



MOHCCN Data Model v2 Release Notes (Feb 15, 2023)

All tables:

- Changed fields related to dates to collect date instead of just year and month (ie. changed from "YYYY-MM" to "YYYY-MM-DD"). Collecting just the year and month prevents specificity in mapping clinical events. For example, if treatment and specimen collection occur in the same month, unable to determine if specimen was collected before or after treatment. Possible solutions include ingesting submitted data with dates so calculations can be done more precisely, and masking/hiding the date on the front-end.

Sample Registration:

- "specimen_tissue_source" terminology refined and redundant terms removed. Added references to standard terminology.
- "gender" and "sex_at_birth" fields moved to the Donor table. If these fields are unknown, programs will need to apply for a clinical exception.

Donor:

- New optional field "lost_to_followup_after_clinical_event_identifier" to indicate when the donor was lost to follow up. Previously this field was in the Follow Up table, so only donors lost to follow up after a Follow Up event could be indicated.
- New optional field "date_alive_after_lost_to_followup" added to allow data submitters to indicate the use case where a donor was lost to follow up, but discovered to be alive later on without any information about their cancer disease status.
- Added references to ICD-O code for each term in "primary_site"

Specimen:

- Added new staging system to "pathological_tumour_staging_system" field
- Added new stage groups in the "pathological_stage_group" field belonging to new staging systems added.
- Updated description for "specimen_storage" to indicate that it is referring to long term storage.
- Added new optional field "specimen_processing"
- Added new optional field "specimen_laterality"
- Added new tumour grading systems in the "tumour_grading_system" field.
- Added new tumour grades in the "tumour_grade" field belonging to new tumour grading systems added.

Primary Diagnosis:

- Added a new optional field for "laterality".
- Added new staging systems to the "clinical_tumour_staging_system" field.
- Added new stage groups in the "clinical_stage_group" field belonging to new staging systems added.



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Treatment:

- Removed the term "Ablation" from "treatment_type" terminology, and moved it to the "surgery_type" field.
- Removed the term "Endoscopic therapy" from "treatment_type" terminology.
- Added a new optional field "line_of_treatment" to indicate line of treatment if it is not the primary treatment.
- Added new terms to "treatment_setting" field.
- Added new terms to "treatment_intent" field.
- Added "Blazer score" to "response_to_treatment_criteria_method" terminology
- Added response criteria belonging to Blazer score in "response_to_treatment" terminology.
- Added new optional field "status_of_treatment"

Chemotherapy:

- Added a new required field "drug_reference_database" to indicate which drug database the drug name exists in.
- Renamed "drug_rxnormcui" to "drug_reference_identifier" to allow submission of drug reference identifiers from other drug databases (not just restricted to RxNorm).
- Renamed "chemotherapy_drug_dosage_units" to "chemotherapy_drug_dose_units" (replaced the word "dosage" with "dose")
- Renamed "cumulative_prescribed_drug_dosage" to "prescribed_cumulative_drug_dose" for consistency with ARGO data model.
- Renamed "cumulative_actual_drug_dosage" to "actual_cumulative_drug_dose" for consistency with ARGO data model.
- Added "IU/kg" to the "chemotherapy_drug_dose_units" field.

Hormone Therapy:

- Added a new required field "drug_reference_database" to indicate which drug database the drug name exists in.
- Renamed "drug_rxnormcui" to "drug_reference_identifier" to allow submission of drug reference identifiers from other drug databases (not just restricted to RxNorm).
- Renamed "hormone_drug_dosage_units" to "hormone_drug_dose_units" (replaced the word "dosage" with "dose")
- Renamed "cumulative_prescribed_drug_dosage" to "prescribed_cumulative_drug_dose" for consistency with ARGO data model.
- Renamed "cumulative_actual_drug_dosage" to "actual_cumulative_drug_dose" for consistency with ARGO data model.
- Added "IU/kg" to the "hormone_drug_dose_units" field.

Radiation:

- Added the term "Radiopharmaceutical" to "radiation_therapy_modality"



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- Updated terminology for "anatomical_site_irradiated" (derived from Cancer Care Ontario).

Immunotherapy:

- Added a new required field "drug_reference_database" to indicate which drug database the drug name exists in.
- Added a new required field "drug_reference_identifier" to allow submission of drug reference identifiers from other drug databases (not just restricted to RxNorm).
- Added a new required field "immunotherapy_drug_dosage_units".
- Added a new required field "prescribed_cumulative_drug_dose"
- Added a new required field "actual_cumulative_drug_dose"
- Added a new required field "immunotherapy_drug_dose_units" field.

Surgery:

- New terms added to the "surgery_type" field.

Follow Up:

- Updated "Progression NOS" to "Progression not otherwise specified"
- Update requirements for "anatomic_site_progression_or_recurrence".
- Added a new staging systems to the "recurrence_tumour_staging_system" field.
- Added new stage groups in the "recurrence_stage_group" field belonging to new staging systems added.

Biomarker:

- Added new optional fields for ER, HER and PR status ("er_status", "er_percent_positive", "her2_ish_status", "her2_ihc_status", "pr_status", "pr_percent_positive")
- Added new optional fields for HPV status ("hvp_ihc_status", "hvp_pcr_status", "hvp_strain")

Exposure:

- New optional "Exposure" table added with optional fields related to tobacco exposure ("tobacco_smoking_status", "tobacco_type", "pack_years_smoked")