Why search or query SNOMED CT content?

Common use cases include:

- Terminology authoring
- Reference set authoring intensional sets
- Mappings
- Terminology binding
- EHR queries
- Validation/QA

Challenges

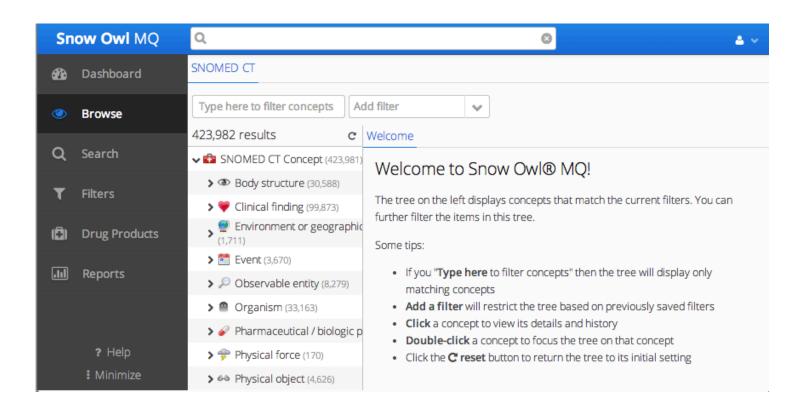
- Over 300,000 concepts
- Lexical search may be insufficient
 - Different meanings could still carry the same description
- Semantic search requires comprehensive knowledge of the concept model
- Various component properties, extendable by RF2
- Average users have high-level or only vague understanding of SNOMED CT

A search interface must be

- ... powerful enough to cater for all the relevant attributes (including lexical, semantic and metadata searches).
- ...yet simple and user friendly.

Snow Owl Meaningful Query (MQ)

- Online browser for SNOMED CT and extensions
 - Advanced search
 - Filtered hierarchy
- EHR datastore
- Semantic query engine to extract the semantics captured in EHRs
- Terminology server integration





Introduce filters

- Concept, Description, Property, Refset and Mapping filters
- Some relevant filters: property-value, module, description term, reference set, mapping

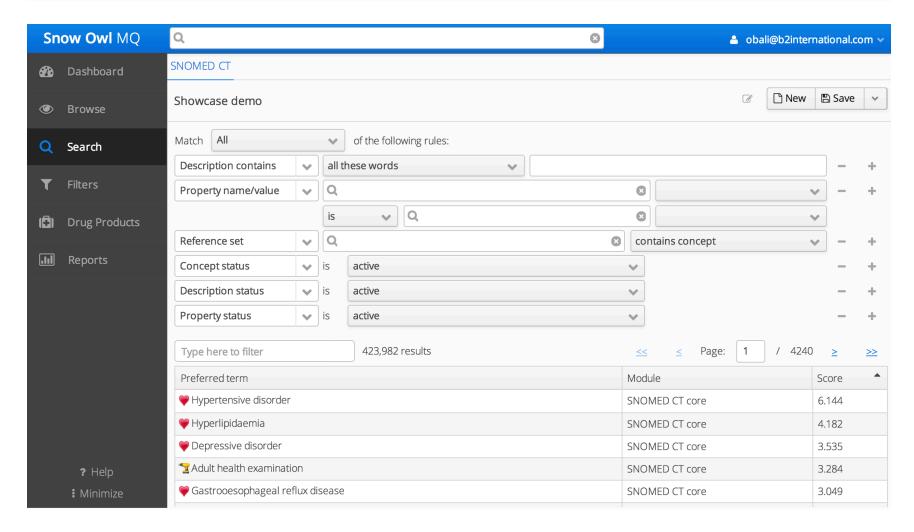
Features to check out

- Create a simple filter
- Open a few more complex filters
- Browse view
- Filtered browse view

QUESTIONS?

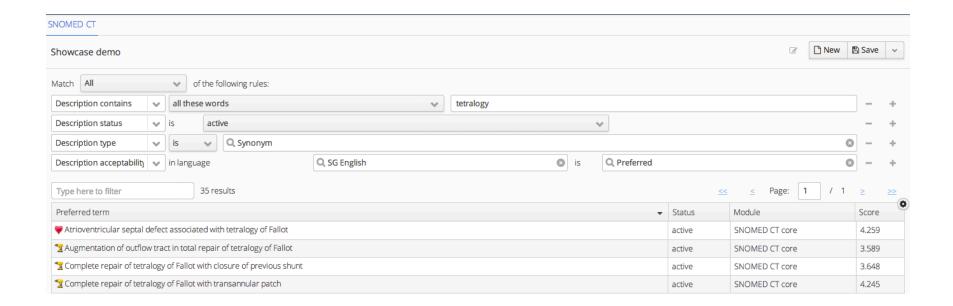
THANK YOU!

The advanced search interface



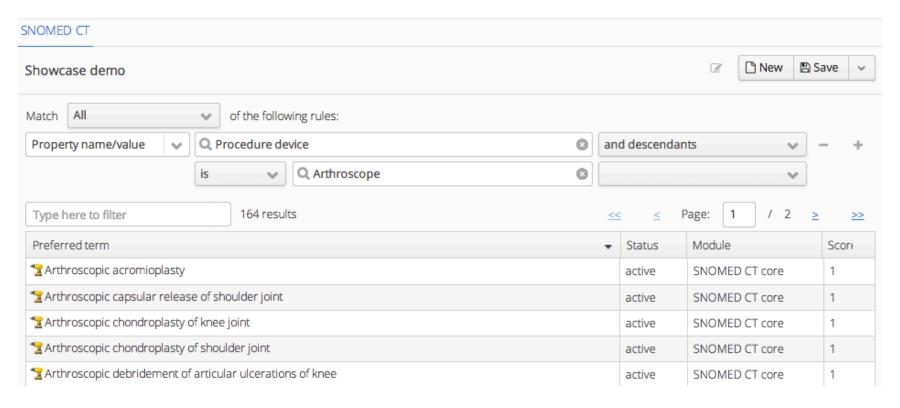
Lexical search in a specific description type

To return all concepts that have an active SG English preferred term containing the word tetralogy.



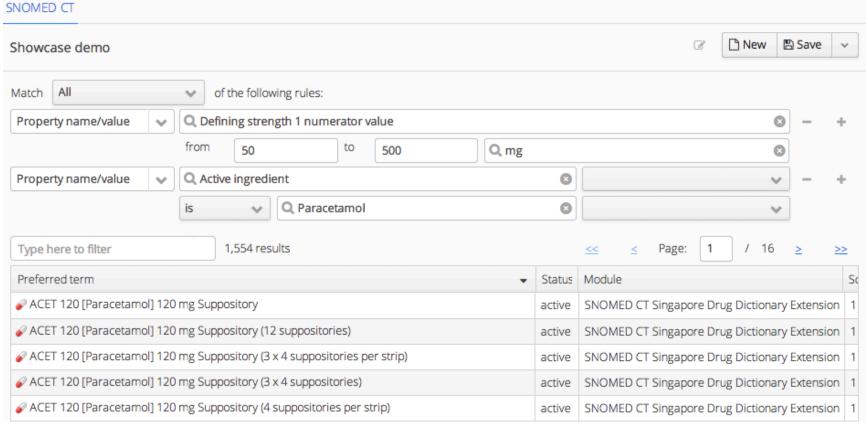
Search by attribute (relationship)

To return all concepts, that have a procedure device type of attribute, or any of its subtypes (eg. direct device), with the value of arthroscope.



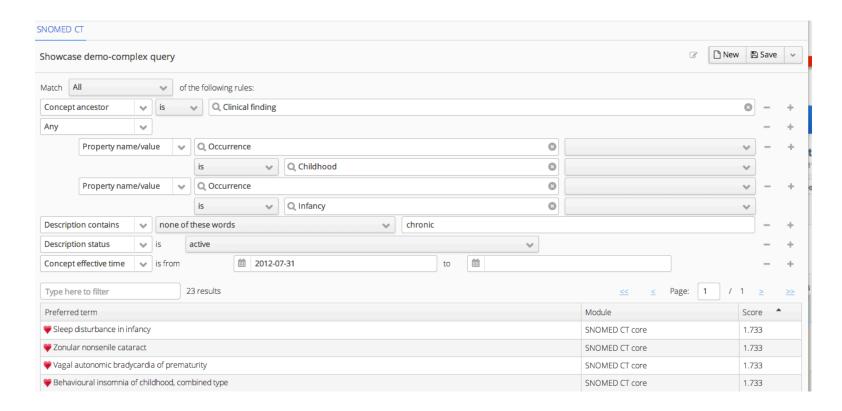
Search by attribute (concrete domain)

To return all concepts with the active ingredient of paracetamol, whose strength is between 50 and 500 mg.



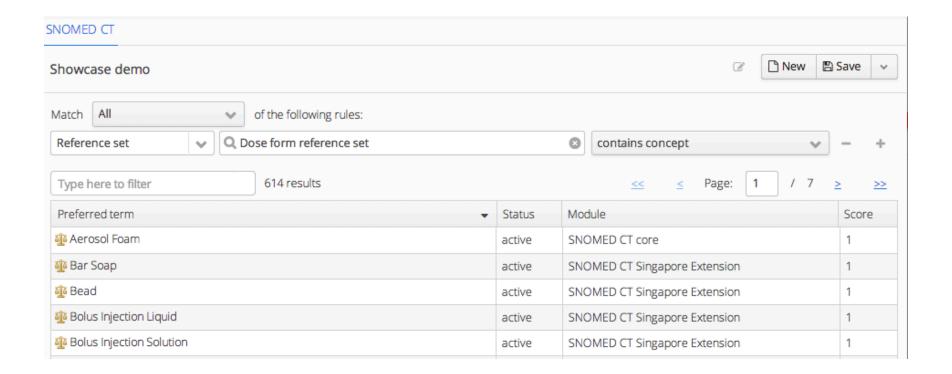
Complex query

The below query combines hierarchical, attribute, lexical and metadata searches, using logical and, logical or operators and exclusion.



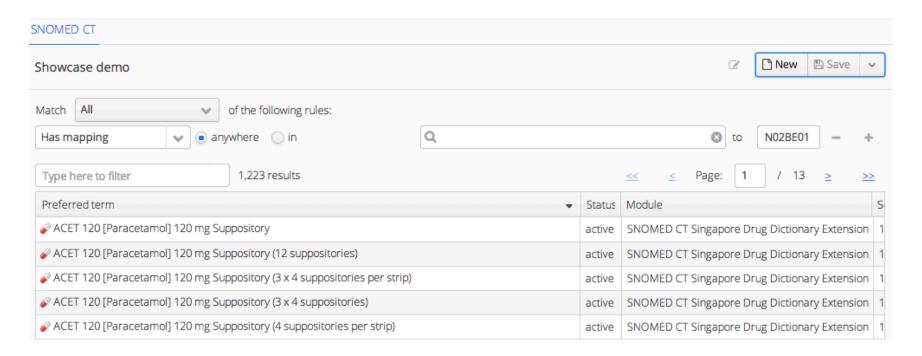
Search in reference set

To return members of a reference set.

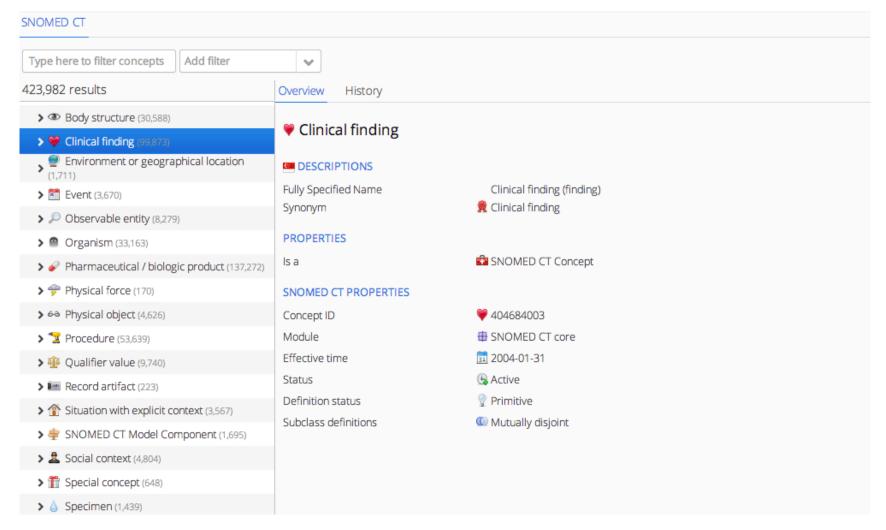


Search by mapping

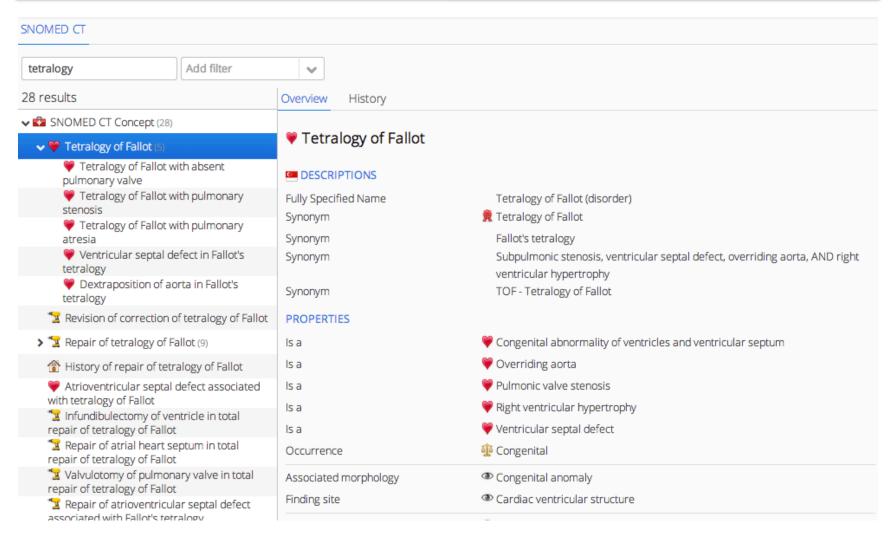
To search concepts by their maps. The below example returns all concepts, that are mapped to the specified ATC code.



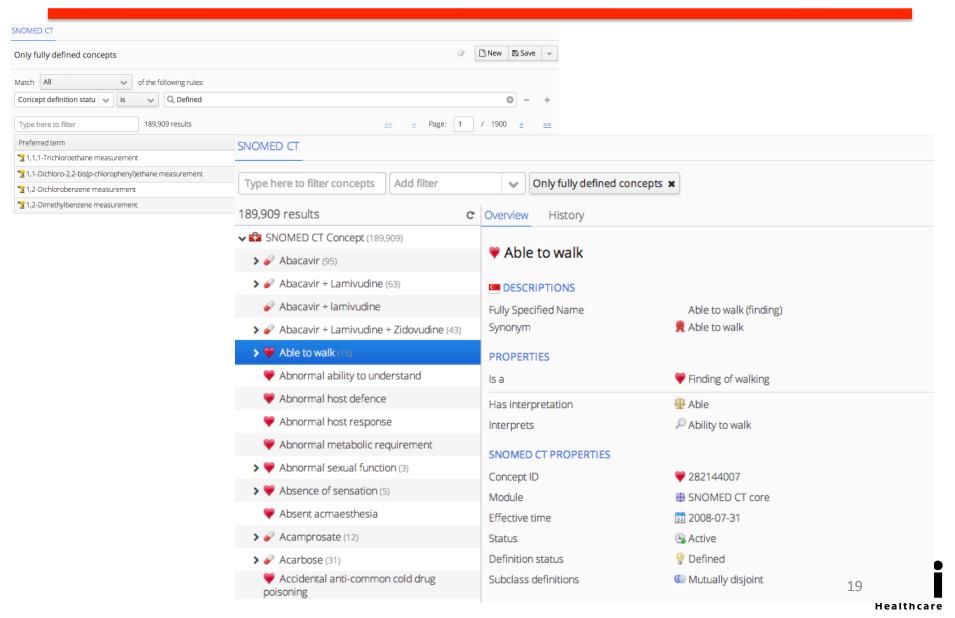
Browse hierarchy



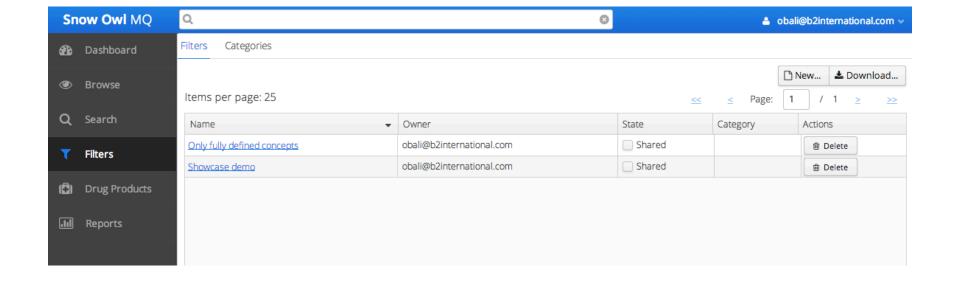
Quick filter hierarchy



Apply a pre-authored filter



Manage filters



Dashboard

