Descripción del ICD10-PCS para clasificación de procedimientos. JORNADA TÉCNICA SOBRE CIE-10 15 y 16 de Septiembre 2009. Aula Pitaluga. Escuela Nacional de Sanidad

Sustain Clinical and Financial Performance

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Head Start to Implementation: Preparing Now for ICD-10

- Reasons for change
- Basic structure of ICD-10-CM and ICD-10-PCS
- Differences between ICD-9 and ICD-10
- Preparing for implementation and change

Reasons to Switch to ICD-10

ICD-9-CM ...

- has been used in the U.S. since 1979
- *cannot keep up with medical technology*
- does not allow new codes to be added as needed

ICD code set: 1001 uses

- Set healthcare policy
- Determine reimbursement
- Conduct research and clinical trials
- Measure quality of health care
- Evaluate health care providers
- Provide treatment options
- Track and manage health risk and disease process



Development of ICD-10-PCS PCS – Procedure Coding System

- Replacement for ICD-9-CM, procedures
- 1998 first version released by CMS
- Annual updates since that time
- Not in use at this time

The ICD-10-PCS is being developed with the support of the Centers forMedicare and Medicaid Services, under contract Nos. 90-1138, 91-22300 500-95-0005 and HHSM-500-2004-00011C to 3M Health Information Systems.



Development of the ICD-10 Procedure Coding System (ICD-10-PCS)

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The International Classification of Diseases 10th Revision Procedure Classification System (ICD-10-PCS) has been developed as a replacement for Volume 3 of the International Classification of Diseases 9th Revision (ICD-9-CM). The development of ICD-10-PCS was funded by the U.S. Centers for Medicare and Medicaid Services (CMS), ICD-10-PCS has a multiaxial seven character alphanumeric code structure that provides a unique code for all substantially different procedures. and allows new procedures to be easily incorporated as new codes. ICD-10-PCS was under development for over five years. The initial draft was formally tested and evaluated by an independent contractor; the final version was released in the Spring of 1998, with annual updates since the final release. The design, development and testing of ICD-10-PCS are discussed.

The ICD-10-PCS is being developed with the support of the Centers for Medicare and Medicaid Services, under contract Nos. 90-1138, 91-22300 500-05-0005 and H445M-500-2004-00011C to 3M Health Information Systems. Consultation in the development of ICD-10-PCS was provided by Donn G. Duncan, M.D. and Genard M. Doherty, M.D. The coding shall of the Division of Acute Care, Hospital and Ambulatory Policy Group, Center for Medicare Management of the Centers for Medicare and Medicald Services, DI-815, provided ongoing review and evaluation during the development of the ICD-10-PCS: Patricia E. Brooks, Ann Rowling Fagan, Amy L. Gruber. A wide range of physician specially socielies, individual clinicians, health care prohestionals and reasarchers provided valuable input into the research. The Tables, List of Codes, and index are computer generaled, based on an expert system designed by Yvette Wang, Laurence Gregg, Enex Ella, and David Gannon. Address correspondence and requests for reprints to Richard F. Averill, Director, Clinical Research Department, SM Health Information Systems, 100 Barres Road, Walingtord, CT 06492, Robert L. Mulin, M.D., Barbara A. Sininback, F&IIT, Norbert I. Goldfield, M.D., Theima M. Grant, F&IA. Rhonda R. Butler, COS, COS-P, are with SM Health Information Systems, 3M Health Care. The opinions expressed are solely those of the authors and do not necessarily reflect the views or policy positions of SM Health Information Systems or the Centers for Medicare and Medicaid Services.

Introduction

Volume 3 of the International Classification of Diseases 9th Revision Clinical Modification (ICD-9-CM) has been used in the U.S. for the reporting of inpatient procedures since 1979. The structure of Volume 3 of ICD-9-CM has not allowed new procedures associated with rapidly changing technology to be effectively incorporated as new codes. As a result, in 1992 the U.S. Centers for Medicare and Medicaid Services (CMS) funded a project to design a replacement for Volume 3 of ICD-9-CM. After a review of the preliminary design. CMS in 1995 awarded 3M Health Information Systems a three-year contract to complete development of the replacement system. The new system is the ICD-10 Procedure Coding System (ICD-10-PCS).

The development of ICD-10-PCS had as its goal the incorporation of four major attributes:

Completeness

There should be a unique code for all substantially different procedures. In Volume 3 of ICD-9-CM, procedures on different body parts, with different approaches, or of different types are sometimes assigned to the same code.

Expandability

As new procedures are developed, the structure of ICD-10-PCS should allow them to be easily incorporated as unique codes.



I-10 PCS: Essential Characteristics

Seven Character Alphanumeric Code

- Digits 0 9
- Letters A-H, J-N, P-Z

Source: 3M Health Information Systems

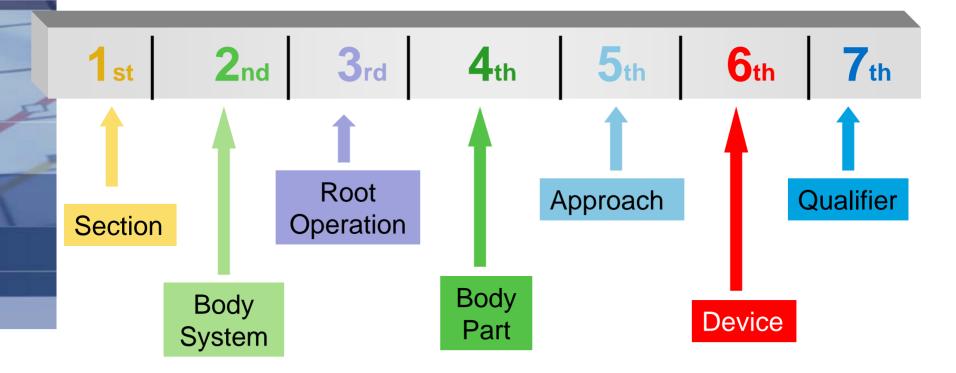


I-10 PCS: Essential Characteristics

- Completeness: unique code for every distinct procedure
- Expandability: easily adapts to changes in technology and clinical practice
- Standardized terminology: terms have a single precise meaning
- Multi axial: fixed order, each character functions independently



PCS Character Assignment: Medical and Surgical Procedures

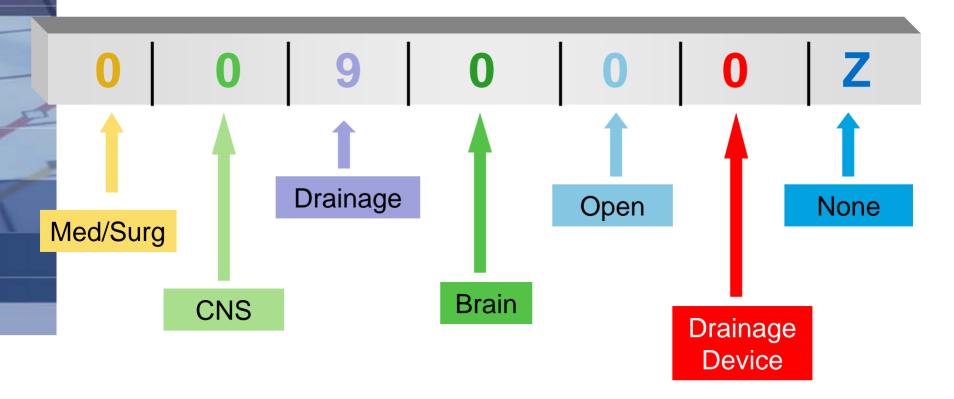


Source: 3M Health Information Systems



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PCS Codes: Each Code Tells a Story



Source: 3M Health Information Systems



Section (1st character)

1	1 _{st}	2nd	3 rd	4 _{th}	5th	6th	7 th
0		l and Surg	gical	9	•		tation and
1	Obstetr				0	tic Audiol	ogy
2	Placem	ent		B	Extracor	rporeal	
3	Adminis	stration			Assistan	nce and Pe	erformance
4	Measur	ement and	d Monitoring	g C	Extraco	rporeal T	herapies
-5	Imaging	5		D	Laborat	ory	
6	Nuclear	r Medicin	е	F	Mental I	Health	
7	Radiati	on Oncole	ogy	G	Chiropr	actic	
8	Osteopo	athic		H	Miscella	aneous	
				J	Substan	ce Abuse	Treatment

Body System (2nd character)

1_{st}

2nd 3rd

4_{th}

5_{th}

7th

6th

Identifies general area of procedure *Examples:*

- 1 Peripheral Nervous System
- 2 Heart and Great Vessels
- **B** Respiratory System
- C Mouth and Throat
- D Gastrointestinal System

Root Operation (3rd character)

1_{st}

2nd 3rd

 $\mathbf{4}_{th}$

5_{th}

7th

6th

Identifies essential surgical action performedExamples in Medical/Surgical:0 Alteration4 Creation1 Bypass5 Destruction2 Change6 Detachment

3 Control

7 Dilation

3M

Body Part (4th character)

 $\mathbf{1}_{st}$

2nd

3rd

4_{th} **5**_{th}

 $7_{\rm th}$ 6_{th}

Describes specific body part on which the procedure was performed

- Body parts include lesions, polyps, etc. found in/on the body part
- body system D, Gastrointestinal Example:
 - 0 Esophagus B lleum
 - 1 Esophagus, Upper J Appendix
 - 5 Upper Intestine W Peritoneum



Approach (5th character)

- 1st 2nd 3rd 4th 5th 6th 7th
- Indicates the method used to reach the body part
- 13 different approaches made up of three basic types, plus the external approach:
 - Open => Open intraluminal
 - Percutaneous=> Percutaneous intraluminal
 - Transorifice => Transorifice intraluminal



Device (6th character)

- 1 st2nd3rd4th5th6th7th• Describes a device placed during the procedure
- Applies only to devices that remain after the procedure is completed
 - Grafts and prostheses (skin graft, joint prosthesis)
 - Implants (IUD, brachytherapy seeds)
 - Simple/Mechanical Appliances (tracheostomy tube, VAD)
 - Electronic Appliances (pacemakers, infusion pumps)

Qualifier (7th character)

- 1_{st} 2_{nd} 3_{rd} 4_{th} 5_{th} 6_{th} 7_{th}
 Unique meaning for different root operations
 Examples:
 - Genetic compatibility of transplant
 - Biopsy (diagnostic excision)
 - Destination site for a bypass
 - Original procedure being revised

3M Health Information Systems Number of PCS codes by section= 86,617

	Medical and Surgical	77,242
	Obstetrics	331
	Placement	864
	Administration	1,401
	Measurement and Monitoring	290
	Extracorporeal Assistance and	
	Performance	26
	Extracorporeal Therapies	34
	Osteopathic	100
	Other Procedures	21
	Chiropractic	90
-	Imaging	2,466
	Nuclear Medicine	458
	Radiation Oncology	1,823
-	Rehabilitation and Diagnostic	
-	Audiology	1,382
	Mental Health	30
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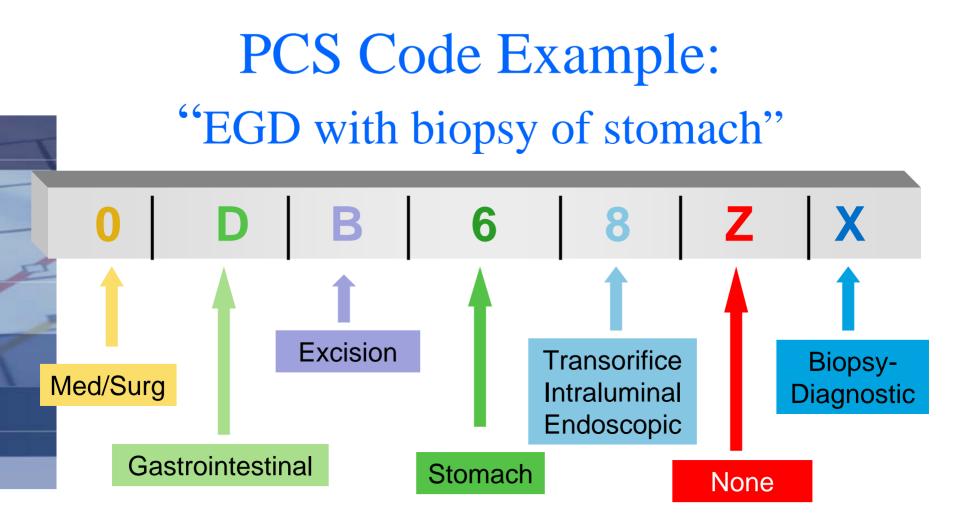


I-10-PCS Book Format

- Matrix and index
- Index provides first three or four characters
- Matrix must be used to build valid code
- No eponyms are included

 1 Esophagus, upper 2 Esophagus, middle 3 Esophagus, lower 4 Esophagogastric junction 6 Stomach 7 Stomach, pylorus 9 Duodenum A Jejunum B Ileum C Ileocecal valve H Cecum J Appendix K Ascending Colon L Transverse Colon M Descending Colon N Sigmoid Colon P Rectum 	 0 Open 1 Open Intraluminal 2 Open Intraluminal Endoscopic 3 Percutaneous 4 Percutaneous Endoscopic 5 Percutaneous Intraluminal 6 Percutaneous Intraluminal Endoscopic 7 Transorifice Intraluminal 8 Transorifice Intraluminal Endoscopic 	Z None	X Diagnostic Z None
Q Anus	 0 Open 1 Open Intraluminal 2 Open Intraluminal Endoscopic 3 Percutaneous 4 Percutaneous Endoscopic 5 Percutaneous Intraluminal 6 Percutaneous Intraluminal Endoscopic 7 Transorifice Intraluminal 8 Transorifice Intraluminal Endoscopic Z None 	Z None	X Diagnostic Z None
R Anal Sphincter S Greater Omentum T Lesser Omentum V Mesentery W Peritoneum	0 Open 3 Percutaneous 4 Percutaneous Endoscopic	Z None	X Diagnostic Z None



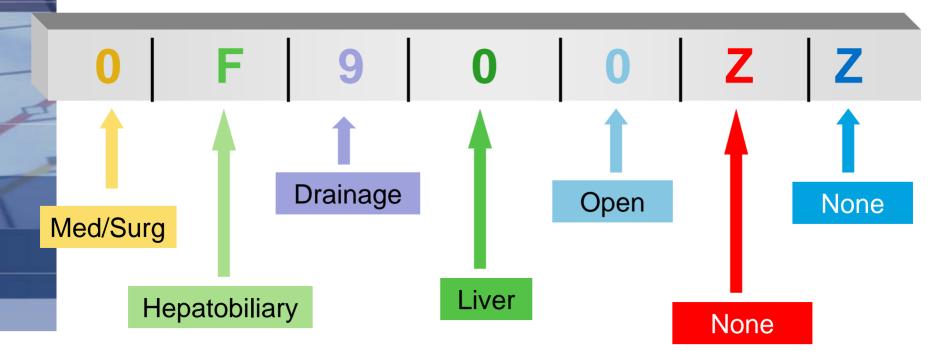






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PCS Code Example: "Drainage of liver, open"



Source: 3M Health Information Systems



I-9-CM to I-10-PCS: "Excisional debridement of skin"

ICD-9-CM	ICD-10-PCS	Description
86.22	0HBJZZZ	Excision, skin right upper leg
86.22	0HBLZZZ	Excision, skin right lower leg
86.22	0HB9ZZZ	Excision, skin buttock

Excision, skin left foot



Source: 3M Health Information Systems

OHBPZZ

24

86.2

ICD-9-CM Angioplasty 1 code (39.50) ICD-10-PCS Angioplasty codes 854 codes , specifying body part, approach, and device, including:

047K04Z – Dilation of right femoral artery with drugeluting intraluminal device, open approach 047K0DZ – Dilation of right femoral artery with intraluminal device, open approach 047K0ZZ – Dilation of right femoral artery, open approach 047K34Z – Dilation of right femoral artery with drugeluting intraluminal device, percutaneous approach 047K3DZ – Dilation of right femoral artery with intraluminal



ICD-9-CM : Mechanical complication of other vascular device, implant and graft

- 1 code (996.1)
- ICD-10-CM : Mechanical complication of other vascular grafts
- 156 codes, including:
 - » T82.310 Breakdown (mechanical) of aortic (bifurcation) graft (replacement)
 - » T82.311 Breakdown (mechanical) of carotid arterial graft (bypass)
 - » T82.312 Breakdown (mechanical) of femoral arterial graft (bypass)
 - » T82.318 Breakdown (mechanical) of other vascular grafts
 - » T82.319 Breakdown (mechanical) of unspecified vascular grafts
 - » T82.320 Displacement of aortic (bifurcation) graft (replacement)
 - » T82.321 Displacement of carotid arterial graft (bypass)
 - » T82.322 Displacement of femoral arterial graft (bypass)
 - » T82.328 Displacement of other vascular graft



HIM: Implementation Issues

- Evaluate education needs:
 - Expertise in medical terminology
 - Detailed knowledge of anatomy
 - Better comprehension of operative reports
 - Increased collaboration with medical staff
 - Comprehension, interpretation and application of ICD-10-PCS definitions

Source: 3M Health Information Systems

HIM: Implementation Issues

- Clinical Impact
 - Physician Documentation
 - Is the key to appropriate coding
 - Has been a problem since 1900s
 - Will need to meet expanded requirements

HIM: Implementation Issues

- Single most important step to take in determining weakness:
 - Gap analysis of current documentation and coding practices
- Audit for weaknesses in:
 - Coder knowledge of anatomy and surgical procedures
 - Physician documentation

Source: 3M Health Information Systems



ICD-10-PCS resources

• Access ICD-10-PCS on the CMS website:

http://www.cms.gov/paymentsystems/icd9/icd10.asp

3M http://www.3m.com/us/healthcare/his/ICD-10.jhtml





Questions/Comments?

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