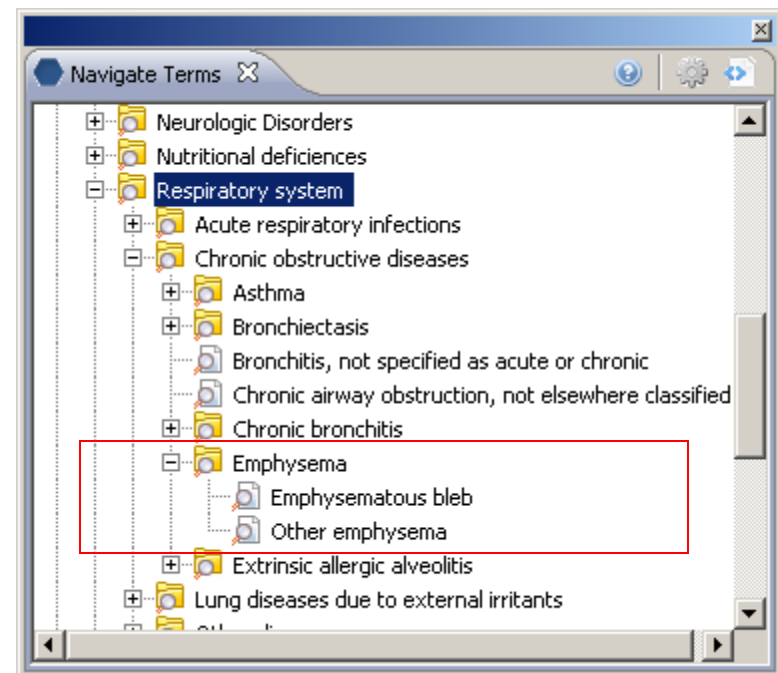
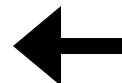
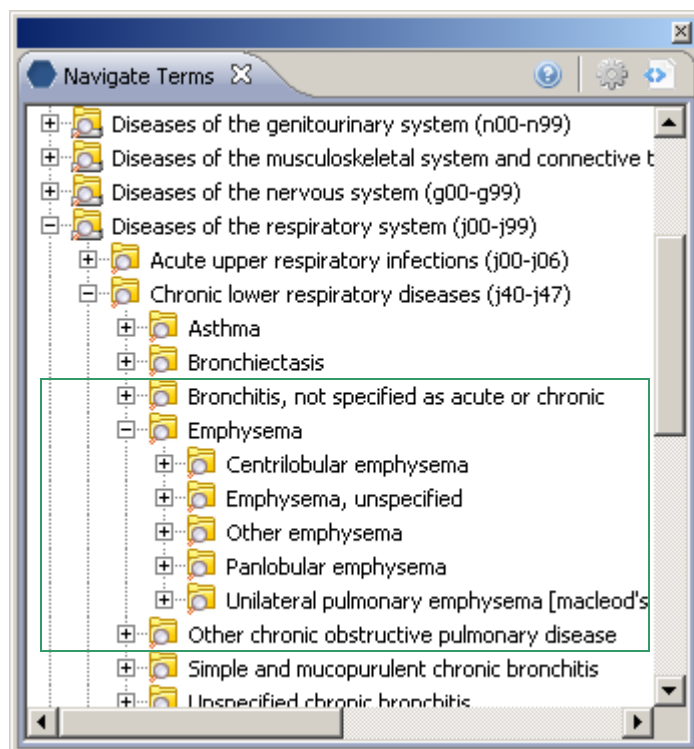


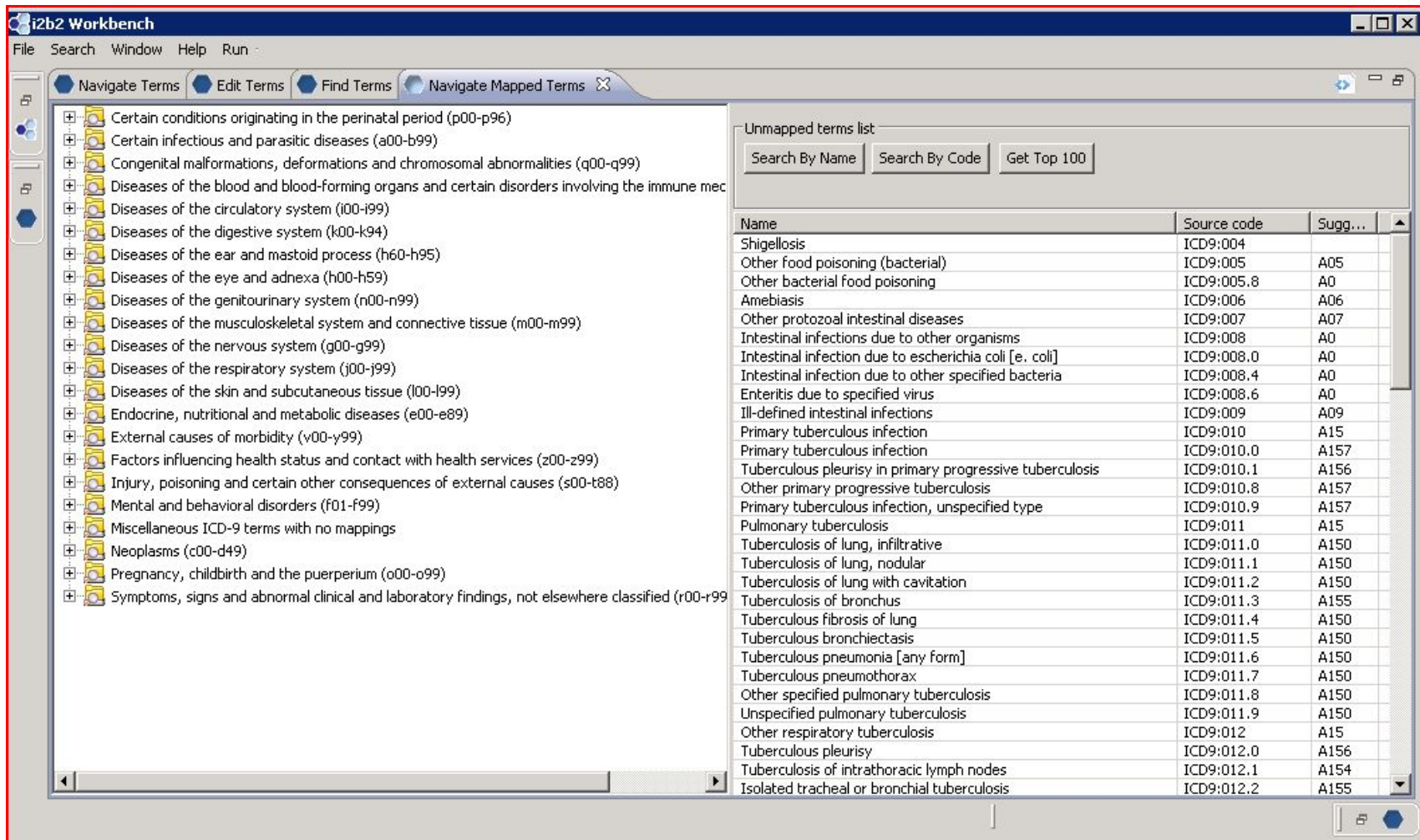
Integration tool merges ontologies

- Consider the case of an institution that has legacy ICD-9 data and is moving to ICD-10. We would like an i2b2 ontology that integrates ICD-9 into ICD-10.



Mapping Tool

- Tool to verify/(re)assign ontology mappings.



The screenshot displays the i2b2 Workbench interface. The left pane shows a hierarchical tree of ICD-9 categories, including:

- Certain conditions originating in the perinatal period (p00-p96)
- Certain infectious and parasitic diseases (a00-b99)
- Congenital malformations, deformations and chromosomal abnormalities (q00-q99)
- Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (d00-d99)
- Diseases of the circulatory system (i00-i99)
- Diseases of the digestive system (k00-k94)
- Diseases of the ear and mastoid process (h60-h95)
- Diseases of the eye and adnexa (h00-h59)
- Diseases of the genitourinary system (n00-n99)
- Diseases of the musculoskeletal system and connective tissue (m00-m99)
- Diseases of the nervous system (g00-g99)
- Diseases of the respiratory system (j00-j99)
- Diseases of the skin and subcutaneous tissue (l00-l99)
- Endocrine, nutritional and metabolic diseases (e00-e89)
- External causes of morbidity (v00-y99)
- Factors influencing health status and contact with health services (z00-z99)
- Injury, poisoning and certain other consequences of external causes (s00-t88)
- Mental and behavioral disorders (f01-f99)
- Miscellaneous ICD-9 terms with no mappings
- Neoplasms (c00-d49)
- Pregnancy, childbirth and the puerperium (o00-o99)
- Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (r00-r99)

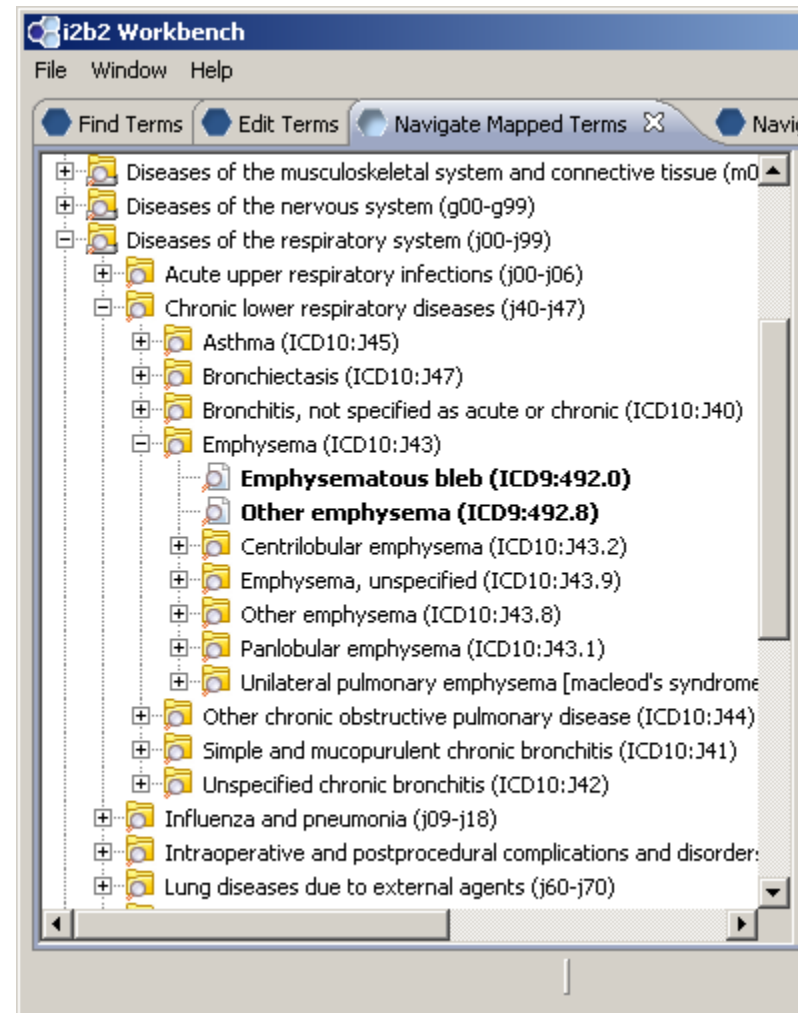
The right pane shows the 'Unmapped terms list' with a search interface and a table of terms:

Search By Name Search By Code Get Top 100

Name	Source code	Sugg...
Shigellosis	ICD9:004	
Other food poisoning (bacterial)	ICD9:005	A05
Other bacterial food poisoning	ICD9:005.8	A0
Amebiasis	ICD9:006	A06
Other protozoal intestinal diseases	ICD9:007	A07
Intestinal infections due to other organisms	ICD9:008	A0
Intestinal infection due to escherichia coli [e. coli]	ICD9:008.0	A0
Intestinal infection due to other specified bacteria	ICD9:008.4	A0
Enteritis due to specified virus	ICD9:008.6	A0
Ill-defined intestinal infections	ICD9:009	A09
Primary tuberculous infection	ICD9:010	A15
Primary tuberculous infection	ICD9:010.0	A157
Tuberculous pleurisy in primary progressive tuberculosis	ICD9:010.1	A156
Other primary progressive tuberculosis	ICD9:010.8	A157
Primary tuberculous infection, unspecified type	ICD9:010.9	A157
Pulmonary tuberculosis	ICD9:011	A15
Tuberculosis of lung, infiltrative	ICD9:011.0	A150
Tuberculosis of lung, nodular	ICD9:011.1	A150
Tuberculosis of lung with cavitation	ICD9:011.2	A150
Tuberculosis of bronchus	ICD9:011.3	A155
Tuberculous fibrosis of lung	ICD9:011.4	A150
Tuberculous bronchiectasis	ICD9:011.5	A150
Tuberculous pneumonia [any form]	ICD9:011.6	A150
Tuberculous pneumothorax	ICD9:011.7	A150
Other specified pulmonary tuberculosis	ICD9:011.8	A150
Unspecified pulmonary tuberculosis	ICD9:011.9	A150
Other respiratory tuberculosis	ICD9:012	A15
Tuberculous pleurisy	ICD9:012.0	A156
Tuberculosis of intrathoracic lymph nodes	ICD9:012.1	A154
Isolated tracheal or bronchial tuberculosis	ICD9:012.2	A155

Merging Ontologies

- Mapping tool provides a visualization of what the merged ontologies would look like
- What if we could extract a single metadata table from this?



Integration tool

