

1	Status	Sep 2016 Voting Packet
2	Date of Last Update	2016/09/01
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5	Submitter Name	QIICR
6	Submission Date	2016/03/05

7	Correction Number CP-1592	
8	Log Summary: Add codes for prostatic sector anatomy	
9	Name of Standard	
10	PS3.16	
11	Rationale for Correction:	
12	Prostate lesions are localized on MRI and described using reporting systems like PI-RADS that standardize the features, locations and recommended action.	
13		
14	PI-RADS v2 and the European Consensus Meeting guidelines that preceded it (which are referenced in the ESUR prostate MR guidelines 2012 that introduced the PI-RADS concept) define the sector anatomy of the prostate and standard codes for these are being defined in FMA and SNOMED and are needed in DICOM to support description of lesions as regions of interest using segmentations and TID 1500 measurement structured reports.	
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16		
17		
18	<i>[Ed. Note. Separate context groups for each of the different models are described so as to provide a single value set for each model, even though there is considerable overlap and replication.]</i>	
19		
20	Correction Wording:	

Amend DICOM PS 3.16 to add the following new sections and context groups:

## 2 Normative References

### 2.20 Prostate Reporting Terminology and Nomenclature

The Prostate Imaging and Report and Data System Version 2 (PI-RADS v2) is a joint effort of the European Society of Urogenital Radiology, the American College of Radiology and the AdMetech Foundation.

[PI-RADS v2] *Eur Urol*. Weinreb JC, Barentsz JO, Choyke PL, Cornud F, Haider MA, Macura KJ, Margolis D, Schnall, MD, Shtern, F, Tempny, CM., Thoeny, HC, and Verma, S. 2016/01. 69. 1. 16-40. "PI-RADS Prostate Imaging - Reporting and Data System: 2015, Version 2". 10.1016/j.eururo.2015.08.052. <http://www.europeanurology.com/article/S0302-2838%2815%2900848-9/> .

#### Note

PI-RADS is also available from the following sources:

- American College of Radiology: <http://www.acr.org/~media/ACR/Documents/PDF/QualitySafety/Resources/PIRADS/PIRADS%20V2.pdf>

[Prostate Eu Concensus] *Eur Urol*. Dickinson L, Ahmed HU., Allen C, Barentsz JO, Carey B, Futterer JJ, Heijmink SW, Hoskin PJ, Kirkham A, and Padhani AR. 2011. 59. 4. 477-94. "Magnetic resonance imaging for the detection, localisation, and characterisation of prostate cancer: recommendations from a European consensus meeting". 10.1016/j.eururo.2010.12.009. [http://www.europeanurology.com/article/S0302-2838\(10\)01187-5/](http://www.europeanurology.com/article/S0302-2838(10)01187-5/) .

[ESUR Guidelines] *Eur Radiol*. Barentsz JO, Richenberg J, Clements R, Choyke P, Verma S, Villeirs G, Rouviere O, Logager V, and Fütterer JJ. 2012/04. 22. 4. 746-57. "ESUR prostate MR guidelines 2012". 10.1007/s00330-011-2377-y. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3297750/> .

## CID n000 Prostate Sector Anatomy

#### Note

In future extensions, Prostate Sector Anatomy terms that are not derived from PI-RADS v2 should be added to this context group.

Type: Extensible  
Version: yyyyymmdd

Table CID n000. Prostate Sector Anatomy

Coding Scheme Designator	Code Value	Code Meaning
Include CID n001 "Prostate Sector Anatomy from PI-RADS v2"		
Include CID n002 "Prostate Sector Anatomy from European Concensus 16 Sector (Minimal) Model"		
Include CID n003 "Prostate Sector Anatomy from European Concensus 27 Sector (Optimal) Model"		

## CID n001 Prostate Sector Anatomy from PI-RADS v2

#### Note

From [PI-RADS v2].

Type: Extensible  
Version: yyyyymmdd

**Table CID 6001. Prostate Sector Anatomy from PI-RADS v2**

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	FMA ID	PI-RADS v2 Abbreviation
SRT	T-93010	Right seminal vesicle	74308000	C0227979	19387	R SV
SRT	T-93020	Left seminal vesicle	42320003	C0227980	19388	L SV
SRT	R-FFFD9	Male external urethral sphincter	717027004	C0815353	19733	US
SRT	R0-00006	Right anterior apical transition zone of prostate	716930004			Apex R TZa
SRT	R-FFFF3	Right posterior apical transition zone of prostate	716932007			Apex R TZp
SRT	R-FFFE5	Left anterior apical transition zone of prostate	716931000			Apex L TZa
SRT	R0-00014	Left posterior apical transition zone of prostate	716933002			Apex L TZp
SRT	R0-00000	Right anterior basal transition zone of prostate	716896009			Base R TZa
SRT	R-FFFB1	Right posterior basal transition zone of prostate	716898005			Base R TZp
SRT	R-FFFD6	Left anterior basal transition zone of prostate	716897000			Base L TZa
SRT	R-FFFB7	Left posterior basal transition zone of prostate	716899002			Base L TZp
SRT	R-FFFF4	Right anterior middle transition zone of prostate	716913001			Mid R TZa
SRT	R-FFFC9	Right posterior middle transition zone of prostate	716915008			Mid R TZp
SRT	R0-00013	Left anterior middle transition zone of prostate	716914007			Mid L TZa
SRT	R-FFFAB	Left posterior middle transition zone of prostate	716916009			Mid L TZp
SRT	R-FFFE2	Right anterior basal peripheral zone of prostate	716904003			Base R PZa
SRT	R0-0001E	Right posterolateral basal peripheral zone of prostate	716906001			Base R PZpl
SRT	R0-00001	Left anterior basal peripheral zone of prostate	716905002			Base L PZa
SRT	R-FFFC2	Left posterolateral basal peripheral zone of prostate	716907005			Base L PZpl
SRT	R-FFFD4	Right posteromedial middle peripheral zone of prostate	716923005			Mid R PZpm
SRT	R-FFFB5	Left posteromedial middle peripheral zone of prostate	716924004			Mid L PZpm
SRT	R-FFFCD	Right anterior middle peripheral zone of prostate	716919002			Mid R PZa
SRT	R0-0000C	Right posterolateral middle peripheral zone of prostate	716921007			Mid R PZpl
SRT	R-FFFB0	Left anterior middle peripheral zone of prostate	716920008			Mid L PZa

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	FMA ID	PI-RADS v2 Abbreviation
SRT	R-FFFE9	Left posterolateral middle peripheral zone of prostate	716922000			Mid L PZpl
SRT	R-FFFEA	Right posteromedial apical peripheral zone of prostate	716940001			Apex R PZpm
SRT	R0-0000B	Left posteromedial apical peripheral zone of prostate	716941002			Apex L PZpm
SRT	R0-00003	Right anterior apical peripheral zone of prostate	716936005			Apex R PZa
SRT	R-FFFC0	Right posterolateral apical peripheral zone of prostate	716938006			Apex R PZpl
SRT	R0-00025	Left anterior apical peripheral zone of prostate	716937001			Apex L PZa
SRT	R-FFFDD	Left posterolateral apical peripheral zone of prostate	716939003			Apex L PZpl
SRT	R-FFFFC	Central zone of left half prostate	716901006		302475	Base L CZ
SRT	R-FFFD0	Central zone of right half prostate	716900007		302473	Base R CZ
SRT	R-FFFD0	Left basal anterior fibromuscular stroma of prostate	716893001			Base L AS
SRT	R-FFFF2	Right basal anterior fibromuscular stroma of prostate	716892006			Base R AS
SRT	R0-00027	Left middle anterior fibromuscular stroma of prostate	716910003			Mid L AS
SRT	R0-00004	Right middle anterior fibromuscular stroma of prostate	716909008			Mid R AS
SRT	R-FFFD0	Left apical anterior fibromuscular stroma of prostate	716927006			Apex L AS
SRT	R-FFFFD	Right apical anterior fibromuscular stroma of prostate	716926002			Apex R AS

## CID n002 Prostate Sector Anatomy from European Consensus 16 Sector (Minimal) Model

### Note

From [Prostate Eu Consensus].

Type: Extensible  
Version: yyyyymmdd

Table CID n002. Prostate Sector Anatomy from European Consensus 16 Sector (Minimal) Model

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	FMA ID	16 Sector Code
SRT	T-93010	Right seminal vesicle	74308000	C0227979	19387	R SV
SRT	T-93020	Left seminal vesicle	42320003	C0227980	19388	L SV
SRT	R-FFFD9	Male external urethral sphincter	717027004	C0815353	19733	US

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	FMA ID	16 Sector Code
SRT	R-FFFC1	Right apical transition zone of prostate	716928001			3a
SRT	R-FFFA9	Left apical transition zone of prostate	716929009			6a
SRT	R-FFFBE	Right basal transition zone of prostate	716894007			1a
SRT	R0-00020	Left basal part transition zone of prostate	716895008			4a
SRT	R-FFFB6	Right middle transition zone of prostate	716911004			2a
SRT	R-FFFD5	Left middle transition zone of prostate	716912006			5a
SRT	R0-00018	Right basal peripheral zone of prostate	716902004			2p
SRT	R-FFFC4	Left basal peripheral zone of prostate	716903009			7p
SRT	R0-0000F	Right lateral middle peripheral zone of prostate	716917000			4p
SRT	R-FFFD4	Right posteromedial middle peripheral zone of prostate	716923005			3p
SRT	R-FFFE6	Left lateral middle peripheral zone of prostate	716918005			9p
SRT	R-FFFB5	Left posteromedial middle peripheral zone of prostate	716924004			8p
SRT	R-FFFB3	Right apical peripheral zone of prostate	716934008			5p
SRT	R-FFFD3	Left apical peripheral zone of prostate	716935009			10p
SRT	R-FFFFC	Central zone of left half prostate	716901006		302475	6p
SRT	R-FFFD0	Central zone of right half prostate	716900007		302473	1p

### CID n003 Prostate Sector Anatomy from European Consensus 27 Sector (Optimal) Model

#### Note

From [Prostate Eu Consensus].

Type: Extensible  
Version: yyyyymmdd

**Table CID n003. Prostate Sector Anatomy from European Consensus 27 Sector (Optimal) Model**

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	FMA ID	27 Sector Code
SRT	T-93010	Right seminal vesicle	74308000	C0227979	19387	R SV
SRT	T-93020	Left seminal vesicle	42320003	C0227980	19388	L SV
SRT	R-FFFD9	Male external urethral sphincter	717027004	C0815353	19733	US
SRT	R0-00017	Basal anterior fibromuscular stroma of prostate	716891004		302539	13as

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	FMA ID	27 Sector Code
SRT	R-FFFE0	Middle anterior fibromuscular stroma of prostate	716908000		302542	14as
SRT	R0-0001B	Apical anterior fibromuscular stroma of prostate	716925003		302546	15as
SRT	R-FFFC1	Right apical transition zone of prostate	716928001			5a
SRT	R-FFFA9	Left apical transition zone of prostate	716929009			11a
SRT	R-FFFBE	Right basal transition zone of prostate	716894007			1a
SRT	R0-00020	Left basal part transition zone of prostate	716895008			7a
SRT	R-FFFB6	Right middle transition zone of prostate	716911004			3a
SRT	R-FFFD5	Left middle transition zone of prostate	716912006			9a
SRT	R-FFFE2	Right anterior basal peripheral zone of prostate	716904003			2a
SRT	R0-0001E	Right posterolateral basal peripheral zone of prostate	716906001			2p
SRT	R0-00001	Left anterior basal peripheral zone of prostate	716905002			8a
SRT	R-FFFC2	Left posterolateral basal peripheral zone of prostate	716907005			8p
SRT	R-FFFD4	Right posteromedial middle peripheral zone of prostate	716923005			3p
SRT	R-FFFB5	Left posteromedial middle peripheral zone of prostate	716924004			9p
SRT	R-FFLCD	Right anterior middle peripheral zone of prostate	716919002			4a
SRT	R0-0000C	Right posterolateral middle peripheral zone of prostate	716921007			4p
SRT	R-FFFB0	Left anterior middle peripheral zone of prostate	716920008			10a
SRT	R-FFFE9	Left posterolateral middle peripheral zone of prostate	716922000			10p
SRT	R-FFFEA	Right posteromedial apical peripheral zone of prostate	716940001			5p
SRT	R0-0000B	Left posteromedial apical peripheral zone of prostate	716941002			11p
SRT	R0-00003	Right anterior apical peripheral zone of prostate	716936005			6a
SRT	R-FFFC0	Right posterolateral apical peripheral zone of prostate	716938006			6p
SRT	R0-00025	Left anterior apical peripheral zone of prostate	716937001			12a
SRT	R-FFFD0	Left posterolateral apical peripheral zone of prostate	716939003			12p
SRT	R-FFFFC	Central zone of left half prostate	716901006		302475	7p
SRT	R-FFFD0	Central zone of right half prostate	716900007		302473	1p