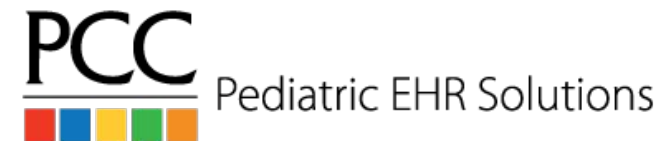


SNOMED Tips and Tricks

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)

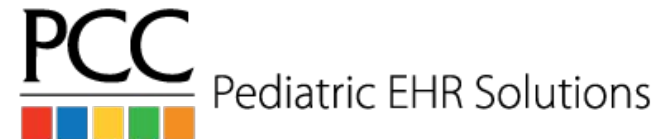
- Now, electronic charts and electronic billing

(~5% Manual reporting)



PCC's Code Transition Strategy

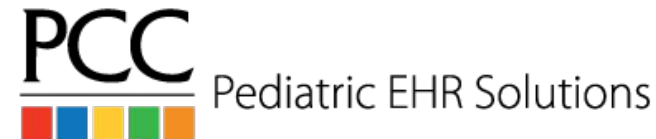
1. ICD-9 Billing and ICD-9 Charting
 - a) ICD-9: Configurable table, Manual maintenance
 - b) SNOMED: Locked table, Automated maintenance



PCC's Code Transition Strategy

2. ICD-9 Billing and SNOMED Charting

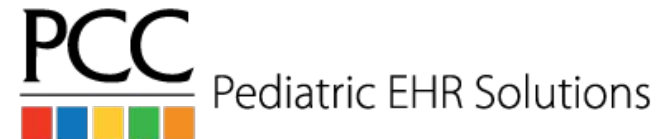
- a) ICD-9: Configurable table, Manual maintenance
- b) SNOMED: Locked table, Automated maintenance



PCC's Code Transition Strategy

3. ICD-10 Billing and SNOMED Charting

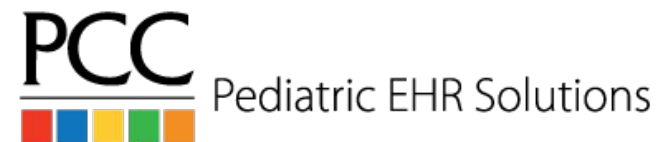
- a) ICD-10: Locked table, Automated maintenance
- b) SNOMED: Locked table, Automated maintenance



Future of Code Changes

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

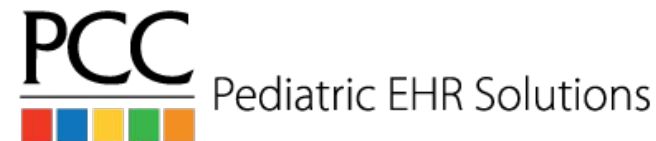
“SNOMED CT and the upcoming ICD-11 represent a new generation of ontology-based terminologies and classifications. The proposed alignment of these two systems and, in consequence, the validity of their cross-utilisation requires a thorough analysis of the intended meaning of their representational units.”



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/>

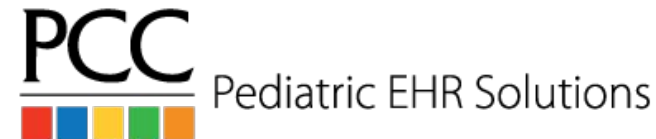


SNOMED - History

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



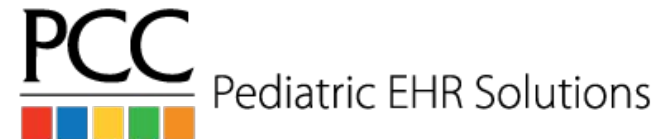
Industry Use of SNOMED-CT

- >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

The screenshot shows a software interface for a 'Problem List'. At the top, it says 'Problem List' and 'Modified N/A'. Below this is a table with two columns: 'Status' and 'Problem'. The 'Status' column has a dropdown menu currently set to 'Active'. The 'Problem' column contains the text 'congenital'. A dropdown menu is open from the 'Problem' field, showing a list of SNOMED-CT terms: 'Congenital absence', 'Congenital anomaly of skull', 'Congenital anteversion of femur', 'Congenital deformity of right hip joint', 'Congenital deviation of nasal septum', 'Congenital dislocation of left hip', and 'Congenital dislocation of right hip'. To the left of the main table, there is a section for 'Allergies' with a 'Mod' button and another 'Status' dropdown menu set to 'Active'.

Status	Problem
Active	congenital

Allergies Mod

Status
Active

- Congenital absence
- Congenital anomaly of skull
- Congenital anteversion of femur
- Congenital deformity of right hip joint
- Congenital deviation of nasal septum
- Congenital dislocation of left hip
- Congenital dislocation of right hip

SNOMED-CT in Allergies

May be added, edited, and/or deleted via
Medical Summary alone

Allergies *Unsaved Changes Display: All Statuses

Status	Allergy	Reaction	Onset	Resolved
Active	Allergy to fungus	swelling		
Active				

PCC eRx Allergies Updated 07/12/16 2:20 PM

Drug	Reaction	Onset

SNOMED-CT in Encounter

To refine, or not to refine?

Diagnoses

☐ Acute otitis media

Refine the diagnosis of Acute otitis media

Laterality: left ear

ICD-10: H66.92 Otitis media, unspecified, left ear

notes

☐ Add to Problem List Onset: mm/dd/yy Problem Note: problem note

SNOMED-CT in Encounter

- Link multiple ICDs to one SNOMED
 - Diagnosis configuration (v7.3, April '16)

Diagnoses

☐ Well child visit

Refine the diagnosis of Well child visit

ICD-10: Z00.129 Encounter for routine child health examination without abnormal findings

ICD-10: Z00.121 Encounter for routine child health examination with abnormal findings

Z00.129 Encounter for routine child health examination without abnormal findings

notes

☐ Ac

Z68.51 Body mass index (BMI) pediatric, less than 5th percentile for age

Z68.53 Body mass index (BMI) pediatric, 85th percentile to less than 95th percentile for age

Z68.54 Body mass index (BMI) pediatric, greater than or equal to 95th percentile for age

SNOMED-CT in Family History

Diagnosis Configuration

Search Filter: ✕ Search

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

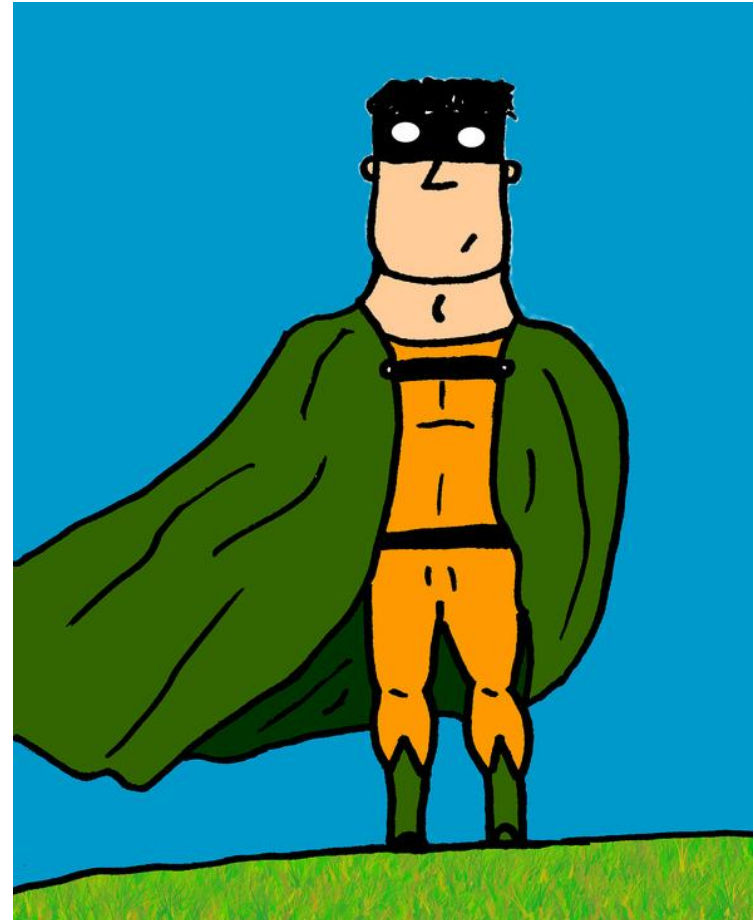
Display: ☐ All Diagnoses ☐ Favorites ☐ Allergies ☒ Family Hx

Columns: ▼

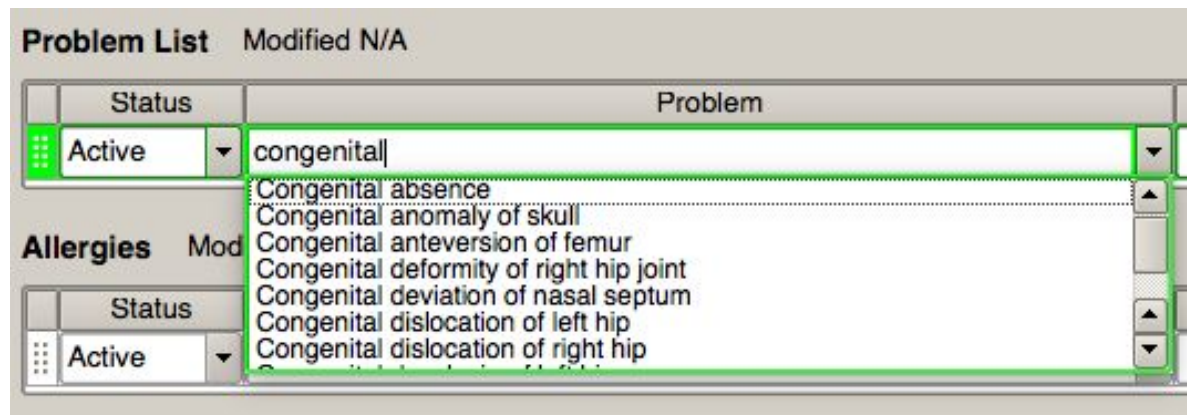
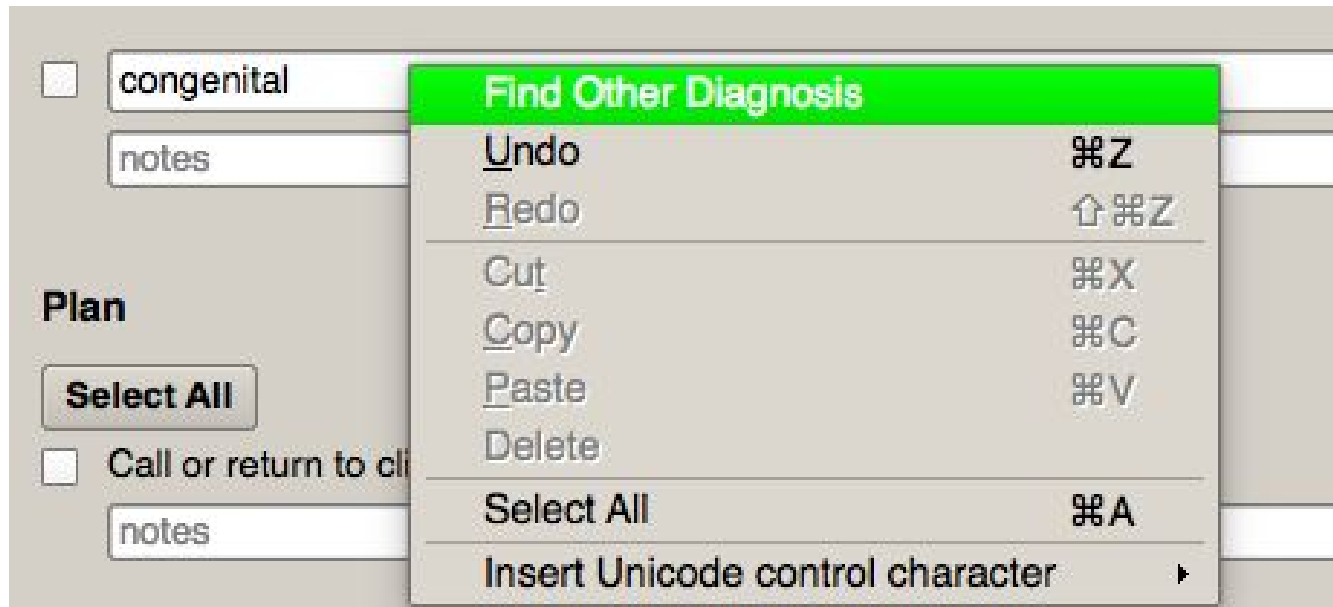
Page Up Page Down Page / 4 Edit Close

Are you a SNOMED superuser?

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



Find Other Diagnosis



Diagnosis Configuration

Control Favorite, Allergy, Family History and
Alternate Description settings

Diagnosis Configuration

Search Filter: congenital

Favorite	Allergy	Family Hx	Diagnosis	Alternate Description
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Congenital dysplasia of left hip	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Congenital dysplasia of right hip	
<input checked="" type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>			

Edit Diagnosis

Description: Congenital pigmented melanocytic nevus

- Congenital pigmented melanocytic nevus
- Congenital pigmented nevus
- Congenital melanocytic nevus
- Congenital melanocytic naevus
- Congenital pigmented naevus
- Congenital pigmented melanocytic naevus

Cancel Save

Billing Configuration

- Assisted mapping (NLM)
- Manual mapping
 - Preselect?

Diagnosis: **Well child visit**

ICD-9

V20.2 Well Infant/Child Care

ICD-10

☐ Assisted mapping (Source: National Library of Medicine)
There is no mapping guidance for this diagnosis.

☒ Manual mapping

Z00.121 Encounter for routine child health examination with abnormal findings	<input type="checkbox"/> Preselect
Z00.129 Encounter for routine child health examination without abnormal findings	<input checked="" type="checkbox"/> Preselect
Z68.51 Body mass index (BMI) pediatric, less than 5th percentile for age	<input type="checkbox"/> Preselect
Z68.52 Body mass index (BMI) pediatric, 5th percentile to less than 85th percentile for age	<input checked="" type="checkbox"/> Preselect
Z68.53 Body mass index (BMI) pediatric, 85th percentile to less than 95th percentile for age	<input type="checkbox"/> Preselect
Z68.54 Body mass index (BMI) pediatric, greater than or equal to 95th percentile for age	<input type="checkbox"/> 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>.

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 al 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

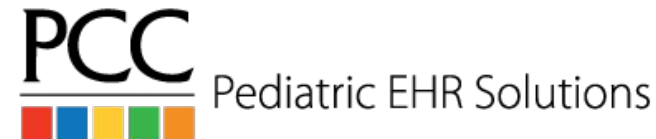
- Looks more like SNOMED than ICD-10
- 11th revision process underway
- Will be released in 2018
- WHO stated ICD-11 will be EHR ready. Participate in this revision:



— <http://apps.who.int/classifications/icd11/browse/l-m/en>



What are your ideas and
impressions of these codesets?



What Questions Do You Have?



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