

1	Status	Final Text
2	Date of Last Update	2016/11/06
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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	PS3.6, 3.16 2016d	
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.	
15		
16		
17		
18	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 6300 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:** 20161106

**Table CID 6300. Prostate Sector Anatomy**

Coding Scheme Designator	Code Value	Code Meaning
<i>Include CID 6301 "Prostate Sector Anatomy from PI-RADS v2"</i>		
<i>Include CID 6302 "Prostate Sector Anatomy from European Concensus 16 Sector (Minimal) Model"</i>		
<i>Include CID 6303 "Prostate Sector Anatomy from European Concensus 27 Sector (Optimal) Model"</i>		

## CID 6301 Prostate Sector Anatomy from PI-RADS v2

#### Note

From [PI-RADS v2].

**Type:** Extensible  
**Version:** 20161106

**Table CID 6301. 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	NCI Thesaurus
SRT	R-FFFFC	Central zone of left half prostate	716901006		302475	Base L CZ	C128587
SRT	R-FFFD0	Central zone of right half prostate	716900007		302473	Base R CZ	C128593
SRT	R0-00025	Left anterior apical peripheral zone of prostate	716937001		328760	Apex L PZa	C128575
SRT	R-FFFE5	Left anterior apical transition zone of prostate	716931000		328795	Apex L TZa	C128578
SRT	R0-00001	Left anterior basal peripheral zone of prostate	716905002		328753	Base L PZa	C128588
SRT	R-FFFD6	Left anterior basal transition zone of prostate	716897000		328785	Base L TZa	C128589
SRT	R-FFFB0	Left anterior middle peripheral zone of prostate	716920008		328768	Mid L PZa	C128600
SRT	R0-00013	Left anterior middle transition zone of prostate	716914007		328784	Mid L TZa	C128603
SRT	R-FFFD6	Left apical anterior fibromuscular stroma of prostate	716927006		328772	Apex L AS	C128574
SRT	R-FFDC	Left basal anterior fibromuscular stroma of prostate	716893001		328758	Base L AS	C128586
SRT	R0-00027	Left middle anterior fibromuscular stroma of prostate	716910003		328781	Mid L AS	C128599
SRT	R0-00014	Left posterior apical transition zone of prostate	716933002		328775	Apex L TZp	C128579
SRT	R-FFFB7	Left posterior basal transition zone of prostate	716899002		328789	Base L TZp	C128590
SRT	R-FFFAB	Left posterior middle transition zone of prostate	716916009		328786	Mid L TZp	C128604
SRT	R-FFDD	Left posterolateral apical peripheral zone of prostate	716939003		328752	Apex L PZpl	C128576
SRT	R-FFFC2	Left posterolateral basal peripheral zone of prostate	716907005		328759	Base L PZpl	C128591
SRT	R-FFFE9	Left posterolateral middle peripheral zone of prostate	716922000		328791	Mid L PZpl	C128601
SRT	R0-0000B	Left posteromedial apical peripheral zone of prostate	716941002		328792	Apex L PZpm	C128577
SRT	R-FFFB5	Left posteromedial middle peripheral zone of prostate	716924004		328777	Mid L PZpm	C128602
SRT	T-93020	Left seminal vesicle	42320003	C0227980	19388	L SV	C128598
SRT	R-FFFD9	Male external urethral sphincter	717027004	C0815353	19733	US	C128612
SRT	R0-00003	Right anterior apical peripheral zone of prostate	716936005		328779	Apex R PZa	C128581

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	FMA ID	PI-RADS v2 Abbreviation	NCI Thesaurus
SRT	R0-00006	Right anterior apical transition zone of prostate	716930004		328761	Apex R TZa	C128584
SRT	R-FFFE2	Right anterior basal peripheral zone of prostate	716904003		328798	Base R PZa	C128594
SRT	R0-00000	Right anterior basal transition zone of prostate	716896009		328793	Base R TZa	C128596
SRT	R-FFFC0	Right anterior middle peripheral zone of prostate	716919002		328796	Mid R PZa	C128606
SRT	R-FFFF4	Right anterior middle transition zone of prostate	716913001		328800	Mid R TZa	C128609
SRT	R-FFFFD	Right apical anterior fibromuscular stroma of prostate	716926002		328801	Apex R AS	C128580
SRT	R-FFFF2	Right basal anterior fibromuscular stroma of prostate	716892006		328778	Base R AS	C128592
SRT	R0-00004	Right middle anterior fibromuscular stroma of prostate	716909008		328783	Mid R AS	C128605
SRT	R-FFFF3	Right posterior apical transition zone of prostate	716932007		328763	Apex R TZp	C128585
SRT	R-FFFB1	Right posterior basal transition zone of prostate	716898005		328799	Base R TZp	C128597
SRT	R-FFFC9	Right posterior middle transition zone of prostate	716915008		328787	Mid R TZp	C128610
SRT	R-FFFC0	Right posterolateral apical peripheral zone of prostate	716938006		328782	Apex R PZpl	C128582
SRT	R0-0001E	Right posterolateral basal peripheral zone of prostate	716906001		328797	Base R PZpl	C128595
SRT	R0-0000C	Right posterolateral middle peripheral zone of prostate	716921007		328771	Mid R PZpl	C128607
SRT	R-FFFEA	Right posteromedial apical peripheral zone of prostate	716940001		328764	Apex R PZpm	C128583
SRT	R-FFFD4	Right posteromedial middle peripheral zone of prostate	716923005		328766	Mid R PZpm	C128608
SRT	T-93010	Right seminal vesicle	74308000	C0227979	19387	R SV	C128611

## CID 6302 Prostate Sector Anatomy from European Consensus 16 Sector (Minimal) Model

### Note

From [Prostate Eu Consensus].

**Type:** Extensible  
**Version:** 20161106

**Table CID 6302. 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	R-FFFFC	Central zone of left half prostate	716901006		302475	6p
SRT	R-FFFD0	Central zone of right half prostate	716900007		302473	1p
SRT	R-FFFD3	Left apical peripheral zone of prostate	716935009		328790	10p
SRT	R-FFFA9	Left apical transition zone of prostate	716929009		328769	6a
SRT	R0-00020	Left basal part transition zone of prostate	716895008		328755	4a
SRT	R-FFFC4	Left basal peripheral zone of prostate	716903009		328765	7p
SRT	R-FFFE6	Left lateral middle peripheral zone of prostate	716918005		328767	9p
SRT	R-FFFD5	Left middle transition zone of prostate	716912006		328762	5a
SRT	R-FFFB5	Left posteromedial middle peripheral zone of prostate	716924004		328777	8p
SRT	T-93020	Left seminal vesicle	42320003	C0227980	19388	L SV
SRT	R-FFFD9	Male external urethral sphincter	717027004	C0815353	19733	US
SRT	R-FFFB3	Right apical peripheral zone of prostate	716934008		328794	5p
SRT	R-FFFC1	Right apical transition zone of prostate	716928001		328773	3a
SRT	R0-00018	Right basal peripheral zone of prostate	716902004		328802	2p
SRT	R-FFFBE	Right basal transition zone of prostate	716894007		328780	1a
SRT	R0-0000F	Right lateral middle peripheral zone of prostate	716917000		328803	4p
SRT	R-FFFB6	Right middle transition zone of prostate	716911004		328757	2a
SRT	R-FFFD4	Right posteromedial middle peripheral zone of prostate	716923005		328766	3p
SRT	T-93010	Right seminal vesicle	74308000	C0227979	19387	R SV

**CID 6303 Prostate Sector Anatomy from European Consensus 27 Sector (Optimal) Model****Note**

From [Prostate Eu Consensus].

**Type:** Extensible  
**Version:** 20161106

**Table CID 6303. 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	R0-0001B	Apical anterior fibromuscular stroma of prostate	716925003		302546	15as
SRT	R0-00017	Basal anterior fibromuscular stroma of prostate	716891004		302539	13as
SRT	R-FFFFC	Central zone of left half prostate	716901006		302475	7p
SRT	R-FFFD0	Central zone of right half prostate	716900007		302473	1p
SRT	R0-00025	Left anterior apical peripheral zone of prostate	716937001		328760	12a
SRT	R0-00001	Left anterior basal peripheral zone of prostate	716905002		328753	8a
SRT	R-FFFB0	Left anterior middle peripheral zone of prostate	716920008		328768	10a
SRT	R-FFFA9	Left apical transition zone of prostate	716929009		328769	11a
SRT	R0-00020	Left basal part transition zone of prostate	716895008		328755	7a
SRT	R-FFFD5	Left middle transition zone of prostate	716912006		328762	9a
SRT	R-FFFDD	Left posterolateral apical peripheral zone of prostate	716939003		328752	12p
SRT	R-FFFC2	Left posterolateral basal peripheral zone of prostate	716907005		328759	8p
SRT	R-FFFE9	Left posterolateral middle peripheral zone of prostate	716922000		328791	10p
SRT	R0-0000B	Left posteromedial apical peripheral zone of prostate	716941002		328792	11p
SRT	R-FFFB5	Left posteromedial middle peripheral zone of prostate	716924004		328777	9p
SRT	T-93020	Left seminal vesicle	42320003	C0227980	19388	L SV
SRT	R-FFFD9	Male external urethral sphincter	717027004	C0815353	19733	US
SRT	R-FFFE0	Middle anterior fibromuscular stroma of prostate	716908000		302542	14as
SRT	R0-00003	Right anterior apical peripheral zone of prostate	716936005		328779	6a
SRT	R-FFFE2	Right anterior basal peripheral zone of prostate	716904003		328798	2a
SRT	R-FFFCD	Right anterior middle peripheral zone of prostate	716919002		328796	4a
SRT	R-FFFC1	Right apical transition zone of prostate	716928001		328773	5a
SRT	R-FFFBE	Right basal transition zone of prostate	716894007		328780	1a
SRT	R-FFFB6	Right middle transition zone of prostate	716911004		328757	3a
SRT	R-FFFC0	Right posterolateral apical peripheral zone of prostate	716938006		328782	6p

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	FMA ID	27 Sector Code
SRT	R0-0001E	Right posterolateral basal peripheral zone of prostate	716906001		328797	2p
SRT	R0-0000C	Right posterolateral middle peripheral zone of prostate	716921007		328771	4p
SRT	R-FFFEA	Right posteromedial apical peripheral zone of prostate	716940001		328764	5p
SRT	R-FFFD4	Right posteromedial middle peripheral zone of prostate	716923005		328766	3p
SRT	T-93010	Right seminal vesicle	74308000	C0227979	19387	R SV

## A Registry of DICOM Unique Identifiers (UIDs) (Normative)

Table A-3. Context Group UID Values

Context UID	Context Identifier	Context Group Name
<u>1.2.840.10008.6.1.1138</u>	<u>CID 6300</u>	<u>Prostate Sector Anatomy</u>
<u>1.2.840.10008.6.1.1139</u>	<u>CID 6301</u>	<u>Prostate Sector Anatomy from PI-RADS v2</u>
<u>1.2.840.10008.6.1.1140</u>	<u>CID 6302</u>	<u>Prostate Sector Anatomy from European Concensus 16 Sector (Minimal) Model</u>
<u>1.2.840.10008.6.1.1141</u>	<u>CID 6303</u>	<u>Prostate Sector Anatomy from European Concensus 27 Sector (Optimal) Model</u>