

# SNOMED CT Internal Review of Extension Substances for DEUSG International Applicability Guidance

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Review of 31 March 2025 spreadsheet:

[https://docs.google.com/spreadsheets/d/10wudKwPR71EwV9et55\\_6ynZXn8S9ynl3/edit?usp=sharing&ouid=106054335820895483942&rtpof=true&sd=true](https://docs.google.com/spreadsheets/d/10wudKwPR71EwV9et55_6ynZXn8S9ynl3/edit?usp=sharing&ouid=106054335820895483942&rtpof=true&sd=true)

## **1. Use of 'extract' in substance names**

Issue: Extract implies a manufacturing process or a product, not a substance.

Examples: Crataegus extract, Asthma herb extract

Guidance: These may be included, as there is precedent for extracts in the Substance hierarchy, but the intended meaning (substance vs. product) remains ambiguous.

## **2. Use of 'allergen of' in names**

Issue: Allergenicity is a property of a substance - anything can be an allergen.

Example: Allergen of bee poison

Guidance: Substances denoting 'allergen of' are not added to the Substance hierarchy. SNOMED Int'l models *venom* or the source *protein* instead.

## **3. Terms that refer to physical states and not substances**

Issue: Words like *concentrated*, *solution*, and *aggregated*

Examples: Ammonia solution, concentrated, Albumin aggregated

Guidance: Substances that specify a physical state are not added to the Substance hierarchy.

## **4. Use of vague or non-substance terms**

Examples: Aqueous cream, Animal derived thyroid gland tissue, Bovine colostrum

Guidance: These type of substances can be added with caveats that they must be URU [understandable, reproducible, useful], but in some cases are placed as subtypes of 312412007 [Substance categorized functionally (substance)], with the understanding that they may be moved to the Product hierarchy in the future.

## **5. Product or nutritional formulations**

Issue: Complex names that describe products

Examples: Amino acid formula with ... (some use 'without')

Guidance: Parenteral feeds and nutritional supplements are products and not substances.

## **6. Organism names not substances**

Examples: *Bacillus clausii*, *Bifidobacterium animalis*, *Saccharomyces boulardii*

Guidance: Organisms should be placed in << 410607006 |Organism (organism)|.

In the past, some concepts referring to whole organisms were created in the substance hierarchy (e.g. 43690008 |Genus Lactobacillus (organism)| and 710318008 |Lactobacillus (substance)|).

However, it is now recognized that concepts representing entire organisms should not be duplicated in the substance hierarchy. Instead, a concept in the substance hierarchy should represent a part of an organism (e.g., cat dander) or a substance derived from an organism (e.g., mite protein).

- If a substance concept is required to represent part of, or a substance in an organism, please submit as such: *X protein, Y hair*
- Examples:
  - 103599003 |Mentha piperita (organism)| for Peppermint
  - 113454002 |Shouchella clausii (organism)| for Shouchella clausii

## 7. Influenza and other viral entities

Issue: Virus strains - ingredients of vaccines are antigens in SNOMED substances, also, there are vaccine product names (medicinal products), and vague antigen descriptions.

Examples: B/Brisbane/60/2008-like strain, Antigen of Influenza B virus non-live

Guidance: The Editorial Guide related to surface subunit and split virion is included in the guideline: <https://confluence.ihtsdotools.org/display/DOCEG/Antibodies+and+antigens>

"Split virion" and "surface subunit" is acceptable when the proposed granular antigen is used in a real Clinical Drug, e.g., Influenza antigens.

For influenza strains, the *candidate vaccine virus* (CVV) is not included in the antigen name in the international release. The justification is that each pharmaceutical company may use a different CVV to manufacture their product, or they may omit that level of detail in their product information. However, each of the recommended "parent strain + CVV" are antigenically like the parent virus.

Note: similar concept exists in SNOMED 25161000087104 |Antigen of Influenza A virus A/Brisbane/02/2018 (H1N1)pdm09-like virus strain surface subunit hemagglutinin (substance)|.

## 8. Adjuvanted – not used in SNOMED

Guidance: On Hold – not being added.

<https://confluence.ihtsdotools.org/display/DOCEG/Antibodies+and+antigens>

- With the exception of conjugated proteins/toxoids that are in scope for the international release, inclusion of other adjuvants as well as delivery mechanisms (e.g., Aluminum salts, Oil-in-Water emulsions, Virosomes) is currently on hold and will be considered if and when associated requests and uses cases are presented.

### 9. Some may be in SNOMED CT, but require clarification

- Examples:
  - 5774007 [White petrolatum (substance)] has a synonym of white soft paraffin (a requested term)
  - The requested concept Streptococcus pneumoniae type 15B polysaccharide antigen is ambiguous in that it does not identify nomenclature system for serotyping (Danish or American), but it seems to be referring to 1119226007 [Antigen of Streptococcus pneumoniae Danish serotype 15B capsular polysaccharide (substance)]
  - *Placebo* - ambiguous; label on anything

### 10. Language other than English? misspelling?

### 11. Term is not clear and needs to be expanded

- Examples:
  - PF-07321332
  - PSMA-1007 [18F]

### 12. Terms representing products

Issue: Out of scope for the substance hierarchy

- Examples:
  - Term representing Intent
    - Water for injections or Water for irrigation
  - Terms representing mixture or combined substances:
    - Mineral mixture
    - Sennosides A and B
  - Terms representing skin test product
    - Tuberculin PPD (Mantoux) acellular intradermal skin test
  - Terms representing prepared, purified, refined, solution, supplement, brand name:
    - Examples:
      - Storax prepared
      - Mint oil dementholised
      - Water purified
      - Purified talc
      - Refined coal tar
      - Sorbitol solution
      - Milk powder lactose free formula