Changes to the ICD CM for ICTM:

1. Renamed the following instances:
   1. **Disease\_Type** to **DiseaseType**
   2. **Disorder\_Or\_SyndromeType** to **DisorderOrSyndromeType**
   3. **Exposure\_To\_External\_Causes** to **ExposureToExternalCausesType**
   4. **Injuries** to **InjuriesType**
   5. **Reason\_For\_Encounter** to **ReasonForEncounterType**
   6. **Sign\_or\_SymptomType** to **SignOrSymptomType**
   7. **Unspecified** to **UnspecifiedType**
2. Added **new instance of Type** called **GroupingOfConceptsType**
3. Changed equivalent class expression of the class **Type** from *{DiseaseType DisorderOrSyndromeType ExposureToExternalCausesType ReasonForEncounterType SignOrSymptomType}* to *{DiseaseType DisorderOrSyndromeType ExposureToExternalCausesType* ***GroupingOfConceptsType InjuriesType*** *ReasonForEncounterType SignOrSymptomType* ***UnspecifiedType****}*
4. Added following rdfs: label values:
   1. “*Unspecified*” for **UnspecifiedType**
   2. “*Grouping of Concepts*” for **GroupingOfConceptsType**
5. Changed the type of the existing linearization view instances from **ICDLinearizationView** to **LinearizationView**
6. Created **new subclass of Term** called **MultiDescriptionTerm**
7. Created the following (non-functional) object properties:
   1. **termTitle** (MultiDescriptionTerm -> TitleTerm)
   2. **termDefinition** (MultiDescriptionTerm -> DefinitionTerm)
   3. **termSynonym** (MultiDescriptionTerm -> SynonymTerm)
8. Created new namespace: [http://who.org/fic#](http://who.org/fic) (prefixed as “who-fic”) and created **who-fic:Type** as a superclass of icd:Type and **who-fic:hasType** as a super-property of icd:hasType.
9. Changed and added rdfs:comment to **Morbidity**, **Mortality**, **PrimaryCare** and **Research** LinearizationView instances.
10. Changed the value of **sortingCode** property of all LinearizationView instances to allow more than 10 linearizations.
11. See last part of (8)

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1. [\*][[1]](#footnote-1) Added **isGrouping** datatype property. Set its domain to **LinearizationSpecification**, its range to Boolean, and its cardinality to single.
2. [\*] Added **alternativeLabel** datatype property. Set its domain to L**anguageTerm** and its range to String. This property should be left non-functional.

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1. [\*][[2]](#footnote-2)Added a subclass of **LinearizationSpecification** called **HistoricLinearizationSpecification**
2. [\*] Added **historicLinearization** property and set its domain to **LinearizationSection** and its range to **HistoricLinearizationSpecification**.
3. [\*] Added sub-properties of the **historicLinearization** property (**icd10Linearization** and **icd10TabulationList**), to allow representation of linearizations that encode ICD-10 tabulation lists and ICD-10 (or ICD-9) national modifications.
4. [\*] Added more **LinearizationView** instances:
   1. 6 for the ICD-10 Special Tabulation Lists (M1, M2, M3, M4, Mb, and VA).
   2. 6 for historic ICD-10 linearizations (ICD-10, ICD-10-CM, ICD-10-AM, ICD-10-CA, ICD-10-GM, ICD-10-TM)
   3. 2 new ICD11 linearizations by splitting the Primary Care linearizations into high and low resource settings
5. [\*] Added a boolean datatype property called **isObsolete**, with the domain **DefinitionSection**
6. [\*] Created 3 subclasses of **LinearizationView** (**ICD11LinearizationView**, **ICD10LinearizationView**, and **ICD10TabulationListView**) and reorganized its instances into these subclasses.

TODO in configuration\_ICD.xml:

1. For Type:
   1. Update instance names
   2. Add new type for group of concepts
   3. Increase height by 10 pixels (from 150 to 160)
2. For Linearization:
   1. Decrease height by 10 pixels (from 335 to 325)
   2. Increase first column width from 165 to 175 (to accommodate an extra character in sorting label)
3. Rules for calculating height of instancecheckbox and instanceradiobutton widgets depending on the number of choices
   1. Between 1-5: x 2 + 20 (min 50)
   2. Between 6-10: x 2 + 10
   3. Between 11-15: x 2
   4. Between 16-20: x 2 - 20

Changes to ICTM CM:

1. Renamed
   1. HeatTMExopathicFactor to FireTMExopathicFactor
   2. TerrorTMEndopathicFactor to FrightTMEndopathicFactor
   3. MelancholyTMEndopathicFactor to ThoughtfulnessTMEndopathicFactor
   4. GriefTMEndopathicFactor to SorrowTMEndopathicFactor
2. Added title and definition to most of the values
3. Made OtherFactorsTMTerm subclass of icd:BioportalReferenceTerm
4. Renamed
   1. TaiYangStage to GreaterYangDiseaseStage
   2. YangMingStage to YangBrightnessDiseaseStage
5. Is this the source where the names and definitions of the new values for Six Stages Of Disease are coming from (starting from page 162, numbered as 152)? <http://www.wpro.who.int/NR/rdonlyres/14B298C6-518D-4C00-BE02-FC31EADE3791/0/WHOIST_26JUNE_FINAL.pdf> Looking at that list and the definitions it seems to be a list of pattern and syndroms and not stages of evolution of diseases. Compared to the source that I mentioned the code in the Excel sheet are shifted down by one (i.e. in the Excel sheet it is coded 2.11.1 what is 2.11.2 in the document).
6. Renamed:
   1. IrritableHeatSensationInHandAndFootTMPattern to VexingHeatInExtremitiesTMPattern
   2. SevereColdnessOfExtremitiesTMPattern to ReversalColdOfExtremitiesTMPattern
7. Separated **ictm:Type** from icd:Type and who-fic:Type and moved the ICTM specific types as instances of ictm:Type. Added ictm:Type to the range of icd:hasType property. Step (12) makes some of these actions unnecessary.
8. Fixed up the values for the icd:sortingLabel and the icd:icdTitle properties for the example ICTM category instances
9. Renamed property:
   1. **sixStagesOfDiseaseTransformation** to **sixStagesOfDiseaseTransformationTM**
   2. **zangFuSystem** to **zangfuSystem**
10. Replaced labels/titles for:
    1. **UpperRegionTM**, **MiddleRegionTM**, **LowerRegionTM**
    2. All **instances of MeridianSystemTMTerm**
11. Created 2 new instances of ExternalContractionTMTerm class:
    1. **WarmToxinAndPestilentialQiTMExopathicFactor**
    2. **InfectionOfPestilentialFactorsTMExopathicFactor**
12. Removed **ictm:Type** as superclass of icd:Type and changed definition of ictm:Type to **“icd:Type or {DiseaseTMType, PatternTMType}”**
13. Created **ictm:hasType** property as a subproperty of who-fic:hasType. Ictm:hasType is functional and its range is ictm:Type.
14. Added **icd:MultiDescriptionTerm** as a superclass of both **ictm:Type** and **icd:Type**
15. Added **language specific titles and definitions** for all icd:Type and ictm:Type instances
16. Specified all the missing language value for all **TitleTerm, SynonymTerm and DefinitionTerm instances**
17. Made **ictm:OtherFactorsTMTerm** a subclass of icd:CausalPropertyTerm instead of being direct subclass of icd:BioportalReferenceTerm
18. Added **ictm:MeridianSystemTMTerm** as a subclass of icd:ClinicalDescriptionTerm (and updated the rdfs:label and comment of the icd:ClinicalDescriptionTerm)

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1. Created new subclass of **LinearizationView** called **ICTMLinearizationView** and moved all the local **LinearizationView** instances in the new subclass.

1. [\*] marks the changes that have been implemented also in the “main” ICD content model. [↑](#footnote-ref-1)
2. [\*] marks the changes that have been implemented also in the “main” ICD content model. [↑](#footnote-ref-2)