

1	Status	Final Text
2	Date of Last Update	2025/04/03
3	Person Assigned	David Clunie
4		mailto:dclunie@dclunie.com
5	Submitter Name	Wolfgang Schultz
6		mailto:w Schultz@medicalcommunications.com
7	Submission Date	2024/08/01

8	Correction Number CP-2455	
9	Log Summary: Ethnic Group SH VR too short	
10	Name of Standard	
11	PS3.3, PS3.6, PS3.15, PS3.16 2025a	
12	Rationale for Correction:	
13	The current 16-character SH data type for Ethnic Group (0010,2160) does not always provide enough space for the descriptions and therefore results in inaccurate data when we refer to the official tables of SNOMED CT or UMLS and CID 6099 for coded racial groups (Code Meaning).	
14	When the data for an ethnic group for a patient is transferred from systems with an HL7 interface, the original data is truncated when inserted into the DICOM environment. The metadata will no longer have the original content the next time it is transferred to a different destination via DICOM only.	
15		
16	CP 2356 introduced a solution to this problem, but only for handling coded ethnic groups. This solution also offers the option of mapping 1-n relationships.	
17		
18		
19	Since the VR of an existing element cannot be change, it is proposed to add a new optional data element with a longer VR of UC and which may be multi-valued, to provide the full description of ethnic groups based on the official tables in different languages.	
20		
21		
22		
23	Correction Wording:	

Amend DICOM PS3.3 as follows (changes to existing text are bold and underlined for additions and ~~struckthrough~~ for removals):

C.2.3 Patient Demographic Module

Table C.2-3. Patient Demographic Module Attributes

Attribute Name	Tag	Attribute Description
...		
Ethnic Group	(0010,2160)	Ethnic group or race of Patient.
Ethnic Group Code Sequence	(0010,2161)	Ethnic group or race of Patient. One or more Items are permitted in this Sequence.
>Include Table 8.8-1 "Code Sequence Macro Attributes"		BCID 6099 "Racial Group".
<u>Ethnic Groups</u>	<u>(0010,2162)</u>	<u>Ethnic group(s) or race(s) of Patient. One or more values may be present.</u> Note <u>This Attribute replaces the use of Ethnic Group (0010,2160), which is now retired. See DICOM PS3.3 2025a.</u>
...		

C.7.1.1 Patient Module

Table C.7-1. Patient Module Attributes

Attribute Name	Tag	Type	Attribute Description
...			
Ethnic Group	(0010,2160)	3	Ethnic group or race of the Patient.
Ethnic Group Code Sequence	(0010,2161)	3	Ethnic group or race of Patient. One or more Items are permitted in this Sequence.
>Include Table 8.8-1 "Code Sequence Macro Attributes"			BCID 6099 "Racial Group".
<u>Ethnic Groups</u>	<u>(0010,2162)</u>	<u>3</u>	<u>Ethnic group(s) or race(s) of Patient. One or more values may be present.</u> Note <u>This Attribute replaces the use of Ethnic Group (0010,2160), which is now retired. See DICOM PS3.3 2025a.</u>
...			

C.13.2 Basic Film Session Relationship Module

Table C.13-2. Basic Film Session Relationship Module Attributes

Attribute Name	Tag	Attribute Description
...		

Attribute Name	Tag	Attribute Description
Proposed Study Sequence	(2130,00A0)	Attributes that may be used to identify and describe the Patient, Study and Series that are the subject of this Film Session. Only a single Item is permitted in this Sequence.
...		
>Ethnic Group	(0010,2160)	See Section C.2.3 Patient Demographic Module for description.
>Ethnic Group Code Sequence	(0010,2161)	See Section C.2.3 Patient Demographic Module for description. One or more Items are permitted in this Sequence.
>>Include Table 8.8-1 "Code Sequence Macro Attributes"		BCID 6099 "Racial Group".
>Ethnic Groups	<u>(0010,2162)</u>	<u>See Section C.2.3 Patient Demographic Module for description.</u>
...		

Amend DICOM PS3.6 as follows (changes to existing text are bold and underlined for additions and ~~struckthrough~~ for removals):

6 Registry of DICOM Data Elements

Table 6-1. Registry of DICOM Data Elements

Tag	Name	Keyword	VR	VM	
(0010,2160)	<i>Ethnic Group</i>	<i>EthnicGroup</i>	SH	1	RET (2025a)
(0010,2161)	Ethnic Group Code Sequence	EthnicGroupCodeSequence	SQ	1	
<u>(0010,2162)</u>	<u>Ethnic Groups</u>	<u>EthnicGroups</u>	<u>UC</u>	<u>1-n</u>	

Amend DICOM PS3.15 as follows (changes to existing text are bold and underlined for additions and ~~struckthrough~~ for removals):

E.1.1 De-identifier

Table E.1-1. Application Level Confidentiality Profile Attributes

Attribute Name	Tag	Retd. (from PS3.6)	In Std. Comp. IOD (from PS3.3)	Basic Prof.	Rtn. Safe Priv. Opt.	Rtn. UIDs Opt.	Rtn. Dev. Id. Opt.	Rtn. Inst. Id. Opt.	Rtn. Pat. Chars. Opt.	Rtn. Long. Full Dates Opt.	Rtn. Long. Modif. Dates Opt.	Clean Desc. Opt.	Clean Struct. Cont. Opt.	Clean Graph. Opt.
Ethnic Group	(0010,2160)	NY	YN	X					K					
Ethnic Group Code Sequence	(0010,2161)	N	Y	X					K					
<u>Ethnic Groups</u>	<u>(0010,2162)</u>	<u>N</u>	<u>Y</u>	<u>X</u>					<u>K</u>					

Amend DICOM PS3.16 as follows (changes to existing text are bold and underlined for additions and ~~struckthrough~~ for removals):

TID 1007 Subject Context, Patient

Table TID 1007. Subject Context, Patient

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			UIDREF	EV (121028, DCM, "Subject UID")	1	U		E.g., SOP Instance UID of Detached Patient Instance
2			PNAME	EV (121029, DCM, "Subject Name")	1	MC	Required if not inherited.	Defaults to Value of Patient's Name (0010,0010) of the Patient Module
3			CODE	EV (121030, DCM, "Subject ID")	1	MC	Required if not inherited.	Defaults to Value of Patient ID (0010,0020) of the Patient Module
4			DATE	EV (121031, DCM, "Subject Birth Date")	1	U		Defaults to Value of Patient's Birth Date (0010,0030) of the Patient Module
5			CODE	EV (121032, DCM, "Subject Sex")	1	U		Defaults to value equivalent to Value of Patient's Sex (0010,0040) of the Patient Module D???
6			NUM	EV (121033, DCM, "Subject Age")	1	U		Defaults to value equivalent to Value of Patient's Age (0010,1010) of the Patient Study Module UNITS = D???
7			CODE	EV (121034, DCM, "Subject Species")	1	MC	Required if not inherited.	D??? Defaults to Value of Patient Species Code Sequence (0010,2202) of the Patient Module, or if absent, (337915000, SCT, "Homo sapiens").
8			CODE	EV (121035, DCM, "Subject Breed")	1	U		Defaults to Value of Patient Breed Code Sequence (0010,2293) of the Patient Module D???
9			CODE	EV (415229000, SCT, "Racial group")	1	U		Defaults to Value of Ethnic Group Code Sequence (0010,2161) of the Patient Module, or if absent, the coded equivalents of the text Values of Ethnic Group (0010,2160) Ethnic Groups (0010,2162) of the Patient Module, which is defined as " race or ethnic group ethnic group(s) or race(s) ", or if absent, the coded equivalent of the text Value of retired Ethnic Group (0010,2160) . B???

For reference unchanged, hyperlink targets:

8.8 Standard Attribute Sets for Code Sequence Attributes

Table 8.8-1. Code Sequence Macro Attributes