SNOMED Tips and Tricks

Jan Blanchard, CPEDC

PCC User's Conference 2016
Records Through the Ages

-Paper charts and paper claims
(100% Manual reporting (Claim submission, Morbidity and Mortality/Population Health))

-Next, paper charts and electronic claims
  (~25% Manual reporting)

-Now, electronic charts and electronic billing
  (~5% Manual reporting)
PCC's Code Transition Strategy

1. ICD-9 Billing and ICD-9 Charting
   a) ICD-9: Configurable table, Manual maintenance
   b) SNOMED: Locked table, Automated maintenance
PCC's Code Transition Strategy

2. ICD-9 Billing and SNOMED Charting
   a) ICD-9: Configurable table, Manual maintenance
   b) SNOMED: Locked table, Automated maintenance
3. ICD-10 Billing and SNOMED Charting

a) ICD-10: Locked table, Automated maintenance

b) SNOMED: Locked table, Automated maintenance
Future of Code Changes

We're not done yet... National Institutes of Health:

“SNOMED CT and the upcoming ICD-11 represent a new generation of ontology-based terminologies and classifications. The proposed alignment of these two systems and, in consequence, the validity of their cross-utilisation requires a thorough analysis of the intended meaning of their representational units.”
SNOMED - Deep Dive

- Systematized NOmenclature of MEDicine
- Developed by College of American Pathologists
- Rights transferred to IHTSDO - International Health Terminology Standards Development Organisation

http://www.ihtsdo.org/
SNOMED - History

Superseded by:

● Systemized Nomenclature of Human and Veterinary Medicine: SNOMED International
● Then by Systematized Nomenclature of Medicine – Reference Terminology (SNOMED RT®)
● Finally, SNOMED RT merged with Clinical Terms Version 3 (CTV3) resulting in the creation of SNOMED –Clinical Terms

SNOMED CT®
Industry Use of SNOMED-CT

- Captures patient encounters
- Organized into seven axes:
  1. Topography
  2. Morphology
  3. Etiology
  4. Function
  5. Disease
  6. Procedure
  7. Occupation
Industry Use of SNOMED-CT

- >300,000 medical concepts
- Divided into hierarchies including:
  - Body structure
  - Clinical findings
  - Geographic location
  - Pharmaceutical/biological product
  - Each concept represented by an individual number
PCC’s use of SNOMED-CT

- PCC EHR Encounter
- Problem List
- Allergy List
- eLabs
SNOMED-CT in Problem List

SNOMEDs may be added to, edited in and/or deleted from Problem List via Medical Summary

May be added via Diagnosis in Encounters, too
SNOMED-CT in Allergies

May be added, edited, and/or deleted via Medical Summary alone
SNOMED-CT in Encounter

To refine, or not to refine?

<table>
<thead>
<tr>
<th>Diagnoses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute otitis media</td>
</tr>
<tr>
<td>Refine the diagnosis of Acute otitis media</td>
</tr>
<tr>
<td>Laterality: left ear</td>
</tr>
<tr>
<td>ICD-10: H66.92 Otitis media, unspecified, left ear</td>
</tr>
<tr>
<td>notes</td>
</tr>
<tr>
<td>Add to Problem List</td>
</tr>
<tr>
<td>Onset: mm/dd/yy</td>
</tr>
<tr>
<td>Problem Note: problem note</td>
</tr>
</tbody>
</table>
SNOMED-CT in Encounter

- Link multiple ICDs to one SNOMED
  - Diagnosis configuration (v7.3, April '16)
## SNOMED-CT in Family History

### Diagnosis Configuration

**Search Filter:** congenital

<table>
<thead>
<tr>
<th>Favorite</th>
<th>Allergy</th>
<th>Family Hx</th>
<th>Diagnosis</th>
<th>Alternate Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>❌</td>
<td></td>
<td>❌</td>
<td>Ablepharon</td>
<td>Ablepharon - absent eyelids, Open eye, Ablepharia</td>
</tr>
<tr>
<td></td>
<td></td>
<td>❌</td>
<td>Achondroplasia</td>
<td>Achondroplastic dwarfism, Congenital osteosclerosis, Ost...</td>
</tr>
<tr>
<td></td>
<td></td>
<td>❌</td>
<td>Anencephalus</td>
<td>Congenital absence of brain, Anencephalic monster, Ane...</td>
</tr>
<tr>
<td>❌</td>
<td></td>
<td>❌</td>
<td>Cerebral palsy</td>
<td>Infantile cerebral palsy, Congenital cerebral palsy, Cerebr...</td>
</tr>
<tr>
<td></td>
<td></td>
<td>❌</td>
<td>Cleft lip</td>
<td>CL - Cleft lip, Labium leporinum, Harelip, Congenital fissu...</td>
</tr>
<tr>
<td></td>
<td></td>
<td>❌</td>
<td>Congenital absence of spleen</td>
<td>Splenic agenesis, Congenital asplenia</td>
</tr>
<tr>
<td></td>
<td></td>
<td>❌</td>
<td>Congenital anomaly of cardiovascular system</td>
<td>Congenital cardiovascular disorder</td>
</tr>
<tr>
<td></td>
<td></td>
<td>❌</td>
<td>Congenital anomaly of gastrointestinal tract</td>
<td>Gastrointestinal tract congenital anomaly</td>
</tr>
<tr>
<td></td>
<td></td>
<td>❌</td>
<td>Congenital anomaly of heart valve</td>
<td>Congenital heart valve abnormality, Cardiac valvular mal...</td>
</tr>
<tr>
<td></td>
<td></td>
<td>❌</td>
<td>Congenital anomaly of musculoskeletal system</td>
<td>Congenital malformation of musculoskeletal system, Con...</td>
</tr>
</tbody>
</table>

**Display:**
- All Diagnoses
- Favorites
- Allergies
- Family Hx

**Columns:** Favorite, Allergy, Family Hx, Alternate Description

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[burlington, VT]  
PCC Pediatric EHR Solutions
Are you a SNOMED superuser?

- Find Other Diagnosis
- Alternate Descriptions
- Diagnosis Configuration
- Billing Configuration
Find Other Diagnosis

Plan

Select All
Call or return to clinic

notes

Find Other Diagnosis

- Undo
- Redo
- Cut
- Copy
- Paste
- Delete
- Select All
- Insert Unicode control character

Problem List

<table>
<thead>
<tr>
<th>Status</th>
<th>Problem</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active</td>
<td>congenital</td>
</tr>
</tbody>
</table>

Allergies

<table>
<thead>
<tr>
<th>Status</th>
<th>Allergy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active</td>
<td>Congenital absence</td>
</tr>
<tr>
<td></td>
<td>Congenital anomaly of skull</td>
</tr>
<tr>
<td></td>
<td>Congenital anteversion of femur</td>
</tr>
<tr>
<td></td>
<td>Congenital deformity of right hip joint</td>
</tr>
<tr>
<td></td>
<td>Congenital deviation of nasal septum</td>
</tr>
<tr>
<td></td>
<td>Congenital dislocation of left hip</td>
</tr>
<tr>
<td></td>
<td>Congenital dislocation of right hip</td>
</tr>
</tbody>
</table>

burlington, VT

PCC Pediatric EHR Solutions
Diagnosis Configuration

Control Favorite, Allergy, Family History and Alternate Description settings
Billing Configuration

- Assisted mapping (NLM)
- Manual mapping
  - Preselect?
March 2016 US Edition

- Added to PCC v7.4 (released 6/26/16)

- Additions
  - Allergies
  - “Baby Premature” week by week
  - Eye injuries
  - Swelling/Tendinitis
  - Abnormal ultrasounds
  - Witness/Victim
SNOMED Reference

http://browser.ihtsdotools.org/

The IHTSDO SNOMED CT Browser

The IHTSDO SNOMED CT Browser has just got better! This is version 2.0. Please go to the release notes to see what’s changed!

The IHTSDO SNOMED CT Browser provides ways to browse and search SNOMED CT. The browser has been implemented as part of development within the IHTSDO Open Tooling Framework, by the IHTSDO and its development partners.

The Browser is provided by the IHTSDO to anyone for reference purposes. The interface and REST APIs are not to be used as part of production systems in health care settings.

Please provide any feedback on the browser by clicking on the feedback button at the top of the page. Your feedback is essential to the evolution and improvement of this service. Please visit SIRS to provide content feedback.

International Editions

- Go browsing...
  - International edition
  - January 2016
- Ir el Navegador...
  - Edición en español

Local Extensions

- Go browsing...
  - Australian edition
- Go browsing...
  - Canadian edition
- Gå til browser-siden
  - Danish edition
- Go browsing...
  - Netherlands edition
- Börja söka...
  - Swedish edition
- Go browsing...
  - United Kingdom edition
- Go browsing...
  - United States edition
- Go browsing...
  - Uruguay edition
Looking Ahead to ICD-11

- Looks more like SNOMED than ICD-10
- 11th revision process underway
- Will be released in 2018
- WHO stated ICD-11 will be EHR ready. Participate in this revision:

  http://apps.who.int/classifications/icd11/browse/l-m/en
What are your ideas and impressions of these codesets?
What Questions Do You Have?
Jan Blanchard, CPC, CPEDC
Pediatric Solutions Consultant

PCC
Control Your Future.

jan@pcc.com
www.pcc.com