

Training Session Mapping Tool between code sets: ICD-9-CM and ICD-10-CM/PCS

Presenters:

Peter Hicks, MA, MPH, Centers for Disease Control and Prevention (CDC)

Denise Love, Executive Director/Project Manager, National Association of Health Data Organizations (NAHDO)

Ginger Cox, RHIT, CCS, ICD-9/10 Coding and Conversion Analyst, University of California, Davis (UC Davis), Center for Healthcare Policy and Research

Patrick Romano, MD, MPH, FACP, FAPP, Professor of Medicine and Pediatrics, UC Davis School of Medicine, Center for Healthcare Policy and Research



If you are seeking Certified in Public Health (CPH) recertification credit for this webinar, please be sure to fill out the evaluation form at the end of the webinar.

One credit is available for attending this webinar and completing the evaluation.

If you have any questions, please contact us at syndromic@syndromic.org.

Learning Objectives



By the end of this presentation, attendees will be able to:

- Describe how to use the MapIt tool;
- 2. Determine tool access, capabilities, and application; and
- 3. Know how the MapIt tool can be applied to the current ICD-9/10 Transition.



Upcoming ISDS Events:

2014 ISDS Conference Abstract Submission NOW OPEN until September 3rd

http://www.syndromic.org/annual-conference/2014-isds-conference/abstract-submission

Webinar: Mortality Associated with Heat Wave of 2010 and Ahmedabad Heat Action Plan

Date/Time: TODAY, June 3rd, 11:30pm – 12:30am ET (June 4th)

Meaningful Use Community Call

Date/Time: Friday, June 6th, 1pm-2pm ET

BioSense User Group Call

Date/Time: Tuesday, June 10th, 3pm-4:30pm ET

Research Committee Call

Date/Time: Wednesday, June 11th, 1pm-2pm ET

Webinar: New challenges in tobacco surveillance: monitoring the prevalence of electronic

cigarettes and hookah use in the United States

Date/Time: Tuesday, June 24th, 2pm-3pm ET

Learn more at www.syndromic.org

Training Session: Mapping Tool between two code sets ICD-9-CM and ICD-10-CM/PCS

ICD-10 Transition Workgroup

Centers for Disease Control and Prevention



- □ Introduction
- □ Kickoff: BioSense Syndromic Surveillance Mapping Work
- Development
- □ Background: Mapping logic
- Online tools and Mapping logic
- □ GEM flags
- Mapping Examples
- □ Demonstration of MapIT and changes
- □ Summary

Introduction

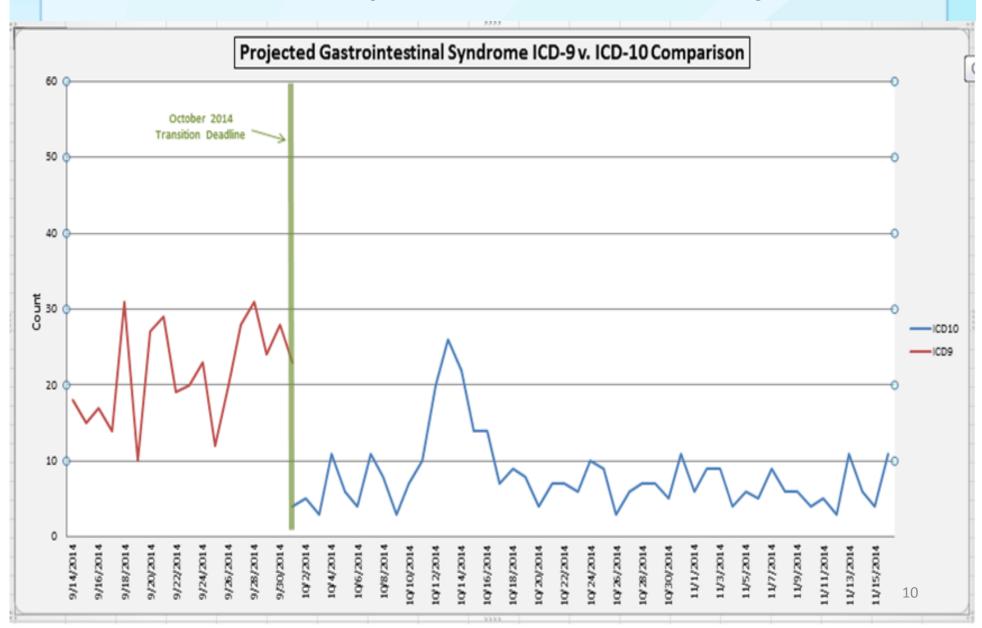
- □ Peter Hicks, Project Manager, DHS/CSELS/OPHSS/CDC, ICD-10 Transition Workgroup
- □ Denise Love, Executive Director/Project Manager, National Association of Health Data Organizations (NAHDO)
- ☐ Ginger Cox, RHIT, CCS, ICD-9/10 Coding and Conversion Analyst, University of California, Davis Center for Healthcare Policy and Research
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CDC / CSTE / ISDS Syndromic Surveillance Definition ICD Code Mapping Consensus Process



Potential Impact on Time Series Analysis

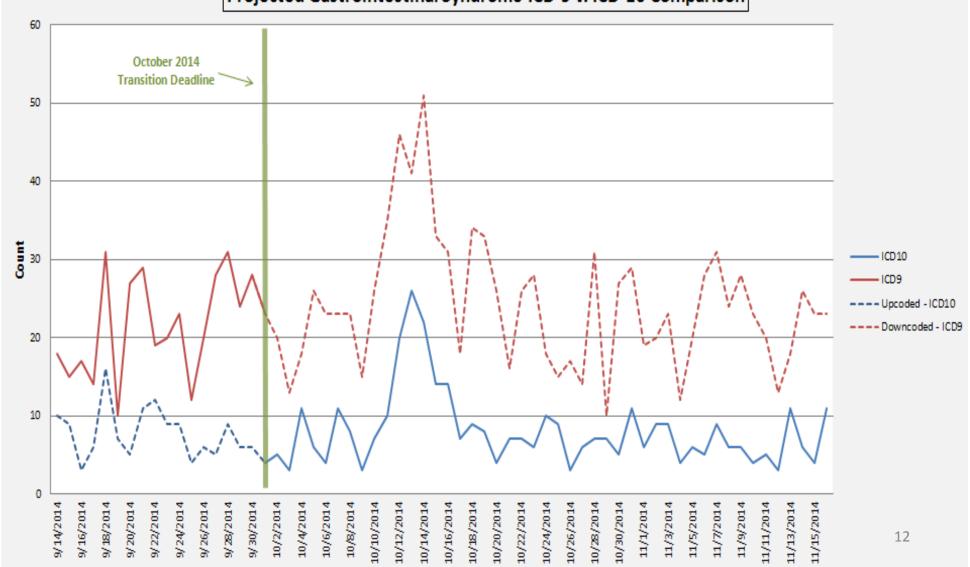


Master Reference Table

Syndrome Concept – Jan 2014 (I9)	ICD-9	Code Title	ICD-10		Syndrome Concept – MAY 2014 (I10)
Rash		,	A25.0	Spirillosis	TBD
Rash	026.1	Streptobacillary fever	A25.1	Streptobacillosis	TBD
Rash	026.9	Unspecified rat-bite fever	A25.9	Rat-bite fever, unspecified	TBD
Rash	050.0	Variola major	В03	Smallpox	TBD
Rash	050.1	Alastrim	В03	Smallpox	TBD
Rash	050.2	Modified smallpox	B03	Smallpox	TBD
Rash	050.9	Smallpox, unspecified	В03	Smallpox	TBD
Rash	051.01	Cowpox	B08.010	Cowpox	TBD

Potential Impact on Time Series Analysis





4	Α	В	С	D	E	F	G	Н	I	J
	Origin	Concept (ICD-9	Bio-terrorism	BioSense 1.0	BioSense 2.0 -	ICD-9 Code	ICD-9 Code Title 2014	ICD-10	ICD-10 Code	ICD-10 Code Title 2014
		Syndrome)	Associated	2003	2013	2014		Translation	2014	
1			Agents 2003					Directionality /		
2	CDC	Asthma	493.00	493.xx	493.xx	493.00	Extrinsic asthma, unspecified	Forward Map	J45.20	Mild intermittent asthma, uncomplicated
3	CDC	Asthma	493.00	493.xx	493.xx	493.00	Extrinsic asthma, unspecified	Forward Map	J45.30	Mild persistent asthma, uncomplicated
4	CDC	Asthma	493.00	493.xx	493.xx	493.00	Extrinsic asthma, unspecified	Forward Map	J45.40	Moderate persistent asthma, uncomplicated
5	CDC	Asthma	493.00	493.xx	493.xx	493.00	Extrinsic asthma, unspecified	Forward Map	J45.50	Severe persistent asthma, uncomplicated
6	CDC	Asthma	493.01	493.xx	493.xx	493.01	Extrinsic asthma with status asthmaticus	Forward Map	J45.22	Mild intermittent asthma with status asthmaticus
7	CDC	Asthma	493.01	493.xx	493.xx	493.01	Extrinsic asthma with status asthmaticus	Forward Map	J45.32	Mild persistent asthma with status asthmaticus
8	CDC	Asthma	493.01	493.xx	493.xx	493.01	Extrinsic asthma with status asthmaticus	Forward Map	J45.42	Moderate persistent asthma with status asthmaticus
9	CDC	Asthma	493.01	493.xx	493.xx	493.01	Extrinsic asthma with status asthmaticus	Forward Map	J45.52	Severe persistent asthma with status asthmaticus
10	CDC	Asthma	493.02	493.xx	493.xx	493.02	Extrinsic asthma with (acute) exacerbation	Forward Map	J45.21	Mild intermittent asthma with (acute) exacerbation
11	CDC	Asthma	493.02	493.xx	493.xx	493.02	Extrinsic asthma with (acute) exacerbation	Forward Map	J45.31	Mild persistent asthma with (acute) exacerbation
12	CDC	Asthma	493.02	493.xx	493.xx	493.02	Extrinsic asthma with (acute) exacerbation	Forward Map	J45.41	Moderate persistent asthma with (acute) exacerbation
13	CDC	Asthma	493.02	493.xx	493.xx	493.02	Extrinsic asthma with (acute) exacerbation	Forward Map	J45.51	Severe persistent asthma with (acute) exacerbation
14	CDC	Asthma	493.1	493.xx	493.xx	493.10	Intrinsic asthma, unspecified	Forward Map	J45.20	Mild intermittent asthma, uncomplicated
15	CDC			493.xx	493.xx	493.10	Intrinsic asthma, unspecified	Forward Map	J45.30	Mild persistent asthma, uncomplicated
16	CDC	Asthma	493.1	493.xx	493.xx	493.10	Intrinsic asthma, unspecified	Forward Map	J45.40	Moderate persistent asthma, uncomplicated
17	CDC	Asthma	493.1	493.xx	493.xx	493.10	Intrinsic asthma, unspecified	Forward Map	J45.50	Severe persistent asthma, uncomplicated
18	CDC	Asthma	493.11	493.xx	493.xx	493.11	Intrinsic asthma with status asthmaticus	Forward Map	J45.22	Mild intermittent asthma with status asthmaticus
19	CDC	Asthma	493.11	493.xx	493.xx	493.11	Intrinsic asthma with status asthmaticus	Forward Map	J45.32	Mild persistent asthma with status asthmaticus
20	CDC	Asthma	493.11	493.xx	493.xx	493.11	Intrinsic asthma with status asthmaticus	Forward Map	J45.42	Moderate persistent asthma with status asthmaticus
21	CDC	Asthma	493.11	493.xx	493.xx	493.11	Intrinsic asthma with status asthmaticus	Forward Map	J45.52	Severe persistent asthma with status asthmaticus
22	CDC	Asthma	493.12	493.xx	493.xx	493.12	Intrinsic asthma with (acute) exacerbation	Forward Map	J45.21	Mild intermittent asthma with (acute) exacerbation
23	CDC	Asthma	493.12	493.xx	493.xx	493.12	Intrinsic asthma with (acute) exacerbation	Forward Map	J45.31	Mild persistent asthma with (acute) exacerbation
24	CDC	Asthma	493.12	493.xx	493.xx	493.12	Intrinsic asthma with (acute) exacerbation	Forward Map	J45.41	Moderate persistent asthma with (acute) exacerbation
25	CDC	Asthma	493.12	493.xx	493.xx	493.12	Intrinsic asthma with (acute) exacerbation	Forward Map	J45.51	Severe persistent asthma with (acute) exacerbation
26	CDC	Asthma	493.9	493.xx	493.xx	493.90	Asthma,unspecified type, unspecified	Forward Map	J45.909	Unspecified asthma, uncomplicated
27	CDC	Asthma	493.9	493.xx	493.xx	493.90	Asthma,unspecified type, unspecified	Forward Map	J45.998	Other asthma
28		Asthma	493.91	493.xx	493.xx	493.91	Asthma, unspecified type, with status asthmaticus	Forward Map	J45.902	Unspecified asthma with status asthmaticus
29		Asthma	493.92	493.xx	493.xx	493.92	Asthma, unspecified type, with (acute) exacerbatio	Forward Map	J45.901	Cough variant asthma
30		Asthma		493.xx	493.xx	493.81	Exercise induced bronchospasm	Forward Map	J45.990	Exercise induced bronchospasm
31	CDC	Asthma		493.xx	493.xx	493.82	Cough variant asthma	Forward Map	J45.991	Cough variant asthma
20	00.0			400	400	400.04				Chronic obstructive pulmonary disease with acute lower response
32		Asthma		493.xx	493.xx	493.21	Chronic obstructive asthma with status asthmaticus		J44.0	infection
	CDC	Asthma		493.xx	493.xx	493.22 493.20	Chronic obstructive asthma with (acute) exacerbation		J44.1 J44.9	Chronic obstructive pulmonary disease with (acute) exacerba
	CDC	Asthma Asthma	-	493.xx	493.xx	493.20 491.20	Chronic obstructive asthma, unspecified Obstructive chronic bronchitis without exacerbation	Forward Map	J44.9 J44.9	Chronic obstructive pulmonary disease, unspecified Chronic obstructive pulmonary disease, unspecified
36	CDC	Asthma				491.20	Obstructive chronic bronchitis with (acute) exacerbation		J44.9 J44.1	Chronic obstructive pulmonary disease, unspectfied Chronic obstructive pulmonary disease with (acute) exacerba
30	CDC	Astillia				731.21	Obstructive chilomic bronchings with (acute) exacerbe	backwara Map	344.1	Chronic obstructive pulmonary disease with (acute) exacerba
37	CDC	Asthma	_			491.22	Obstructive chronic bronchitis with acute bronchitis	Backward Map	J44.0	infection
38		Asthma				496	Chronic airway obstruction, not elsewhere classifie		J44.9	Chronic obstructive pulmonary disease, unspecified
39							,			, , , , , , , , , , , , , , , , , , , ,
40										
41										
42										
43										13
44										13
1.4	4 k ki	Cyndromo List	Acuto Lar	vnaonharvnait	is / Acute I	Iri NOS 🔼 🔥	sthma Bronchitis Acute COPD ILI Para	ainfluenza / Pleu	risy / Pneur	monia and Lung Abces∏ ◀ IIII

	J	K	L	M	N	0	Р	Q	R	S	T
ICD-10 Code	ICD-10 Code Title 2014	ICD-9	ICD-9 Sub-	ICD-10	ICD-10	CDC	P1	P2	Р3	Remarks from Panel	ISDS -
2014		Syndrome	Syndrome	Macro	Micro				(NH)		Consens
		2014	2014	Syndrom	Syndrome						
J45.20	Mild intermittent asthma, uncomplicated	Asthma	Asthma			Α			Α		
J45.30	Mild persistent asthma, uncomplicated	Asthma	Asthma			Α			Α		
J45.40	Moderate persistent asthma, uncomplicated	Asthma	Asthma			Α			Α		
J45.50	Severe persistent asthma, uncomplicated	Asthma	Asthma			Α			Α		
J45.22	Mild intermittent asthma with status asthmaticus	Asthma	Asthma			Α			Α		
J45.32	Mild persistent asthma with status asthmaticus	Asthma	Asthma			Α			Α		
J45.42	Moderate persistent asthma with status asthmaticus	Asthma	Asthma			Α			Α		
J45.52	Severe persistent asthma with status asthmaticus	Asthma	Asthma			Α			Α		
J45.21	Mild intermittent asthma with (acute) exacerbation	Asthma	Asthma			Α			Α		
J45.31	Mild persistent asthma with (acute) exacerbation	Asthma	Asthma			Α			Α		
J45.41	Moderate persistent asthma with (acute) exacerbation	Asthma	Asthma			Α			Α		
J45.51	Severe persistent asthma with (acute) exacerbation	Asthma	Asthma			Α			Α		
J45.20	Mild intermittent asthma, uncomplicated	Asthma	Asthma			Α			Α		
J45.30	Mild persistent asthma, uncomplicated	Asthma	Asthma			Α			Α		
J45.40	Moderate persistent asthma, uncomplicated	Asthma	Asthma			Α			Α		
J45.50	Severe persistent asthma, uncomplicated	Asthma	Asthma			Α			Α		
J45.22	Mild intermittent asthma with status asthmaticus	Asthma	Asthma			Α			Α		
J45.32	Mild persistent asthma with status asthmaticus	Asthma	Asthma			Α			Α		
J45.42	Moderate persistent asthma with status asthmaticus	Asthma	Asthma			Α			Α		
J45.52	Severe persistent asthma with status asthmaticus	Asthma	Asthma			Α			Α		
J45.21	Mild intermittent asthma with (acute) exacerbation	Asthma	Asthma			Α			Α		
J45.31	Mild persistent asthma with (acute) exacerbation	Asthma	Asthma			Α			Α		
J45.41	Moderate persistent asthma with (acute) exacerbation	Asthma	Asthma			Α			Α		
J45.51	Severe persistent asthma with (acute) exacerbation	Asthma	Asthma			Α			Α		
J45.909	Unspecified asthma, uncomplicated	Asthma	Asthma			Α			Α		
J45.998	Other asthma	Asthma	Asthma			С			Α		
J45.902	Unspecified asthma with status asthmaticus	Asthma	Asthma			С			С		
J45.901	Cough variant asthma	Asthma	Asthma			С			С		
J45.990	Exercise induced bronchospasm	Asthma	Asthma			Α			Α		
J45.991	Cough variant asthma	Asthma	Asthma			Α			Α		
	Chronic obstructive pulmonary disease with acute lower respiratory										4
J44.0	infection					D			D		
J44.1	Chronic obstructive pulmonary disease with (acute) exacerbation					D			D		
J44.9	Chronic obstructive pulmonary disease, unspecified					D			D		
J44.9	Chronic obstructive pulmonary disease, unspecified					D			D		_
J44.1	Chronic obstructive pulmonary disease with (acute) exacerbation					D			D		
144.0	Chronic obstructive pulmonary disease with acute lower respiratory infection					D			D		
J44.0 J44.9	Chronic obstructive pulmonary disease, unspecified					D			D		
	amonic obstructive pullionary disease, dispectifica					J			U		
										14	
	Idrome List / Acute Laryngopharyngitis / Acute Uri NOS / Asthi										

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Development

- Mapping require the use of a basic foundation
 - □ General Equivalence Mappings (or GEMs)
 - □ Provide all plausible translation alternatives
 - Useful for applied mapping to meet your specific map
- □ Created a software tool, based on CMS GEMs
 - Mapped ICD-9-CM to ICD-10-CM (diagnosis and external causes)
 - □ Mapped ICD-9-CM to ICD-10-PCS (procedures)
 - □ Use Forward, Backward, Reverse Forward, Reverse Backward Logic
- Mapping Tool offered by AHRQ
 - □ Tool is available on AHRQ website
- □ Currently being updated with GEMs FY 2014
 - □ Code, Description, Mapping changes effective 10/1/2013

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DX Example: Proper Direction

9-to-10

Forward Map

ICD-9	Description	Мар	ICD-10	Description
451.81	Phlebitis and thrombophlebitis, iliac vein	F Map	180.219	Phlebitis and thrombophlebitis, unspecified iliac vein

10-to-9

Backward Map

ICD-10	Description	Map	ICD-9	Description
180.219	Phlebitis and thrombophlebitis, unspecified iliac vein	В Мар	451.81	Phlebitis and thrombophlebitis, iliac vein

Match in general description



DX Example: Reverse Direction

Reverse Map

10-to-<u>9</u>

ICD-10	Description	Мар	ICD-9	Description
180.211	Phlebitis and thrombophlebitis, right iliac vein	RB Map	451.81	Phlebitis and thrombophlebitis, iliac vein
180.212	Phlebitis and thrombophlebitis, <u>left</u> iliac vein	RB Map		
I80.213	Phlebitis and thrombophlebitis bilateral iliac veins	RB Map		

Reverse Backward mapping logic

Use the backward map and reverse the lookup

Provide more specific codes



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ICD-9 to ICD-10

ICD-10-CM

ICD-10-CM Codes

ICD-10-CM Tabular

ICD-10 to ICD-9

ICD-10-CM Thesaurus

HCPCS

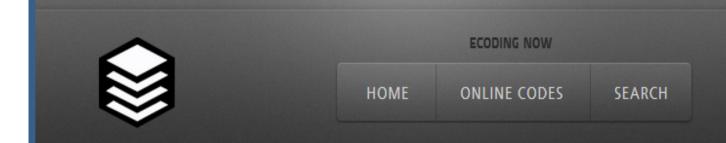
HCPCS Codes

Other

Search

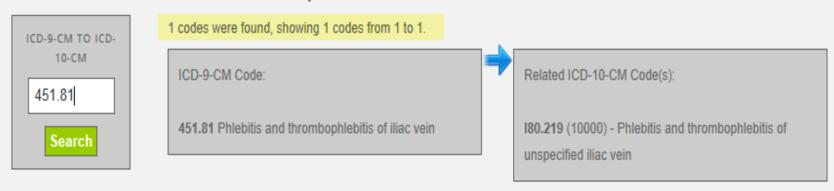
C Codes

NCI Thesaurus



FORWARD MAP

ICD-9-CM to ICD-10-CM Codes and Description - online



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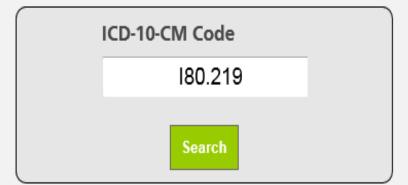
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BACKWARD MAP

ICD-10-CM to ICD-9-CM Crosswalk (GEM) - 2013



ICD-10-CM Code:

180.219 Phlebitis and thrombophlebitis of unspecified iliac vein

Crosswalked ICD-9-CM Code(s):



451.81 - Phlebitis and thrombophlebitis of iliac vein

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All 2012 Codes & Indexes



Search

2012 ICD-10-CM Codes

2012 ICD-10-CM Indexes

Convert to/from 2012 ICD-10-CM

2012 ICD-10-PCS Codes

About

Convert 2012 ICD-9 Codes to ICD-10, or Convert (ICD-10 Codes to ICD-9)

Proper Directions

Type a couple of digits or characters to find an ICD-9 or ICD-10 code to convert:

Convert

Tip: Use this shorthand URL to quickly convert a code:

www.icd10data.com/Convert/<Insert ICD-9/ICD-10 code here>

For example, convert ICD-9 code 001.0 to its ICD-10 equivalent using: www.icd10data.com/Convert/001.0. The website will automatically determine if the code you have entered is an ICD-9-CM or ICD-10-CM code and display the appropriate conversion data.

DEMO

TRIAL

CHAT

Gues Viewing: Jan 28, 201

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SAMPLE:

Map-A-Code uses the Medicare General Equivalence Mappings (GEMs) and Reimbursement Mappings (RMs) to map codes from ICD-9-CM (v1 and v3) to ICD-10-CM and ICD-10-PCS.

1. Select mapping type:

Forward Mappings (ICD-9 to ICD-10 GEMs)

- ICD-9-CM to ICD-10-CM
- ICD-9 v3 to ICD-10-PCS

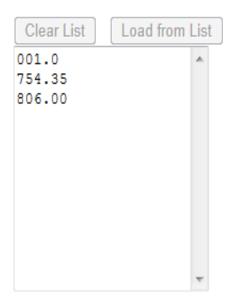
Backward Mappings (ICD-10 to ICD-9 GEMs)

- ICD-10-CM to ICD-9-CM
- ICD-10-PCS to ICD-9 v3

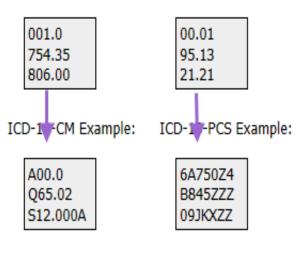
Reimbursement Mappings (ICD-10 to ICD-9 RMs)

- ICD-10-CM to ICD-9-CM
- ICD-10-PCS to ICD-9 v3

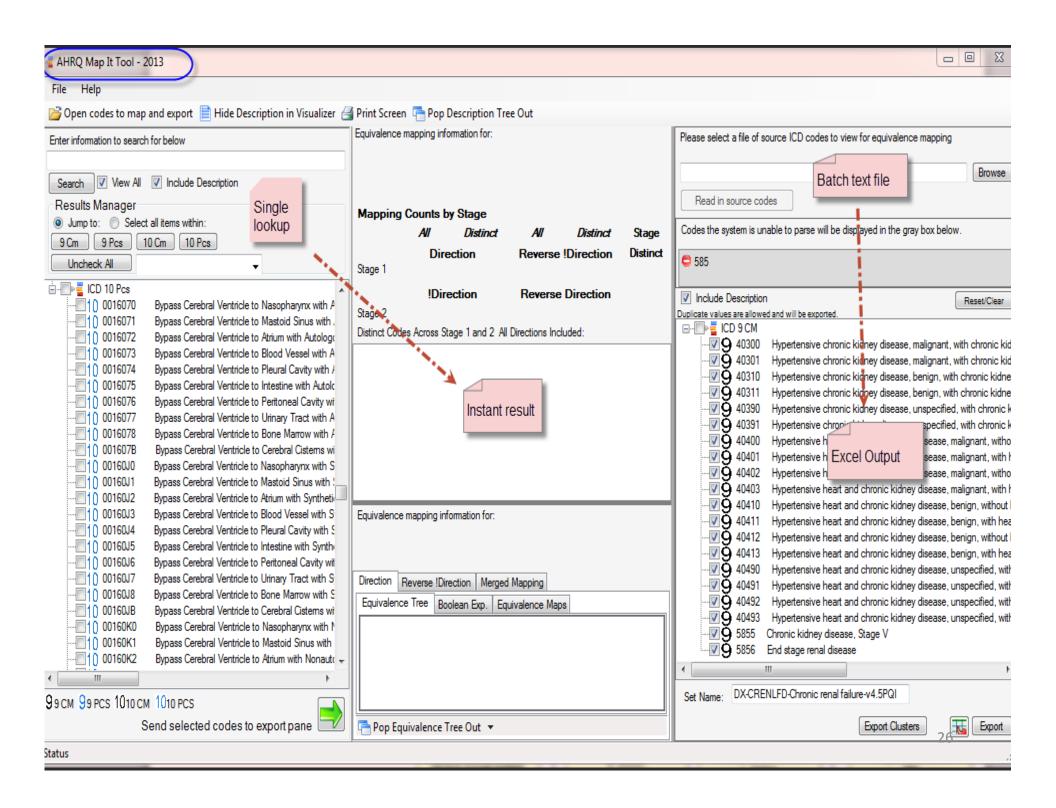
2. Enter ICD codes:



ICD-9-CM Example: ICD-9 v3 Example:



3. Map Codes



MapIT Output: Excel

YOUR N	AME			
Set	Set name for CDC program	Number of	Types of	Subject Matter Experts Work group
Name		Codes	Codes	
PE	Pulmonary embolism	42	Diagnosis	DVT-PE Work Group

Stage 1:	ICD-10 Codes Identified Through Forward and Rev	erse Backwa	rd Mapping from	n Original ICD-9 Codes					
ICD-9	Description	Map Type	ICD-10 Code	Description	Approx	No Map	Combo	Scenario	Choice
415.0	Acute cor pulmonale	RB Map	126.01	Septic pulmonary embolism with acute cor pulmonale	1	0	1	1	2
415.0	Acute cor pulmonale	RB Map	126.02	Saddle embolus of pulmonary artery with acute cor pulmonale	1	0	1	1	2
415.0	Acute cor pulmonale	F Map	126.09	Other pulmonary embolism with acute cor pulmonale	1	0	0	0	0
415.0	Acute cor pulmonale	RB Map	126.09	Other pulmonary embolism with acute cor pulmonale	1	0	1	1	2
415.11	latrogenic pulmonary embolism and infarction	F Map	126.90	Septic pulmonary embolism without acute cor pulmonale	1	0	1	1	2
415.11	latrogenic pulmonary embolism and infarction	F Map	126.99	Other pulmonary embolism without acute cor pulmonale	1	0	1	1	2
415.11	latrogenic pulmonary embolism and infarction	F Map	T80.0XXA	Air embolism following infusion, transfusion and therapeutic	1	0	1	1	1
415.11	latrogenic pulmonary embolism and infarction	F Map	T81.718A	Complication of other artery following a procedure, not elsewhere	1	0	1	1	1
415.11	latrogenic pulmonary embolism and infarction	F Map	T81.72XA	Complication of vein following a procedure, not elsewhere	1	0	1	1	1
415.11	latrogenic pulmonary embolism and infarction	F Map	T82.817A	Embolism of cardiac prosthetic devices, implants and grafts,	1	0	1	1	1
415.11	latrogenic pulmonary embolism and infarction	F Map	T82.818A	Embolism of vascular prosthetic devices, implants and grafts,	1	0	1	1	1
415.12	Septic pulmonary embolism	RB Map	126.01	Septic pulmonary embolism with acute cor pulmonale	1	0	1	1	1
415.12	Septic pulmonary embolism	F Map	126.90	Septic pulmonary embolism without acute cor pulmonale	1	0	0	0	0
415.13	Saddle embolus of pulmonary artery	RB Map	126.02	Saddle embolus of pulmonary artery with acute cor pulmonale	1	0	1	1	1
415.13	Saddle embolus of pulmonary artery	F Map	126.92	Saddle embolus of pulmonary artery without acute cor pulmonale	1	0	0	0	0
634.61	Spontaneous abortion, complicated by	F Map	003.2	Embolism following incomplete spontaneous abortion	0	0	0	270	0

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GEM Flag: Exact Match

ICD-9	Desc	ICD10	Desc	Approx	No Map	Comb	Scenario	Choice
453.1	Thrombo- phlebitis migrans	182.1	Thrombo- phlebitis migrans	0	0	0	0	0

- ☐ The <u>Approximate</u> Flag: code 0 means exact match.
- Business rule:
 - □ Do you take them as face-value?
 - □ Do you want to evaluate these exact-matches as well?





GEM Flag: Approximate Match

ICD-9	Desc	ICD10	Desc	Approx	No Map	Comb	Scenario	Choice
518.53	Acute and chronic resp failure following surgery	J96.20	Acute and chronic resp failure with hypoxia	1	0	0	0	0

- ☐ The <u>Approximate</u> Flag: code 1 means approximate match in descriptions.
- Business rule:
 - □ How will these descriptions affect your project or study?





GEM Flag: No Map

ICD-9	Desc	ICD10	Desc	Approx	No Map	Comb	Scenario	Choice
707.25	Pressure ulcer, unstageable	NoDx	No Dx	1	1	0	0	0

- ☐ The No Map Flag: code 1 means there are no codes to match the description (often found in the proper direction).
- **☐** Business rule:
 - □ Are there any other codes to consider?
 - □ Consider reverse map to find additional codes?





GEM Flag: Example of "No Map"

ICD9	Description	Мар	ICD10	Description
707.25	Pressure Ulcer, unstageable	F Map	No DX	No DX
		RB Map	L89.000	Pressure ulcer, unstageable, unspec. elbow
		RB Map	L89.010	Pressure ulcer, unstageable, right elbow
		RB Map	L89.020	Pressure ulcer, unstageable, left elbow
		RB Map	L89.100	Pressure ulcer, unstageable, unspec. back
		RB Map	L89.110	Pressure ulcer, unstageable, rt.upper back
		RB Map	L89.120	Pressure ulcer, unstageable, lt.upper back
		RB Map	L89.130	Pressure ulcer, unstageable, rt.lower back
		RB Map	L89.140	Pressure ulcer, unstageable, lt.lower back
		RB Map	L89.1xx	Many, many more!



GEM Flag: Combination

Source: 415.11 latrogenic pulmonary embolism and infarction

ICD10 Target	Desc	Appr ox	No Map	Comb	Scenario	Choice
T80.0xxA	Air embolism following infusion, transfusion, therapeutic injection, initial encounter	1	0	1	1	1
126.90	Septic pulmonary embolism without acute cor pulmonale	1	0	1	1	2
126.99	Other pulmonary embolism without acute cor pulmonale	1	0	1	1	2

- ☐ The <u>Combination</u> Flag: code 1 means it takes more than one target code to satisfy all the meaning of the source code.
- Business rule:
 - Do you want to capture all choices or are you limited to one choice?



GEM Flag: Example of Combination Clusters

Scenario	Choice	ICD-10	Description
1	1	T80.0xxA	Air embolism following infusion, transfusion, therapeutic injection, initial encounter
1	2	126.90	Septic pulmonary embolism without acute cor pulmonale
Scenario	Choice	ICD-10	Description
Scenario 1	Choice 1	T80.0xxA	Description Air embolism following infusion, transfusion, therapeutic injection, initial encounter
Scenario 1 1			Air embolism following infusion, transfusion, therapeutic

Source: 415.11 latrogenic pulmonary embolism and infarction



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Diagnosis Mapping Example

Dx: Severe Sepsis with septic shock

3 codes	ICD-9-CM
038.9	Unspecified septicemia
995.92	Severe sepsis
785.52	Septic shock

2 codes	ICD-10-CM
A41.9	Septicemia, unspecified
R65.21	Severe sepsis with septic shock

ICD-10-CM has more combination codes.

Condition + Site/Symptom + Attribute about the diagnosis.



Procedure Mapping Example

Px: Partial Gastrectomy with anastomosis to jejunum

1 code	ICD-9-CM
43.7	Partial gastrectomy with anastomosis to jejunum

2 codes	ICD-10-PCS
ODB60ZZ	Excision of stomach, open approach
0D160ZA	Bypass stomach to jejunum, open approach

ICD-10-PCS will not have combination codes.

Every objective and approach must have a separate code for each site.



Mapping Result: Will require team discussion

Did not result in ICD-10-CM codes with coma.

ICD-9-CM	Description	ICD-10-CM	Description
070.42	Hepatitis delta with hepatic coma	B17.0	Acute delta(super) infection of hepatitis B carrier
070.43	Hepatitis E with hepatic coma	B17.2	Acute Hepatitis E
070.44	Chronic hepatitis C with hepatic coma	B17.8	Chronic viral hepatitis C

Look up in ICD-10-CM codebook for codes with coma.

ICD-10-CM	Look up in the ICD-10-CM for hepatic coma
K72.01	Acute & subacute hepatic failure with coma
K72.11	Chronic hepatic failure with coma



Quick Review: Mapping Logic

KEY	Name of Map	GEM Files	Method
F	Forward Map	9 -to-10	Normal Lookup : We look up an ICD-9-CM code and get the closest ICD-10-CM/PCS equivalents.
RB	Reverse Backward Map	10-to- 9	Reverse Lookup: We look up an ICD-9-CM code and get additional ICD-10-CM/PCS equivalents that map backward to the same ICD-9-CM code.
KEY	Name of Map	GEM Files	Method
B	Name of Map Backward Map		Normal Lookup: We look up an ICD-10-CM/PCS code and get the closest ICD-9-CM equivalents.



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MapIT Demonstration

- □ Will show the single lookup
- □ Will show the batch mode for large set of ICD codes
- □ Will show 9 to 10
- □ Will show 10 to 9
- □ Will show the output
- □ If you have a favorite ICD-9-CM code for us to map, let us know!

How to Download MapIT

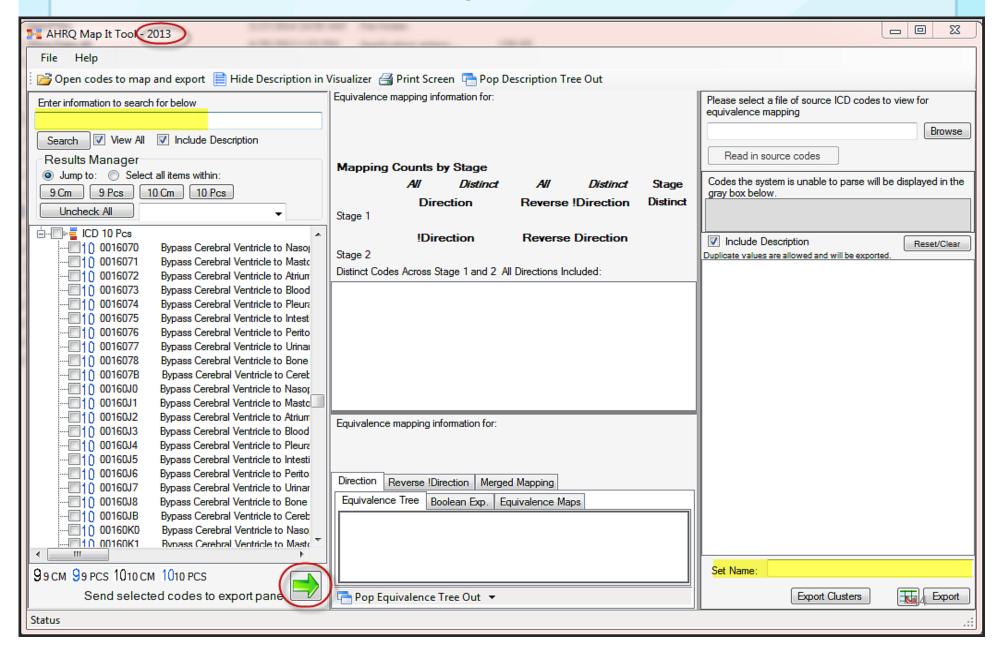
- □ http://qualityindicators.ahrq.gov/Resources/Toolkits.aspx
- □ Under Toolkits, go to "MapIT Tool"
- □ Under Toolkits, go to "MapIT Tool documentation: Conversion of ICD9 to ICD10" (3 page of step-by-step)
- MapIT Tool Zip File: Drag and Drop into a folder or desktop
 - MapIT_FY_Comp_2_1_120
- □ Click on the above folder and two more folders will appear
 - MapIT_FY12_2_1_120
 - MapIT_FY13_2_1_120



How to Run the Application

► MapIT_FY_Comp_2_1_120 ► MapIT_FY13_2_1_120 ►						
w Tools Help						
词 Open 🛮 Inclu	de in library ▼ Share with ▼ Burn 1	New folder				
	Name	Date modified	Туре	Size		
	ll Files	5/27/2014 10:50 AM	File folder			
	■ GemFiles	5/27/2014 10:50 AM	File folder			
/	Ahrq.Data.dll	4/30/2013 1:53 PM	Application extens	158 KB		
	Ahrq.Data.GemLoader	5/12/2013 10:22 PM	Application	105 KB		
	Ahrq.Data.GemLoader.pdb	5/12/2013 10:22 PM	PDB File	218 KB		
Double click	Ahrq.Data.pdb	4/30/2013 1:53 PM	PDB File	296 KB		
to open	Ahrq.Mapped.Ui	5/21/2013 10:40 PM	Application	350 KB		
	Ahrq.Mapped.Ui.exe.config	3/11/2013 11:14 AM	CONFIG File	2 KB		
or	Ahrq.Mapped.Ui.pdb	5/21/2013 10:40 PM	PDB File	498 KB		
Right click and	Ahrq.Reporting.dll	5/21/2013 10:40 PM	Application extens	371 KB		
select "Run as	Ahrq.Reporting.pdb	5/21/2013 10:40 PM	PDB File	170 KB		
administrator"	AHRQ_QI_Example_Export	3/1/2013 3:09 AM	Microsoft Excel W	9 KB		
	AntIr3.Runtime.dll	3/1/2013 3:09 AM	Application extens	101 KB		
	BooleanParser.dll	4/30/2013 1:53 PM	Application extens	13 KB		
	Boolean Parser.pdb	4/30/2013 1:53 PM	PDB File	32 KB		
	MapperData	3/12/2013 11:06 AM	XML Document	117,073 KB		
	Microsoft.ReportViewer.Common.dll	3/1/2013 3:09 AM	Application extens	6,239 KB		
k.	Microsoft.ReportViewer.DataVisualization	3/1/2013 3:10 AM	Application extens	3,785 KB		
	Microsoft.ReportViewer.ProcessingObjec	3/1/2013 3:09 AM	Application extens	90 KB ₄₃		
	Microsoft.ReportViewer.WinForms.dll	3/1/2013 3:10 AM	Application extens	534 KB		

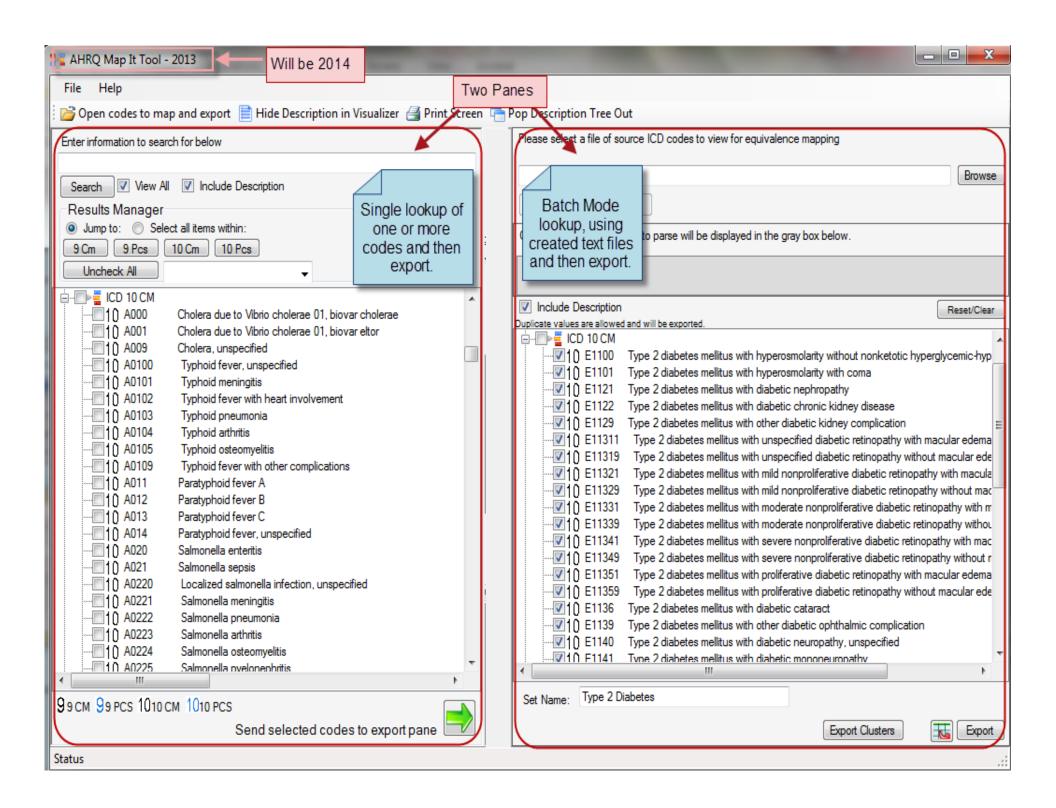
AHRQ Map It Tool - 2013



MapIT New Changes: FY 2014 (effective 10/1/2013)

Actions	Diagnosis or Procedure	How many?
New codes	Diagnosis	0
New codes	Procedure	7
Deleted codes	Diagnosis	9
Deleted codes	Procedure	3
Description changes	Diagnosis	28
Description changes	Procedure	8
Mapping changes-GEM	Diagnosis	15
Mapping changes -GEM	Procedure	13





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Summary

- Mapping logic knowledge will help you troubleshoot mapping problems.
- □ Tool is available and FREE.
- □ Easy to map legacy to new codes.
- □ Easy to map new codes to legacy.
- Eliminate the time to map manually or lookup in the codebook.
 - □ Refer to the codebook for coding notes and coding guidelines.
- Allow your team to focus on discussions on which code(s) needed for the project.
- □ Allow your program to move forward to other activities:
 - **□** Upgrading system format.
 - □ Testing ICD-10 codes in the test environment.
 - Create report and compare to the legacy reports.



Questions?



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The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

