



## Standard Specification for Coded Values Used in the Electronic Health Record<sup>1</sup>

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### 1. Scope

1.1 This specification covers the identification of the lexicons to be used for the data elements identified in Appendix X1 of Guide E 1384. It is intended to unify the representations for: (1) primary record of care data elements, (2) the data elements identified in other standard statistical data sets, (3) data elements used in other healthcare data message exchange format standards, or (4) in data gathering forms for this purpose, and (5) in data derived from these elements in order that data recorded in the course of patient care be exchangeable and be the source of accurate statistical and resource management data. This specification is applicable to all paper and automated systems.

### 2. Referenced Documents

#### 2.1 ASTM Standards:

E 1238 Specification for Transferring Clinical Observations Between Independent Computer Systems<sup>2</sup>

E 1239 Guide for Description of Reservation/Registration—Admission, Discharge, Transfer (R-ADT) Systems for Automated Patient Care Information Systems<sup>2</sup>

E 1384 Guide for Content and Structure of the Electronic Health Record (EHR)<sup>2</sup>

E 1715 Practice for an Object-Oriented Model for Registration, Admitting, Discharge, and Transfer (RADT) Functions in Computer-Based Record Systems<sup>2</sup>

E 1744 Guide for View of Emergency Medical Care in the Computer-Based Patient Record<sup>2</sup>

#### 2.2 ANSI Standards:<sup>3</sup>

ANS X3.50 Representation of Date and Time

ANS X3.51 Representation of Common Units

#### 2.3 ISO Standards:<sup>3</sup>

ISO 639 Names of Languages

ISO 2955 Representation of SI Units

ISO 3166 Names of Countries

ISO 5218 Representation of Human Sexes

ISO 8601 Representation Dates

#### 2.4 Other Standards:

HL-7 Health Industry Level 7 Interface Standards<sup>4</sup>

### 3. Terminology

#### 3.1 Acronyms: Acronyms:

3.1.1 NCHS—National Center for Health Statistics

3.1.2 NCVHS—National Committee for Vital and Health Statistics

3.1.3 NOS—not otherwise specified

### 4. Significance and Use

4.1 *Purpose*—The approval of Guide E 1384, concerned with the structure and content of the computer-based patient record, now includes a formal indexing of data elements and a cataloging of the minimal essential value set for these elements. Indexing of these data elements with a unique identifier keyed to its position in the logical structure of Appendix X1 of Guide E 1384 now provides a means of cataloging the value sets representing each data element (see Guide E 1384). Specification E 1238, coordinated with Guide E 1239, describes conventions for representing many of the data values for data elements that are included in the more comprehensive listing in Guide E 1384. A comprehensive listing of all of the value sets associated with Guide E 1384 has not yet been assembled. This specification begins to catalog the representation conventions for a number of these elements and in particular to list the coded values. It is important that this catalog consider the traditionally assigned representations for each of these elements, and it must resolve differences in a manner that introduces systematics and consistency into the representation. The catalog must establish both a global framework consistent with international standardization and with long-term growth, while at the same time maximizing familiar or traditional representations. This standard has been developed with input from many organizations, including government agencies and other standards bodies and professional

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<sup>2</sup> Annual Book of ASTM Standards, Vol 14.01.

<sup>3</sup> Available from American National Standards Institute, 11 W. 42nd St., 13th Floor, New York, NY 10036.

<sup>4</sup> Available from Health Level 7, Mark McDougall, Executive Director, 900 Victors Way, Suite 122, Ann Arbor, MI 48108.

associations, and as a result of the effort to achieve consistency and comprehensiveness among the data dealt with by various standards efforts.

4.2 *General Values*—Early in the coordination of healthcare information standards an informal body, the Healthcare Information Standards Coordinating Committee (HISCC), identified certain common data element types and agreed upon conventions for representing these data element types in a standard manner. This set the stage for the development of the value sets for the CODED VALUE data type. The status of the standard noncoded data types, and their representations, agreed upon by the HISCC are:

4.2.1 *Person Names*—Specification **E 1238**, Guide **E 1239** and **HL-7** use the same representation for American and European forms.

4.2.2 *Addresses*—Common format in Specification **E 1238** and Guide **E 1239**.

4.2.3 *Telephone Numbers*—Specification **E 1238** and Guide **E 1239** currently use the same representation with area code enclosed in parentheses and country code preceding the parentheses.

4.2.4 *Dates*—Date and time represented as **ANS X3.51-1986/ISO 8601-1988** with years in four digits; time not separated from date by “T” as permitted by **ISO 8601**.

4.2.5 *Numbers*—Numbers are represented either as integers or fixed point numbers; exponential notation not presently accepted in Specification **E 1238**, Guide **E 1239**, or **HL-7**. Units of Measure by **ISO 2955-1983** or **ANS X3.50-86**.

4.2.6 *Strings*—7-bit ASCII characters; multilingual character sets not yet defined.<sup>5</sup>

## 5. Assignment of Coded Values

5.1 The major important data elements in Guide **E 1384** having coded data types and the current status of the cataloging of their values are:

01035	Patient Multiple Birth code (5.2.23)
01040	Sex (5.2.20)
01042	Race (5.2.3)
01045	Ethnicity (5.2.4)
01047	Religion (5.2.7)
01052	Marital status (5.2.2)
01055	Nationality/Country of Origin (5.2.6)
01057	Language (5.2.5)
01060	Educational Level (5.2.8)
	Educational Certification (5.2.9)
01062	Current Work Status (5.2.24)
01065	Occupation (5.2.11), also 01070,01090.03
01067	Current Vocational Status (5.2.25)
01085	Usual Living arrangement (5.2.26)
01099	Foreign Residency Code (5.2.27)
01090.03	Family Relationship (5.2.10)
01155	Color Eyes (5.2.38)
01160	Color Hair (5.2.39)
01175	Body Build for Identification (5.2.40)
02052	Durable Power of Attorney Status (5.2.28)
04001.50	Professional Specialty (5.2.16)
09001.12	Body System/Region (5.2.22)
14001.A002	Patient (Encounter) Type/Admission Source (5.2.17)
14001.A004	Confidentiality Status (5.2.1)
14001.A013	Facility Care/Healthcare setting (5.2.18)
14001.A016	Reason for Visit (5.2.19)

14001.A021	Mode of Arrival (5.2.29)
14001.A030	Nature of Injury (5.2.30)
14001.A033	Mode of Injury (5.2.31)
14001.A034	Product of Injury (5.2.37)
14001.A044	Protective Equipment Used (5.2.32)
14001.A063	Patient Admission Type (5.2.12)
14001.A110	Professional Speciality (5.2.16)
14001.A133	Accommodation type (5.2.15)
14001.A163.01	Patient In-residence Transfer Type (5.2.13)
14001.A170	Diagnosis (5.2.33)
14001.A170.01	Diagnosis Type (5.2.34)
14001.A170.02	Diagnosis Status Code (5.2.35)
14001.A186.01	Current Clinical Status (5.2.36)
14001.A223	Source of Payment Code (5.2.21)
14001.F050	Discharge Disposition Category (5.2.14)

This standard identifies the current value list for each of these elements as of the approval date of this standard (see footnote 1) and states the evolving status of this catalog as the knowledge of the use of these elements expands as a result of ongoing investigation. Each element is identified by the index assigned to it in the revised Appendix X1 of Guide **E 1384**. Moreover, the definition for that element from the Data Element Catalog (5) is included with the value set.

5.2 *Value Set Tables*—These tables collect the representation of coded data values for specific data elements in computer-based patient record structures identified in Appendix X1 of Guide **E 1384**. The terms listed here are the minimal essential ones but may be further subclassified to include more specific terms by appropriate extensions of the included terms.

5.2.1 *Confidentiality Status*—This data element, Index: 14001.A004, contains the minimal commonly used values appearing in both manual and automated systems. See Specification **E 1238**.

Unwed mother	UWM
Celebrity	VIP
Psychiatric patient	PSY
Employee	EMP
AIDS patient	AID
HIV patient	HIV
Alcohol/Drug patient	ETH
Usual control	U
Restricted	R
Very restricted	V

5.2.2 *Marital Status*—This data element, Index: 01052, encompasses the values noted by Westermeyer (6), Bureau of Census, the VA DHCP system, the DoD CHCS system, the X12 835 Transaction Set (7), UB-82 (8), and used in common practice.

Never married	B
Single	S
Married	M
Divorced	D
Divorced/annulled	L
Divorced/separated	H
Annulled	N
Widowed	W
Separated, NOS	A
Separated, legal	E
Separated, nonlegal	K
Marriage, separation, temporary absence	X
Marriage, separation, permanent absence	V
Consensual union	J
Unknown	U
Common Law	C
Domestic Partner	P
Registered Domestic Partner	R
Living together	G
Interlocutory	I

<sup>5</sup> The boldface numbers in parentheses refer to the list of references at the end of this standard.

Other  
Unreported

O  
T

5.2.3 *Race*—This data element, Index: 01042, indicates the region of the world from which the patient’s ancestors came. This is a biologic attribute that very generally indicates possible biologic diversity to which the patient might be subject. Due to ambiguity inherent in the diversity of the large number of inherited attributes which might characterize such ancestry, other data elements of the care record will be required to assign meaning to the value set recorded for this attribute. Therefore, utilization of these other attributes is strongly recommended. Currently, to be consistent with census data, the six values given in OMB Directive 15 are recommended.

American Indian/Alaska Native	1002-5
Asian	2028-9
Black	2054-5
Hawaiian/Pacific Islander	2076-8
White	2106-3
Other	2131-3

5.2.4 *Ethnicity*—In keeping with current demographic practice, this data element, Index: 01045, reflects the ethnic cultural group with which the patient identifies. Multiple selections may be made. Each value has associated with it an ancestral cultural origin tag that is most closely associated with the ancestral geographic origin of that cultural pattern. This tag does not signify the ancestral biologic characteristics of the individual which is recorded in other data elements of the record. See Fig. 1.

5.2.5 *Language*—This data element, Index 01058, is specified by the two character lower case code in ISO 639 Table 1. The upper case three character code, now in ISO balloting may be added in a future revision of this specification. The language symbol only is shown here, but an original name and French language name are available (see Fig. 2 for list).

5.2.6 *Nationality/Country of Origin*—This data element, Index: 01055, Citizenship, is specified by ISO 3166. The two letter codes are shown here. A three letter and a numeric code exists for each entry. New entries may be added in the future.

AFG	AF	AFGHANISTAN
ALB	AL	ALBANIA
DZA	DZ	ALGERIA
ASM	AS	AMERICAN SAMOA
AND	AD	ANDORRA
AGO	AO	ANGOLA
	AI	ANGUILLA
ATA	AQ	ANTARCTICA
ATG	AG	ANTIGUA AND BURBUDA
ARG	AR	ARGENTINA
ARM		ARMENIA
ABW	AW	ARUBA
AUS	AU	AUSTRALIA
AUT	AT	AUSTRIA
AZE		AZERBAIJAN
BHS	BS	BAHAMAS
BHR	BH	BAHRAIN
BGD	BD	BANGLADESH
BRB	BB	BARBADOS
BLR		BELARUS
BEL	BE	BELGIUM
BLZ	BY	BELIZE
BEN	BJ	BENIN
BMU	BM	BERMUDA
BTN	BT	BHUTAN
BOL	BO	BOLIVIA
BIH		BOSNIA HERZOGOVINA

BWA	BW	BOTSWANA
BVT	BV	BOUVET ISLAND
BRA	BR	BRAZIL
IOT	IO	BRITISH INDIAN OCEAN TERRITORY
		BRUNEI DARUSSALAM
BRN	BN	BULGARIA
BGR	BG	BURKINA FASO
BFA	BF	BURMA/MYANMAR
MMR	BU	BURUNDI
BDI	BI	CAMBODIA
KAM	KH	CAMEROON
CMR	CM	CANADA
CAN	CA	CAPE VERDE
CPV	CV	CAYMAN ISLANDS
KY		CENTRAL AFRICAN REPUBLIC
CAF		CHAD
		CHILE
TCD	TD	CHINA
CHL	CL	CHRISTMAS ISLAND
CHN	CN	COCOS (KEELING) ISLANDS
CXR	CX	COLUMBIA
CCK	CC	COMOROS
		CONGO (FORMERLY ZAIRE)
COL	CO	CONGO, DEMOCRATIC REPUBLIC OF
COG	KM	COOK ISLANDS
	CG	COSTA RICA
COD		COTE D'IVOIRE
		CROATIA
COK	CK	CUBA
CRI	CR	CYPRUS
CIV	CI	CZECH REPUBLIC
HRV		DENMARK
CUB	CU	DJIBOUTI
CYP	CY	DOMINICA
CZE	CS	DOMINICAN REPUBLIC
DNK	DK	EAST TIMOR
DJI	DJ	ECUADOR
DMA	DM	EGYPT
DOM	DO	EL SALVADOR
TMP	TP	EQUATORIAL GUINEA
ECU	EC	ESTONIA
EGY	EG	ETHIOPIA
SLV	SV	FALKLAND ISLANDS
GNQ	GQ	FAROE ISLANDS
EST		FIJI
ETH	ET	FINLAND
FLK	FK	FRANCE
FRO	FO	FRENCH GUYANA
FJI	FJ	FRENCH POLYNESIA
FIN	FI	FRENCH SOUTHERN TERRITORIES
FRA	FR	GABON
GUF	GF	GAMBIA
PYF	PF	GERMANY, FEDERAL REPUBLIC OF
AFT	TF	GHANA
		GIBRALTAR
GAB	GA	GREECE
GMB	GM	GREENLAND
DEU	DE	GRENADA
		GUADALOUPE
GHA	GH	GUAM
GIB	GI	GUATEMALA
GRC	GR	GUINEA
GR		GUINEA-BISSAU
GRL	GL	GUYANA
GRD	GD	HAITI
GLP	GP	HEARD AND MCDONALD ISLANDS
GUM	GU	HONDURAS
GTM	GT	HONG KONG
GIN	GN	
GNB	GW	
GUY	GY	
HTI	HT	
HMD	HM	
HND	HN	
HKG	HK	

HUN	HU	HUNGARY	PCN	PN	PITCAIRN
ISL	IS	ICELAND	POL		POLAND
IND	IN	INDIA	PRT	PT	PORTUGAL
IDN	ID	INDONESIA	PRI	PR	PUERTO RICO
IRN	IR	IRAN	QAT	QA	QATAR
IRQ	IQ	IRAQ	REU	RE	REUNION
IRL	IE	IRELAND	ROM	RO	ROMANIA
ISR	IL	ISRAEL	RUS		RUSSIAN FEDERATION
ITA	IT	ITALY	RWA	RW	RWANDA
JAM	JM	JAMAICA	KNA	KN	SAINT KITTS AND NEVIS
JPN	JP	JAPAN	LCA	LC	SAINT LUCIA
JOR	JO	JORDAN	VCT	VC	SAINT VINCENT AND THE GRENADINES
KAZ		KAZAKSTAN			SAMOA
KEN	KE	KENYA	WSM	WS	SAN MARINO
KIR	KI	KIRIBATI	SMR	SM	SAO TOME AND PRINCIPE
PRK	KP	KOREA, DEMOCRATIC PEOPLES REPUB	STP	ST	SAUDIA ARABIA
KOR	KR	KOREA, REPUBLIC OF	SAU	SA	SENEGAL
KWT	KW	KUWAIT	SEN	SN	SEYCHELLES
KGZ		KYRGYZSTAN	SYC	SC	SIERRA LEONE
LAO	LA	LAO PEOPLES DEMO- CRATIC REPUB	SLE	SL	SINGAPORE
LVA		LATVIA	SGP	SG	SLOVAKIA
LBN	LB	LEBANON	SVK		SLOVENIA
LSO	LS	LESOTHO	SVN		SOLOMON ISLANDS
LBR	LR	LIBERIA	SLB	SB	SOMALIA
LBY	LY	LIBYAN ARAB JAMAHIR- IYA	SOM	SO	SOUTH AFRICA
LIE	LI	LIECHTENSTEIN	ZAF	ZA	SOUTH GEORGIA AND SOUTH SANDWICH IS
LTU		LITHUANIA	SGS		SPAIN
LUX	LU	LUXEMBOURG	ESP	ES	SRI LANKA
MAC		MACAO	LKA	LK	ST HELENA
	MO	MACAW	SHN	SH	ST PIERRE AND MILQUELON
MKD		MACEDONIA, FORMER YUGOSLAV REPUBLIC	SPM	PM	SUDAN
MDG	MG	MADAGASCAR	SDN	SD	SURINAM
MWI	MW	MALAWI	SUR	SR	SVALBARD AND JAN
MYS	MY	MALAYSIA	SJM	SJ	MAYEN IS
MDV	MV	MALDIVES	SWZ	SZ	SWAZILAND
MLI	ML	MALI	SWE	SE	SWEDEN
MLT	MT	MALTA	CHE	CH	SWITZERLAND
MHL	MH	MARSHALL ISLANDS	SYR	SY	SYRIAN ARAB REPUB- LIC
MTQ	MQ	MARTINIQUE			TAIWAN, PROVINCE OF CHINA
MRT	MR	MAURITANIA	TWN	TW	TAJIKISTAN
MUS	MU	MAURITIUS			TANZANIA, UNITED RE- PUBLIC OF
MYT		MAYOTTE	TJK		THAILAND
MEX	MX	MEXICO	TZA	TZ	TOGO
FSM	FM	MICRONESIA			TOKELAU
MCO	MC	MONACO	THA	TH	TONGA
	MN	MONGOLIA	TGO	TG	TRINIDAD AND TOBAGO
MSR	MS	MONTSERRAT	TKL	TK	TUNISIA
MAR	MA	MOROCCO	TON	TO	TURKEY
MOZ	MZ	MOZAMBIQUE	TTO	TT	TURKMENISTAN
NAM	NA	NAMIBIA	TUN	TN	TURKS AND CAICOS IS- LANDS
NRU	NR	NAURU	TUR	TR	TUVALU
NPL	NP	NEPAL	TKM		UGANDA
NLD	NL	NETHERLANDS	TCA	TC	UKRAINE
ANT	AN	NETHERLANDS ANTI- LLES	TUV	TV	UNITED ARAB EMIR- ATES
	NT	NEUTRAL ZONE	UGA	UG	UNITED KINGDOM
NCL	NC	NEW CALEDONIA	UKR	UA	UNITED STATES
NZL	NZ	NEW ZEALAND	ARE	AE	UNITED STATES MINOR OUTLYING ISLANDS
NIC	NI	NICARAGUA			URUGUAY
NER	NE	NIGER	GBR	GB	USSR
NGA	NG	NIGERIA	USA	US	UZBEKISTAN
NIU	NU	NIUE	UMI	UM	VANUATU
NFK	NF	NORFOLK ISLAND			VATICAN CITY STATE (HOLY SEE)
MNP	MP	NORTHERN MARIANAS	URY	UY	VENEZUELA
NOR	NO	NORWAY		SU	VIET NAM
OMN	OM	OMAN	UZB	VE	VIRGIN ISLANDS, BRIT- ISH
PAK	PK	PAKISTAN	VUT	VU	
PLW	PW	PALAU	VAT	VA	
PAN	PA	PANAMA			
PNG	PG	PAPUA NEW GUINEA	VEN	VE	
PRY	PY	PARAGUAY	VNM	VN	
PER	PE	PERU	VGB	VG	
PHL	PH	PHILIPPINES			





VIR	VI	VIRGIN ISLANDS,US
WLF	WF	WALLACE AND FUTUNA ISLANDS
ESH	EH	WESTERN SAHARA
YEM	YE	YEMEN
YD		YEMEN,DEMOCRATIC
YUG	YU	YUGOSLAVIA
ZR		ZAIRE
ZMB	ZM	ZAMBIA
ZWE	ZW	ZIMBABWE

COI	CHURCH OF GOD IN CHRIST
CGN	CHURCH OF GOD IN NORTH AMERICA
CGP	CHURCH OF GOD OF PROPHECY
CGI	CHURCH OF GOD(ANDERSON,IN)
CGT	CHURCH OF GOD(CLEVELAND,TN)
MOM	CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS-LDS
REO	CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS REORGANIZED
NAZ	CHURCH OF THE NAZARENE
CUB	CHURCH OF THE UNITED BRETHERN IN CHRIST
CHC	CHURCHES OF CHRIST
CCU	CHURCHES OF CHRIST IN CHRISTIAN UNION
CGE	CHURCHES OF GOD GENERAL CONFERENCE
CNF	CONFUCIAN
CMC	CONGREGATIONAL METHODIST CHURCH
CEC	CONGREGATIONAL:EVANGELICAL CONGREGATIONAL CHURCH
CCC	CONSERVATIVE CONGREGATIONAL CHRISTIAN CONFERENCE
ELF	ELIM FELLOWSHIP
ELA	ELIM MISSIONARY ASSEMBLIES
EPI	EPISCOPAL,NOS
EPE	EPISCOPAL:PROTESTANT EPISCOPAL CHURCH
ERC	EPISCOPAL:REFORMED EPISCOPAL CHURCH
ERL	ETHNIC RELIGIONIST
ECA	EVANGELICAL CHURCH ALLIANCE
ECN	EVANGELICAL CHURCH OF NORTH AMERICA
ECC	EVANGELICAL COVENANT CHURCH IN AMERICA
EFC	EVANGELICAL FREE CHURCH OF AMERICA
FRQ	FRIENDS
FRA	FRIENDS:EVANGELICAL FRIENDS ALLIANCE
FRK	FRIENDS:KANSAS YEARLY MEETING OF FRIENDS
FRO	FRIENDS:OHIO YEARLY MEETING OF FRIENDS
GCC	GENERAL COMMISSION ON CHAPLAINS & ARMED FORCES PERSONNEL
GCB	GENERAL CONFERENCE OF THE BRETHREN CHURCH
GGF	GRACE GOSPEL FELLOWSHIP
HIN	HINDU
HOT	HINDU,OTHER
HSH	HINDU,SHAVIVITES
HVA	HINDI,VAISHNAVITES
ICA	INDEPENDENT CHURCHES AFFILIATED
IDE	INDEPENDENT DENOMINATIONAL ENDORSING AGENCIES
IFB	INDEPENDENT FUNDAMENTAL BIBLE CHURCHES
IFC	INDEPENDENT FUNDAMENTAL CHURCHES OF AMERICA
ICF	INTERNATIONAL CHURCH OF THE FOURSQUARE GOSPEL
JAI	JAIN
JWN	JEHOVAH'S WITNESSES
JCO	JUDAISM,CONSERVATIVE
JEW	JUDAISM,NOS
JOR	JUDAISM,ORTHODOX
JOT	JUDAISM,OTHER
JRC	JUDAISM,RECONSTRUCTIONIST
JRF	JUDAISM,REFORMED
JRN	JUDAISM,RENEWAL
LCA	LUTHERAN CHURCH IN AMERICA
LMS	LUTHERAN CHURCH-MISSOURI SYNOD
LCH	LUTHERAN CHURCHES
LCU	LUTHERAN COUNCIL IN THE USA
LUA	LUTHERAN,AMERICAN
LUT	LUTHERAN,NOS
LEC	LUTHERAN:EVANGELICAL LUTHERAN CHURCHES,ASSOCIATION OF
FLG	LUTHERAN:FREE LUTHERAN CONGREGATIONS, THE ASSOCIATION OF
LIC	LUTHERAN:INDEPENDENT LUTHERAN CHURCHES
MEN	MENNONITE
MET	METHODIST CHURCHES
MPC	METHODIST PROTESTANT CHURCH
AMT	METHODIST:AFRICAN METHODIST EPISCOPAL CHURCH
AME	METHODIST:AFRICAN METHODIST EPISCOPAL ZION CHURCH
MEC	METHODIST:CHRISTIAN METHODIST EPISCOPAL CHURCH
MEV	METHODIST:EVANGELICAL METHODIST CHURCH
MEA	METHODIST:EVANGELICAL METHODIST CHURCH OF AMERICA
MFR	METHODIST:FREE METHODIST CHURCH OF NORTH AMERICA
MFM	METHODIST:FUNDAMENTAL METHODIST CHURCH INC
MPM	METHODIST:PRIMITIVE METHODIST CHURCH

5.2.7 Religion—This data element, Index: 01047, includes values assembled for the United States by the Dept. of Defense, the Dept. of Veterans Affairs, the Bureau of Census, and the NCVHS. It includes terms of general category as well as more specific classifications of religious denominators.

ADC	ADVENT CHRISTIAN CHURCH
AGN	AGNOSTIC
ACC	AMERICAN COUNCIL OF CHRISTIAN CHURCHES
ANG	ANGLICAN ORTHODOX CHURCH
ASB	ASBURY BIBLE CHURCHES
AOG	ASSEMBLIES OF GOD
AGC	ASSOCIATED GOSPEL CHURCHES
ATH	ATHEIST
BAH	BAHAI
BBF	BAPTIST BIBLE FELLOWSHIP
BAO	BAPTIST CHURCHES,OTHER
BAG	BAPTIST GENERAL CONFERENCE
BAM	BAPTIST MISSIONARY ASSOCIATION OF AMERICA
ABA	BAPTIST,AMERICAN BAPTIST ASSOCIATION
ABC	BAPTIST,AMERICAN BAPTIST CHURCHES
ABU	BAPTIST,AMERICAN BAPTIST CHURCHES IN THE USA
ABN	BAPTIST,AMERICAN BAPTIST CONVENTION
CBA	BAPTIST,CONSERVATIVE BAPTIST ASSOCIATION OF AMERICA
BAP	BAPTIST:NOS
FWB	BAPTIST:FREE WILL BAPTISTS
BFN	BAPTIST:FREE WILL BAPTISTS,NC STATE CONVENTION OF
BAA	BAPTIST:GENERAL ASSOCIATION OF GENERAL BAPTISTS
BAR	BAPTIST:GENERAL ASSOCIATION OF REGULAR BAPTIST CHURCHES
BAI	BAPTIST:INDEPENDENT BAPTIST CHURCHES
BIB	BAPTIST:INDEPENDENT BAPTIST MISSION
BFW	BAPTIST:NATIONAL ASSOCIATION OF FREE WILL BAPTISTS
BNC	BAPTIST:NATIONAL BAPTIST CONVENTION OF AMERICA
BNU	BAPTIST:NATIONAL BAPTIST CONVENTION,USA,INC
BNA	BAPTIST:NORTH AMERICAN BAPTIST CONFERENCE
BPN	BAPTIST:PROGRESSIVE NATIONAL BAPTIST CONVENTION,INC
BGG	BAPTIST:SEVENTH DAY BAPTIST GENERAL CONFERENCE
SOU	BAPTIST:SOUTHERN BAPTIST CONVENTION
BUE	BAPTIST:SOUTHWIDE BAPTIST FELLOWSHIP
BUE	BAPTIST:UKRANIAN EVANGELICAL BAPTIST CONFERENCE
BWB	BAPTIST:WORLD BAPTIST FELLOWSHIP
BPC	BIBLE PROTESTANT CHURCH
BRC	BRETHREN CHURCH
BCF	BRETHREN IN CHRIST FELLOWSHIP
BUD	BUDDHISM
BMA	BUDDHIST,MAHAYANA
BOT	BUDDHIST,OTHER
BTA	BUDDHIST,TANTRAYANA
BTH	BUDDHIST,THERAVADA
LCC	CATHOLIC:LIBERAL CATHOLIC CHURCH
CAT	CATHOLIC:ROMAN CATHOLIC CHURCH
CBC	CENTRAL BIBLE CHURCH
CFR	CHINESE FOLK RELIGION
CMA	CHRISTIAN AND MISSIONARY ALLIANCE
CCH	CHRISTIAN CHURCH(DISCIPLES OF CHRIST)
CCA	CHRISTIAN CHURCHES AND CHURCHES OF CHRIST
COM	CHRISTIAN COMMUNITY
CCR	CHRISTIAN CRUSADE
CRR	CHRISTIAN REFORMED CHURCH
CHS	CHRISTIAN SCIENCE
COT	CHRISTIAN,OTHER
CHR	CHRISTIAN-NO DENOMINATIONAL PREFERENCE
COC	CHURCH OF CHRIST
COG	CHURCH OF GOD
CGG	CHURCH OF GOD GENERAL CONFERENCE



MPU	METHODIST:PRIMITIVE METHODIST CHURCH USA
MSC	METHODIST:SOUTHERN METHODIST CHURCH
WMC	METHODIST:THE WESLEYAN CHURCH
UMD	METHODIST:UNITED METHODIST CHURCH
MBC	MILITANT FUNDAMENTAL BIBLE CHURCHES
MCA	MISSIONARY CHURCH ASSOCIATION
MCT	MISSIONARY CHURCH,THE
MOC	MORAVIAN CHURCH
MOS	MUSLIM,NOS
MOT	MUSLIM,OTHER
MSH	MUSLIM,SHIITE
MSU	MUSLIM,SUNNI
NAC	NATIONAL ASSOCIATION OF CONGREGATIONAL CHRISTIAN CHURCHES
NAE	NATIONAL ASSOCIATION OF EVANGELICALS
NFB	NATIONAL FELLOWSHIP OF GRACE BRETHERN CHURCHES
NAM	NATIVE AMERICAN
NRL	NEW RELIGIONIST
NPR	NO PREFERENCE RECORDED
NOE	NO RELIGIOUS PREFERENCE
OBS	OPEN BIBLE STANDARD CHURCHES,INC
OCA	ORTHODOX CHURCH IN AMERICA
EOT	ORTHODOX,EASTERN CHURCHES,NOS
GRE	ORTHODOX,GREEK
ORT	ORTHODOX,NOT SPEC
ORR	ORTHODOX,RUSSIAN
OTH	OTHER RELIGIONS
PEG	PENTECOSTAL CHURCH OF GOD OF AMERICA,INC
PEC	PENTECOSTAL CHURCHES
PEH	PENTECOSTAL HOLINESS CHURCH
PEN	PENTECOSTAL,NOS
COP	PENTECOSTAL,OTHER
PEF	PENTECOSTAL:FULL GOSPEL PENTECOSTAL ASSOCIATION
PEU	PENTECOSTAL:UNITED PENTECOSTAL CHURCH,INTERNATIONAL
PLB	PLYMOUTH BRETHREN
PCA	PRESBYTERIAN CHURCH IN AMERICA
PRU	PRESBYTERIAN CHURCH IN THE UNITED STATES
PCH	PRESBYTERIAN CHURCHES
PCC	PRESBYTERIAN COUNCIL FOR CHAPLAINS AND MILITARY PERSONNEL
ARP	PRESBYTERIAN,ASSOCIATED REFORMED PRESBYTERIAN CHURCH
PBP	PRESBYTERIAN:BIBLE PREBYTERIAN CHURCH
PCU	PRESBYTERIAN:CUMBERLAND PRESBYTERIN CHURCH
PRE	PRESBYTERIAN:NOS
PRP	PRESBYTERIAN:ORTHODOX PRESBYTERIAN CHURCH
PRV	PRESBYTERIAN:REFORMED PRESBYTERIAN CHURCH,EVANGELICAL SYNOD
PUS	PRESBYTERIAN:UNITED PRESBYTERIAN CHURCH IN THE USA
PEU	PRESBYTERIAN:UNITED PRESBYTERIAN CHURCH,EVANGELICAL SYNOD
PRC	PROTESTANT,OTHER CHURCHES
PRO	PROTESTANT-NO DENOM PREF
RCA	REFORMED CHURCH IN AMERICA
RCU	REFORMED CHURCH IN THE UNITED STATES
REC	REFORMED CHURCHES
RLD	REORGANIZED CHURCH OF JESUS OF LATTER DAY SAINTS
SAA	SALVATION ARMY
SCG	SCHWENKENSFELDER CHURCHES,THE GENERAL CONFERENCE OF
SEV	SEVENTH DAY ADVENTIST
SHN	SHINTOIST
SIK	SIKH
SPI	SPIRITIST
SWC	THE SWEDENBORGIAN CHURCH,GENERAL CONFERENCE OF
TRC	TIOGA RIVER CHRISTIAN CONFERENCE
UNU	UNITARIAN UNIVERSALIST ASSOCIATION
UNI	UNITARIAN,NOS
UCH	UNITED CHRISTIAN CHURCH
VAR	UNKNOWN
WES	WESLEYAN

5.2.8 Educational Level—This data element, Index: 01060, is stated such that the general level and year within that level is expressed in a way that comparably reflects the educational practice in most national settings.

- E1 to E8 Elementary
- S1 to S4 Secondary
- C1 to C5 College Baccalaureate
- P1 to P9 Professional

5.2.9 Educational Certification—This data element reflects the Certification of Educational Experience for credentialing of healthcare practitioners. It reflects the terminology used by the Dept. of Veterans Affairs, the Dept. of Defense, and state licensing agencies.

- High School Attendance Certificate
- Less Than High School Diploma
- Certificate of High School Equivalent
- High School Diploma
- 1st Yr College Level Certificate
- College Certificate of Attendance
- Associate Degree
- College Certificate of Completion
- Professional Nursing Diploma
- Baccalaureate
- First Professional Degree
- Masters
- Post Masters
- Doctorate

5.2.10 Family Relationship—This data element, Index: 01090.03, is used to reflect the relationship of a family member, or other person, to the patient. It includes the values used by the Dept. of Veterans Affairs, Dept. of Defense, ANSI X12 835 Transaction Set, UB-82 (8), and the NCVHS data sets.

Self	SEL
Adopted son	ASN
Adopted daughter	ADT
Aunt	AUN
Brother	BRO
Brother-in-law	BIL
Cousin	COU
Natural child	NCH
Child	CHD
Son	SON
Daughter	DGT
Daughter-in-law	DIL
Father-in-law	FIL
Foster child	FCH
Grandparent	GRP
Grandfather	GRF
Grandmother	GRM
Grandchild	GCH
Granddaughter	GDT
Grandson	GSN
Great grandfather	GGF
Great grandmother	GGM
Half brother	HBR
Half sister	HSI
Parent	PAR
Father	FTH
Mother	MTH
Mother-in-law	MIL
Nephew	NEP
Niece	NIE
Sister	SIS
Sister-in-law	SIL

Son-in-law	SOL
Stepchild	SCH
Stepbrother	SBR
Stepdaughter	SDG
Stepsister	SSI
Stepson	SSO
Uncle	UNC
Unrelated friend	FND
Ward	WRD
Spouse	SPO
Husband	HUS
Wife	WIF
Unknown	UNK
None	NON
Other	OTH
Associate	ASC
Caregiver	CGV
Life partner	DOM
Emergency contact	EMC
Employee	EME
Employer	EMR
Extended family	EXF
Guardian	GRD
Manager	MGR
Other adult	OAD
Trainer	TRA

Follow-up: Admit to Residential Care Facility  
 Follow-up: Other  
 Follow-up: Refer to Adjunct Provider Agency  
 Follow-up: Refer to Consulting Provider  
 Follow-up: Refer to Other Provider  
 Follow-up: Returned to Referring Provider  
 Follow-up: Scheduled  
 Follow-up: Telephone  
 Follow-up: Transferred to Another Provider  
 Follow-up: Not Scheduled  
 Left Against Medical Advice (AMA)  
 Medevac  
 No Follow-up  
 Routine Discharge to Home

**5.2.11 Occupation**—This data element, Indices: 01065.—Current Occupation, 01070.—Previous Occupations and 0.1090.23—Family Member Occupation, reflects the terms used in the Standard Occupational Classification 1996 (2), those used in the U.S. 1990 Census (1) and those in the ILO list of International Standard Classification of Occupations 1968 (ISCO-68) incorporated into SNOMED (3). ISCO – 88 includes a four digit code that is the basis for several national systems for classifying occupations. SNOMED-III, released in 1993, continues to use ISCO-68. This scheme also includes terms from the Occupation Employment Survey (2) which is being incorporated into the new classification by the US Dept. of Labor, Bureau of Labor Statistics beginning in 1997 replacing older schemes. The terms listed here from that new scheme have been cross referenced to these older schemes in coordination with the US Dept. of Labor. The new vocabulary is intended to be able to also relate health care resource management issues to the labor market. See Fig. 3.

**5.2.12 Patient Admission Type**—This data element, Index: 14001.A063, is used to categorize the type of inpatient encounter but is not used for other encounter types.

Admission, pre-admit (elective)  
 Admission, walk-in (urgent)  
 Admission, emergency room  
 Admission, referred  
 Newborn

**5.2.13 Patient Transfer Type**—This data element: Index: 14001.A163.01, is used to characterize the movement of inpatients either physically or administratively between nursing units.

Inter Clinical Care Unit  
 Inter Clinical Service

**5.2.14 Discharge Disposition**—This data element, Index: 14001.F050, is the general nature of the activity to which the patient is consigned following the encounter, either inpatient or ambulatory. A separate data element contains the specific name of the destination.

Acute Care Facility  
 Expired

**5.2.15 Accommodation Type**—This data element, Index: 14001.A133, denotes the clinical service, or organizational unit dedicated to a particular professional specialty or orientation, to which the patient is assigned and is responsible for that patient’s care.

**5.2.16 Professional Specialty**—This data element, Index: 04001.50, is the nature of the professional specialties held by a practitioner and include the terms used by the ANSI X12835 Transaction Set (7), UB-82 (8), the American Medical Association, American Dental Association, the American Nurses Association, and other professional bodies providing licensed or certified practitioners. This list (see Fig. 4 for list) may not be complete and may also be included with the Standard Occupational Classification system noted above as extensions to the scheme. At this time, however, it is presented separately until agreement on such an approach is reached.

**5.2.17 Patient Type**—This data element, Index: 14001.A002, reflects the type of the patient presenting for an encounter in terms of the nature of services to be provided. It includes the categorizations used in the NCVHS Standard data sets.

Emergency: NOS  
 Emergency Trauma Level 1  
 Emergency Trauma Level 2  
 Emergency Trauma Level 3  
 Emergency Trauma Level 4  
 Inpatient: Acute Care Hospital  
 Inpatient: Long Term Care Hospital  
 Inpatient: NOS  
 Inpatient: Skilled Nursing Facility  
 Inpatient: Pre-admit  
 Outpatient: Clinic  
 Outpatient: Hospital  
 Outpatient: NOS  
 Outpatient: Private Practice  
 Home Health: NOS

**5.2.18 Facility Type/Healthcare Setting**—This data element, Index: 14001.A013, categorizes the healthcare setting provided by the facility at which the encounter occurs. It reflects the terminology used in the NCHS Standard data sets and that in Guide E 1384, which contains all of these categories (see Fig. 5 for list).

**5.2.19 Reason for Visit**—This data element, Index: 14001.A016, reflects the reason the patient sought the services of a healthcare provider.

NCHS Reason for Visit list (4)

**5.2.20 Sex**—This data element, Index: 01040, uses the ISO 5218 terminology.

Female F  
 Male M

Unknown	U	Musculoskeletal, Spine
Male Pseudohermaphrodite	MP	Neurologic, Central
Female Pseudohermaphrodite	FP	Neurologic, NOS
Hermaphrodite	H	Neurologic, Peripheral
Male changed to Female	MC	Psychiatric
Female changed to Male	FC	Skin
Other	O	
Ambiguous	A	
Not Applicable	N	

5.2.21 *Source of Payment*—This data element, Index: 14001.A223, reflects the general means by which the charges for the encounter will be paid. It includes the terms used in the NCVHS standard datasets, the ANSI X12 835 Transaction set (7), (UB-92) (8), and other commonly used claim terminologies.

- Commercial Ins, HMO
- Commercial Ins, Other
- Employer Hlth Plan, BC/BS
- Employer Hlth Plan, HMO
- Employer Hlth Plan, Other
- Govt, CHAMP VA
- Govt, CHAMPUS
- Govt, County
- Govt, Maternal & Child Hlth
- Govt, Medicaid
- Govt, Medicare
- Govt, Other
- Liability Ins, Other
- No Charge
- Other
- Self Pay
- Unknown
- Workman's Comp

5.2.22 *Body System/Region*—This data element, Index 08095, 09001.12, 09001.13, refers to subjective or objective observations that are organized by anatomic systematic to be comprehensive, such as review of systems. The patient's subjective observations, symptoms, and the practitioner's objective observations from examination all should be categorized using a common basic terminology. These categories have been derived from the U.S. Government SF88 and SF93, the OSHA forms, and common anatomy texts.

- Abdomen, Anus
- Abdomen, Hernia
- Abdomen, NOS
- Abdomen, Rectum
- Abdomen, Viscera
- Blood/Blood Forming
- Cardiovascular, Heart
- Cardiovascular, NOS
- Cardiovascular, Vascular
- Chest, Breasts
- Chest, Lungs
- Chest, NOS
- Chest, Respiratory
- Endocrine
- General/Systemic, NOS
- Genitourinary, Pelvic
- Genitourinary, Prostate
- Genitourinary, Urinary
- Head, Dental
- Head, Ear
- Head, Eye
- Head, Face
- Head, Mouth/Throat
- Head, Neck
- Head, NOS
- Head, Nose
- Lymphatics
- Musculoskeletal, Extremities
- Musculoskeletal, NOS

5.2.23 *Patient Number of Children in Birth (Index: 01035.)*—This value is a numeric count (see 4.2.6) of the number of children in a given gestation and indicates that the patient was one child of that gestation.

5.2.24 *Current Work Status (Index: 01062.)*—The value set should include:

Employed full-time	1/F dup
Employed part-time	2/P dup
Not employed	3
Retired	5
Self-employed	4
Military — active	6
Military — active overseas	M
Working not for pay	W
Leave of absence	L
Retired and working part-time for pay	R
Per diem	D
Contract per diem	C
Temporarily unemployed	T
Other	O
Unknown	9

5.2.25 *Current Vocational Status (Index: 01067.)*—This value set indicates job related education and should include:

- Secondary vocational training
- Post-secondary vocational training
- Post-secondary education

5.2.26 *Usual Living Arrangement (Index: 01085.)*—This value set depicts the environment in which the patient resides and should include:

Lives alone	A
Lives with a family member other than spouse	R
Lives with parents	P
Lives in a group	G
Lives with spouse	S
Lives with an unrelated person	N
Institution	I
Unknown	U

5.2.27 *Foreign Residency Code (Index: 01099.)*—This value set depicts whether the patient regularly resides outside the nation of his/her permanent residence and should include:

- No regular foreign residence
- Foreign residence less than 25 %
- Foreign residence 25-50 %
- Foreign residence greater than 50 %

5.2.28 *Durable Power of Attorney Status (Index: 02052 and 02053.)*—This value set indicates what level of durable power of attorney is part of the patient's estate. The value set is:

- None
- On file
- Written

5.2.29 *Mode of Arrival (Index: 14001.A021.)*—This value set serves not only emergency encounters but also any type of encounter where the mode of arrival is an important aspect of patient care. The minimal value set shall include:

- Ground ambulance
- Helicopter ambulance
- Fixed wing air ambulance
- Ambulance not otherwise specified
- Walk in following transport via private transportation



Walk in following transport via public transportation  
 Walk in following non ambulance - law enforcement transport  
 Walk in not otherwise specified  
 Other mode of transport  
 Unknown mode of transport

5.2.30 *Nature of Injury (Index: 14001.A030.)*—This value set applies to any encounter where and injury occurs. Its values are taken from the ICD-9CM/ICD-10 coding scheme in the range 800 to 999, or the corresponding SNOMED International components which map into ICD-9CM/ICD-10.

5.2.31 *Mode of Injury (Index: 14001.A033.)*—This value set is taken from the ICD9CM “E-Code” table, the corresponding segment of ICD-10 or that of SNOMED International.

5.2.32 *Protective Equipment Used (Index: 14001.A044.)*—This value set indicates protective equipment used on the job or devices used in any environment (such as a vehicle) and should include:

- Safety Equipment:
  - None used
  - Shoulder Belt only used
  - Lap Belt only
  - Shoulder and Lap Belt used
  - Child safety seat used
  - Helmet used
  - Not reported
  - Restraint use unknown
- Air Bag Deployed:
  - Deployed-front
  - Deployed-side
  - Deployed-both front/side
  - Not deployed
  - Not applicable
  - Not reported
  - Deployment unknown
- Non-motorist Safety Equipment:
  - None used
  - Helmet used
  - Protective pads used (elbows, knees, shins, etc.)
  - Reflective clothing
  - Lighting
  - Not applicable
  - Other
  - Not reported
  - Unknown

5.2.33 *Diagnosis (Index: 14001.F030/A170.)*—This value set is the list of conditions at encounter disposition. Codes may be drawn from the latest ICD-9-CM table or ICD-10 version, when mandated, or other diagnostic code system. It may be a code or associated rubric index into the code table. Additional codes may be applied using alternative coding schemes.

5.2.34 *Diagnosis Type (Index: 14001.F030.01.)*—This value set indicates the purpose/level of significance of the code/term of diagnosis and should include:

- Principal
- Primary
- Secondary
- Complication

For 14001.A.170.01 it should also include admitting.

5.2.35 *Diagnosis Status Code (Index: 14001.F030.02/A170.02.)*—This value set indicates the finality of the assignment of the code/term and should include:

- Active
- Chronic
- Acute

5.2.36 *Current Clinical (Patient) Status (Index: 14001.A186.01.)*—The value set indicates severity of clinical status and should include:

- Recovered
- Deceased
- Well
- Chronic management required

5.2.37 *Product of Injury (Index: 14001.A034.)*—This value is drawn from the Consumer Product Safety Commission NEIS list.

5.2.38 *Color of Eyes (Index: 01155.)*—This value set indicates the natural eye color for purposes of identification and should include:

- Brown
- Hazel
- Blue
- Green

5.2.39 *Color of Hair (Index: 010160.)*—This value set indicates the natural hair color for purposes of identification and should include:

- Blond
- Brown
- Black
- Red
- Gray
- White

5.2.40 *Build for Identification (Index: 01175.)*—This value set indicates the general body build for purposes of identification and should include:

- Slender
- Medium
- Heavy

5.2.41 *Isolation Status Code (140001.A143)*—Warning/Isolation status. This element 14001.A143, shall have the following values:

- |     |                                     |
|-----|-------------------------------------|
| ARP | antibiotic resistance precautions   |
| BP  | blood and needle precautions        |
| ENP | enteric precautions                 |
| NP  | precautions for neutropenic patient |
| PWP | precautions for pregnant women      |
| RI  | respiratory isolation               |
| SE  | secretion/excretion precautions     |
| SI  | strict isolation                    |
| WSP | wound and skin precautions          |

5.2.42 *Clinical Order/Specimen Action (10001.013/10001.101.05)*—Clinical Order Action/Specimen Action/Code. This element, Index 10001.013/10001.101.05, shall have the following values:

- A Add the ordered tests or batteries to an existing specimen with the patient identifiers and date-time given in this record.
- C Cancel order for the battery or tests named
- G Generated order. This study was initiated by diagnostic service; for example, (one or more) orders for antibiotic sensitivity can be initiated by the lab when organisms grow out of a bold culture.
- H Hold order until time specified by the quantity-timing field
- L Laboratory to obtain a specimen instead of receiving one from the practice
- N New orders accompanying a new specimen
- P Pending specimen. Order has been sent prior to delivery of needed specimen. Practice will provide specimen.
- R Revised order
- S Schedule the tests specified below

5.2.43 *Clinical Order Priority (10001.015)*—Clinical Order Priority. This element, Index 10001.015, shall have the following values:

S	STAT
A	ASAP
R	Routine
P	Pre-op
T	Timing critical
B	Bedside/portable
C	Continuously

VUS	Vascular ultrasound
VR	Virology
XRC	Cineradiograph

5.2.44 *Clinical Order Appt Transport Status (10001.091)*—Clinical Order Appt Transport Status Codes. This element, Index 10001.091 shall have the following values:

PORT	Portable study	The examining device goes to patient
CART	Cart	Patient travels on cart or gurney to the diagnostic service
WHLC	Wheelchair	Patient must be transported by wheelchair
WALK	Walk	Patient walks to the diagnostic service

5.2.45 *Military Service/Veteran Status (01050)*—Military SVC/Veteran Status. This element, Index 01050 shall have the following values:

NOAA
USA
USN
USAF
USCG
USMC
USPHS

5.2.46 *Order Confirmation Recd Code (10001.057)*—Order Confirmation Recd Code, Index 10001.055, shall have the following values:

Order was cancelled	CA
Order was completed	CM
Order was discontinued	DC
Error, Order not Found	ER
Order is on Hold	HD
In Process, Unspecified	IP
Order has been Replaced	RP
In process, Scheduled	SC

5.2.47 *Diagnostic Service Code (10001.010)*—Diagnostic Service, Index 10001.010 shall have the following values:

AU	Audiology
BG	Blood gases
BLB	Blood bank
CUS	Cardiac ultrasound
CTH	Cardiac catheterization
CT	CAT scan
CH	Chemistry
CP	Cytopathology
EC	Electrocardiac (for example, EKG, EEC, Holter)
EN	Electroneuro (EEG, EMG)
HM	Hematology
IMM	Immunology
MB	Microbiology
MCB	Mycobacteriology
MYC	Mycology
NMS	Nuclear medicine scan
NMR	Nuclear magnetic resonance
NRS	Nursing service measures
OUS	OB ultrasound
OT	Occupational therapy
OTH	Other
OSL	Outside lab
PHR	Pharmacy
PT	Physical therapy
PHY	Physician (Hx, Dx, admission note, etc.)
PF	Pulmonary function
RX	Radiograph
RUS	Radiology ultrasound
RC	Respiratory care (therapy)
RT	Radiation therapy
SR	Serology
SP	Surgical pathology
TX	Toxicology

5.2.48 *(Medication) Administration Route (12001.39; HL7 Table 0162)*—(Medication) Administration Route; Index 12001.39 shall have the following values:

AP	Apply externally	IV	Intravenous
B	Buccal	NS	Nasal
DT	Dental	NG	Nasogastric
GTT	Gastrostomy tube	OP	Ophthalmic
GU	GU irrigant	OT	Otic
IA	Intra-arterial	PO	Oral
IC	Intracardiac	PR	Rectal
ID	Intradermal	SC	Subcutaneous
IH	Inhalation	SL	Sublingual
IM	Intramuscular	TP	Topical
IN	Intranasal	TD	Transdermal
IO	Intraocular	TL	Translingual
IP	Intraperitoneal	UR	Urethral
IS	Intrasyovial	VG	Vaginal
IT	Intrathecal		

5.2.49 *(Medication) Administration Site (12001.40; HL7 Table 0163)*—(Medication) Administration Site; Index 12001.40 shall have the following values:

BE	Bilateral ears	LVL	Left vestus lateralis
OU	Bilateral eyes	NB	Nebulized
BN	Bilateral nares	PA	Perianal
BU	Buttock	PERIN	Perineal
CT	Chest tube	RA	Right arm
LA	Left arm	RAC	Right anterior chest
LAC	Left anterior chest	RACF	Right antecubital fossa
LACF	Left antecubital fossa	RD	Right deltoid
LD	Left deltoid	RE	Right ear
LE	Left ear	REJ	Right external jugular
LEJ	Left external jugular	OD	Right eye
OS	Left eye	RF	Right foot
LF	Left foot	RG	Right gluteus medius
LG	Left gluteus medius	RH	Right hand
LH	Left hand	RIJ	Right internal jugular
LIJ	Left internal jugular	RLAQ	Right lower abd. quadrant
LLAQ	Left lower abd. quadrant	RLFA	Right lower forearm
LLFA	Left lower forearm	RMFA	Right mid forearm
LMFA	Left mid forearm	RN	Right naris
LN	Left naris	RPC	Right posterior chest
LPC	Left posterior chest	RSC	Right subclavian
LSC	Left subclavian	RT	Right thigh
LT	Left thigh	RUA	Right upper arm
LUA	Left upper arm	RUAQ	Right upper abd. quadrant
LUAQ	Left upper abd. quadrant	RUFA	Right upper forearm
LUFA	Left upper forearm	RVL	Right vastus lateralis
LVG	Left ventragluteal	RVG	Right ventragluteal

5.2.50 *(Medication) Administration Device (12001.40A; HL7 Table 0164)*—(Medication) Administration Device shall have the following values:

AP	Applicator	IVS	IV solution
BT	Buretrol	MI	Metered inhaler
HL	Heparin lock	NEB	Nebulizer
IPPB	IPPB	PCA	PCA pump
IVP	IV pump		

5.2.51 *(Medication) Administration Method (12001.40B; HL7 Table 0165)*—(Medication) Administration Method shall have the following values:

CH	Chew	NB	Nebulized
DI	Dissolve	PT	Pain
DU	Dust	PF	Perfuse
IF	Infiltrate	SH	Shampoo
IS	Insert	SO	Soak
IR	Irrigate	WA	Wash
IVPS	IV piggyback	WI	Wipe
IVP	IV push		

5.2.52 *Result Status/Observation Result Status (10001.120.03)*—Observation Result Status Code, Index 10001.120.03 shall have the following values:

- F Verified final results are all available, order is complete.
- P Preliminary: Some of the verified preliminary results are available.<sup>A</sup> Additional or confirmatory reports may be expected.
- M Some of the verified final results are missing (some are also present). (new)
- I Order and all applicable specimens received, procedure incomplete.
- R Results stored, not verified.
- C Correction of (a) previously transmitted result(s).
- S Procedure scheduled, not complete.
- O Order received, specimens not received or are incomplete.
- D Order deleted by requestor. (new)
- X Procedure cannot be done, order cancelled.
- Y No order on record for this procedure (in response to query).
- Z No record of this patient (in response to query).

Priority: ZYXDOSIRPMFC<sup>B</sup>

<sup>A</sup> Preliminary means interim values of a long term test, such as a microbiologic test, or reports that have been typed but not reviewed by the interpreter.

<sup>B</sup> Priority indicates the temporal order in which codes may replace one another.

- R Result entered, not verified.
  - P Preliminary: A verified early result is available, final result not yet obtained.
  - F Result complete and verified (final).
  - C Corrected: Reported final result is superseded by a verified, modified result.
  - I Specimen received, procedure incomplete.
  - D Previous preliminary or final result/observation is deleted.
  - X Procedure cannot be done, order cancelled.
  - U Previously transmitted result status changed to final-results unchanged
  - S Partial results
- Priority: XDISRPFUC<sup>A</sup>

<sup>A</sup> Priority indicates the temporal order in which codes may replace one another.

5.2.53 *Clin Order Response Action (10001.058)*—Response shall have the following values:

- E Report Exception Only
- R Same as E, also replacement and parent-child
- D Same as R, also other associated segments
- F Same as D plus confirmations explicitly
- N Only MSA segment is returned

5.2.54 *Abnormal Change Code (11001.01.57.03)*—Abnormal Change Code Index 11001.01.57.03 shall have the following values:

- L Below low normal
- H above high normal
- LL Below lower panic limits
- HH above upper panic limits
- < below absolute low, that is, off low scale on an instrument
- > above absolute high, that is, off high scale on an instrument
- N Normal
- A abnormal-applies to non-numeric results
- AA very abnormal-applies to nonnumeric results (analogous to panic limits for numeric units)
- Null no ranges defined or normal ranges do not apply to this test result
- U significant change up
- D significant change down
- B better, use when direction not relevant or not defined
- W worse, use when direction not relevant or not defined

5.2.55 *Antibiotic Susceptibility (11001.01.60.02)*—Antibiotic Susceptibility Code; Index 11001.01.60.02 shall have the following values:

- R the give organism is resistant to the antibiotic
- I the sensitivity is intermediate
- S the organism is sensitive to the antibiotic
- MS moderately sensitive
- VS very sensitive

5.2.56 *Abnormal Range Check Code (11001.01.57.04)*—Abnormal Range Check Code; Index 11001.01.57.04 shall have the following values:

- A denotes that an age-based population was tested
- S a sex-based population
- R a race-based population
- N generic normal range

5.2.57 *Specimen Additives (10001.101.06)*—Specimen Additives Code Index 10001.101.60 shall have the following values:

- |   |     |          |  |
|---|-----|----------|--|
| Lithium Heparin-anticoagulant   | LIH | Green    | Dry powder.<br>10 to 30 USP units per mL of blood.     |
| Sodium Heparin-anticoagulant  | NAH | Green    | Dried solution.<br>10 to 30 USP units per mL of blood. |
| Ethylenediaminetetraacetic acid; dipotassium salt [EDTA (K <sub>2</sub> )]  | K2E | Lavender | Dry powder.<br>1.5 to 2.2 mg per mL of blood.          |
| Ethylenediaminetetraacetic acid; tripotassium salt [EDTA (K <sub>3</sub> )] | K3E | Lavender | Clear solution.<br>1.5 to 2.2 mg per mL of blood.      |

5.2.58 *Order Timing Interval (1001.067)*—Order Timing Interval; Index 10001.067 shall have the following values:

- (a) Q<integer>S<sup>A</sup> = every <integer> seconds
- (b) Q<integer>M<sup>A</sup> = every <integer> minutes
- (c) Q<integer>H<sup>A</sup> = every <integer> hours
- (d) Q<integer>D<sup>A</sup> = every <integer> days
- (e) Q<integer>W<sup>A</sup> = every <integer> weeks
- (f) Q<integer>L<sup>A</sup> = every <integer> (Lunar cycle)
- (g) Q<integer>J<sup>A</sup> = every week on the <integer> day of the week. 1 = Monday, 7 = Sunday (we use J from the French, "jour")
- (h) BID<sup>A</sup> = twice a day at institution specified times (for example, 9 AM-4 PM)
- (i) TID<sup>A</sup> = three times a day at institution specified times (for example, 9 AM-4 PM-9 PM)
- (j) QID<sup>A</sup> = four times/day at institution specified times (for example, 9 AM-11 AM-4 PM-9 PM)
- (k) QAM = in the morning at institution specified time
- (l) QSHIFT = during each of 3 eight hour shifts at institution specified times
- (m) QOD = every other day
- (n) QHS = every day before the hour of sleep
- (o) QPM = in the evening at institution specified time
- (p) C = service is provided continuously between the start time and the stop time
- (q) U<spec> = for future, where <spec> is the service intervals defined/processed by syntax of UNIX crontab
- (r) Once = one time only. This is also the default when this component is null.

<sup>A</sup> Not equivalent to their Q<integer>H counterpart. QID is not the same as Q6H. The former is unequally spaced. The latter is equally spaced.

5.2.59 *Order Timing Duration (1001.067)*—Clinical Order Timing Duration; Index 10001.067 shall have the following values:

- S <integer> do for <integer> seconds
- M <integer> do for <integer> minutes
- H <integer> do for <integer> hours
- D <integer> do for <integer> days
- W <integer> do for <integer> weeks
- L <integer> do for <integer> months
- X <integer> do <integer> times at interval specified in the order. For two blood cultures Q2H X3 would imply obtaining two blood cultures three different times at two hour intervals for a total of six blood cultures.
- T <integer> do at the interval and amount stated until a total dosage of <integer> is accumulated. Units are assumed to be the same as in the QUANTITY field.
- INDEF do indefinitely. This is also the default if the value is nil unless once is specified as the repeat interval.

5.2.60 *Observation ID Suffix (11001.01.51)*—Observation ID Suffix; Index 11001.01.51 shall have the following values:



<i>Coded Results (type)</i>			Giga	10 <sup>9</sup>	g
Diagnostic Impression	IMP	CE	Mega	10 <sup>6</sup>	ma
Recommendation	REC	CE	Kilo	10 <sup>3</sup>	K
Confirming procedure	CNP	CE	Hecto	10 <sup>2</sup>	h
Procedure medication	MED	CE	Deca	10 <sup>1</sup>	da
Anatomic site	ANT	CE	Deci	10 <sup>-1</sup>	d
Device/Instrument	DEV	CE	Centi	10 <sup>-2</sup>	c
Serial number device/Instrument	SER	ST	Milli	10 <sup>-3</sup>	m
<i>Bulk Text Reports</i>			Mi-	10 <sup>-6</sup>	u
Gross or general description of the study	GDT	TX	cro		
Microscopic or secondary description	MDT	TX	Nano	10 <sup>-9</sup>	n
Technician's comment	TCM	TX	Pico	10 <sup>-12</sup>	p
Addendum note	ADT	TX	Femto	10 <sup>-15</sup>	F
<i>Other</i>			Atto	10 <sup>-18</sup>	a
Diagnosis onset date/time	ITM	TS			
Diagnosis resolution date/time	RTM	TS			
Comparison study	CMS	CE			
Comparison date/time	CMT	TS			
Comparison results	CMR	CE			
Comparison change	CMC	CE			
Predicted value	PRD	ST			
Percent predicted	PPR	ST			
After drug observed	AFD	ST			
Predicted value after drug	ADP	ST			
Percent predicted after drug	APP	ST			

Unit of Measure:

Common ISO Derived Units and ISO Extensions<sup>A</sup>

Name	Code/Abbreviation
1/L	/l
10 <sup>3</sup> /litre <sup>A</sup>	10 <sup>3</sup> /l
10 <sup>6</sup> /litre <sup>A</sup>	10 <sup>6</sup> /l
10 <sup>9</sup> /litre <sup>A</sup>	10 <sup>9</sup> /l
10 <sup>12</sup> /litre <sup>A</sup>	10 <sup>12</sup> /l
1/millilitre <sup>A</sup>	1/ml
10 <sup>3</sup> /millilitre <sup>A</sup>	10 <sup>3</sup> /ml
10 <sup>6</sup> /millilitre <sup>A</sup>	10 <sup>6</sup> /ml
10 <sup>9</sup> /millilitre <sup>A</sup>	10 <sup>9</sup> /ml
1000 red blood cells <sup>A</sup>	10 <sup>3</sup> (rbc)
Beats per minute	/min
Bodansky U <sup>A</sup>	(bdsk_u)
Body surface area <sup>A</sup>	(bsa)
Calories <sup>A</sup>	(cal)
Catalytic fraction <sup>A</sup>	1
Cells/litre	/l
CM of water <sup>A</sup>	cm (h2o)
Colony forming units <sup>A</sup>	(cfu)
Day	d
Decibels	db
Decibels a Scale <sup>A</sup>	dba
Degrees Celsius	cel
Degrees of Angle	deg
Femtogram	fg
Femtolitre	fl
Femtomole	fmol
Fibers/millilitre <sup>A</sup>	/ml
Grams creatinine <sup>A</sup>	g(creat)
Grams hemoglobin <sup>A</sup>	g(hgb)
Grams total nitrogen <sup>A</sup>	g(tot_nit)
Grams total protein <sup>A</sup>	g(tot_prot)
Grams wet weight tissue <sup>A</sup>	g(wet_tis)
Gram/Decilitre	g/dl
Gram/Litre	g/l
Grams	g
International Units <sup>A</sup>	iu
International Unit/Day <sup>A</sup>	iu/d
International Unit/Millilitre <sup>A</sup>	iu/ml
International Unit/Litre <sup>A</sup>	iu/l
Kilogram body weight <sup>A</sup>	kg(body_wt)
Katal <sup>A</sup>	kat
Katal/Kilogram <sup>A</sup>	kat/kg
Katal/Litre <sup>A</sup>	kat/l
Kilocalories	(kcal)
Kilogram/Litre <sup>A</sup>	kg/l
Kilograms	kg
Kunkel U <sup>A</sup>	knk_u
Lumen	lm
Lumen Per Square Metre	lm/m2
MacLagan U <sup>A</sup>	mclg_u
Metres	m
Metres/Second	m/s
Metres/Second <sup>2</sup>	m/s2
Micro international unit <sup>A</sup>	uiu
Microgram	ug
Microgram/Decilitre	ug/dl
Microgram/Gram	ug/g
Microgram/Litre	ug/l
Microgram/Minute	ug/min

5.2.61 Unit of Measure (11001.01.57.02)—Unit of Measure; Index 11001.01.57.02) shall be constructed from the following four tables to result in a single value representing the unit of measure:

Base Units

Ampere	A
Candela	Cd
Kelvin	K
Kilogram	Kg
Metre	M
Mole	Mol
Second	S

Derived Units

Coulomb	C
Day	D
degree Celsius	Cel
Farad	F
Hertz	Hz
Hour	Hr
Joule	J
minute (time)	Min
newton	n
ohm	ohm
Pascal	pal
Volt	v
Watt	w
Weber	wb
Year	ann

Other Units

atomic mass unit	u
Bel	b
Decibel	db
Degree	deg
Gram	g
Grey	gy
Henry	h
Liter	l
Lumen	lm
Lux	lx
minute of arc	mnt
Radian	rad
Siemens	sie
Steradian	sr
Tesla	t

Unit of Measure:

Exa	10 <sup>18</sup>	ex
Peta	10 <sup>15</sup>	pe
Tera	10 <sup>12</sup>	T

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Common ISO Derived Units and ISO Extensions<sup>A</sup>

Name	Code/Abbreviation
Microgram/Day	ug/d
Micro katel <sup>A</sup>	ukat
Micro metre = micron	um
Micro mole	umol
Micro second	us
Milliequivalents <sup>A</sup>	meq
Microequivalents <sup>A</sup>	ueq
Milliequivalents/Litre <sup>A</sup>	meq/l
Milligram/Day	mg/d
Milligram/Decilitre	mg/dl
Milligram/Litre	mg/l
Milligram/Minute	mg/min
Milligram	mg
Milligram/Decilitre	mg/dl
Milligrams/Cubic Metre	mg/m <sup>3</sup>
Millilitre	ml
Millilitre/Minute	ml/min
Millilitre/Second	ml/s
Millimetre	mm
Millimetre (HG) <sup>A</sup>	mm(hg)
Millimetre/Hour	mm/hr
Millimole/Litre	mmol/l
Millimoles/Day	mmol/d
Milliosmols/Litre <sup>A</sup>	mosm/l
Milliunits/Millilitre <sup>A</sup>	miu/ml
Moles/Kilogram	mol/kg
Moles/Litre	mol/l
Moles/Second	mol/s
Nanogram	ng
Nanokatel <sup>A</sup>	nkat
Nanometre	nm
Nanosecond	ns
Nanogram/Litre	ng/l
Nanogram/Millilitre	ng/ml
Nanomoles/Second	nmol/s
O.D. (optical density) <sup>A</sup>	(od)
P.U. <sup>A</sup>	(pu)
Pa <sup>A</sup>	(pa)
pH <sup>A</sup>	(ph)
Particles Total Count <sup>A</sup>	1(tot)/(tot)
Particles/Cubic Metre <sup>A</sup>	/m <sup>3</sup>
Particles/Litre <sup>A</sup>	/l
Parts Per Billion <sup>A</sup>	(ppb)
Parts Per Million <sup>A</sup>	(ppm)
Pascal	pal
Per High Power Field <sup>A</sup>	/(hpf)
Percent <sup>A</sup>	%
Picogram	pg
Picogram/Litre	pg/l
Picogram/Millilitre	pg/ml
Picokatel <sup>A</sup>	pkat
Picometre	pm
Picomole	pmol
Picosecond	ps
Todd U <sup>A</sup>	(td_u)
Volume Fraction	1

except for the year: ISO = ANN, ANSI = yr, the metric units in X3.50 are the same as ISO, except for pascal ("pa" in ANSI, "pal" in ISO); "min" is used for time and arc in ANSI, ISO uses "mnt" to identify minute of arc. In ISO seconds are abbreviated as "s," in ANSI, "sec."

## Unit of Measure:

Unit	Abbreviation
<i>Length</i>	
inch	in
foot	ft
mile (statute)	mi
nautical mile	nmi
rod	rod
yard	yd
<i>Volume</i>	
cubic foot	cft
cubic inch	cin
cubic yard	cyd
tablespoon	tbs
teaspoon	tsp
pint	pt
quart	qt
gallon	gal
ounce (fluid)	foz
<i>Time<sup>A</sup></i>	
year	yr
month	Mo
week	Wk
day	D
hour	Hr
minute	Min
second	Sec
<i>Area</i>	
square foot	Sqf
square inch	Sin
square yard	Syd
<i>Mass</i>	
dram	Dr
grain	gr (avoid)
ounce (weight)	Oz
pound	Lb
<i>Other ANSI Units, Derived Units, and Miscellaneous Units</i>	
British thermal unit <sup>B</sup>	Btu
cubic feet/min	cft/min
degrees fahrenheit <sup>B</sup>	deg f
feet/min <sup>B</sup>	ft/min
Millirad <sup>B</sup>	Mrad
RAD <sup>B</sup>	Rad

<sup>A</sup> The abbreviations for conventional U.S. units of time are the same as ISO, except for the year: ISO = ANN, ANSI = yr, the metric units in X3.50 are the same as ISO, except for pascal ("pa" in ANSI, "pal" in ISO); "min" is used for time and arc in ANSI, ISO uses "mnt" to identify minute of arc. In ISO seconds are abbreviated as "s," in ANSI, "sec."

<sup>B</sup> Non-metric units not explicitly listed in ANSI.

<sup>A</sup> The abbreviations for conventional U.S. units of time are the same as ISO,



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- (9) UB-82/92, “Transaction Set.”

CDC Unique ID	Name
1070-2	AMER IND/ALASKA NAT:CENTRAL AMER IND,NOS
2162-6	AMER IND/ALASKA NAT:CENTRAL AMERICAN IND,HISPANIC,NOS
0128-	AMER IND/ALASKA NAT:HISPANIC,CUBAN
2153-5	AMER IND/ALASKA NAT:HISPANIC,MEXICAN
0131-	AMER IND/ALASKA NAT:HISPANIC:PUERTO RICAN
0130-	AMER IND/ALASKA NAT:LATIN AMERICAN,HISP DESCENT,NOS
0129-	AMER IND/ALASKA NAT:LATIN AMERICAN,OTHER DESCENT
1002-5	AMER IND/ALASKA NAT:NOS
1073-6	AMER IND/ALASKA NAT:SOUTH AMERICAN IND,NOS
2175-8	AMER IND/ALASKA NAT:SOUTH AMERICAN IND,HISPANIC,NOS
1986-9	AMER IND/ALASKA NAT:US CAN IND,ALEUT,CHUGACH CORPORATION
1966-1	AMER IND/ALASKA NAT:US/CAN IND,ALEUT,NOS
1840-8	AMER IND/ALASKA NAT:US/CAN IND,INUIT,NOS
1004-1	AMER IND/ALASKA NAT:US/CAN IND,NOS
0132-	AMER IND/ALASKA NAT:US/CAN IND,ALABAMA
0133-	AMER IND/ALASKA NAT:US/CAN IND,COUSHATTA
1010-8	AMER IND/ALASKA NAT:US/CAN IND,APACHE
1026-4	AMER IND/ALASKA NAT:US/CAN IND,ARIKARA
1021-5	AMER IND/ALASKA NAT:US/CAN IND,ARAPAHOE,NOS
1028-0	AMER IND/ALASKA NAT:US/CAN IND,ASSINIBOINE
1033-0	AMER IND/ALASKA NAT:US/CAN IND,BANNOCK

FIG. 1 Ethnic Group

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