# ICD-10 GEMs FY2016 Version Update

# **Update Summary**

The updated FY2016 General Equivalence Mappings (GEMs) are posted for public comment. All changes to date resulting from public comment and internal review have been incorporated into the FY2016 GEMs. The types of changes made include

- Cluster translations expanded for completeness
- Single entries expanded to better meet inclusion criteria
- Entries revised to better meet inclusion criteria

All changes meeting inclusion criteria were included in the updated files. Documentation for general and technical users of the GEMs is posted with the GEMs files.

In particular, the GEMs Documentation for Technical Users

- Specifies GEMs entry inclusion criteria and provides examples
- Discusses GEMs flags in detail and provides examples
- Answers other frequently asked technical questions
- Discusses translation rules for obstetrics and angioplasty

Examples of updated GEMs entries are provided in the following pages. Diagnosis GEMs entries are first, followed by procedure GEMs entries.

# **DIAGNOSIS GEMs**

# Public comment:

#### ICD-10-CM to ICD-9-CM GEM entry for "Persistent atrial fibrillation"

2015 entry	Updated 2016 entry	Comment
<b>I48.1</b> Persistent atrial fibrillation	<b>I48.1</b> Persistent atrial fibrillation	Typographical error. The ICD-10-
То	То	CM code specifies atrial
427.32 Atrial flutter	427.31 Atrial fibrillation	fibrillation.

Internal review:

#### ICD-10-CM to ICD-9-CM GEM entry for "thoracic disc disorder with radiculopathy"

2015 entry	Updated 2016 entry	Comment
Example M51.1[4-5] Intervertebral disc disorders with radiculopathy, thoracic region (2 codes) To 724.4 Thoracic or lumbosacral neuritis or radiculitis, unspecified	Example M51.1[4-5] Intervertebral disc disorders with radiculopathy, thoracic region (2 codes) To 722.92 Other and unspecified disc disorder, thoracic region	The updated entry is a closer match. The ICD-9-CM tabular instruction for 724.4 excludes radiculitis due to intervertebral disc disorder.

#### Internal review: ICD-10-CM to ICD-9-CM GEM entry for "lumbar disc disorder with radiculopathy"

2015 entry	Updated 2016 entry	Comment
Example M51.1[6-7] Intervertebral disc disorders with radiculopathy, lumbar region (2 codes) To 724.4 Thoracic or lumbosacral neuritis or radiculitis, unspecified	Example M51.1[6-7] Intervertebral disc disorders with radiculopathy, lumbar region (2 codes) To 722.93 Other and unspecified disc disorder, lumbar region	The updated entry is a closer match. The ICD-9-CM tabular instruction for 724.4 excludes radiculitis due to intervertebral disc disorder.

#### Internal review:

#### ICD-10-CM to ICD-9-CM GEM entry for "Hydronephrosis with ureteral stricture"

2015 entry	Updated 2016 entry	Comment
N13.1 Hydronephrosis with ureteral stricture, not elsewhere classified To 591 Hydronephrosis	N13.1 Hydronephrosis with ureteral stricture, not elsewhere classified To Choice List 1 591 Hydronephrosis AND Choice List 2 593.3 Stricture or kinking of ureter	The updated entry is a more complete translation of the condition specified in the ICD-10- CM code. N13.1 is a combination code, and requires an ICD-9-CM translation cluster specifying both the hydropnephrosis and the ureteral stricture.

#### ICD-10-CM to ICD-9-CM GEM entry for "Hydronephrosis with renal/ureteral calculous"

2015 entry	Updated 2016 entry	Comment
2015 entry N13.2 Hydronephrosis with renal and ureteral calculous obstruction To 591 Hydronephrosis	Updated 2016 entryN13.2 Hydronephrosis with renal and ureteral calculous obstruction ToToChoice List 1 591 Hydronephrosis ANDChoice List 2 592.0 Calculus of kidney OR 592.1 Calculus of ureter OR 592.9 Urinary calculus, unspecified	<b>Comment</b> The updated entry is a more complete translation of the condition specified in the ICD-10- CM code. N13.2 is a combination code, and requires an ICD-9-CM translation cluster specifying both the hydropnephrosis and the urinary calculus.

Public comment:

	Undeted 2016 optry	
2015 entry	Updated 2016 entry	Comment
Example	Example	Typographical error.
80[013].99 Open fracture of vault	80[013].99 Open fracture of vault	800.99, 801.99 and 803.99 are
of skull with intracranial injury of	of skull with intracranial injury of	translated to S06.9X9A in choice
other and unspecified nature,	other and unspecified nature,	list 2 of the cluster. This has
with concussion, unspecified (3	with concussion, unspecified (3	been changed to S06.9X0A.
codes)	codes)	0
Choice List 1	Choice List 1	
To <b>S02.0XXA</b> Fracture of vault of	To <b>S02.0XXA</b> Fracture of vault of	
skull, initial encounter for closed	skull, initial encounter for closed	
fracture	fracture	
AND	AND	
Choice List 2	Choice List 2	
S06.890A Other specified	S06.890A Other specified	
intracranial injury without loss of	intracranial injury without loss of	
consciousness, initial encounter	consciousness, initial encounter	
OR	OR	
S06.9X9A Unspecified	S06.9X0A Unspecified	
intracranial injury with loss of	intracranial injury without loss of	
consciousness of unspecified	consciousness, initial encounter	
duration, initial encounter	,	

ICD-9-CM to ICD-10-CM GEM entries for "Open skull fracture with concussion"

# **PROCEDURE GEMs**

#### New codes: ICD-10-PCS to ICD-9-CM GEM entry for "Administration of blinatumomab"

ICD-10-1 CS to ICD-9-CNI CENI entry 101 Administration of bimatumomab		
New 2016 entry	Comment	
Example XW03351 Introduction of Blinatumomab Antineoplastic Immunotherapy into Peripheral Vein, Percutaneous Approach, New Technology Group 1 (2 codes)	The ICD-10-PCS codes are new for FY2016.	
To 99.25 Injection or infusion of cancer chemotherapeutic substance		

#### New codes:

# ICD-10-PCS to ICD-9-CM GEM entry for "Administration of idarucizumab"

New 2016 entry	Comment
<b>Example</b> <b>XW03331</b> Introduction of Idarucizumab, Dabigatran Reversal Agent into Peripheral Vein, Percutaneous Approach, New Technology Group 1 (2 codes)	The ICD-10-PCS codes are new for FY2016.
To <b>99.29</b> Injection or infusion of other therapeutic or prophylactic substance	

#### New codes: ICD-10-PCS to ICD-9-CM GEM entry for "Coronary orbital atherectomy"

t
10-PCS codes are new
6.

### New codes:

# ICD-10-PCS to ICD-9-CM GEM entry for "Administration of isavuconazole"

New 2016 entry	Comment
<b>Example</b> <b>XW03341</b> Introduction of Isavuconazole Anti-infective into Peripheral Vein, Percutaneous Approach, New Technology Group 1 (2 codes)	The ICD-10-PCS codes are new for FY2016.
To <b>99.21</b> Injection of antibiotic	

### New codes:

#### ICD-10-PCS to ICD-9-CM GEM entry for "Intraoperative knee replacement sensor"

New 2016 entry	Comment
Example XR2G021 Monitoring of Right Knee Joint using Intraoperative Knee Replacement Sensor, Open Approach, New Technology Group 1 (2 codes)	There is no translation in ICD-9- CM for the new ICD-10-PCS code.
To <b>Nol9</b> No description	

#### New codes:

# ICD-10-PCS to ICD-9-CM GEM entry for "Administration of ceftazidime-avibactam"

New 2016 entry	Comment
Example XW03321 Introduction of Ceftazidime-Avibactam Anti-infective into Peripheral Vein, Percutaneous Approach, New Technology Group 1 (2 codes)	The ICD-10-PCS codes are new for FY2016.
To <b>99.21</b> Injection of antibiotic	

# New codes:

# ICD-10-PCS to ICD-9-CM GEM entry for "Angioplasty using drug-coated balloon"

New 2016 entry	Comment
Example	The ICD-10-PCS codes are new
<b>047K0Z1</b> Dilation of Right Femoral Artery using Drug-Coated Balloon, Open Approach (36 codes)	for FY2016.

New 2016 entry	Comment	
Choice List 1		
To <b>39.50</b> Angioplasty of other non-coronary vessel(s)		
AND		
Choice List 2		
00.40 Procedure on single vessel		
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# Public comment:

# ICD-9-CM to ICD-10-PCS GEM entry for "Revision of hip replacement (1 of 2)"

2015 entry	Updated 2016 entry	Comment
Example	Example	The updated entry is a more
00.70 Revision of hip	00.70 Revision of hip	complete translation of the procedure
replacement, both acetabular	replacement, both acetabular	specified in the ICD-9-CM code. The
and femoral components	and femoral components	complete meaning of the ICD-9 hip
То	То	revision procedure codes as
Choice List 1	Choice List 1	specified in PCS clusters includes
0SP[9B]0JZ Removal of	0SP[9B]0JZ Removal of	insertion of the ceramic on
Synthetic Substitute from Right	Synthetic Substitute from Right	polyethylene synthetic hip joint.
Hip Joint, Open Approach (2	Hip Joint, Open Approach (2	
codes)	codes)	
AND	AND	
Choice List 2	Choice List 2	
0SR[9B]0[123J][9AZ]	0SR[9B]0[1234J][9AZ]	
Replacement of Right Hip Joint	Replacement of Right Hip Joint	
with Metal Synthetic	with Ceramic on Polyethylene	
Substitute, Cemented, Open	Synthetic Substitute,	
Approach (24 codes)	Cemented, Open Approach	
	(30 codes)	

# Public comment:

# ICD-9-CM to ICD-10-PCS GEM entry for "Revision of hip replacement (2 of 2)"

2015 entry	Updated 2016 entry	Comment
Example	Example	The updated entry is a more
00.7[0-3] Revision of hip	00.7[0-3] Revision of hip	complete translation of the procedure
replacement, both acetabular	replacement, both acetabular	specified in the ICD-9-CM code. The
and femoral components	and femoral components	complete meaning of the ICD-9 hip
(4 codes)	(4 codes)	revision procedure codes as
То	То	specified in PCS clusters includes
Choice List 1	Choice List 1	removal of spacer, liner and
0SP[9B]0JZ Removal of	0SP[9B]0[89BJ]Z Removal of	resurfacing devices prior to insertion
Synthetic Substitute from Right	Spacer from Right Hip Joint,	of the new prosthetic hip joint.
Hip Joint, Open Approach (2	Open Approach (8 codes)	
codes)	AND	
AND	Choice List 2	
Choice List 2	0SR[9ABERS]0[01234J][9AZ]	
0SR[9ABERS]0[01234J][9AZ]	Replacement of Right Hip Joint	
Replacement of Right Hip Joint	with Ceramic on Polyethylene	
with Ceramic on Polyethylene	Synthetic Substitute,	
Synthetic Substitute,	Cemented, Open Approach (72	
Cemented, Open Approach	codes)	
(72 codes)		

#### Public comment: ICD-9-CM to ICD-10-PCS GEM entry for "Revision of knee replacement" (1 of 2)

ICD-9-CM to ICD-10-PCS GEM entry for Revision of Rifee replacement (1 of 2)		
2015 entry	Updated 2016 entry	Comment
Example	Example	The updated entry is a more
00.8[1-2] Revision of knee	00.8[1-2] Revision of knee	complete translation of the procedure
replacement, tibial component	replacement, tibial component	specified in the ICD-9-CM code. The
(2 codes)	(2 codes)	complete meaning of the ICD-9 tibial
То	То	and femoral component revision
Choice List 1	Choice List 1	procedure codes as translated to
0SP[CD]0JZ Removal of	0SP[CD]0JZ Removal of	PCS clusters includes insertion of
Synthetic Substitute from Right	Synthetic Substitute from Right	the qualifiers specifying cemented
Knee Joint, Open Approach (2	Knee Joint, Open Approach (2	and uncemented.
codes)	codes)	
AND	AND	
Choice List 2	Choice List 2	
0SR[TUVW]0JZ Replacement	0SR[TUVW]0J[9AZ]	
of Right Knee Joint, Tibial	Replacement of Right Knee	
Surface with Synthetic	Joint, Tibial Surface with	
Substitute, Open Approach (4	Synthetic Substitute,	
codes)	Cemented, Open Approach (12	
	codes)	

#### Public comment: ICD-9-CM to ICD-10-PCS GEM entry for "Revision of knee replacement" (2 of 2)

	The updated entry is a more
00.8[0-2] Revision of knee replacement, total (all components) (3 codes) To00.8[0-2] Revision of knee replacement, total (all components) (3 codes)components replacement, total (all components) (3 codes)ToToToChoice List 1 OSP[CD][04]JZ Removal of Synthetic Substitute from RightOBP[CD][04][89J]Z Removal of Liner from Right Knee Joint,To	complete translation of the procedure specified in the ICD-9-CM code. The complete meaning of the ICD-9 knee revision procedure code as translated to PCS clusters includes removal of spacer and liner prior to insertion of the new prosthetic knee joint.

#### Internal review: ICD-9-CM to ICD-10-PCS entry for "Insufflation of fallopian tube"

2015 entry	Updated 2016 entry	Comment
66.8 Insufflation of fallopian tube	66.8 Insufflation of fallopian tube	The updated entry is a more
То	То	accurate translation of the
3E1P[378]8Z Irrigation of Female	3E0P[378][GS][CF] Introduction	procedure specified in the ICD-9-
Reproductive using Irrigating	of Other Gas into Female	CM code. The root operation
Substance, Percutaneous	Reproductive, Via Natural or	Introduction is a closer
Approach (3 codes)	Artificial Opening (6 codes)	translation match than the root
		operation Irrigation.

#### Internal review: ICD-10-PCS to ICD-9-CM GEM entry for "Treatment of LAA with occlusive device" (1 of 2)

TED-TO-FCS to TED-9-CM GEM entry for Theatment of EAA with occlusive device (1 of 2)		
2015 entry	Updated 2016 entry	Comment
02L7[034][CD]K Occlusion of	02L7[034][CD]K Occlusion of	The updated entry is a more
Left Atrial Appendage with	Left Atrial Appendage with	accurate translation of the
Extraluminal Device, Open	Extraluminal Device, Open	procedure specified in the ICD-
Approach (6 codes)	Approach (6 codes)	10-PCS codes.
То	То	37.90 is a more accurate
37.36 Excision, destruction, or	37.90 Insertion of left atrial	translation of the procedure to
exclusion of left atrial appendage	appendage device	occlude the left atrial appendage
(LAA)		when a device is used. This
		change has also been made to
		the ICD-9-CM to ICD-10-PCS
		GEM.

# Internal review: ICD-9-CM to ICD-10-PCS GEM entry for "Treatment of LAA with occlusive device" (2 of 2)

2015 entry	Updated 2016 entry	Comment
37.90 Insertion of left atrial	37.90 Insertion of left atrial	The updated entry is a more
appendage device	appendage device (LAA)	accurate translation of the
То	То	procedure specified in the ICD-9-
02L7[034][CD]K Occlusion of	02L7[034][CD]K Occlusion of	CM code.
Left Atrial Appendage with	Left Atrial Appendage with	The complete meaning of 37.90
Extraluminal Device, Open	Extraluminal Device, Open	is fully translated with root
Approach (6 codes)	Approach (6 codes)	operation Occlusion and does
OR		not need to be translated to the
02U7[34]JZ Supplement Left		root operation Supplement of left
Atrium with Synthetic Substitute,		atrium.
Percutaneous Endoscopic		
Approach (2 codes)		

# Internal review:

# ICD-9-CM to ICD-10-PCS GEM entry for "Excision/destruction/exclusion of LAA"

2015 entry	Updated 2016 entry	Comment
37.36 Excision, destruction, or	37.36 Excision, destruction, or	The updated entry is a more
exclusion of left atrial appendage	exclusion of left atrial appendage	accurate translation of the
(LAA)	(LAA)	procedure specified in the ICD-9-
То	То	CM code.
02[5BL]7[034]ZK Destruction of	02[5BL]7[034]ZK Destruction of	The complete meaning of 37.36
Left Atrial Appendage, Open	Left Atrial Appendage, Open	is fully translated with root
Approach (9 codes)	Approach (9 codes)	operations Excision, Destruction
OR		and Occlusion and does not
02Q7[034]ZZ Repair Left Atrium,		need to be translated to the
Open Approach (3 codes)		"NEC option" Repair of left
		atrium.

10D-3-0M to 10D-10-1 CO CEM entry 101 Abdominal proctopexy		
2015 entry	Updated 2016 entry	Comment
48.75 Abdominal proctopexy	48.75 Abdominal proctopexy	The updated entry is a more
То	То	accurate translation of the
<b>0DSP[04]ZZ</b> Reposition Rectum,	<b>0DSP[04]ZZ</b> Reposition Rectum,	procedure specified in the ICD-9-
Open Approach (2 codes)	Open Approach (2 codes)	CM code. Per index, code 48.75
	OR	includes transabdominal Ripstein
	0DUP[04]JZ Supplement	repair, which is coded to the root
	Rectum with Synthetic	operation Supplement using the
	Substitute, Open Approach (2	device value Synthetic
	codes)	Substitute.

#### Public comment: ICD-9-CM to ICD-10-PCS GEM entry for "Abdominal proctopexy"

# Internal review: ICD-10-PCS to ICD-9-CM GEM entry for "Irrigation of eye"

2015 entry	Updated 2016 entry	Comment
<b>3E1C38[XZ]</b> Irrigation of Eye using Irrigating Substance, Percutaneous Approach (2 codes) To <b>96.52</b> Irrigation of ear	<b>3E1C38[XZ]</b> Irrigation of Eye using Irrigating Substance, Percutaneous Approach (2 codes) To <b>10.91</b> Subconjunctival injection	Typographical error. The ICD-10- PCS code specifies the eye.

#### Public comment: ICD-10-PCS to ICD-9-CM GEM entry for "Insertion of monitoring device in SVC"

2015 entry	Updated 2016 entry	Comment
02HV[034]2Z Insertion of	02HV[034]2Z Insertion of	The updated entry is a closer
Monitoring Device into	Monitoring Device into Superior	translation match. The complete
Superior Vena Cava,	Vena Cava, Percutaneous	meaning of code 89.64 specifies
Percutaneous Approach (3	Approach (3 codes)	Swan-Ganz catheterization, which
codes)	То	under normal circumstances is
То	89.64 Pulmonary artery wedge	placed in the superior vena cava.
<b>38.7</b> Interruption of the vena	monitoring	This translation alternative has also
cava		been added to the ICD-9-CM to ICD-
		10-PCS GEM.

# Public comment:

# ICD-10-PCS to ICD-9-CM GEM entry for "Introduction of other therapeutic substance"

2015 entry	Updated 2016 entry	Comment
<b>3E013GC</b> Introduction of Other	3E013GC Introduction of Other	The updated entry is a more
Therapeutic Substance into	Therapeutic Substance into	complete accurate translation of the
Subcutaneous Tissue,	Subcutaneous Tissue,	ICD-10-PCS code. The translation
Percutaneous Approach	Percutaneous Approach	alternatives for 3E013GC include
To/From	То	four specific ICD-9-CM codes that do
99.12 Immunization for allergy	99.29 Injection or infusion of	not meet inclusion criteria for the
OR	other therapeutic or	ICD-10-PCS to ICD-9-CM GEM.
99.13 Immunization for	prophylactic substance	3E013GC should translate to 99.29
autoimmune disease		instead, because its level of
OR		specificity is the closer translation
99.27 Iontophoresis		match of the source code.
OR		The specific alternatives will remain
99.75 Administration of		in the ICD-9-CM to ICD-10-PCS
neuroprotective agent		GEM.

#### Updated 2016 entry Comment 2015 entry 99.11 Injection of Rh immune 99.11 Injection of Rh immune The updated entry is a more globulin globulin accurate translation of the ICD-9-CM То То code. 302[3-6]3S1 Transfusion of 3E0234Z Introduction of Serum, The ICD-10-PCS code 3E0234Z is a Nonautologous Globulin into Toxoid and Vaccine into closer translation match than the Peripheral Vein, Percutaneous Muscle, Percutaneous alternatives in the root operation Approach (4 codes) Approach Transfusion tables. This translation alternative has also been added to the ICD-10-PCS to ICD-9-CM GEM.

#### Public comment: ICD-9-CM to ICD-10-PCS GEM entry for "Injection of Rh immune globulin"

# **Public comment:**

# ICD-9-CM to ICD-10-PCS GEM entry for "Endoscopic destruction of esophagus tissue"

2015 entry	Updated 2016 entry	Comment
42.33 Endoscopic excision or	42.33 Endoscopic excision or	The updated entry is a more
destruction of lesion or tissue	destruction of lesion or tissue of	complete translation of the ICD-9-CM
of esophagus	esophagus	code.
То	То	The ICD-10-PCS code from table
0D[B5]5[48]ZZ Destruction of	0D[B5]5[48]ZZ Destruction of	3E0 also specifies the procedure
Esophagus, Via Natural or	Esophagus, Via Natural or	included in the source code 42.33.
Artificial Opening Endoscopic	Artificial Opening Endoscopic (4	This translation alternative has also
(4 codes)	codes)	been added to the ICD-10-PCS to
	OR	ICD-9-CM GEM.
	3E0G8TZ Introduction of	
	Destructive Agent into Upper	
	GI, Via Natural or Artificial	
	Opening Endoscopic	

#### Public comment: ICD-9-CM to ICD-10-PCS GEM entry for "Medical induction of labor"

2015 entry	Updated 2016 entry	Comment
73.4 Medical induction of labor	73.4 Medical induction of labor	The updated entry is a more
То	То	complete translation of the ICD-9-CM
3E0DXGC Introduction of	<b>3E0DXGC</b> Introduction of Other	code.
Other Therapeutic Substance	Therapeutic Substance into	73.4 currently translates to
into Mouth and Pharynx,	Mouth and Pharynx, External	3E0PXGC for induction of labor via
External Approach	Approach	oral route. 3E0P7GC has been
OR	OR	added to include the transvaginal
3E0[3-6][03]VJ Introduction of	3E0P7GC Introduction of Other	route.
Other Hormone into Peripheral	Therapeutic Substance into	This translation alternative has also
Vein, Percutaneous Approach	Female Reproductive, Via	been added to the ICD-10-PCS to
(8 codes)	Natural or Artificial Opening (2	ICD-9-CM GEM.
	codes)	
	OR	
	3E0[3-6][03]VJ Introduction of	
	Other Hormone into Peripheral	
	Vein, Percutaneous Approach	
	(8 codes)	

#### Public comment: ICD-9-CM to ICD-10-PCS GEM entry for "Cardiac contractility modulation system"

2015 entry	Updated 2016 entry	Comment
Example 17.51 Implantation of rechargeable cardiac contractility modulation [CCM], total system To 0JH[68][03]AZ Insertion of Contractility Modulation Device into Chest Subcutaneous Tissue and Fascia, Open Approach (4 codes) AND 02HL[034]MZ Insertion of Cardiac Lead into Left Ventricle, Percutaneous Approach (3 codes)	Example 17.51 Implantation of rechargeable cardiac contractility modulation [CCM], total system To 0JH[68][03]AZ Insertion of Contractility Modulation Device into Chest Subcutaneous Tissue and Fascia, Open Approach (4 codes) AND 02HK[034]MZ Insertion of Cardiac Lead into Right Ventricle, Percutaneous Approach (3 codes)	Typographical error. The body part value for the insertion of cardiac lead ICD-10-PCS codes should specify the right side of the heart.

# Public comment:

# ICD-10-PCS to ICD-9-CM GEM entry for "Open insertion of feeding gastrostomy tube"

2015 entry	Updated 2016 entry	Comment
<b>0DH60UZ</b> Insertion of Feeding Device into Stomach, Open	<b>0DH60UZ</b> Insertion of Feeding Device into Stomach, Open	The updated entry is a more accurate translation of the ICD-10-
Approach	Approach	PCS code.
То	To	This translation alternative has also
43.0 Gastrotomy	<b>43.19</b> Other gastrostomy	been added to the ICD-9-CM to ICD- 10-PCS GEM.