drug level increased maps to SNOMED CT Blood substance level above reference range (finding) [there is no matching concept without the specimen type available so it is acceptable to default to blood].
- LLT Lactate dehydrogenase increased maps to SNOMED CT Serum lactate dehydrogenase level above reference range (finding) [concepts for the increased/elevated term without the specimen type, or without specifying blood or plasma, are not available so it is acceptable to map to serum in this case].
- LLT Blood creatinine increased maps to SNOMED CT Serum creatinine above reference range (finding).

Principle 8

Tumour types and stages

- SNOMED CT accepts tumour concepts included in the International Classification of Diseases for Oncology (ICD-O).
- MedDRA contains staging and classification systems that are used in clinical research and pharmacovigilance.
- When a term specifies histopathologic type, tumour site, and staging, efforts are made to preserve all three aspects of the concept in the maps.
- Staging information is not always represented in pre-coordinated SNOMED concepts; however, in these cases, the term will be mapped to the FSN for primary malignant neoplasm of that site, for the stated histopathologic type, where available.
- If one terminology does not contain a term with both the histopathologic type and site of the tumour, the term is flagged as unmappable and reviewed for possible addition (Renal granular cell carcinoma is an example of a concept/term combining both the histopathologic type and tumour site and it is contained within both terminologies).

Example

- LLT Non-small cell lung cancer stage IIIB maps to FSN Non-small cell carcinoma of lung, TNM stage 3 (disorder).
- When a “recurrent” cancer term is not available in either terminology, the term is mapped to the primary malignant neoplasm.

Example

- LLT Non-small cell lung cancer recurrent maps to FSN Non-small cell lung cancer (disorder).
- Metastatic primary site terms are synonymous with stage IV/stage 4 if the metastatic term is not available.

Example:

- LLT Lung adenocarcinoma metastatic maps to FSN Adenocarcinoma of lung, stage IV (disorder).

- For metastatic or stage 4 cancers, when an exact match is not available, “[Primary site] metastatic cancer” or “[Primary site] stage 4/stage IV cancer” LLTs map to the similar FSNs “Primary malignant neoplasm **of** [primary site]”.

Example:

- LLT Lung cancer metastatic maps to FSN Primary malignant neoplasm of lung (disorder).
 - LLT Diffuse large B-cell lymphoma stage IV maps to FSN Diffuse large B-cell malignant lymphoma (disorder).
- Close attention is given to “secondary malignant neoplasm” and “metastases to” concepts. “Secondary malignant neoplasm of [organ]” and “Metastases to [organ]” LLTs map to FSNs of “Metastatic malignant neoplasm **to** [organ]”.

Example:

- LLT Metastases to spine maps to FSN Metastatic malignant neoplasm to vertebral column (disorder).

Principle 9

Increased/high and decreased/low qualifiers

- In both MedDRA and SNOMED CT, qualifiers for investigation results such as increased/high/elevated and decreased/low are generally used synonymously and can be used to map in both directions.
- In both terminologies, “increased” and “decreased” are generally used by reporters to refer to changes above and below the normal reference ranges (see example below for how this is sometimes reflected in the SNOMED CT hierarchy).

Example

- LLT Bilirubin elevated maps to SNOMED CT Bilirubin level above reference range (finding).

PT	Blood bilirubin increased
LLT	Bilirubin elevated
LLT	Bilirubin increased
LLT	Bilirubin total high
LLT	Bilirubin total increased
LLT	Bilirubin value increased
LLT	Biliverdin increased
LLT	Blood bilirubin increased
LLT	Raised bilirubin
LLT	Serum bilirubin increased

☰
Bilirubin level above reference range (finding) ☆ ↗

SCTID: 26165005

26165005 | Bilirubin level above reference range (finding) |

- en* Bilirubin level above reference range (finding)
- en* Bilirubin level above reference range
- en* Increased bilirubin level

Interprets → Bilirubin measurement

Has interpretation → Above reference range

Additional Information

Contact mapping@meddra.org or info@snomed.org for additional information or inquiries regarding request for change criteria.