

3M Health Information Systems

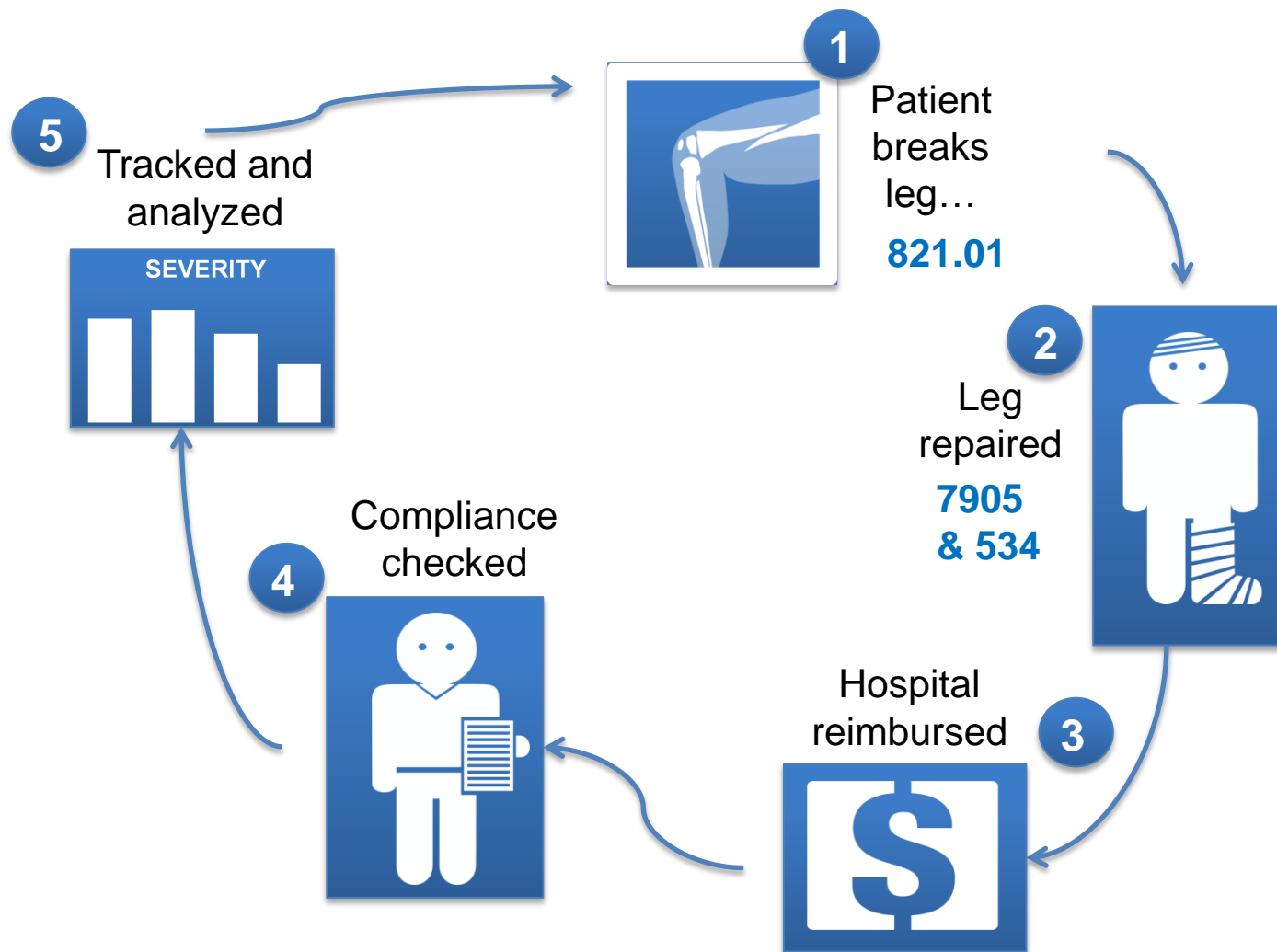
Dr. Javier de Pablo

Innovating the Language of Health



What **3M** does?

translate healthcare in codes as accurately as possible



- 1** We help hospitals attach accurate codes to records (Codefinder)
- 2** We help hospitals accurately categorize codes into Diagnosis Related Groups (DRGs)
- 3** The assigned ICD Codes and DRGs become the basis for revenue for all providers
- 4** We help assure that their coding and grouping is compliant through our software and consulting
- 5** **We provide analytics software around coding and grouping accuracy**

Where **3M** is?

Innovating the Language of Health

1986	1991	1992	1994	1995	1998	1999	2000	2002	2003	2004	2008	2009	2010	2011	2012	2013
 AP-DRG in Quebec*	 CMG in Canada	 AN-DRG in Australia*	 AN-DRG in New Zealand*	 HRG in UK	 APR DRG in Quebec*	 AN-DRG in Singapore*	 AR-DRG in New Zealand	 APR DRG in Belgium*	 G-DRG in Germany	 IR-DRG in Czech Rep.*	 CRG in Canada (Alberta)	 CRG in Canada (Saskatchewan)	 IR-DRG in UAE*	 AR-DRG in Saudi Arabia	 AR-DRG in Singapore	
				 AP-DRG in Belgium	 AR-DRG in Australia				 AP-DRG Spain*			 IR-DRG in Hong Kong*	 CRG in Spain (Regional)	 IR-DRG for Chile	 SwissDRG in Switzerland	
				 CMS DRG in Italy	 AP-DRG in Switzerland*							 AP-DRG in Portugal	 AR-DRG in Lithuania			
				 CMS DRG in Portugal												
				 CMS DRG in Spain												 AR-DRG in Qatar

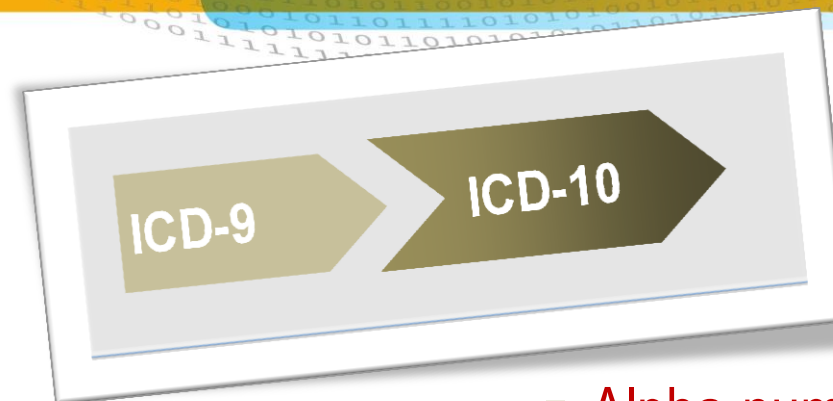
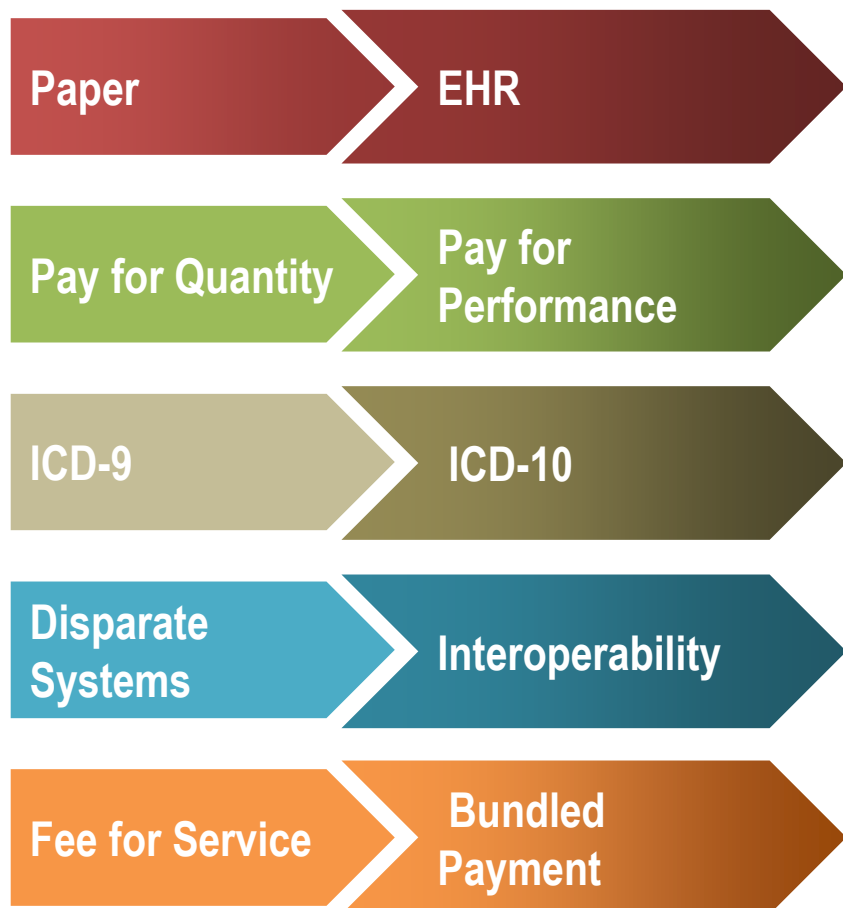
3M Leading Classification and Payment Methodologies

International Adoption Timeline

3M CRG	3M PPR	3M PPC	3M EAPG	3M APR DRG	3M IR-DRG
Clinical Risk Groups	Potentially Preventable Readmissions	Potentially Preventable Complications	Enhanced Ambulatory Patient Groups	All Patient Refined Diagnosis Related Groups	International Refined Diagnosis Related Groups
Managing Population Health	Identifying Preventable Readmissions	Identifying Preventable Complications	Classifying Outpatient Visits	Adjusting for Severity and Risk of Mortality	Accommodating Inpatient & Amb. (ICD-9 & ICD-10)

*Indicates 3M Intellectual Property
Timeline limited to countries using 3M HIS products.

Where **3M** is focused?

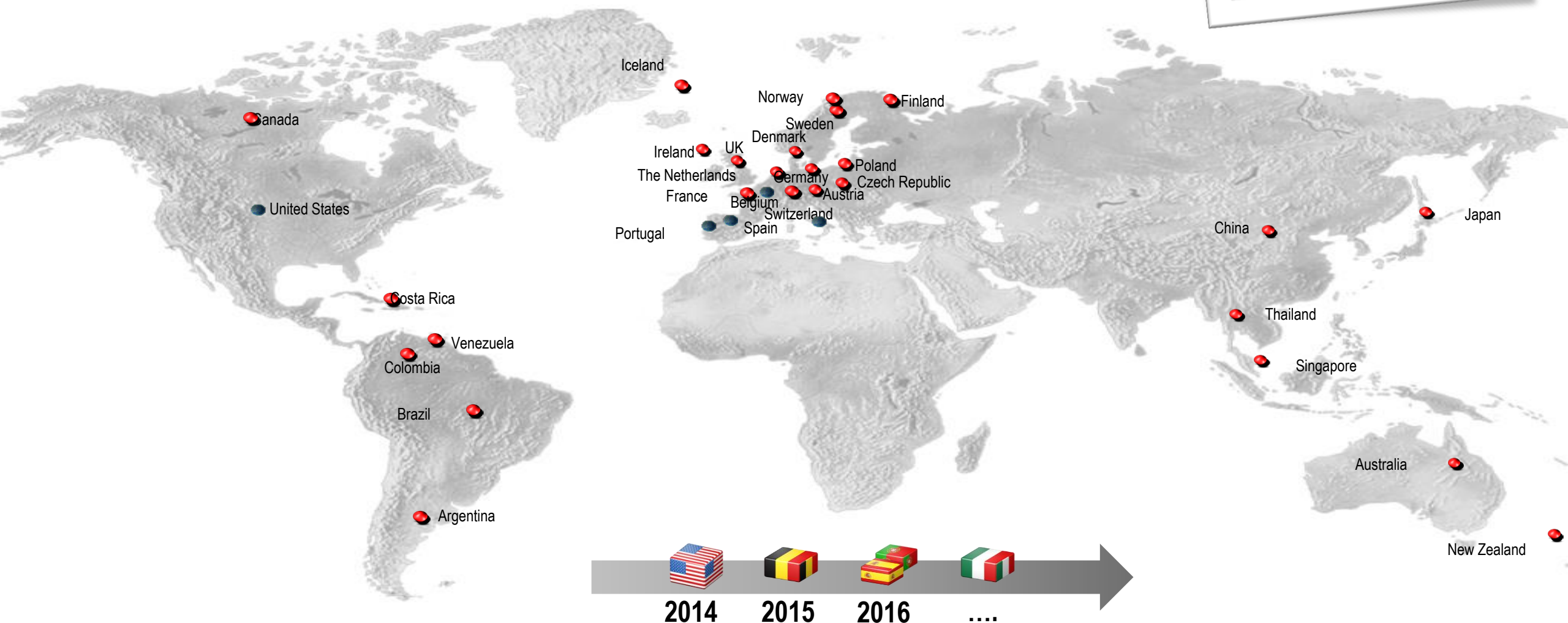
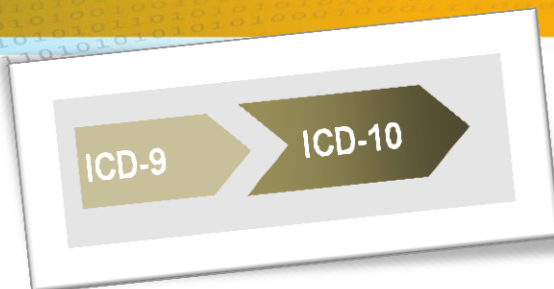


- Numeric
 - Dx= 3 - 5 digits
 - ~14.000 Dx codes
 - Px= 2 – 4 digits
 - ~4.000 Px codes
- **Alpha-numeric**
 - Dx= 3 - 7 digits
 - ~**78.000** Dx codes
 - Px= 7 digits
 - ~**72.000** Px codes (~ 3000 concepts)

There is
new specificity, new terminology & new concepts.

Physicians need to know about some of it

Where **is ICD 10** used and where is **going to be**?



How did 3M face the ICD 10 transitions?

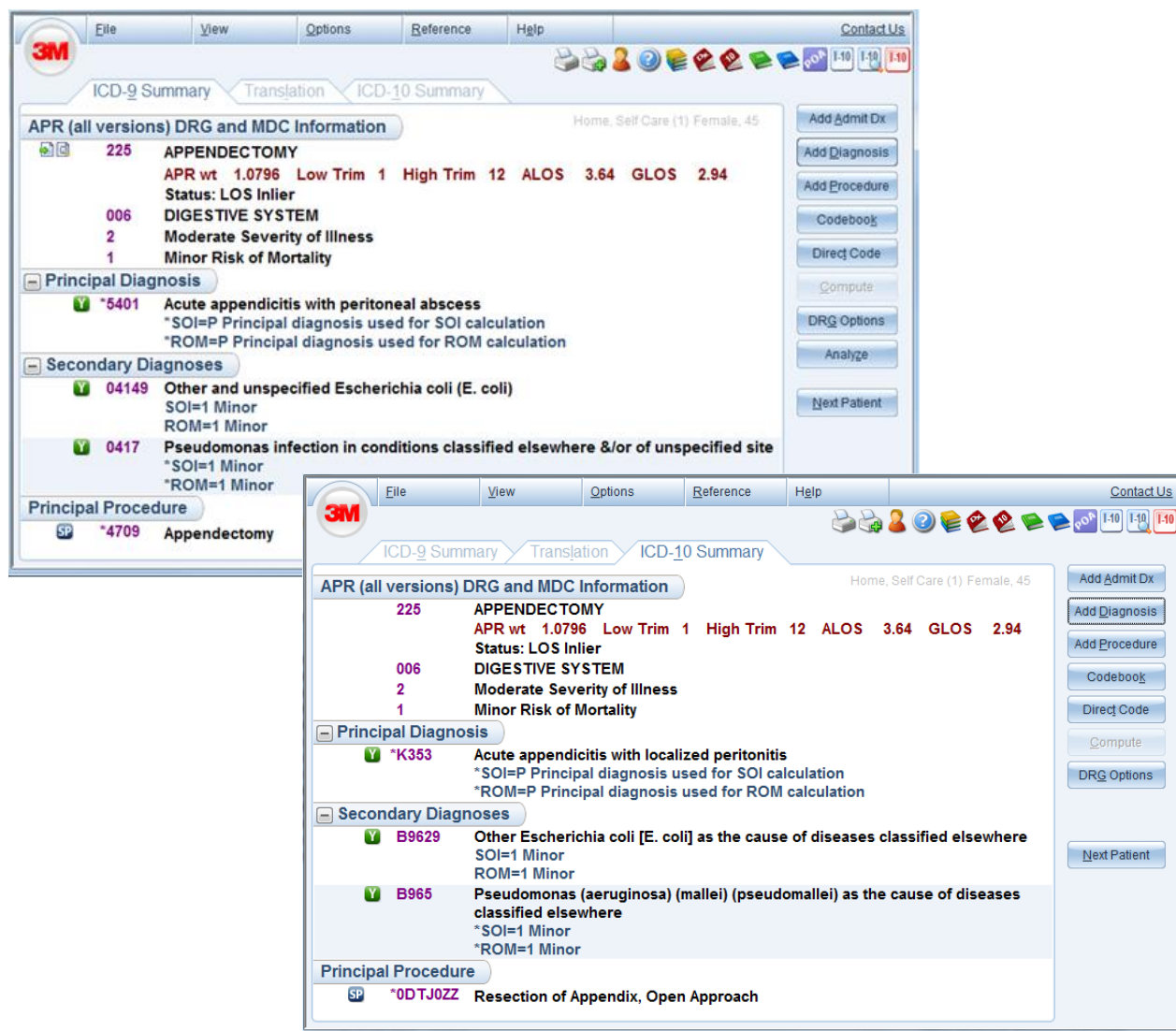


ICD-9 → ICD-10

- 3M Clinical research team needed to develop a grouper compatible with ICD-10-CM/PCS before data coded in ICD-10 was available

Solution:

- Development of **GEMs** (General Equivalence Map)
- Development of a **grouper** based on similar behavior (replicated)



ICD-9 Summary

APR (all versions) DRG and MDC Information

225 APPENDECTOMY
APR wt 1.0796 Low Trim 1 High Trim 12 ALOS 3.64 GLOS 2.94
Status: LOS Inlier

006 DIGESTIVE SYSTEM
2 Moderate Severity of Illness
1 Minor Risk of Mortality

Principal Diagnosis

*5401 Acute appendicitis with peritoneal abscess
*SOI=P Principal diagnosis used for SOI calculation
*ROM=P Principal diagnosis used for ROM calculation

Secondary Diagnoses

04149 Other and unspecified Escherichia coli (E. coli)
SOI=1 Minor
ROM=1 Minor

0417 Pseudomonas infection in conditions classified elsewhere &/or of unspecified site
*SOI=1 Minor
*ROM=1 Minor

Principal Procedure

*4709 Appendectomy

ICD-10 Summary

APR (all versions) DRG and MDC Information

225 APPENDECTOMY
APR wt 1.0796 Low Trim 1 High Trim 12 ALOS 3.64 GLOS 2.94
Status: LOS Inlier

006 DIGESTIVE SYSTEM
2 Moderate Severity of Illness
1 Minor Risk of Mortality

Principal Diagnosis

*K35.3 Acute appendicitis with localized peritonitis
*SOI=P Principal diagnosis used for SOI calculation
*ROM=P Principal diagnosis used for ROM calculation

Secondary Diagnoses

B9629 Other Escherichia coli [E. coli] as the cause of diseases classified elsewhere
SOI=1 Minor
ROM=1 Minor

B965 Pseudomonas (aeruginosa) (mallei) (pseudomallei) as the cause of diseases classified elsewhere
*SOI=1 Minor
*ROM=1 Minor

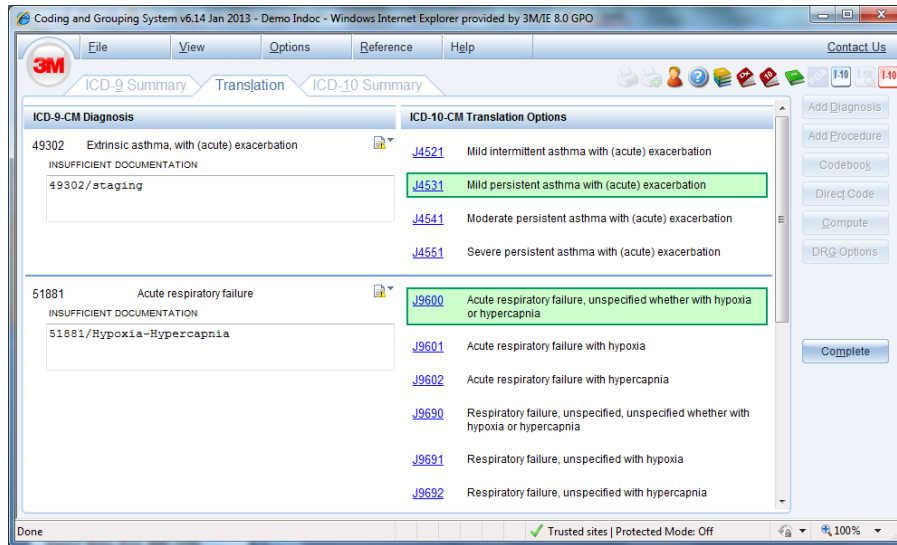
Principal Procedure

*86.01J Resection of Appendix, Open Approach

How did 3M face the ICD 10 transitions?



Diagnoses

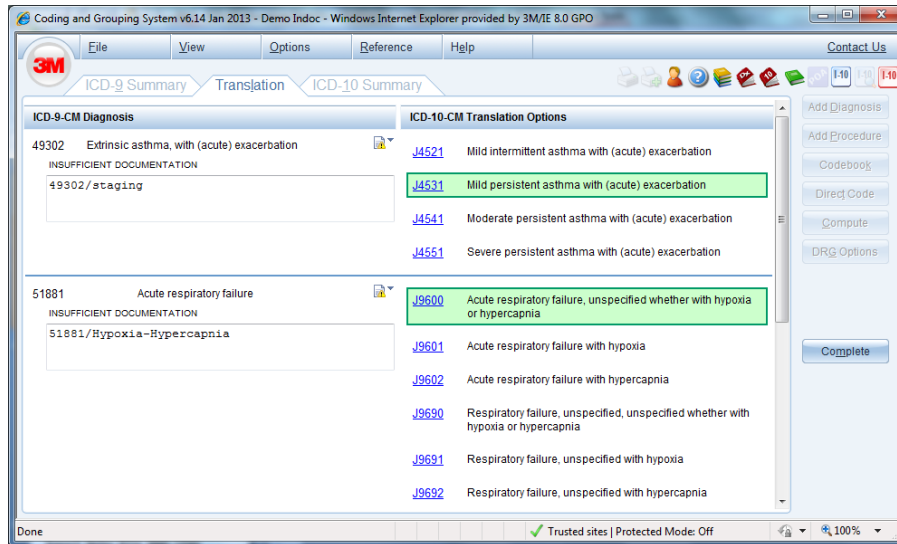


5	codes with over 1000 alternatives
49	codes with 101-1000 alternatives
672	codes with 11-100 alternatives
3627	codes with 3-10 alternatives
1507	codes with two alternatives
416	codes with no alternatives
8156	<i>one-to-one relations</i>

How did 3M face the ICD 10 transitions?

ICD-9 → ICD-10

Procedures



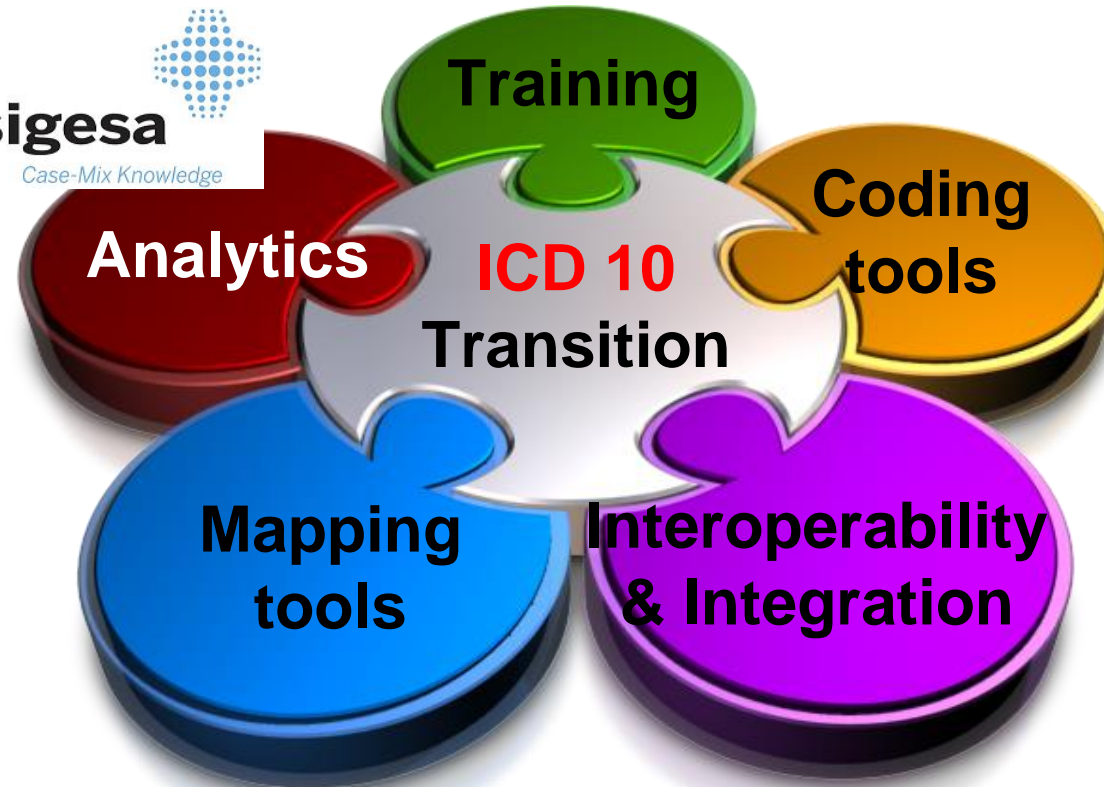
- **3** codes with over **1000** alternatives
- **212** codes with **101-1000** alternatives
- 1196 codes with 11-100 alternatives
- 1417 codes with 3-10 alternatives
- 452 codes with two alternatives
- **211** codes with **no alternatives**
- **368** *one-to-one relations*

How can 3M help to face ICD 10 transitions?



Leverage the financial impact data to **get attention of the medical staff and galvanize change** across organization

Devise strategies to focus on service lines of **most revenue risk**



Identify key areas that require clinical **documentation review**

Focus on **top paid** DRGs

Focus on **top utilized** DRGs

THANK YOU FOR YOUR ATTENTION



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Questions?

