

## Briefing Note for the Member Forum and Content Managers Advisory Group (CMAG) August 2022

### Inactivation of certain metastatic disorder content and project update

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#### Purpose

To inform the Member Forum and Content Managers Advisory Group of the inactivation of certain metastatic disorder content and an update on the primary and metastatic proposal.

#### Background

The SI Content team 'Primary malignancy and metastatic working group' identified a need for a new model for this subject area of SNOMED CT that has subsequently been approved by the Editorial Advisory Group, and a Briefing Note circulated to the Member Forum, the CMAG and presented to the Cancer Synoptic Reporting Group.

#### Why are we doing this work?

1. "Agnostic" malignancy disorders (i.e. not specified as primary or metastatic) cannot be modelled using the current "agnostic" morphologic abnormalities that are subtypes of 86049000 |Malignant neoplasm, primary (morphologic abnormality)|, *because* they are subtypes of a primary malignant neoplasm morphology parent. Example: 'agnostic' 255110003 |Adenocarcinoma of bladder (disorder)| is modelled with 1187332001 |Adenocarcinoma (morphologic abnormality)|, which classifies as a primary malignancy through its primary malignant neoplasm parent. In the past, a work-around based on the current hierarchical content has meant that some 'agnostic' adenocarcinoma disorders are defined using 1186968006 |Malignant adenomatous neoplasm (morphologic abnormality)| with implications for classification results, data and maintenance.

2. Metastatic: For metastatic disorders, unless the correct parent is *not* a subtype of 86049000 |Malignant neoplasm, primary (morphologic abnormality)| - and 745 malignant neoplasm morphologies are subtypes - the correct parents cannot be assigned, as a metastasis is not a type of primary malignancy. Example: A concept 'Metastatic cystadenocarcinoma' cannot have a parent 21008007 |Cystadenocarcinoma (morphologic abnormality)| as this is a subtype of 86049000 |Malignant neoplasm, primary (morphologic abnormality)|.

The project will address the primary element of the project first (proposed inactivation of 86049000 |Malignant neoplasm, primary (morphologic abnormality)| and replacement with Malignant neoplasm (morphologic abnormality)). Once this is completed the correct parents can be added to

the subtypes of 14799000 |Neoplasm, metastatic (morphologic abnormality)| and the new metastatic morphologic abnormalities being imported in cooperation with the Netherlands.

## Issues and Update

To update the community of practice:

- Metastatic disorders are proposed to be defined by the specific metastatic neoplastic morphologic abnormality concept, and new metastatic morphologies are being added to the international edition of SNOMED CT as needed. In cooperation with the Netherlands extension of SNOMED CT, SI will be promoting certain of their existing metastatic morphology concepts to the International release.
- Primary malignancy disorders will be defined by a malignant neoplastic morphologic abnormality concept and the 370135005 |Pathological process (attribute)| (704321009 |Characterizes (attribute)| for observable entities) and target value 1234914003 |Malignant proliferation of primary neoplasm (qualifier value)|. Previously, malignant neoplasm morphologic abnormality concepts assumed a primary malignancy (an assumption originating from ICD classifications) and this assumption of primary was inferred through the hierarchy parent creating issues in modelling agnostic (unspecified) malignancy and metastatic disorder content.
- Metastatic malignant neoplasm 'to x site' and 'from x site' going forward will not be precoordinated in one concept but recorded separately as 2 concepts. The reason is to avoid 'combinatorial explosion' of precoordinating all possible malignant neoplastic morphological cell types, all possible body sites of the primary malignancy, and all sites of metastases.

## Next Steps

The following 7 concepts termed 'Malignant tumor involving an organ by separate metastasis from x' and 21 concepts termed 'Metastasis from malignant neoplasm of x' from 2002 are to be inactivated. Metastasis 'involving an organ' and metastasis concepts that are unspecified as to site of the metastatic neoplasm are not clinically useful as in most cases there will already be a record of the site of the primary malignant tumor, and the actual site of the metastasis will also be recorded as a separate concept (also see third bullet point above regarding possibility of combinatorial explosion):

369602008 |Malignant tumor involving an organ by separate metastasis from bladder (disorder)|  
369603003 |Malignant tumor involving an organ by separate metastasis from endometrium (disorder)|  
369605005 |Malignant tumor involving an organ by separate metastasis from ovary (disorder)|  
369606006 |Malignant tumor involving an organ by separate metastasis from prostate (disorder)|  
369607002 |Malignant tumor involving an organ by separate metastasis from uterine cervix (disorder)|  
369608007 |Malignant tumor involving an organ by separate metastasis from uterus (disorder)|  
369609004 |Malignant tumor involving an organ by separate metastasis from vagina (disorder)|

315006004 |Metastasis from malignant neoplasm of lung (disorder)|  
 314991008 |Metastasis from malignant tumor of adrenal gland (disorder)|  
 314995004 |Metastasis from malignant tumor of bladder (disorder)|  
 314990009 |Metastasis from malignant tumor of bone (disorder)|  
 315004001 |Metastasis from malignant tumor of breast (disorder)|  
 315005000 |Metastasis from malignant tumor of bronchus (disorder)|  
 315008003 |Metastasis from malignant tumor of buccal cavity (disorder)|  
 314992001 |Metastasis from malignant tumor of cervix (disorder)|  
 3315001009 |Metastasis from malignant tumor of gallbladder (disorder)|  
 15003007 |Metastasis from malignant tumor of esophagus (disorder)|  
 315001009 |Metastasis from malignant tumor of gallbladder (disorder)|  
 314996003 |Metastasis from malignant tumor of kidney (disorder)|  
 315000005 |Metastasis from malignant tumor of liver (disorder)|  
 314999005 |Metastasis from malignant tumor of pancreas (disorder)|  
 314997007 |Metastasis from malignant tumor of rectum (disorder)|  
 314988008 |Metastasis from malignant tumor of skin (disorder)|  
 314989000 |Metastasis from malignant tumor of soft tissues (disorder)|  
 315002002 |Metastasis from malignant tumor of stomach (disorder)|  
 315007008 |Metastasis from malignant tumor of thyroid (disorder)|  
 315009006 |Metastasis from malignant tumor of tongue (disorder)|  
 314993006 |Metastasis from malignant tumor of uterus (disorder)|

Approvals	Date	Name
Chief Terminologist	August 16th, 2022	James T. Case
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