



Standard Specification for Coded Values Used in the Electronic Health Record¹

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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:²

E 1238 Specification for Transferring Clinical Observations Between Independent Computer Systems³

E 1239 Practice for Description of Reservation/Registration-Admission, Discharge, Transfer (R-ADT) Systems for Electronic Health Record (EHR) Systems

E 1384 Practice for Content and Structure of the Electronic Health Record (EHR)

E 1715 Practice for An Object-Oriented Model for Registration, Admitting, Discharge, and Transfer (RADT) Functions in Computer-Based Patient Record Systems

E 1744 Practice for View of Emergency Medical Care in the Electronic Health Record

2.2 ANSI Standards:⁴

ANS X3.50 Representation of Date and Time

ANS X3.51 Representation of Common Units

2.3 ISO Standards:⁴

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 Standards⁵

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

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ Withdrawn.

⁴ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, http://www.ansi.org.

⁵ Available from Health Level 7, Mark McDougall, Executive Director, 900 Victors Way, Suite 122, Ann Arbor, MI 48108.

*A Summary of Changes section appears at the end of this standard.

or traditional representations. This standard has been developed with input from many organizations, including government agencies and other standards bodies and professional 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, Practice E 1715, Practice E 1744, and HL-7 use the same representation for American and European forms.

4.2.2 *Addresses*—Common format in Specification E 1238, Guide E 1239, Practice E 1715, and Practice E 1744.

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.⁶

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)
01245	State Death Certificate Recorded (5.2.62)
02052	Durable Power of Attorney Status (5.2.28)
04001.35.01	Practitioner Licensing State (5.2.62)

04001.50	Professional Specialty (5.2.16)
06001.01.15	Immunization Reaction/Result (5.2.63)
08005.	Birth Method (5.2.64)
09001.12	Body System/Region (5.2.22)
09001.30	Tooth ID (5.2.74)
09001.30.05	Tooth Surface (5.2.75)
09001.30.06	Tooth Sensitivity Code (5.2.65)
09001.30.07	Tooth Mobility Code (5.2.66)
09001.40.01	Prosthesis Type (5.2.67)
11001.01.24	Test Specimen Source (5.2.68)
14001.A002	Patient (Encounter) Type/Admission Source (5.2.17)
14001.A004	Confidentiality Status (5.2.1)
14001.A010	Encounter Status (5.2.69)
14001.A013	Facility Care/Healthcare setting (5.2.18)
14001.A016	Reason for Visit (5.2.19)
14001.A020	Encounter Patient Arrival Condition (5.2.70)
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.A040	Injury On the Job Status (5.2.71)
14001.A044	Protective Equipment Used (5.2.32)
14001.A063	Patient Admission Type (5.2.12)
14001.A110	Professional Specialty (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.A206	Police Hold Status (5.2.72)
14001.A213	Medical Examiner Notification Code (5.2.73)
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

⁶ The boldface numbers in parentheses refer to the list of references at the end of this standard.

		Proposed Term	Code	Present Term
Single	S			
Married	M			
Divorced	D			
Divorced/annulled	L	AFRICA:NOS	2054-5	BLACK
Divorced/separated	H	AFRICA:WEST AFRICA	0218-	
Annulled	N	AFRICA:CENTRALSUB-SAHARAN AFRICA	0219-	
Widowed	W	AFRICA:EAST AFRICA	0220-	
Separated, NOS	A	AFRICA:SOUTHERN AFRICA	0221-	
Separated, legal	E			
Separated, nonlegal	K			
Marriage, separation, temporary absence	X	AMERICA:NOS	1002-5	AMERICAN INDIAN/ ALASKA NATIVE
Marriage, separation, permanent absence	V			
Consensual union	J	AMERICA:NORTH AMERICA (ABORIGINAL)	0222-	
Unknown	U	AMERICA:CENTRAL AMERICA/ CARIBBEAN (ABORIGINAL)	0223-	
Common Law	C	AMERICA:SOUTH AMERICA	0224-	
Domestic Partner	P			
Registered Domestic Partner	R			
Living together	G			
Interlocutory	I	EAST ASIA:NOS	2028-9	ASIAN
Other	O	EAST ASIA:CENTRAL ASIA	0225-	
Unreported	T	EAST ASIA:NORTHERN ASIA	0226-	
		EAST ASIA:EAST ASIA	0227-	
		EAST ASIA:SOUTH ASIA	0228-	
		EAST ASIA:SOUTHEAST ASIA	0229-	
		EAST ASIA:AUSTRALIA (ABORIGINAL)	0230-	
		EURASIA:NOS	2106-3	WHITE
		EURASIA:WESTERN EUROPE	0231-	
		EURASIA:NORTHERN EUROPE	0232-	
		EURASIA:EASTERN EUROPE	0233-	
		EURASIA:SOUTHERN EUROPE/ MEDITERANIAN	0234-	
		EURASIA:NORTH AFRICA	0235-	
		EURASIA:NEAR EAST	0236-	
		EURASIA:ARABIAN PENINSULA	0237-	
		EURASIA:WESTERN EURASIA	0238-	
		OCEANIA:NOS	2076-8	HAWAIIAN/ PACIFIC ISLANDER
		OCEANIA:PACIFIC ISLANDS	0239-	
		OTHER	2131-3	

5.2.3 *Biogeographic Ancestry (previously stated as: 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 full meaning to the value set recorded for this attribute. The name originates from recommendations in the genetics literature (Am J Hum Gent 77:519-532 2005). Therefore, utilization of these other attributes is strongly recommended. To be consistent with census data, the six values currently given in OMB Directive 15 are shown for relationship to the recommended new terms. New subcategories may be added as recommended by the genetics professional disciplines. The check digit for the code is calculated via program previously given in Specification E 1238 and shown in Appendix X1. Note that NOS in the term means “Not Otherwise Specified.”

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
BRN	BN	BRUNEI DARUSSALAM
BGR	BG	BULGARIA
BFA	BF	BURKINA FASO
MMR	BU	BURMA/MYANMAR
BDI	BI	BURUNDI
KAM	KH	CAMBODIA
CMR	CM	CAMEROON
CAN	CA	CANADA
CPV	CV	CAPE VERDE
KY		CAYMAN ISLANDS
CAF		CENTRAL AFRICAN REPUBLIC
TCD	TD	CHAD
CHL	CL	CHILE
CHN	CN	CHINA
CXR	CX	CHRISTMAS ISLAND
CCK	CC	COCOS (KEELING) ISLANDS
COL	CO	COLUMBIA
	KM	COMOROS
COG	CG	CONGO (FORMERLY ZAIRE)
COD		CONGO,DEMOCRATIC REPUBLIC OF
COK	CK	COOK ISLANDS
CRI	CR	COSTA RICA
CIV	CI	COTE D'IVORIE
HRV		CROATIA

CUB	CU	CUBA
CYP	CY	CYPRUS
CZE	CS	CZECH REPUBLIC
DNK	DK	DENMARK
DJI	DJ	DJIBOUTI
DMA	DM	DOMINICA
DOM	DO	DOMINICAN REPUBLIC
TMP	TP	EAST TIMOR
ECU	EC	ECUADOR
EGY	EG	EGYPT
SLV	SV	EL SALVADOR
GNQ	GQ	EQUATORIAL GUINEA
EST		ESTONIA
ETH	ET	ETHIOPIA
FLK	FK	FALKLAND ISLANDS
FRO	FO	FAROE ISLANDS
FJI	FJ	FIJI
FIN	FI	FINLAND
FRA	FR	FRANCE
GUF	GF	FRENCH GUYANA
PYF	PF	FRENCH POLYNESIA
AFT	TF	FRENCH SOUTHERN TERRITORIES
GAB	GA	GABON
GMB	GM	GAMBIA
DEU	DE	GERMANY,FEDERAL REPUBLIC OF
GHA	GH	GHANA
GIB	GI	GIBRALTAR
GRC	GR	GREECE
GR		
GRL	GL	GREENLAND
GRD	GD	GRENADA
GLP	GP	GUADALOUPE
GUM	GU	GUAM
GTM	GT	GUATEMALA
GIN	GN	GUINEA
GNB	GW	GUINEA-BISSAU
GUY	GY	GUYANA
HTI	HT	HAITI
HMD	HM	HEARD AND MCDONALD ISLANDS
HND	HN	HONDURAS
HKG	HK	HONG KONG
HUN	HU	HUNGARY
ISL	IS	ICELAND
IND	IN	INDIA
IDN	ID	INDONESIA
IRN	IR	IRAN
IRQ	IQ	IRAQ
IRL	IE	IRELAND
ISR	IL	ISRAEL
ITA	IT	ITALY
JAM	JM	JAMAICA
JPN	JP	JAPAN
JOR	JO	JORDAN
KAZ		KAZAKSTAN
KEN	KE	KENYA
KIR	KI	KIRIBATI
PRK	KP	KOREA,DEMOCRATIC PEOPLES RE-PUB
		PUB
KOR	KR	KOREA,REPUBLIC OF
KWT	KW	KUWAIT
KGZ		KYRGYZSTAN
LAO	LA	LAO PEOPLES DEMOCRATIC RE-PUB
		PUB
LVA		LATVIA
LBN	LB	LEBANON
LSO	LS	LESOTHO
LBR	LR	LIBERIA
LBY	LY	LIBYAN ARAB JAMAHIRIYA
LIE	LI	LIECHTENSTEIN
LTU		LITHUANIA
LUX	LU	LUXEMBOURG
MAC		MACAO
	MO	MACAW

MKD		MACEDONIA, FORMER YUGOSLAV	SWZ	SZ	SWAZILAND
		REPUBLIC	SWE	SE	SWEDEN
MDG	MG	MADAGASCAR	CHE	CH	SWITZERLAND
MWI	MW	MALAWI	SYR	SY	SYRIAN ARAB REPUBLIC
MYS	MY	MALAYSIA	TWN	TW	TAIWAN, PROVINCE OF CHINA
MDV	MV	MALDIVES	TJK		TAJIKISTAN
MLI	ML	MALI	TZA	TZ	TANZANIA, UNITED REPUBLIC OF
MLT	MT	MALTA	THA	TH	THAILAND
MHL	MH	MARSHALL ISLANDS	TGO	TG	TOGO
MTQ	MQ	MARTINIQUE	TKL	TK	TOKELAU
MRT	MR	MAURITANIA	TON	TO	TONGA
MUS	MU	MAURITIUS	TTO	TT	TRINIDAD AND TOBAGO
MYT		MAYOTTE	TUN	TN	TUNISIA
MEX	MX	MEXICO	TUR	TR	TURKEY
FSM	FM	MICRONESIA	TKM		TURKMENISTAN
MCO	MC	MONACO	TCA	TC	TURKS AND CAICOS ISLANDS
	MN	MONGOLIA	TUV	TV	TUVALU
MSR	MS	MONTSERRAT	UGA	UG	UGANDA
MAR	MA	MOROCCO	UKR	UA	UKRAINE
MOZ	MZ	MOZAMBIQUE	ARE	AE	UNITED ARAB EMIRATES
NAM	NA	NAMIBIA	GBR	GB	UNITED KINGDOM
NRU	NR	NAURU	USA	US	UNITED STATES
NPL	NP	NEPAL	UMI	UM	UNITED STATES MINOR OUTLYING ISLANDS
NLD	NL	NETHERLANDS			
ANT	AN	NETHERLANDS ANTILLES	URY	UY	URUGUAY
	NT	NEUTRAL ZONE		SU	USSR
NCL	NC	NEW CALEDONIA	UZB		UZBEKISTAN
NZL	NZ	NEW ZEALAND	VUT	VU	VANUATU
NIC	NI	NICARAGUA	VAT	VA	VATICAN CITY STATE (HOLY SEE)
NER	NE	NIGER	VEN	VE	VENEZUELA
NGA	NG	NIGERIA	VNM	VN	VIET NAM
NIU	NU	NIUE	VGB	VG	VIRGIN ISLANDS, BRITISH
NFK	NF	NORFOLK ISLAND	VIR	VI	VIRGIN ISLANDS, US
MNP	MP	NORTHERN MARIANAS	WLF	WF	WALLACE AND FUTUNA ISLANDS
NOR	NO	NORWAY	ESH	EH	WESTERN SAHARA
OMN	OM	OMAN	YEM	YE	YEMEN
PAK	PK	PAKISTAN	YD		YEMEN, DEMOCRATIC
PLW	PW	PALAU	YUG	YU	YUGOSLAVIA
PAN	PA	PANAMA	ZR		ZAIRE
PNG	PG	PAPUA NEW GUINEA	ZMB	ZM	ZAMBIA
PRY	PY	PARAGUAY	ZWE	ZW	ZIMBABWE
PER	PE	PERU			
PHL	PH	PHILIPPINES			
PCN	PN	PITCAIRN			
POL		POLAND			
PRT	PT	PORTUGAL			
PRI	PR	PUERTO RICO			
QAT	QA	QATAR			
REU	RE	REUNION			
ROM	RO	ROMANIA	ADC		ADVENT CHRISTIAN CHURCH
RUS		RUSSIAN FEDERATION	AGN		AGNOSTIC
RWA	RW	RWANDA	ACC		AMERICAN COUNCIL OF CHRISTIAN CHURCHES
KNA	KN	SAINT KITTS AND NEVIS	ANG		ANGLICAN ORTHODOX CHURCH
LCA	LC	SAINT LUCIA	ASB		ASBURY BIBLE CHURCHES
VCT	VC	SAINT VINCENT AND THE GRENADINES	AOG		ASSEMBLIES OF GOD
		SAMOA	AGC		ASSOCIATED GOSPEL CHURCHES
WSM	WS	SAN MARINO	ATH		ATHEIST
SMR	SM	SAO TOME AND PRINCIPE	BAH		BAHAI
STP	ST	SAUDIA ARABIA	BBF		BAPTIST BIBLE FELLOWSHIP
SAU	SA	SENEGAL	BAO		BAPTIST CHURCHES, OTHER
SEN	SN	SEYCHELLES	BAG		BAPTIST GENERAL CONFERENCE
SYC	SC	SIERRA LEONE	BAM		BAPTIST MISSIONARY ASSOCIATION OF AMERICA
SLE	SL	SINGAPORE	ABA		BAPTIST, AMERICAN BAPTIST ASSOCIATION
SGP	SG	SLOVAKIA	ABC		BAPTIST, AMERICAN BAPTIST CHURCHES
SVK		SLOVENIA	ABU		BAPTIST, AMERICAN BAPTIST CHURCHES IN THE USA
SVN		SOLOMON ISLANDS	ABN		BAPTIST, AMERICAN BAPTIST CONVENTION
SLB	SB	SOMALIA	CBA		BAPTIST, CONSERVATIVE BAPTIST ASSOCIATION OF AMERICA
SOM	SO	SOUTH AFRICA	BAP		BAPTIST: NOS
ZAF	ZA	SOUTH GEORGIA AND SOUTH SANDWICH IS	FWB		BAPTIST: FREE WILL BAPTISTS
SGS		SPAIN	BFN		BAPTIST: FREE WILL BAPTISTS, NC STATE CONVENTION OF
		SRI LANKA	BAA		BAPTIST: GENERAL ASSOCIATION OF GENERAL BAPTISTS
LKA	LK	ST HELENA	BAR		BAPTIST: GENERAL ASSOCIATION OF REGULAR BAPTIST CHURCHES
SHN	SH	ST PIERRE AND MILQUELON	BAI		BAPTIST: INDEPENDENT BAPTIST CHURCHES
SPM	PM	SUDAN	BIB		BAPTIST: INDEPENDENT BAPTIST MISSION
SDN	SD	SURINAM	BFW		BAPTIST: NATIONAL ASSOCIATION OF FREE WILL BAPTISTS
SUR	SR	SVALBARD AND JAN MAYEN IS	BNC		BAPTIST: NATIONAL BAPTIST CONVENTION OF AMERICA
SJM	SJ		BNU		BAPTIST: NATIONAL BAPTIST CONVENTION, USA, INC

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.

BNA	BAPTIST:NORTH AMERICAN BAPTIST CONFERENCE	JAI	JAIN
BPN	BAPTIST:PROGRESSIVE NATIONAL BAPTIST CONVENTION- ,INC	JWN	JEHOVAH'S WITNESSES
BGG	BAPTIST:SEVENTH DAY BAPTIST GENERAL CONFERENCE	JCO	JUDAISM,CONSERVATIVE
SOU	BAPTIST:SOUTHERN BAPTIST CONVENTION	JEW	JUDAISM,NOS
BSF	BAPTIST:SOUTHWIDE BAPTIST FELLOWSHIP	JOR	JUDAISM,ORTHODOX
BUE	BAPTIST:UKRANIAN EVANGELICAL BAPTIST CONFERENCE	JOT	JUDAISM,OTHER
BWB	BAPTIST:WORLD BAPTIST FELLOWSHIP	JRC	JUDAISM,RECONSTRUCTIONIST
BPC	BIBLE PROTESTANT CHURCH	JRF	JUDAISM,REFORMED
BRC	BRETHREN CHURCH	JRN	JUDAISM,RENEWAL
BCF	BRETHREN IN CHRIST FELLOWSHIP	LCA	LUTHERAN CHURCH IN AMERICA
BUD	BUDDHISM	LMS	LUTHERAN CHURCH-MISSOURI SYNOD
BMA	BUDDHIST,MAHAYANA	LCH	LUTHERAN CHURCHES
BOT	BUDDHIST,OTHER	LCU	LUTHERAN COUNCIL IN THE USA
BTA	BUDDHIST,TANTRAYANA	LUA	LUTHERAN,AMERICAN
BTH	BUDDHIST,THERAVADA	LUT	LUTHERAN,NOS
LCC	CATHOLIC:LIBERAL CATHOLIC CHURCH	LEC	LUTHERAN:EVANGELICAL LUTHERAN CHURCHES,ASSOCIA- TION OF
CAT	CATHOLIC:ROMAN CATHOLIC CHURCH	FLG	LUTHERAN:FREE LUTHERAN CONGREGATIONS, THE ASSO- CIATION OF
CBC	CENTRAL BIBLE CHURCH	LIC	LUTHERAN:INDEPENDENT LUTHERAN CHURCHES
CFR	CHINESE FOLK RELIGION	MEN	MENNONITE
CMA	CHRISTIAN AND MISSIONARY ALLIANCE	MET	METHODIST CHURCHES
CCH	CHRISTIAN CHURCH(DISCIPLES OF CHRIST)	MPC	METHODIST PROTESTANT CHURCH
CCA	CHRISTIAN CHURCHES AND CHURCHES OF CHRIST	AMT	METHODIST:AFRICAN METHODIST EPISCOPAL CHURCH
COM	CHRISTIAN COMMUNITY	AME	METHODIST:AFRICAN METHODIST EPISCOPAL ZION CHURCH
CCR	CHRISTIAN CRUSADE	MEC	METHODIST:CHRISTIAN METHODIST EPISCOPAL CHURCH
CRR	CHRISTIAN REFORMED CHURCH	MEV	METHODIST:EVANGELICAL METHODIST CHURCH
CHS	CHRISTIAN SCIENCE	MEA	METHODIST:EVANGELICAL METHODIST CHURCH OF AMERICA
COT	CHRISTIAN,OTHER	MFR	METHODIST:FREE METHODIST CHURCH OF NORTH AMERICA
CHR	CHRISTIAN-NO DENOMINATIONAL PREFERENCE	MFM	METHODIST:FUNDAMENTAL METHODIST CHURCH INC
COC	CHURCH OF CHRIST	MPM	METHODIST:PRIMITIVE METHODIST CHURCH
COG	CHURCH OF GOD	MPU	METHODIST:PRIMITIVE METHODIST CHURCH USA
CGG	CHURCH OF GOD GENERAL CONFERENCE	MSC	METHODIST:SOUTHERN METHODIST CHURCH
COI	CHURCH OF GOD IN CHRIST	WMC	METHODIST:THE WESLEYAN CHURCH
CGN	CHURCH OF GOD IN NORTH AMERICA	UMD	METHODIST:UNITED METHODIST CHURCH
CGP	CHURCH OF GOD OF PROPHECY	MBC	MILITANT FUNDAMENTAL BIBLE CHURCHES
CGI	CHURCH OF GOD(ANDERSON,IN)	MCA	MISSIONARY CHURCH ASSOCIATION
CGT	CHURCH OF GOD(CLEVELAND,TN)	MCT	MISSIONARY CHURCH,THE
MOM	CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS-LDS	MOC	MORAVIAN CHURCH
REO	CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS REOR- GANIZED	MOS	MUSLIM,NOS
NAZ	CHURCH OF THE NAZARENE	MOT	MUSLIM,OTHER
CUB	CHURCH OF THE UNITED BRETHERN IN CHRIST	MSH	MUSLIM,SHIITE
CHC	CHURCHES OF CHRIST	MSU	MUSLIM,SUNNI
CCU	CHURCHES OF CHRIST IN CHRISTIAN UNION	NAC	NATIONAL ASSOCIATION OF CONGREGATIONAL CHRISTIAN CHURCHES
CGE	CHURCHES OF GOD GENERAL CONFERENCE	NAE	NATIONAL ASSOCIATION OF EVANGELICALS
CNF	CONFUCIAN	NFB	NATIONAL FELLOWSHIP OF GRACE BRETHERN CHURCHES
CMC	CONGREGATIONAL METHODIST CHURCH	NAM	NATIVE AMERICAN
CEC	CONGREGATIONAL:EVANGELICAL CONGREGATIONAL CHURCH	NRL	NEW RELIGIONIST
CCC	CONSERVATIVE CONGREGATIONAL CHRISTIAN CONFER- ENCE	NPR	NO PREFERENCE RECORDED
ELF	ELIM FELLOWSHIP	NOE	NO RELIGIOUS PREFERENCE
ELA	ELIM MISSIONARY ASSEMBLIES	OBS	OPEN BIBLE STANDARD CHURCHES,INC
EPI	EPISCOPAL,NOS	OCA	ORTHODOX CHURCH IN AMERICA
EPE	EPISCOPAL:PROTESTANT EPISCOPAL CHURCH	EOT	ORTHODOX,EASTERN CHURCHES,NOS
ERC	EPISCOPAL:REFORMED EPISCOPAL CHURCH	GRE	ORTHODOX,GREEK
ERL	ETHNIC RELIGIONIST	ORT	ORTHODOX,NOT SPEC
ECA	EVANGELICAL CHURCH ALLIANCE	ORR	ORTHODOX,RUSSIAN
ECN	EVANGELICAL CHURCH OF NORTH AMERICA	OTH	OTHER RELIGIONS
ECC	EVANGELICAL COVENANT CHURCH IN AMERICA	PEG	PENTECOSTAL CHURCH OF GOD OF AMERICA,INC
EFC	EVANGELICAL FREE CHURCH OF AMERICA	PEC	PENTECOSTAL CHURCHES
FRQ	FRIENDS	PEH	PENTECOSTAL HOLINESS CHURCH
FRA	FRIENDS:EVANGELICAL FRIENDS ALLIANCE	PEN	PENTECOSTAL,NOS
FRK	FRIENDS:KANSAS YEARLY MEETING OF FRIENDS	COP	PENTECOSTAL,OTHER
FRO	FRIENDS:OHIO YEARLY MEETING OF FRIENDS	PEF	PENTECOSTAL:FULL GOSPEL PENTECOSTAL ASSOCIATION
GCC	GENERAL COMMISSION ON CHAPLAINS & ARMED FORCES PERSONNEL	PEU	PENTECOSTAL:UNITED PENTECOSTAL CHURCH,INTERNA- TIONAL
GCB	GENERAL CONFERENCE OF THE BRETHREN CHURCH	PLB	PLYMOUTH BRETHREN
GGF	GRACE GOSPEL FELLOWSHIP	PCA	PRESBYTERIAN CHURCH IN AMERICA
HIN	HINDU	PRU	PRESBYTERIAN CHURCH IN THE UNITED STATES
HOT	HINDU,OTHER	PCH	PRESBYTERIAN CHURCHES
HSH	HINDU,SHAIVITES	PCC	PRESBYTERIAN COUNCIL FOR CHAPLAINS AND MILITARY PERSONNEL
HVA	HINDI,VAISHNAVITES	ARP	PRESBYTERIAN,ASSOCIATED REFORMED PRESBYTERIAN CHURCH
ICA	INDEPENDENT CHURCHES AFFILIATED	PBP	PRESBYTERIAN:BIBLE PREBYTERIAN CHURCH
IDE	INDEPENDENT DENOMINATIONAL ENDORSING AGENCIES	PCU	PRESBYTERIAN:CUMBERLAND PRESBYTERIN CHURCH
IFB	INDEPENDENT FUNDAMENTAL BIBLE CHURCHES	PRE	PRESBYTERIAN:NOS
IFC	INDEPENDENT FUNDAMENTAL CHURCHES OF AMERICA		
ICF	INTERNATIONAL CHURCH OF THE FOURSQUARE GOSPEL		

PRP	PRESBYTERIAN:ORTHODOX PRESBYTERIAN CHURCH	Child	CHD
PRV	PRESBYTERIAN:REFORMED PRESBYTERIAN CHURCH,EVANGELICAL SYNOD	Son	SON
PUS	PRESBYTERIAN:UNITED PRESBYTERIAN CHURCH IN THE USA	Daughter	DGT
PEU	PRESBYTERIAN:UNITED PRESBYTERIAN CHURCH,EVANGELICAL SYNOD	Daughter-in-law	DIL
PRC	PROTESTANT,OTHER CHURCHES	Father-in-law	FIL
PRO	PROTESTANT-NO DENOM PREF	Foster child	FCH
RCA	REFORMED CHURCH IN AMERICA	Foster Son	FOS
RCU	REFORMED CHURCH IN THE UNITED STATES	Foster Daughter	FOD
REC	REFORMED CHURCHES	Grandparent	GRP
RLD	REORGANIZED CHURCH OF JESUS OF LATTER DAY SAINTS	Grandfather	GRF
SAA	SALVATION ARMY	Grandmother	GRM
SCG	SCHWENKELDER CHURCHES,THE GENERAL CONFERENCE OF	Grandchild	GCH
SEV	SEVENTH DAY ADVENTIST	Granddaughter	GDT
SHN	SHINTOIST	Grandson	GSN
SIK	SIKH	Great Grandson	GGS
SPI	SPIRITIST	Great Granddaughter	GGD
SWC	THE SWEDENBORGIAN CHURCH,GENERAL CONFERENCE OF	Great Great Grandson	GGGS
TRC	TIOGA RIVER CHRISTIAN CONFERENCE	Great Great Granddaughter	GGGD
UNU	UNITARIAN UNIVERSALIST ASSOCIATION	Great grandfather	GGF
UNI	UNITARIAN,NOS	Great grandmother	GGM
UCH	UNITED CHRISTIAN CHURCH	Half brother	HBR
VAR	UNKNOWN	Half sister	HSI
WES	WESLEYAN	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

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

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
- 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

5.2.15 *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 |
| Male Pseudohermaphrodite | MP |
| Female Pseudohermaphrodite | FP |
| Hermaphrodite | H |
| Male changed to Female | MC |
| Female changed to Male | FC |
| 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
- Musculoskeletal, Spine
- Neurologic, Central
- Neurologic, NOS
- Neurologic, Peripheral
- Psychiatric
- Skin

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

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

5.2.33 *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

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

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
VUS	Vascular ultrasound
VR	Virology
XRC	Cineradiograph

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		

5.2.48 (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	Intramascular	TP	Topical
IN	Intranasal	TD	Transdermal
IO	Intraocular	TL	Translingual
IP	Intraperitoneal	UR	Urethral
IS	Intrasynovial	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

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. ^A 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 ^B

^A 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.

^B 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 ^A

^A 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
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R	Same as E, also re- placement and parent-child
D	Same as R, also other associated seg- ments
F	Same as D plus confir- mations explicitly
N	Only MSA segment is returned

(h) BID ^A	= twice a day at institution specified times (for example, 9 AM-4 PM)
(i) TID ^A	= three times a day at institution specified times (for example, 9 AM-4 PM-9 PM)
(j) QID ^A	= 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) Q<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.

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 10001.101.06 shall have the following values:

Lithium Heparin- anticoagulant	LIH	Green	Dry powder. 10 to 30 USP units per mL of blood.
Sodium Heparin- anticoagulant	NAH	Green	Dried solution. 10 to 30 USP units per mL of blood.
Ethylenediaminetetraacetic acid; dipotassium salt [EDTA (K ₂)]	K2E	Lavender	Dry powder. 1.5 to 2.2 mg per mL of blood.
Ethylenediaminetetraacetic acid; tripotassium salt [EDTA (K ₃)]	K3E	Lavender	Clear solution. 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^A = every <integer> seconds
- (b) Q<integer>M^A = every <integer> minutes
- (c) Q<integer>H^A = every <integer> hours
- (d) Q<integer>D^A = every <integer> days
- (e) Q<integer>W^A = every <integer> weeks
- (f) Q<integer>L^A = every <integer> (Lunar cycle)
- (g) Q<integer>J^A = every week on the <integer> day of the week. 1 = Monday, 7 = Sunday (we use J from the French, "jour")

^A 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>		
Diagnostic Impression	K	CE
Recommendation	REC	CE
Confirming procedure	CNP	CE
Procedure medication	MED	CE
Anatomic site	ANT	CE
Device/Instrument	DEV	CE
Serial number device/Instrument	SER	ST
<i>Bulk Text Reports</i>		
Gross or general description of the study	GDT	TX
Microscopic or secondary description	MDT	TX
Technician's comment	TCM	TX
Addendum note	ADT	TX
<i>Other</i>		
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

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:

<i>Base Units</i>	
Ampere	A
Candela	Cd
Kelvin	K
Kilogram	Kg
Metre	M

		Common ISO Derived Units and ISO Extensions ^A	
		Name	Code/Abbreviation
Mole	Mol		
Second	S		
<i>Derived Units</i>		Cells/litre	/l
Coulomb	C	CM of water ^A	cm (h2o)
Day	D	Colony forming units ^A	(cfu)
degree	Cel	Day	d
Celsius		Decibels	db
Farad	F	Decibels a Scale ^A	dba
Hertz	Hz	Degrees Celsius	cel
Hour	Hr	Degrees of Angle	deg
Joule	J	Femtogram	fg
minute (time)	Min	Femtolitre	fl
newton	n	Femtomole	fmol
ohm	ohm	Fibers/millilitre ^A	/ml
Pascal	pal	Grams creatinine ^A	g(creat)
Volt	v	Grams hemoglobin ^A	g(hgb)
Watt	w	Grams total nitrogen ^A	g(tot_nit)
Weber	wb	Grams total protein ^A	g(tot_prot)
Year	ann	Grams wet weight tissue ^A	g(wet_tis)
<i>Other Units</i>		Gram/Decilitre	g/dl
atomic mass unit	u	Gram/Litre	g/l
Bel	b	Grams	g
Decibel	db	International Units ^A	iu
Degree	deg	International Unit/Day ^A	iu/d
Gram	g	International Unit/Millilitre ^A	iu/ml
Grey	gy	International Unit/Litre ^A	iu/l
Henry	h	Kilogram body weight ^A	kg(body_wt)
Liter	l	Katal ^A	kat
Lumen	lm	Katal/Kilogram ^A	kat/kg
Lux	lx	Katal/Litre ^A	kat/l
minute of arc	mnt	Kilocalories	(kcal)
Radian	rad	Kilogram/Litre ^A	kg/l
Siemens	sie	Kilograms	kg
Steradian	sr	Kunkel U ^A	knk_u
Tesla	t	Lumen	lm
		Lumen Per Square Metre	lm/m2
		MacLagan U ^A	mcig_u
		Metres	m
		Metres/Second	m/s
		Metres/Second ²	m/s2
		Micro international unit ^A	uiu
		Microgram	ug
		Microgram/Decilitre	ug/dl
		Microgram/Gram	ug/g
		Microgram/Litre	ug/l
		Microgram/Minute	ug/min
		Microgram/Day	ug/d
		Micro katal ^A	ukat
		Micro metre = micron	um
		Micro mole	umol
		Micro second	us
		Milliequivalents ^A	meq
		Microequivalents ^A	ueq
		Milliequivalents/Litre ^A	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/m3
		Millilitre	ml
		Millilitre/Minute	ml/min
		Millilitre/Second	ml/s
		Millimetre	mm
		Millimetre (HG) ^A	mm(hg)
		Millimetre/Hour	mm/hr
		Millimole/Litre	mmol/l
		Millimoles/Day	mmol/d
		Milliosmols/Litre ^A	mosm/l
		Milliunits/Millilitre ^A	miu/ml
		Moles/Kilogram	mol/kg
		Moles/Litre	mol/l
		Moles/Second	mol/s
		Nanogram	ng
		Nanokatal ^A	nkat
		Nanometre	nm

Unit of Measure:

Exa	10 ¹⁸	ex
Peta	10 ¹⁵	pe
Tera	10 ¹²	T
Giga	10 ⁹	g
Mega	10 ⁶	ma
Kilo	10 ³	K
Hecto	10 ²	h
Deca	10 ¹	da
Deci	10 ⁻¹	d
Centi	10 ⁻²	c
Milli	10 ⁻³	m
Micro	10 ⁻⁶	u
Nano	10 ⁻⁹	n
Pico	10 ⁻¹²	p
Femto	10 ⁻¹⁵	F
Atto	10 ⁻¹⁸	a

Unit of Measure:

Common ISO Derived Units and ISO Extensions ^A		Common ISO Derived Units and ISO Extensions ^A	
Name	Code/Abbreviation	Name	Code/Abbreviation
1/L	/l	1/L	/l
10 ³ /litre ^A	10*3/l	10 ³ /litre ^A	10*3/l
10 ⁶ /litre ^A	10*6/l	10 ⁶ /litre ^A	10*6/l
10 ⁹ /litre ^A	10*9/l	10 ⁹ /litre ^A	10*9/l
10 ¹² /litre ^A	10*12/l	10 ¹² /litre ^A	10*12/l
1/millilitre ^A	1/ml	1/millilitre ^A	1/ml
10 ³ /milliliter ^A	10*3/ml	10 ³ /milliliter ^A	10*3/ml
10 ⁶ /milliliter ^A	10*6/ml	10 ⁶ /milliliter ^A	10*6/ml
10 ⁹ /milliliter ^A	10*9/ml	10 ⁹ /milliliter ^A	10*9/ml
1000 red blood cells ^A	10*3(rbc)	1000 red blood cells ^A	10*3(rbc)
Beats per minute	/min	Beats per minute	/min
Bodansky U ^A	(bdsk_u)	Bodansky U ^A	(bdsk_u)
Body surface area ^A	(bsa)	Body surface area ^A	(bsa)
Calories ^A	(cal)	Calories ^A	(cal)
Catalytic fraction ^A	1	Catalytic fraction ^A	1

Common ISO Derived Units and ISO Extensions ^A	
Name	Code/Abbreviation
Nanosecond	ns
Nanogram/Litre	ng/l
Nanogram/Millilitre	ng/ml
Nanomoles/Second	nmol/s
O.D. (optical density) ^A	(od)
P.U. ^A	(pu)
Pa ^A	(pa)
pH ^A	(ph)
Particles Total Count ^A	1 (tot)/(tot)
Particles/Cubic Metre ^A	/m ³
Particles/Litre ^A	/l
Parts Per Billion ^A	(ppb)
Parts Per Million ^A	(ppm)
Pascal	pa
Per High Power Field ^A	/(hpf)
Percent ^A	%
Picogram	pg
Picogram/Litre	pg/l
Picogram/Millilitre	pg/ml
Picokatel ^A	pkat
Picometre	pm
Picomole	pmol
Picosecond	ps
Todd U ^A	(td_u)
Volume Fraction	1

Unit	Abbreviation
<i>Area</i>	
square foot	Sqf
square inch	Sin
square yard	Syd
<i>Mass</i>	
dram	Dr
grain	gr (avoid)
ounce	Oz
(weight)	
pound	Lb
<i>Other ANSI Units, Derived Units, and Miscellaneous Units</i>	
British thermal unit ^B	Btu
cubic feet/	
min	cft/min
degrees	
fahrenheit ^B	deg f
feet/min ^B	ft/min
Millirad ^B	Mrad
RAD ^B	Rad

^A 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."

^B Non-metric units not explicitly listed in ANSI.

^A 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."

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^A</i>	
year	yr
month	Mo
week	Wk
day	D
hour	Hr
minute	Min
second	Sec

5.2.62 *State Death Certificate Recorded/Practitioner Licensing State (01245/04001.35.01)*—State Death Certificate Recorded/Practitioner Licensing State; Index 01245/04001.35.01 shall have the following values:

These data elements shall reflect the US States in which these events occurred and shall use the codes for State Abbreviations given in FIPSPUB 5-1.

5.2.63 *Immunization Reaction/Result (06001.01.15)*—Immunization Reaction/Result; Index 06001.01.15 shall have the following values:

No Adverse Reaction	NAR
Adverse Reaction, NOS	ADV NOS

5.2.64 *Birth Method (08005.)*—Birth Method; Index 08005. shall have the following values:

Natural: Full Term Spontaneous Vaginal Birth	NFT
Natural: Early Spontaneous Vaginal Birth	NE
Assisted Vaginal Birth	AV
Assisted Vaginal Birth, Forceps	AVF
Assisted Vaginal Birth, Vacuum Device	AVV
Cesarean, NOS	CS
Cesarean, Laboring Patient	CBL
Cesarean, Non-Laboring Patient	CBL

5.2.65 *Tooth Sensitivity Code (09001.30.06)*—Tooth Sensitivity Code; Index 09001.30.06 shall have the following values: