
Message Profile

ORU ROI

2.3.1 Incoming Rhapsody Definition file
Organization: Hawaii Dept. of Health

Contents

Composites

1

Primitive Types

	Name	Description	Base Type	Validation	Reg Exp	Separators
1	ST	String	String	Normal		No separators allowed
2	TX	Text Data	String	Normal		Allow separator: Repeat
3	FT	Formatted Text	String	Normal		No separators allowed
4	NM	Numeric	8 Byte Double	Normal		No separators allowed
5	ID	Using VTabs String	String	Normal		No separators allowed
6	IS	Using userdefined Tabs	String	Normal		No separators allowed
7	SI	Non Negative Integer Sequence ID	4 Byte Long	Use Reg Exp	[0-9]+	No separators allowed
8	TN	Telephone	String	Normal		No separators allowed

Array Types

	Name	Description	Type	Separator
1	NA	Numeric Array	NM	Field2
2	MA	Multiplex Array	NM	Field2

Composites

AD

	Name	Data Type	Required	Length	Default Value	Validation Table
1	StreetAddress	ST	No	0..Infinite		
2	OtherDesignation	ST	No	0..Infinite		
3	City	ST	No	0..Infinite		
4	StateOrProvince	ST	No	0..Infinite		
5	ZipOrPostalCode	ST	No	0..Infinite		
6	Country	ID	No	0..Infinite		
7	AddressType	ID	No	0..Infinite		HL70190
8	OtherGeographicDesignation	ST	No	0..Infinite		

AD.7 (AddressType)

Value	Description
C	Current Or Temporary
P	Permanent
M	Mailing
B	Firm/Business
O	Office
H	Home
N	Birth (nee) (birth address, not otherwise specified)
BDL	Birth delivery location (address where birth occurred)
BR	Residence at birth (home address at time of birth)
F	Country Of Origin
L	Legal Address
RH	Registry home. Refers to the information system, typically managed by a public health agency, that stores patient information such as

BA

immunization histories or cancer data, regardless of where the patient obtains services.

Bad address

Table HL70190

AUI

	Name	DataType	Required	Length	Default Value	Validation Table
1	AuthorizationNumber	ST	No	0..Infinite		
2	AuthorizationDate	DT	No	0..Infinite		
3	Source	ST	No	0..Infinite		

CCD

	Name	DataType	Required	Length	Default Value	Validation Table
1	WhenToCharge	ID	No	0..Infinite		
2	DateTime	TS	No	0..Infinite		

CCP

	Name	DataType	Required	Length	Default Value	Validation Table
1	Sensitivity	NM	No	0..20		
2	Baseline	NM	No	0..20		
3	TimeSkew	NM	No	0..20		

CD

	Name	DataType	Required	Length	Default Value	Validation Table
1	ChannelIdentifier	CID	No	0..Infinite		
2	WaveformSource	WS	No	0..Infinite		
3	ChannelSensitivityAndUnits	CM	No	0..Infinite		
4	ChannelCalibrationParameters	CCP	No	0..Infinite		
5	ChannelSamplingFrequency	NM	No	0..20		
6	MinimumAndMaximumValues	MMV	No	0..Infinite		

CE

	Name	DataType	Required	Length	Default Value	Validation Table
1	Identifier	ST	No	0..Infinite		
2	Text	ST	No	0..Infinite		
3	NameOfCodingSystem	ST	No	0..Infinite		
4	AlternateIdentifier	ST	No	0..Infinite		
5	AlternateText	ST	No	0..Infinite		
6	NameOfAlternateCodingSystem	ST	No	0..Infinite		

CF

	Name	Data Type	Required	Length	Default Value	Validation Table
1	Identifier	ID	No	0..Infinite		
2	Text	FT	No	0..Infinite		
3	NameOfCodingSystem	ST	No	0..Infinite		
4	AlternateIdentifier	ID	No	0..Infinite		
5	AlternateText	FT	No	0..Infinite		
6	NameOfAlternateCodingSystem	ST	No	0..Infinite		

CID

	Name	Data Type	Required	Length	Default Value	Validation Table
1	ChannelNumber	NM	Yes	0..4		
2	ChannelName	ST	No	0..17		

CK

	Name	Data Type	Required	Length	Default Value	Validation Table
1	IDNumber	NM	No	0..Infinite		
2	CheckDigit	NM	No	0..Infinite		
3	CodeIdentifyingTheCheckDigitSchemeEmployed	ID	No	0..Infinite		HL70061
4	AssigningAuthority	HD	No	0..Infinite		

CK.3 (CodeIdentifyingTheCheckDigitSchemeEmployed)

Value	Description
M10	Mod 10 algorithm
M11	Mod 11 algorithm
ISO	ISO 7064: 1983
NPI	Check digit algorithm in the US National Provider Identifier Table HL70061

CM

	Name	Data Type	Required	Length	Default Value	Validation Table
1	Sensitivity	NM	No	0..20		
2	UnitsIdentifier	ST	No	0..Infinite		
3	UnitsText	ST	No	0..Infinite		
4	UnitsNameOfCodingSystem	ST	No	0..Infinite		
5	UnitsAlternateIdentifier	ST	No	0..Infinite		
6	UnitsAlternateText	ST	No	0..Infinite		
7	UnitsNameOfAlternateCodingSystem	ST	No	0..Infinite		

CN

	Name	DataType	Required	Length	Default Value	Validation Table
1	IDNumber	ST	No	0..Infinite		
2	FamilyName	ST	No	0..Infinite		
3	GivenName	ST	No	0..Infinite		
4	MiddleInitialOrName	ST	No	0..Infinite		
5	Suffix	ST	No	0..Infinite		
6	Prefix	ST	No	0..Infinite		
7	Degree	IS	No	0..Infinite		HL70360
8	SourceTable	IS	No	0..Infinite		
9	AssigningAuthority	HD	No	0..Infinite		

CN.7 (Degree)

Value	Description
AAS	Associate of Applied Science
AA	Associate of Arts
ABA	Associate of Business Administration
AE	Associate of Engineering
AS	Associate of Science
BA	Bachelor of Arts
BBA	Bachelor of Business Administration
BE	Bachelor of Engineering
BFA	Bachelor of Fine Arts
BN	Bachelor of Nursing
BS	Bachelor of Science
BSL	Bachelor of Science, Law
BT	Bachelor of Theology
CER	Certificate
DIP	Diploma
DBA	Doctor of Business Administration
DED	Doctor of Education
PHE	Doctor of Engineering
PHD	Doctor of Philosophy
PHS	Doctor of Science
MD	Doctor of Medicine
DO	Doctor of Osteopathy
HS	High School Graduate
JD	Juris Doctor
MA	Master of Arts
MBA	Master of Business Administration
MCE	Master of Civil Engineering
MDI	Master of Divinity
MED	Master of Education
MEE	Master of Electrical Engineering
ME	Master of Engineering
MFA	Master of Fine Arts
MME	Master of Mechanical Engineering
MS	Master of Science
MSL	Master of Science, Law
MT	Master of Theology
NG	Non-Graduate
SEC	Secretarial Certificate
TS	Trade School Graduate

Table HL70360

CP

Name	DataType	Required	Length	Default	Validation
------	----------	----------	--------	---------	------------

					Value	Table
1	Price	MO	No	0	.Infinite	
2	PriceType	ID	No	0	.Infinite	HL70205
3	FromValue	NM	No	0	.Infinite	
4	ToValue	NM	No	0	.Infinite	
5	RangeUnits	CE	No	0	.Infinite	
6	RangeType	ID	No	0	.Infinite	HL70298

CP.2 (PriceType)

Value	Description
AP	administrative price or handling fee
PF	professional fee for performing provider
UP	unit price, may be based on length of procedure or service
TF	technology fee for use of equipment
DC	direct unit cost
IC	indirect unit cost
TP	total price

Table HL70205

CP.6 (RangeType)

Value	Description
P	Pro-rate. Apply this price to this interval, pro-rated by whatever portion of the interval has occurred/been consumed
F	Flat-rate. Apply the entire price to this interval, do not pro-rate the price if the full interval has not occurred/been consumed

Table HL70298

CQ

	Name	Data Type	Required	Length	Default Value	Validation Table
1	Quantity	NM	No	0	.Infinite	
2	Units	CE	No	0	.Infinite	

CX

	Name	Data Type	Required	Length	Default Value	Validation Table
1	IDNumber	ST	No	0	.Infinite	
2	CheckDigit	ST	No	0	.Infinite	
3	CodeIdentifyingTheCheckDigitSchemeEmployed	ID	No	0	.Infinite	
4	AssigningAuthority	HD	No	0	.Infinite	
5	IdentifierTypeCode	IS	No	0	.Infinite	HL70203
6	AssigningFacility	HD	No	0	.Infinite	

CX.5 (IdentifierTypeCode)

Value	Description
AM	American Express
AN	Account number
BR	Birth registry number
DI	Diners Club card
DL	Drivers license number
DN	Doctor number
DS	Discover Card
EI	Employee number
EN	Employer number
FI	Facility ID

GI	Guarantor internal identifier
GN	Guarantor external identifier
LN	License number
LR	Local Registry ID
MS	MasterCard
MA	Medicaid number
MC	Medicare number
MR	Medical record number
NE	National employer identifier
NI	National unique individual identifier
NH	National Health Plan Identifier
NNxxx	National Person Identifier where the xxx is the ISO table 3166 3-character (alphabetic) country code
NPI	National provider identifier
PI	Patient internal identifier
PN	Person number
PRN	Provider number
PT	Patient external identifier
RRI	Regional registry ID
RR	Railroad Retirement number
SL	State license
SR	State registry ID
SS	Social Security number
U	Unspecified
UPIN	Medicare/HCFAs Universal Physician Identification numbers
VS	VISA
VN	Visit number
WC	WIC identifier
XX	Organization identifier

Table HL70203

DDI

	Name	Data Type	Required	Length	Default Value	Validation Table
1	DelayDays	NM	No	0..Infinite		
2	Amount	NM	No	0..Infinite		
3	NumberOfDays	NM	No	0..Infinite		

DIN

	Name	Data Type	Required	Length	Default Value	Validation Table
1	DateTime	TS	No	0..Infinite		
2	InstitutionName	CE	No	0..Infinite		

DLD

	Name	Data Type	Required	Length	Default Value	Validation Table
1	DischargeLocation	IS	No	0..Infinite		
2	EffectiveDate	TS	No	0..Infinite		

DLN

	Name	DataType	Required	Length	Default Value	Validation Table
1	LicenseNumber	ST	No	0..Infinite		
2	IssuingStateProvinceCountry	IS	No	0..Infinite		
3	ExpirationDate	DT	No	0..Infinite		

DLT

	Name	DataType	Required	Length	Default Value	Validation Table
1	Range	NR	No	0..Infinite		
2	NumericThreshold	NM	No	0..Infinite		
3	Change	ST	No	0..Infinite		
4	LengthOfTimeDays	NM	No	0..Infinite		

DR

	Name	DataType	Required	Length	Default Value	Validation Table
1	RangeStartDateTime	TS	No	0..Infinite		
2	RangeEndDateTime	TS	No	0..Infinite		

DT

	Name	DataType	Required	Length	Default Value	Validation Table
1	Year	2 Byte Short	Yes	4..4		
2	Month	2 Byte Short	Yes	2..2		
3	Day	2 Byte Short	Yes	2..2		

DTN

	Name	DataType	Required	Length	Default Value	Validation Table
1	DayType	IS	No	0..Infinite		
2	NumberOfDays	NM	No	0..Infinite		

DTTM

	Name	DataType	Required	Length	Default Value	Validation Table
1	Year	2 Byte Short	Yes	4..4		
2	Month	2 Byte Short	No	2..2		
3	Day	2 Byte Short	No	2..2		
4	Hours	2 Byte Short	No	2..2		
5	Minutes	2 Byte Short	No	2..2		
6	Seconds	2 Byte Short	No	2..2		
7	Millis	2 Byte Short	No	3..3		

8 GmtOffset ST No 5 .5

ED

	Name	Data Type	Required	Length	Default Value	Validation Table
1	SourceApplication	HD	No	0..Infinite		
2	TypeOfData	ID	No	0..Infinite		HL70191
3	SubType	ID	No	0..Infinite		HL70291
4	Encoding	ID	No	0..Infinite		HL70299
5	Data	ST	No	0..Infinite		

ED.2 (TypeOfData)

Value	Description
SI	Scanned image (HL7 V2.2 only)
SI	Scanned image
NS	Non-scanned image (HL7 V2.2 only)
NS	Non-scanned image
SD	Scanned document (HL7 V2.2 only)
SD	Scanned document
TX	Machine readable text document (HL7 V2.2 only)
TX	Machine readable text document
FT	Formatted text (HL7 V2.2 only)
FT	Formatted text
TEXT	Machine readable text document (HL7 V2.3.1 and later)
IM	Image data (new with HL7 v 2.3)
AU	Audio data (new with HL7 v 2.3)
AP	Other application data, typically uninterpreted binary data (new with HL7 v 2.3)
Image	Image data (HL7 V2.3 and later)
Audio	Audio data (HL7 V2.3 and later)
Application	Other application data, typically uninterpreted binary data (HL7 V2.3 and later)

Table HL70191

ED.3 (SubType)

Value	Description
TIFF	TIFF Image Data
PICT	PICT format image data
DICOM	Digital Imaging and Communications in Medicine
FAX	Facsimile data
JOT	Electronic ink data (Jot 1.0 standard)
BASIC	ISDN PCM audio data
Octet-stream	Uninterpreted Binary Data
PostScript	PostScript Program
JPEG	Joint Photographics Expert Group
GIF	Graphics Interchange Format
HTML	HyperText Markup Language
RTF	Rich Text Format

Table HL70291

ED.4 (Encoding)

Value	Description
A	ASCII
Hex	Hexadecimal encoding
Base64	MIME Encoding

Table HL70299

EI

	Name	DataType	Required	Length	Default Value	Validation Table
1	EntityIdentifier	ST	No	0..Infinite		
2	NamespaceID	IS	No	0..Infinite		
3	UniversalID	ST	No	0..Infinite		
4	UniversalIDType	ID	No	0..Infinite		HL70301

EI.4 (UniversalIDType)

Value	Description
DNS	An Internet dotted name. Either in ASCII or as integers
GUID	Same as UUID.
HCD	The CEN Healthcare Coding Scheme Designator. (Identifiers used in DICOM follow this assignment scheme.)
HL7	Reserved for future HL7 registration schemes
ISO	An International Standards Organization Object Identifier
L	These are reserved for locally defined coding schemes.
Random	Usually a base64 encoded string of random bits. The uniqueness depends on the length of the bits. Mail systems often generate ASCII string unique names, from a combination of random bits and system names. Obviously, such identifiers will not be con
UUID	The DCE Universal Unique Identifier
x400	An X.400 MHS format identifier
x500	An X.500 directory name
M	These are reserved for locally defined coding schemes.
N	These are reserved for locally defined coding schemes.

Table HL70301

EIP

	Name	DataType	Required	Length	Default Value	Validation Table
1	ParentsPlacerOrderNumber	EI	No	0..Infinite		
2	ParentsFillerOrderNumber	EI	No	0..Infinite		

ELD

	Name	DataType	Required	Length	Default Value	Validation Table
1	SegmentID	ST	No	0..Infinite		
2	Sequence	NM	No	0..Infinite		
3	FieldPosition	NM	No	0..Infinite		
4	CodeIdentifyingError	CE	No	0..Infinite		

FC

	Name	DataType	Required	Length	Default Value	Validation Table
1	FinancialClass	IS	No	0..Infinite		
2	EffectiveDate	TS	No	0..Infinite		

HD

	Name	DataType	Required	Length	Default Value	Validation Table
1	NamespaceID	IS	No	0..Infinite		
2	UniversalID	ST	No	0..Infinite		
3	UniversalIDType	ID	No	0..Infinite		HL70301

HD.3 (UniversalIDType)

Value	Description
DNS	An Internet dotted name. Either in ASCII or as integers
GUID	Same as UUID.
HCD	The CEN Healthcare Coding Scheme Designator. (Identifiers used in DICOM follow this assignment scheme.)
HL7	Reserved for future HL7 registration schemes
ISO	An International Standards Organization Object Identifier
L	These are reserved for locally defined coding schemes.
Random	Usually a base64 encoded string of random bits. The uniqueness depends on the length of the bits. Mail systems often generate ASCII string unique names, from a combination of random bits and system names. Obviously, such identifiers will not be con
UUID	The DCE Universal Unique Identifier
x400	An X.400 MHS format identifier
x500	An X.500 directory name
M	These are reserved for locally defined coding schemes.
N	These are reserved for locally defined coding schemes. Table HL70301

ICD

	Name	DataType	Required	Length	Default Value	Validation Table
1	PreCertificationPatientType	IS	No	0..Infinite		
2	PreCertificationRequired	ID	No	0..Infinite		
3	PreCertificationWindow	TS	No	0..Infinite		

JCC

	Name	DataType	Required	Length	Default Value	Validation Table
1	JobCode	IS	No	0..Infinite		
2	JobClass	IS	No	0..Infinite		

LA1

	Name	DataType	Required	Length	Default Value	Validation Table
1	PointOfCare	IS	No	0..Infinite		
2	Room	IS	No	0..Infinite		
3	Bed	IS	No	0..Infinite		
4	Facility	HD	No	0..Infinite		
5	LocationStatus	IS	No	0..Infinite		
6	PatientLocationType	IS	No	0..Infinite		
7	Building	IS	No	0..Infinite		
8	Floor	IS	No	0..Infinite		
9	Address	AD	No	0..Infinite		

LA2

	Name	DataType	Required	Length	Default Value	Validation Table
1	PointOfCare	IS	No	0..Infinite		
2	Room	IS	No	0..Infinite		
3	Bed	IS	No	0..Infinite		
4	Facility	HD	No	0..Infinite		
5	LocationStatus	IS	No	0..Infinite		
6	PatientLocationType	IS	No	0..Infinite		
7	Building	IS	No	0..Infinite		
8	Floor	IS	No	0..Infinite		
9	StreetAddress	ST	No	0..Infinite		
10	OtherDesignation	ST	No	0..Infinite		
11	City	ST	No	0..Infinite		
12	StateOrProvince	ST	No	0..Infinite		
13	ZipOrPostalCode	ST	No	0..Infinite		
14	Country	ID	No	0..Infinite		
15	AddressType	ID	No	0..Infinite		
16	OtherGeographicDesignation	ST	No	0..Infinite		

MMV

	Name	DataType	Required	Length	Default Value	Validation Table
1	MinimumValue	NM	No	0..20		
2	MaximumValue	NM	No	0..20		

MO

	Name	DataType	Required	Length	Default Value	Validation Table
1	Quantity	NM	No	0..Infinite		
2	Denomination	ID	No	0..Infinite		

MOC

	Name	DataType	Required	Length	Default Value	Validation Table
1	DollarAmount	MO	No	0..Infinite		
2	ChargeCode	CE	No	0..Infinite		

MOP

	Name	DataType	Required	Length	Default Value	Validation Table
1	PenaltyType	IS	No	0..Infinite		
2	PenaltyAmount	NM	No	0..Infinite		

MSG

	Name	Data Type	Required	Length	Default Value	Validation Table
1	MessageType	ID	No	0..3		
2	TriggerEvent	ID	No	0..3		HL70003
3	MessageStructure	ID	No	0..8		

MSG.2 (TriggerEvent)

Value	Description
A01	ADT/ACK - Admit/visit notification
A02	ADT/ACK - Transfer a patient
A03	ADT/ACK - Discharge/end visit
A04	ADT/ACK - Register a patient
A05	ADT/ACK - Pre-admit a patient
A06	ADT/ACK - Change an outpatient to an inpatient
A07	ADT/ACK - Change an inpatient to an outpatient
A08	ADT/ACK - Update patient information
A09	ADT/ACK - Patient departing - tracking
A10	ADT/ACK - Patient arriving - tracking
A11	ADT/ACK - Cancel admit/visit notification
A12	ADT/ACK - Cancel transfer
A13	ADT/ACK - Cancel discharge/end visit
A14	ADT/ACK - Pending admit
A15	ADT/ACK - Pending transfer
A16	ADT/ACK - Pending discharge
A17	ADT/ACK - Swap patients
A18	ADT/ACK - Merge patient information
A19	QRY/ADR - Patient query
A20	ADT/ACK - Bed status update
A21	ADT/ACK - Patient goes on a leave of absence
A22	ADT/ACK - Patient returns from a leave of absence
A23	ADT/ACK - Delete a patient record
A24	ADT/ACK - Link patient information
A25	ADT/ACK - Cancel pending discharge
A26	ADT/ACK - Cancel pending transfer
A27	ADT/ACK - Cancel pending admit
A28	ADT/ACK - Add person information
A29	ADT/ACK - Delete person information
A30	ADT/ACK - Merge person information
A31	ADT/ACK - Update person information
A32	ADT/ACK - Cancel patient arriving - tracking
A33	ADT/ACK - Cancel patient departing - tracking
A34	ADT/ACK - Merge patient information - patient ID only
A35	ADT/ACK - Merge patient information - account number only
A36	ADT/ACK - Merge patient information - patient ID and account number
A37	ADT/ACK - Unlink patient information
A38	ADT/ACK - Cancel pre-admit
A39	ADT/ACK - Merge person, patient ID
A40	ADT/ACK - Merge patient, patient identifier list
A41	ADT/ACK - Merge account, patient account number
A42	ADT/ACK - Merge visit, visit number
A43	ADT/ACK - Move patient information, patient identifier list
A44	ADT/ACK - Move account information, patient account number
A45	ADT/ACK - Move visit information, visit number
A46	ADT/ACK - Change patient ID
A47	ADT/ACK - Change patient identifier list
A48	ADT/ACK - Change alternate patient ID
A49	ADT/ACK - Change patient account number
A50	ADT/ACK - Change visit number

A51	ADT/ACK - Change alternate visit ID
C01	CRM - Register a patient on a clinical trial
C02	CRM - Cancel a patient registration on clinical trial (for clerical mistakes only)
C03	CRM - Correct/update registration information
C04	CRM - Patient has gone off a clinical trial
C05	CRM - Patient enters phase of clinical trial
C06	CRM - Cancel patient entering a phase (clerical mistake)
C07	CRM - Correct/update phase information
C08	CRM - Patient has gone off phase of clinical trial
C09	CSU - Automated time intervals for reporting, like monthly
C10	CSU - Patient completes the clinical trial
C11	CSU - Patient completes a phase of the clinical trial
C12	CSU - Update/correction of patient order/result information
CNQ	QRY/EQQ/SPQ/VQQ/RQQ - Cancel query
I01	RQI/RPI - Request for insurance information
I02	RQI/RPL - Request/receipt of patient selection display list
I03	RQI/RPR - Request/receipt of patient selection list
I04	RQD/RPI - Request for patient demographic data
I05	RQC/RCI - Request for patient clinical information
I06	RQC/RCL - Request/receipt of clinical data listing
I07	PIN/ACK - Unsolicited insurance information
I08	RQA/RPA - Request for treatment authorization information
I09	RQA/RPA - Request for modification to an authorization
I10	RQA/RPA - Request for resubmission of an authorization
I11	RQA/RPA - Request for cancellation of an authorization
I12	REF/RRI - Patient referral
I13	REF/RRI - Modify patient referral
I14	REF/RRI - Cancel patient referral
I15	REF/RRI - Request patient referral status
M01	MFN/MFK - Master file not otherwise specified (for backward compatibility only)
M02	MFN/MFK - Master file, staff practitioner
M03	MFN/MFK - Master file, test/observation (for backward compatibility only)
M04	MFN/MFK - Charge description master file
M05	MFN/MFK - Patient location master file
M06	MFN/MFK - Clinical study with phases and schedules master file
M07	MFN/MFK - Clinical study without phases but with schedules master file
M08	MFN/MFK - Test/observation (numeric) master file
M09	MFN/MFK - Test/observation (categorical) master file
M10	MFN/MFK - Test /observation batteries master file
M11	MFN/MFK - Test/calculated observations master file
O01	ORM - Order message (also RDE, RDS, RGV, RAS)
O02	ORR - Order response (also RRE, RRD, RRG, RRA)
P01	BAR/ACK - Add patient accounts
P02	BAR/ACK - Purge patient accounts
P03	DFT/ACK - Post detail financial transaction
P04	QRY/DSP , Generate bill and A/R statements
P05	BAR/ACK , Update account
P06	BAR/ACK , End account
P07	PEX - Unsolicited initial individual product experience report
P08	PEX - Unsolicited update individual product experience report
P09	SUR - Summary product experience report
PC1	PPR - PC/ Problem Add
PC2	PPR - PC/ Problem Update
PC3	PPR - PC/ Problem Delete
PC4	QRY - PC/ Problem Query
PC5	PRR - PC/ Problem Response
PC6	PGL - PC/ Goal Add
PC7	PGL - PC/ Goal Update
PC8	PGL - PC/ Goal Delete

PC9	QRY - PC/ Goal Query
PCA	PPV - PC/ Goal Response
PCB	PPP - PC/ Pathway (Problem-Oriented) Add
PCC	PPP - PC/ Pathway (Problem-Oriented) Update
PCD	PPP - PC/ Pathway (Problem-Oriented) Delete
PCE	QRY - PC/ Pathway (Problem-Oriented) Query
PCF	PTR - PC/ Pathway (Problem-Oriented) Query Response
PCG	PPG - PC/ Pathway (Goal-Oriented) Add
PCH	PPG - PC/ Pathway (Goal-Oriented) Update
PCJ	PPG - PC/ Pathway (Goal-Oriented) Delete
PCK	QRY - PC/ Pathway (Goal-Oriented) Query
PCL	PPT - PC/ Pathway (Goal-Oriented) Query Response
Q01	QRY/DSR - Query sent for immediate response
Q02	QRY/QCK - Query sent for deferred response
Q03	DSR/ACK - Deferred response to a query
Q04	EQQ , Embedded query language query
Q05	UDM/ACK - Unsolicited display update message
Q06	OSQ/OSR - Query for order status
Q07	VQQ , Virtual table query
Q08	SPQ , Stored procedure request
Q09	RQQ , event replay query
R01	ORU/ACK - Unsolicited transmission of an observation message
R02	QRY - Query for results of observation
R03	QRY/DSR Display-oriented results, query/unsol. update (for backward compatibility only)
R04	ORF - Response to query; transmission of requested observation
R05	QRY/DSR - query for display results
R06	UDM - unsolicited update/display results
R07	EDR , enhanced display response
R08	TBR , tabular data response
R09	ERP , event replay response
RAR	RAR , Pharmacy administration information query response
RDR	RDR - Pharmacy dispense information query response
RER	RER - Pharmacy encoded order information query response
RGR	RGR - Pharmacy dose information query response
R0R	R0R - Pharmacy prescription order query response
S01	SRM/SRR - Request new appointment booking
S02	SRM/SRR - Request appointment rescheduling
S03	SRM/SRR - Request appointment modification
S04	SRM/SRR - Request appointment cancellation
S05	SRM/SRR - Request appointment discontinuation
S06	SRM/SRR - Request appointment deletion
S07	SRM/SRR - Request addition of service/resource on appointment
S08	SRM/SRR - Request modification of service/resource on appointment
S09	SRM/SRR - Request cancellation of service/resource on appointment
S10	SRM/SRR - Request discontinuation of service/resource on appointment
S11	SRM/SRR - Request deletion of service/resource on appointment
S12	SIU/ACK - Notification of new appointment booking
S13	SIU/ACK - Notification of appointment rescheduling
S14	SIU/ACK - Notification of appointment modification
S15	SIU/ACK - Notification of appointment cancellation
S16	SIU/ACK - Notification of appointment discontinuation
S17	SIU/ACK - Notification of appointment deletion
S18	SIU/ACK - Notification of addition of service/resource on appointment
S19	SIU/ACK - Notification of modification of service/resource on appointment
S20	SIU/ACK - Notification of cancellation of service/resource on appointment
S21	SIU/ACK - Notification of discontinuation of service/resource on appointment
S22	SIU/ACK - Notification of deletion of service/resource on appointment
S23	SIU/ACK - Notification of blocked schedule time slot(s)
S24	SIU/ACK - Notification of opened (unblocked) schedule time slot(s)

S25	SQM/SQR - Schedule query message and response
S26	SIU/ACK Notification that patient did not show up for schedule appointment
T01	MDM/ACK - Original document notification
T02	MDM/ACK - Original document notification and content
T03	MDM/ACK - Document status change notification
T04	MDM/ACK - Document status change notification and content
T05	MDM/ACK - Document addendum notification
T06	MDM/ACK - Document addendum notification and content
T07	MDM/ACK - Document edit notification
T08	MDM/ACK - Document edit notification and content
T09	MDM/ACK - Document replacement notification
T10	MDM/ACK - Document replacement notification and content
T11	MDM/ACK - Document cancel notification
T12	QRY/DOC - Document query
V01	VXQ - Query for vaccination record
V02	VXX - Response to vaccination query returning multiple PID matches
V03	VXR - Vaccination record response
V04	VXU - Unsolicited vaccination record update
W01	ORU - Waveform result, unsolicited transmission of requested information
W02	QRF - Waveform result, response to query

Table HL70003

NDL

	Name	DataType	Required	Length	Default Value	Validation Table
1	PersonName	CN	No	0..Infinite		
2	StartDateTime	TS	No	0..Infinite		
3	EndDateTime	TS	No	0..Infinite		
4	PointOfCare	IS	No	0..Infinite		
5	Room	IS	No	0..Infinite		
6	Bed	IS	No	0..Infinite		
7	Facility	HD	No	0..Infinite		
8	LocationStatus	IS	No	0..Infinite		
9	PatientLocationType	IS	No	0..Infinite		
10	Building	IS	No	0..Infinite		
11	Floor	IS	No	0..Infinite		

NR

	Name	DataType	Required	Length	Default Value	Validation Table
1	LowValue	NM	No	0..Infinite		
2	HighValue	NM	No	0..Infinite		

OCD

	Name	DataType	Required	Length	Default Value	Validation Table
1	OccurrenceCode	IS	No	0..Infinite		
2	OccurrenceDate	DT	No	0..Infinite		

OCD1

	Name	DataType	Required	Length	Default Value	Validation Table
1	OccurrenceCode	CE	No	0..Infinite		
2	OccurrenceDate	DT	No	0..Infinite		

OSD

	Name	DataType	Required	Length	Default Value	Validation Table
1	SequenceOrResultsFlag	ID	No	0..Infinite		
2	PONEntityIdentifier	ST	No	0..Infinite		
3	PONNamespaceID	IS	No	0..Infinite		
4	FONEntityIdentifier	ST	No	0..Infinite		
5	FONNamespaceID	IS	No	0..Infinite		
6	SequenceConditionValue	ST	No	0..Infinite		
7	MaxNumOfRepeats	NM	No	0..Infinite		
8	PONUniversalID	ST	No	0..Infinite		
9	PONUniversalIDType	ID	No	0..Infinite		
10	FONUniversalID	ST	No	0..Infinite		
11	FONUniversalIDType	ID	No	0..Infinite		

OSP

	Name	DataType	Required	Length	Default Value	Validation Table
1	OccurrenceSpanCode	CE	No	0..Infinite		
2	OccurrenceSpanStartDate	DT	No	0..Infinite		
3	OccurrenceSpanStopDate	DT	No	0..Infinite		

PIP

	Name	DataType	Required	Length	Default Value	Validation Table
1	Privilege	CE	No	0..Infinite		
2	PrivilegeClass	CE	No	0..Infinite		
3	ExpirationDate	DT	No	0..Infinite		
4	ActivationDate	DT	No	0..Infinite		
5	Facility	EI	No	0..Infinite		

PL

	Name	DataType	Required	Length	Default Value	Validation Table
1	PointOfCare	IS	No	0..Infinite		
2	Room	IS	No	0..Infinite		
3	Bed	IS	No	0..Infinite		
4	Facility	HD	No	0..Infinite		
5	LocationStatus	IS	No	0..Infinite		
6	PatientLocationType	IS	No	0..Infinite		
7	Building	IS	No	0..Infinite		
8	Floor	IS	No	0..Infinite		

9 LocationDescription ST No 0. .Infinite

PLN

	Name	DataType	Required	Length	Default Value	Validation Table
1	IDNumber	ST	No	0. .Infinite		
2	TypeOfIDNumber	IS	No	0. .Infinite		
3	OtherQualifyingInfo	ST	No	0. .Infinite		

PLN1

	Name	DataType	Required	Length	Default Value	Validation Table
1	IDNumber	ST	No	0. .Infinite		
2	TypeOfIDNumber	IS	No	0. .Infinite		
3	StateOtherQualifyingInfo	ST	No	0. .Infinite		
4	ExpirationDate	DT	No	0. .Infinite		

PN

	Name	DataType	Required	Length	Default Value	Validation Table
1	FamilyName	ST	No	0. .Infinite		
2	GivenName	ST	No	0. .Infinite		
3	MiddleInitialOrName	ST	No	0. .Infinite		
4	Suffix	ST	No	0. .Infinite		
5	Prefix	ST	No	0. .Infinite		
6	Degree	IS	No	0. .Infinite		HL70360

PN.6 (Degree)

Value	Description
AAS	Associate of Applied Science
AA	Associate of Arts
ABA	Associate of Business Administration
AE	Associate of Engineering
AS	Associate of Science
BA	Bachelor of Arts
BBA	Bachelor of Business Administration
BE	Bachelor of Engineering
BFA	Bachelor of Fine Arts
BN	Bachelor of Nursing
BS	Bachelor of Science
BSL	Bachelor of Science, Law
BT	Bachelor of Theology
CER	Certificate
DIP	Diploma
DBA	Doctor of Business Administration
DED	Doctor of Education
PHE	Doctor of Engineering
PHD	Doctor of Philosophy
PHS	Doctor of Science
MD	Doctor of Medicine
DO	Doctor of Osteopathy
HS	High School Graduate

JD	Juris Doctor
MA	Master of Arts
MBA	Master of Business Administration
MCE	Master of Civil Engineering
MDI	Master of Divinity
MED	Master of Education
MEE	Master of Electrical Engineering
ME	Master of Engineering
MFA	Master of Fine Arts
MME	Master of Mechanical Engineering
MS	Master of Science
MSL	Master of Science, Law
MT	Master of Theology
NG	Non-Graduate
SEC	Secretarial Certificate
TS	Trade School Graduate

Table HL70360

PPN

	Name	Data Type	Required	Length	Default Value	Validation Table
1	IDNumber	ST	No	0..Infinite		
2	FamilyName	ST	No	0..Infinite		
3	GivenName	ST	No	0..Infinite		
4	MiddleInitialOrName	ST	No	0..Infinite		
5	Suffix	ST	No	0..Infinite		
6	Prefix	ST	No	0..Infinite		
7	Degree	IS	No	0..Infinite		HL70360
8	SourceTable	IS	No	0..Infinite		
9	AssigningAuthority	HD	No	0..Infinite		
10	NameTypeCode	ID	No	0..Infinite		HL70200
11	IdentifierCheckDigit	ST	No	0..Infinite		
12	CodeIdentifyingTheCheckDigitSchemeEmployed	ID	No	0..Infinite		HL70061
13	IdentifierTypeCode	IS	No	0..Infinite		HL70203
14	AssigningFacility	HD	No	0..Infinite		
15	WhenAuthenticated	TS	No	0..Infinite		
16	NameRepresentationCode	ID	No	0..Infinite		HL74000

PPN.7 (Degree)

Value	Description
AAS	Associate of Applied Science
AA	Associate of Arts
ABA	Associate of Business Administration
AE	Associate of Engineering
AS	Associate of Science
BA	Bachelor of Arts
BBA	Bachelor of Business Administration
BE	Bachelor of Engineering
BFA	Bachelor of Fine Arts
BN	Bachelor of Nursing
BS	Bachelor of Science
BSL	Bachelor of Science, Law
BT	Bachelor of Theology
CER	Certificate
DIP	Diploma
DBA	Doctor of Business Administration
DED	Doctor of Education
PHE	Doctor of Engineering
PHD	Doctor of Philosophy

PHS	Doctor of Science
MD	Doctor of Medicine
DO	Doctor of Osteopathy
HS	High School Graduate
JD	Juris Doctor
MA	Master of Arts
MBA	Master of Business Administration
MCE	Master of Civil Engineering
MDI	Master of Divinity
MED	Master of Education
MEE	Master of Electrical Engineering
ME	Master of Engineering
MFA	Master of Fine Arts
MME	Master of Mechanical Engineering
MS	Master of Science
MSL	Master of Science, Law
MT	Master of Theology
NG	Non-Graduate
SEC	Secretarial Certificate
TS	Trade School Graduate

Table HL70360

PPN.10 (NameTypeCode)

Value	Description
A	Alias Name
L	Legal Name
D	Display Name
M	Maiden Name
C	Adopted Name
B	Name at Birth
P	Name of Partner/Spouse
S	Coded Pseudo-Name to ensure anonymity
T	Tribal/Community Name
U	Unspecified

Table HL70200

PPN.12 (CodeIdentifyingTheCheckDigitSchemeEmployed)

Value	Description
M10	Mod 10 algorithm
M11	Mod 11 algorithm
ISO	ISO 7064: 1983
NPI	Check digit algorithm in the US National Provider Identifier

Table HL70061

PPN.13 (IdentifierTypeCode)

Value	Description
AM	American Express
AN	Account number
BR	Birth registry number
DI	Diners Club card
DL	Drivers license number
DN	Doctor number
DS	Discover Card
EI	Employee number
EN	Employer number
FI	Facility ID
GI	Guarantor internal identifier
GN	Guarantor external identifier
LN	License number
LR	Local Registry ID
MS	MasterCard
MA	Medicaid number
MC	Medicare number
MR	Medical record number

NE	National employer identifier
NI	National unique individual identifier
NH	National Health Plan Identifier
NNxxx	National Person Identifier where the xxx is the ISO table 3166 3-character (alphabetic) country code
NPI	National provider identifier
PI	Patient internal identifier
PN	Person number
PRN	Provider number
PT	Patient external identifier
RRI	Regional registry ID
RR	Railroad Retirement number
SL	State license
SR	State registry ID
SS	Social Security number
U	Unspecified
UPIN	Medicare/HCFAs Universal Physician Identification numbers
VS	VISA
VN	Visit number
WC	WIC identifier
XX	Organization identifier Table HL70203

PPN.16 (NameRepresentationCode)

Value	Description
I	Ideographic (i.e., Kanji)
A	Alphabetic (i.e., Default or some single-byte)
P	Phonetic (i.e., ASCII, Katakana, Hiragana, etc.) Table HL74000

PRL

	Name	Data Type	Required	Length	Default Value	Validation Table
1	OBX3ObservationIdentifierOfParentResult	CE	No	0..Infinite		
2	OBX4SubIDOfParentResult	ST	No	0..Infinite		
3	OBX5ObservationResultsFromParent	TX	No	0..Infinite		

PT

	Name	Data Type	Required	Length	Default Value	Validation Table
1	ProcessingID	ID	No	0..Infinite	P	HL70103
2	ProcessingMode	ID	No	0..Infinite		HL70207

PT.1 (ProcessingID)

Value	Description
D	Debugging
P	Production
T	Training

Table HL70103

PT.2 (ProcessingMode)

Value	Description
A	Archive
R	Restore from archive
I	Initial load

T
not present

Current processing, transmitted at intervals (scheduled or on demand)
Not present (the default, meaning current processing)
Table HL70207

PTA

	Name	Data Type	Required	Length	Default Value	Validation Table
1	PolicyType	IS	No	0..Infinite		
2	AmountClass	IS	No	0..Infinite		
3	Amount	NM	No	0..Infinite		

QIP

	Name	Data Type	Required	Length	Default Value	Validation Table
1	SegmentFieldName	ST	No	0..Infinite		
2	Value	ST	No	0..Infinite		

QSC

	Name	Data Type	Required	Length	Default Value	Validation Table
1	SegmentFieldName	ST	No	0..Infinite		
2	RelationalOperator	ID	No	0..Infinite		HL70209
3	Value	ST	No	0..Infinite		
4	RelationalConjunction	ID	No	0..Infinite		HL70210

QSC.2 (RelationalOperator)

Value	Description
EQ	Equal
EQ	Equal
NE	Not Equal
NE	Not Equal
LT	Less than
LT	Less than
GT	Greater than
GT	Greater than
LE	Less than or equal
LE	Less than or equal
GE	Greater than or equal
GE	Greater than or equal
CT	Contains
CT	Contains
GN	Generic
GN	Generic

Table HL70209

QSC.4 (RelationalConjunction)

Value	Description
AND	Default
AND	Default
OR	Default
OR	Default

Table HL70210

RCD

	Name	DataType	Required	Length	Default Value	Validation Table
1	SegmentFieldName	ST	No	0..Infinite		
2	HL7DataType	ST	No	0..Infinite		
3	MaximumColumnWidth	NM	No	0..Infinite		

RFR

	Name	DataType	Required	Length	Default Value	Validation Table
1	Range	NR	No	0..Infinite		
2	Sex	IS	No	0..Infinite		
3	AgeRange	NR	No	0..Infinite		
4	AgeGestation	NR	No	0..Infinite		
5	Species	TX	No	0..Infinite		
6	RaceSubspecies	ST	No	0..Infinite		
7	TextConditions	TX	No	0..Infinite		

RFR1

	Name	DataType	Required	Length	Default Value	Validation Table
1	Range	NR	No	0..Infinite		
2	NumericChange	NM	No	0..Infinite		
3	PercentAChange	NM	No	0..Infinite		
4	Days	NM	No	0..Infinite		

RI

	Name	DataType	Required	Length	Default Value	Validation Table
1	RepeatPattern	IS	No	0..Infinite		
2	ExplicitTimeInterval	ST	No	0..Infinite		

RMC

	Name	DataType	Required	Length	Default Value	Validation Table
1	RoomType	IS	No	0..Infinite		
2	AmountType	IS	No	0..Infinite		
3	CoverageAmount	NM	No	0..Infinite		

RP

	Name	DataType	Required	Length	Default Value	Validation Table
1	Pointer	ST	No	0..Infinite		
2	ApplicationID	HD	No	0..Infinite		

3	TypeOfData	ID	No	0..Infinite	HL70191
4	SubType	ID	No	0..Infinite	HL70291

RP.3 (TypeOfData)

Value	Description
SI	Scanned image (HL7 V2.2 only)
SI	Scanned image
NS	Non-scanned image (HL7 V2.2 only)
NS	Non-scanned image
SD	Scanned document (HL7 V2.2 only)
SD	Scanned document
TX	Machine readable text document (HL7 V2.2 only)
TX	Machine readable text document
FT	Formatted text (HL7 V2.2 only)
FT	Formatted text
TEXT	Machine readable text document (HL7 V2.3.1 and later)
IM	Image data (new with HL7 v 2.3)
AU	Audio data (new with HL7 v 2.3)
AP	Other application data, typically uninterpreted binary data (new with HL7 v 2.3)
Image	Image data (HL7 V2.3 and later)
Audio	Audio data (HL7 V2.3 and later)
Application	Other application data, typically uninterpreted binary data (HL7 V2.3 and later)

Table HL70191

RP.4 (SubType)

Value	Description
TIFF	TIFF Image Data
PICT	PICT format image data
DICOM	Digital Imaging and Communications in Medicine
FAX	Facsimile data
JOT	Electronic ink data (Jot 1.0 standard)
BASIC	ISDN PCM audio data
Octet-stream	Uninterpreted Binary Data
PostScript	PostScript Program
JPEG	Joint Photographics Expert Group
GIF	Graphics Interchange Format
HTML	HyperText Markup Language
RTF	Rich Text Format

Table HL70291

SCV

	Name	Data Type	Required	Length	Default Value	Validation Table
1	ParameterClass	IS	No	0..Infinite		HL70294
2	ParameterValue	ST	No	0..Infinite		

SCV.1 (ParameterClass)

Value	Description
Prefstart	The preferred start time for the appointment request, service or resource. Any legal time specification in the format HHMM, using 24-hour clock notation
PREFSTART	The preferred start time for the appointment request, service or resource. Any legal time specification in the format HHMM, using 24-hour clock notation
Prefend	The preferred end time for the appointment request, service or resource. Any legal time specification in the format HHMM, using 24-hour clock notation
PREFEND	The preferred end time for the appointment request, service or

resource. Any legal time specification in the format HHMM, using 24-hour clock notation

Mon	An indicator that Monday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred
MON	An indicator that Monday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred
TUE	An indicator that Tuesday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred
Tue	An indicator that Tuesday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred
Wed	An indicator that Wednesday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred
WED	An indicator that Wednesday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred
Thu	An indicator that Thursday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred
THU	An indicator that Thursday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred
Fri	An indicator that Friday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred
FRI	An indicator that Friday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred
Sat	An indicator that Saturday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred
SAT	An indicator that Saturday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred
Sun	An indicator that Sunday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred
SUN	An indicator that Sunday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred

Table HL70294

SN

	Name	DataType	Required	Length	Default Value	Validation Table
1	Comparator	ST	No	0..2		HL7SNComparator
2	Num1	NM	No	0..Infinite		
3	SeparatorSuffix	ST	No	0..1		HL7SNSeparatorSuffix
4	Num2	ST	No	0..10		

SN.1 (Comparator)

Value	Description
>	Greater than
<	Less than
>=	Greater than or equal to
<=	Less than or equal to
=	Equals

<>

Not equals
Table HL7SNComparator

SN.3 (SeparatorSuffix)

Value	Description
-	
+	
/	
:	

Table HL7SNSeparatorSuffix

SPD

	Name	Data Type	Required	Length	Default Value	Validation Table
1	SpecialtyName	ST	No	0..Infinite		
2	GoverningBoard	ST	No	0..Infinite		
3	EligibleOrCertified	ID	No	0..Infinite		
4	DateOfCertification	DT	No	0..Infinite		

SPS

	Name	Data Type	Required	Length	Default Value	Validation Table
1	SpecimenSourceNameOrCode	CE	No	0..Infinite		
2	Additives	TX	No	0..Infinite		
3	Freetext	TX	No	0..Infinite		
4	BodySite	CE	No	0..Infinite		
5	SiteModifier	CE	No	0..Infinite		
6	CollectionMethodModifierCode	CE	No	0..Infinite		

TM

	Name	Data Type	Required	Length	Default Value	Validation Table
1	Hours	2 Byte Short	No	2..2		
2	Minutes	2 Byte Short	No	2..2		
3	Seconds	2 Byte Short	No	2..2		
4	Millis	2 Byte Short	No	3..3		
5	GmtOffset	ST	No	5..5		

TQ

	Name	Data Type	Required	Length	Default Value	Validation Table
1	Quantity	CQ	No	0..Infinite		
2	Interval	RI	No	0..Infinite		
3	Duration	ST	No	0..Infinite		
4	StartDateTime	TS	No	0..Infinite		
5	EndDateTime	TS	No	0..Infinite		
6	Priority	ST	No	0..Infinite		
7	Condition	ST	No	0..Infinite		

8	Text	TX	No	0	.Infinite
9	Conjunction	ST	No	0	.Infinite
10	OrderSequencing	OSD	No	0	.Infinite
11	OccurrenceDuration	CE	No	0	.Infinite
12	TotalOccurrences	NM	No	0	.Infinite

TS

	Name	DataType	Required	Length	Default Value	Validation Table
1	Time	String	No	0	.Infinite	
2	Precision	ST	No	0	.Infinite	

UVC

	Name	DataType	Required	Length	Default Value	Validation Table
1	ValueCode	IS	No	0	.Infinite	
2	ValueAmount	NM	No	0	.Infinite	

VH

	Name	DataType	Required	Length	Default Value	Validation Table
1	StartDayRange	ID	No	0	.Infinite	HL70267
2	EndDayRange	ID	No	0	.Infinite	HL70267
3	StartHourRange	TM	No	0	.Infinite	
4	EndHourRange	TM	No	0	.Infinite	

VH.1 (StartDayRange)

Value	Description
SAT	Saturday
SUN	Sunday
MON	Monday
TUE	Tuesday
WED	Wednesday
THU	Thursday
FRI	Friday

Table HL70267

VH.2 (EndDayRange)

Value	Description
SAT	Saturday
SUN	Sunday
MON	Monday
TUE	Tuesday
WED	Wednesday
THU	Thursday
FRI	Friday

Table HL70267

VID

	Name	DataType	Required	Length	Default	Validation
--	------	----------	----------	--------	---------	------------

					Value	Table
1	VersionID	ID	No	0	.Infinite	HL70104
2	InternationalizationCode	CE	No	0	.Infinite	
3	InternationalVersionID	CE	No	0	.Infinite	

VID.1 (VersionID)

Value	Description
2.0	Release 2.0
2.0D	Demo 2.0
2.1	Release 2. 1
2.2	Release 2.2
2.3	Release 2.3
2.3.1	Release 2.3.1
2.3.2	Release 2.3.2

Table HL70104

VR

	Name	DataType	Required	Length	Default Value	Validation Table
1	FirstDataCodeValue	ST	No	0	.Infinite	
2	LastDataCodeValue	ST	No	0	.Infinite	

WS

	Name	DataType	Required	Length	Default Value	Validation Table
1	WaveformSource1	ST	No	0	.8	
2	WaveformSource2	ST	No	0	.8	

XAD

	Name	DataType	Required	Length	Default Value	Validation Table
1	StreetAddress	ST	No	0	.Infinite	
2	OtherDesignation	ST	No	0	.Infinite	
3	City	ST	No	0	.Infinite	
4	StateOrProvince	ST	No	0	.Infinite	
5	ZipOrPostalCode	ST	No	0	.Infinite	
6	Country	ID	No	0	.Infinite	
7	AddressType	ID	No	0	.Infinite	HL70190
8	OtherGeographicDesignation	ST	No	0	.Infinite	
9	CountyOrParishCode	IS	No	0	.Infinite	
10	CensusTract	IS	No	0	.Infinite	
11	AddressRepresentationCode	ID	No	0	.Infinite	HL74000

XAD.7 (AddressType)

Value	Description
C	Current Or Temporary
P	Permanent
M	Mailing
B	Firm/Business
O	Office
H	Home
N	Birth (nee) (birth address, not otherwise specified)

BDL	Birth delivery location (address where birth occurred)
BR	Residence at birth (home address at time of birth)
F	Country Of Origin
L	Legal Address
RH	Registry home. Refers to the information system, typically managed by a public health agency, that stores patient information such as immunization histories or cancer data, regardless of where the patient obtains services.
BA	Bad address

Table HL70190

XAD.11 (AddressRepresentationCode)

Value	Description
I	Ideographic (i.e., Kanji)
A	Alphabetic (i.e., Default or some single-byte)
P	Phonetic (i.e., ASCII, Katakana, Hiragana, etc.)

Table HL74000

XCN

	Name	Data Type	Required	Length	Default Value	Validation Table
1	IDNumber	ST	No	0..Infinite		
2	FamilyName	ST	No	0..Infinite		
3	GivenName	ST	No	0..Infinite		
4	MiddleInitialOrName	ST	No	0..Infinite		
5	Suffix	ST	No	0..Infinite		
6	Prefix	ST	No	0..Infinite		
7	Degree	IS	No	0..Infinite		HL70360
8	SourceTable	IS	No	0..Infinite		
9	AssigningAuthority	HD	No	0..Infinite		
10	NameTypeCode	ID	No	0..Infinite		HL70200
11	IdentifierCheckDigit	ST	No	0..Infinite		
12	CodeIdentifyingTheCheckDigitSchemeEmployed	ID	No	0..Infinite		HL70061
13	IdentifierTypeCode	IS	No	0..Infinite		HL70203
14	AssigningFacility	HD	No	0..Infinite		
15	NameRepresentationCode	ID	No	0..Infinite		HL74000

XCN.7 (Degree)

Value	Description
AAS	Associate of Applied Science
AA	Associate of Arts
ABA	Associate of Business Administration
AE	Associate of Engineering
AS	Associate of Science
BA	Bachelor of Arts
BBA	Bachelor of Business Administration
BE	Bachelor of Engineering
BFA	Bachelor of Fine Arts
BN	Bachelor of Nursing
BS	Bachelor of Science
BSL	Bachelor of Science, Law
BT	Bachelor of Theology
CER	Certificate
DIP	Diploma
DBA	Doctor of Business Administration
DED	Doctor of Education
PHE	Doctor of Engineering
PHD	Doctor of Philosophy
PHS	Doctor of Science
MD	Doctor of Medicine

DO	Doctor of Osteopathy
HS	High School Graduate
JD	Juris Doctor
MA	Master of Arts
MBA	Master of Business Administration
MCE	Master of Civil Engineering
MDI	Master of Divinity
MED	Master of Education
MEE	Master of Electrical Engineering
ME	Master of Engineering
MFA	Master of Fine Arts
MME	Master of Mechanical Engineering
MS	Master of Science
MSL	Master of Science, Law
MT	Master of Theology
NG	Non-Graduate
SEC	Secretarial Certificate
TS	Trade School Graduate

Table HL70360

XCEN.10 (NameTypeCode)

Value	Description
A	Alias Name
L	Legal Name
D	Display Name
M	Maiden Name
C	Adopted Name
B	Name at Birth
P	Name of Partner/Spouse
S	Coded Pseudo-Name to ensure anonymity
T	Tribal/Community Name
U	Unspecified

Table HL70200

XCEN.12 (CodeIdentifyingTheCheckDigitSchemeEmployed)

Value	Description
M10	Mod 10 algorithm
M11	Mod 11 algorithm
ISO	ISO 7064: 1983
NPI	Check digit algorithm in the US National Provider Identifier

Table HL70061

XCEN.13 (IdentifierTypeCode)

Value	Description
AM	American Express
AN	Account number
BR	Birth registry number
DI	Diners Club card
DL	Drivers license number
DN	Doctor number
DS	Discover Card
EI	Employee number
EN	Employer number
FI	Facility ID
GI	Guarantor internal identifier
GN	Guarantor external identifier
LN	License number
LR	Local Registry ID
MS	MasterCard
MA	Medicaid number
MC	Medicare number
MR	Medical record number
NE	National employer identifier
NI	National unique individual identifier

NH	National Health Plan Identifier
NNxxx	National Person Identifier where the xxx is the ISO table 3166 3-character (alphabetic) country code
NPI	National provider identifier
PI	Patient internal identifier
PN	Person number
PRN	Provider number
PT	Patient external identifier
RRI	Regional registry ID
RR	Railroad Retirement number
SL	State license
SR	State registry ID
SS	Social Security number
U	Unspecified
UPIN	Medicare/HCFAs Universal Physician Identification numbers
VS	VISA
VN	Visit number
WC	WIC identifier
XX	Organization identifier

Table HL70203

XCN.15 (NameRepresentationCode)

Value	Description
I	Ideographic (i.e., Kanji)
A	Alphabetic (i.e., Default or some single-byte)
P	Phonetic (i.e., ASCII, Katakana, Hiragana, etc.)

Table HL74000

XON

	Name	Data Type	Required	Length	Default Value	Validation Table
1	OrganizationName	ST	No	0..Infinite		
2	OrganizationNameTypeCode	IS	No	0..Infinite		HL70204
3	IDNumber	NM	No	0..Infinite		
4	CheckDigit	NM	No	0..Infinite		
5	CodeIdentifyingTheCheckDigitSchemeEmployed	ID	No	0..Infinite		HL70061
6	AssigningAuthority	HD	No	0..Infinite		
7	IdentifierTypeCode	IS	No	0..Infinite		HL70203
8	AssigningFacilityID	HD	No	0..Infinite		
9	NameRepresentationCode	ID	No	0..Infinite		HL74000

XON.2 (OrganizationNameTypeCode)

Value	Description
A	Alias name
L	Legal name
D	Display name
SL	Stock exchange listing name

Table HL70204

XON.5 (CodeIdentifyingTheCheckDigitSchemeEmployed)

Value	Description
M10	Mod 10 algorithm
M11	Mod 11 algorithm
ISO	ISO 7064: 1983
NPI	Check digit algorithm in the US National Provider Identifier

Table HL70061

XON.7 (IdentifierTypeCode)

Value	Description
AM	American Express

AN	Account number
BR	Birth registry number
DI	Diners Club card
DL	Drivers license number
DN	Doctor number
DS	Discover Card
EI	Employee number
EN	Employer number
FI	Facility ID
GI	Guarantor internal identifier
GN	Guarantor external identifier
LN	License number
LR	Local Registry ID
MS	MasterCard
MA	Medicaid number
MC	Medicare number
MR	Medical record number
NE	National employer identifier
NI	National unique individual identifier
NH	National Health Plan Identifier
NNxxx	National Person Identifier where the xxx is the ISO table 3166 3-character (alphabetic) country code
NPI	National provider identifier
PI	Patient internal identifier
PN	Person number
PRN	Provider number
PT	Patient external identifier
RRI	Regional registry ID
RR	Railroad Retirement number
SL	State license
SR	State registry ID
SS	Social Security number
U	Unspecified
UPIN	Medicare/HCFAs Universal Physician Identification numbers
VS	VISA
VN	Visit number
WC	WIC identifier
XX	Organization identifier

Table HL70203

XON.9 (NameRepresentationCode)

Value	Description
I	Ideographic (i.e., Kanji)
A	Alphabetic (i.e., Default or some single-byte)
P	Phonetic (i.e., ASCII, Katakana, Hiragana, etc.)

Table HL74000

XPN

	Name	Data Type	Required	Length	Default Value	Validation Table
1	FamilyName	ST	No	0..Infinite		
2	GivenName	ST	No	0..Infinite		
3	MiddleInitialOrName	ST	No	0..Infinite		
4	Suffix	ST	No	0..Infinite		
5	Prefix	ST	No	0..Infinite		
6	Degree	IS	No	0..Infinite		HL70360
7	NameTypeCode	ID	No	0..Infinite		HL70200
8	NameRepresentationCode	ID	No	0..Infinite		HL74000

XPN.6 (Degree)

Value	Description
AAS	Associate of Applied Science
AA	Associate of Arts
ABA	Associate of Business Administration
AE	Associate of Engineering
AS	Associate of Science
BA	Bachelor of Arts
BBA	Bachelor of Business Administration
BE	Bachelor of Engineering
BFA	Bachelor of Fine Arts
BN	Bachelor of Nursing
BS	Bachelor of Science
BSL	Bachelor of Science, Law
BT	Bachelor of Theology
CER	Certificate
DIP	Diploma
DBA	Doctor of Business Administration
DED	Doctor of Education
PHE	Doctor of Engineering
PHD	Doctor of Philosophy
PHS	Doctor of Science
MD	Doctor of Medicine
DO	Doctor of Osteopathy
HS	High School Graduate
JD	Juris Doctor
MA	Master of Arts
MBA	Master of Business Administration
MCE	Master of Civil Engineering
MDI	Master of Divinity
MED	Master of Education
MEE	Master of Electrical Engineering
ME	Master of Engineering
MFA	Master of Fine Arts
MME	Master of Mechanical Engineering
MS	Master of Science
MSL	Master of Science, Law
MT	Master of Theology
NG	Non-Graduate
SEC	Secretarial Certificate
TS	Trade School Graduate

Table HL70360

XPN.7 (NameTypeCode)

Value	Description
A	Alias Name
L	Legal Name
D	Display Name
M	Maiden Name
C	Adopted Name
B	Name at Birth
P	Name of Partner/Spouse
S	Coded Pseudo-Name to ensure anonymity
T	Tribal/Community Name
U	Unspecified

Table HL70200

XPN.8 (NameRepresentationCode)

Value	Description
I	Ideographic (i.e., Kanji)
A	Alphabetic (i.e., Default or some single-byte)
P	Phonetic (i.e., ASCII, Katakana, Hiragana, etc.)

Table HL74000

XTN

	Name	Data Type	Required	Length	Default Value	Validation Table
1	PhoneNumberString	ST	No	0..Infinite		
2	TelecommunicationUseCode	ID	No	0..Infinite		HL70201
3	TelecommunicationEquipmentType	ID	No	0..Infinite		HL70202
4	EmailAddress	ST	No	0..Infinite		
5	CountryCode	NM	No	0..Infinite		
6	AreaOrCityCode	NM	No	0..Infinite		
7	PhoneNumber	NM	No	0..Infinite		
8	Extension	NM	No	0..Infinite		
9	AnyText	ST	No	0..Infinite		

XTN.2 (TelecommunicationUseCode)

Value	Description
PRN	Primary Residence Number
ORN	Other Residence Number
WPN	Work Number
VHN	Vacation Home Number
ASN	Answering Service Number
EMR	Emergency Number
NET	Network (email) Address
BPN	Beeper Number

Table HL70201

XTN.3 (TelecommunicationEquipmentType)

Value	Description
PH	Telephone
FX	Fax
MD	Modem
CP	Cellular Phone
BP	Beeper
Internet	Internet Address: Use Only If Telecommunication Use Code Is NET
X.400	X.400 email address: Use Only If Telecommunication Use Code Is NET

Table HL70202

Segments

CTI

	Name	Data Type	Required	Length	Repeats	Default Value	Validation Table
1	SponsorStudyID	EI	Yes	0..60	..		
2	StudyPhaseIdentifier	CE	No	0..60	..		
3	StudyScheduledTimePoint	CE	No	0..60	..		

DSC

	Name	Data Type	Required	Length	Repeats	Default Value	Validation Table
--	------	-----------	----------	--------	---------	---------------	------------------

1 ContinuationPointer ST No 0..180 ..

MSH

	Name	Data Type	Required	Length	Repeats	Default Value	Validation Table
1	FieldSeparator	ST	Yes	0..1	..		
2	EncodingCharacters	ST	Yes	0..4	..		
3	SendingApplication	HD	Yes	0..180	..		
4	SendingFacility	HD	No	0..180	..		
5	ReceivingApplication	HD	No	0..180	..		
6	ReceivingFacility	HD	No	0..180	..		
7	DateTimeOfMessage	TS	No	0..26	..		
8	Security	ST	No	0..40	..		
9	MessageType	MSG	Yes	0..16	..		
10	MessageControlID	ST	Yes	0..20	..		
11	ProcessingID	PT	Yes	0..3	..		
12	VersionID	VID	Yes	0..60	..		
13	SequenceNumber	NM	No	0..15	..		
14	ContinuationPointer	ST	No	0..180	..		
15	AcceptAcknowledgementType	ID	No	0..2	..		HL70155
16	ApplicationAcknowledgementType	ID	No	0..2	..		HL70155
17	CountryCode	ID	No	0..2	..		
18	CharacterSet	ID	No	0..16	0..Infinite		HL70211
19	PrincipalLanguageOfMessage	CE	No	0..60	..		
20	AlternateCharacterSetHandlingScheme	ID	No	0..20	..		HL70356

MSH.15 (AcceptAcknowledgementType)

Value	Description
AL	Always
NE	Never
ER	Error/reject conditions only
SU	Successful completion only Table HL70155

MSH.16 (ApplicationAcknowledgementType)

Value	Description
AL	Always
NE	Never
ER	Error/reject conditions only
SU	Successful completion only Table HL70155

MSH.18 (CharacterSet)

Value	Description
ASCII	The printable 7-bit ASCII character set. (This is the default if this field is omitted)
8859/1	The printable characters from the ISO 8859/1 Character set
8859/2	The printable characters from the ISO 8859/2 Character set
8859/3	The printable characters from the ISO 8859/3 Character set
8859/4	The printable characters from the ISO 8859/4 Character set
8859/5	The printable characters from the ISO 8859/5 Character set
8859/6	The printable characters from the ISO 8859/6 Character set
8859/7	The printable characters from the ISO 8859/7 Character set
8859/8	The printable characters from the ISO 8859/8 Character set
8859/9	The printable characters from the ISO 8859/9 Character set

ISO IR14	Code for Information Exchange (one byte)(JIS X 0201-1976). Note that the code contains a space, i.e. ISO IR14.
ISO IR87	Code for the Japanese Graphic Character set for information interchange (JIS X 0208-1990), Note that the code contains a space, i.e. ISO IR87.
ISO 159	Code of the supplementary Japanese Graphic Character set for information interchange (JIS X 0212-1990), Note that the code contains a space, i.e. ISO IR159.
UNICODE	The world wide character standard from ISO/IEC 10646-1-1993 Table HL70211

MSH.20 (AlternateCharacterSetHandlingScheme)

Value	Description
ISO 2022-1994	2022-1994 This standard is titled Information Technology - Character Code Structure and Extension Technique. This standard specifies an escape sequence from basic one byte character set to specified other character set, and vice versa. The escape sequence expl
<null>	This is the default, indicating that there is no character set switching occurring in this message. Table HL70356

MSH.SendingApplication (Composite HD) Overrides

	Name	Required	Length	Default Value	Validation Table
1	NamespaceID	-	..	-	CLH Sending Application

MSH.ReceivingApplication (Composite HD) Overrides

	Name	Required	Length	Default Value	Validation Table
1	NamespaceID	-	..	-	CLH Receiving Application

MSH.MessageType (Composite MSG) Overrides

	Name	Required	Length	Default Value	Validation Table
1	MessageType	-	..	-	HL70076
3	MessageStructure	-	..	-	HL70354

NK1

	Name	Data Type	Required	Length	Repeats	Default Value	Validation Table
1	SetID	SI	Yes	0..4	..		
2	Name	XPN	No	0..48	0..Infinite		
3	Relationship	CE	No	0..60	..		
4	Address	XAD	No	0..106	0..Infinite		
5	PhoneNumber	XTN	No	0..40	0..Infinite		
6	BusinessPhoneNumber	XTN	No	0..40	0..Infinite		
7	ContactRole	CE	No	0..60	..		
8	StartDate	DT	No	0..8	..		
9	EndDate	DT	No	0..8	..		
10	NextOfKinAssociatedPartiesJobTitle	ST	No	0..60	..		
11	NextOfKinAssociatedPartiesJobCodeClass	JCC	No	0..20	..		
12	NextOfKinAssociatedPartiesEmployeeNumber	CX	No	0..20	..		
13	OrganizationName	XON	No	0..90	0..Infinite		

14	MaritalStatus	CE	No	0.80	..	
15	Sex	IS	No	0.1	..	HL70001
16	DateTimeOfBirth	TS	No	0.26	..	
17	LivingDependency	IS	No	0.2	0..Infinite	HL70223
18	AmbulatoryStatus	IS	No	0.2	0..Infinite	HL70009
19	Citizenship	CE	No	0.80	0..Infinite	
20	PrimaryLanguage	CE	No	0.60	..	
21	LivingArrangement	IS	No	0.2	..	HL70220
22	PublicityCode	CE	No	0.80	..	
23	ProtectionIndicator	ID	No	0.1	..	HL70136
24	StudentIndicator	IS	No	0.2	..	HL70231
25	Religion	CE	No	0.80	..	
26	MothersMaidenName	XPN	No	0.48	0..Infinite	
27	Nationality	CE	No	0.80	..	
28	EthnicGroup	CE	No	0.80	0..Infinite	
29	ContactReason	CE	No	0.80	0..Infinite	
30	ContactPersonsName	XPN	No	0.48	0..Infinite	
31	ContactPersonsTelephone Number	XTN	No	0.40	0..Infinite	
32	ContactPersonsAddress	XAD	No	0.106	0..Infinite	
33	NextOfKinAssociatedPartys Identifiers	CX	No	0.32	0..Infinite	
34	JobStatus	IS	No	0.2	..	
35	Race	CE	No	0.80	0..Infinite	
36	Handicap	IS	No	0.2	..	
37	ContactPersonSocialSecurit yNumber	ST	No	0.16	..	

NK1.15 (Sex)

Value	Description
F	Female
M	Male
O	Other
U	Unknown

Table HL70001

NK1.17 (LivingDependency)

Value	Description
D	Spouse dependent
M	Medical Supervision Required
S	Small children
WU	Walk up
CB	Common Bath

Table HL70223

NK1.18 (AmbulatoryStatus)

Value	Description
A0	No functional limitations
A1	Ambulates with assistive device
A2	Wheelchair/stretchers bound
A3	Comatose; non-responsive
A4	Disoriented
A5	Vision impaired
A6	Hearing impaired
A7	Speech impaired

A8	Non-English speaking
A9	Functional level unknown
B1	Oxygen therapy
B2	Special equipment (tubes, IVs, catheters)
B3	Amputee
B4	Mastectomy
B5	Paraplegic
B6	Pregnant

Table HL70009

NK1.21 (LivingArrangement)

Value	Description
A	Alone
F	Family
I	Institution
R	Relative
U	Unknown
S	Spouse Only

Table HL70220

NK1.23 (ProtectionIndicator)

Value	Description
Y	Yes
N	No

Table HL70136

NK1.24 (StudentIndicator)

Value	Description
F	Full-time student
P	Part-time student
N	Not a student

Table HL70231

NK1.MaritalStatus (Composite CE) Overrides

	Name	Required	Length	Default Value	Validation Table
1	Identifier	No	..		HL70002

NTE

	Name	Data Type	Required	Length	Repeats	Default Value	Validation Table
1	SetID	SI	No	0..4	..		
2	SourceOfComment	ID	No	0..8	..		HL70105
3	Comment	FT	No	0..655 36	0..Infinite		
4	CommentType	CE	No	0..60	..		

NTE.2 (SourceOfComment)

Value	Description
L	Ancillary (filler) department is source of comment
P	Orderer (placer) is source of comment
O	Other system is source of comment

Table HL70105

NTE.CommentType (Composite CE) Overrides

	Name	Required	Length	Default Value	Validation Table
1	Identifier	No	..		HL70364

OBR

	Name	Data Type	Required	Length	Repeats	Default Value	Validation Table
1	SetID	SI	No	0..4	..		
2	PlacerOrderNumber	EI	No	0..22	..		
3	FillerOrderNumber	EI	No	0..22	..		
4	UniversalServiceID	CE	Yes	0..200	..		
5	Priority	ID	No	0..2	..		
6	RequestedDateTime	TS	No	0..26	..		
7	ObservationDateTime	TS	No	0..26	..		
8	ObservationEndDateTime	TS	No	0..26	..		
9	CollectionVolume	CQ	No	0..20	..		
10	CollectorIdentifier	XCN	No	0..60	0..Infinite		
11	SpecimenActionCode	ID	No	0..1	..		HL70065
12	DangerCode	CE	No	0..60	..		
13	RelevantClinicalInfo	ST	No	0..300	..		
14	SpecimenReceivedDateTime	TS	No	0..26	..		
15	SpecimenSource	SPS	No	0..300	..		
16	OrderingProvider	XCN	No	0..120	0..Infinite		
17	OrderCallbackPhoneNumber	XTN	No	0..40	0..2		
18	PlacerField1	ST	No	0..60	..		
19	PlacerField2	ST	No	0..60	..		
20	FillerField1	ST	No	0..60	..		
21	FillerField2	ST	No	0..60	..		
22	ResultsRptStatusChngDateTime	TS	No	0..26	..		
23	ChargeToPractice	MOC	No	0..40	..		
24	DiagnosticServSectID	ID	No	0..10	..		
25	ResultStatus	ID	No	0..1	..		HL70123
26	ParentResult	PRL	No	0..200	..		
27	QuantityTiming	TQ	No	0..200	0..Infinite		
28	ResultCopiesTo	XCN	No	0..150	0..5		
29	ParentNumber	EIP	No	0..200	..		
30	TransportationMode	ID	No	0..20	..		HL70124
31	ReasonForStudy	CE	No	0..300	0..Infinite		
32	PrincipalResultInterpreter	NDL	No	0..200	..		
33	AssistantResultInterpreter	NDL	No	0..200	0..Infinite		
34	Technician	NDL	No	0..200	0..Infinite		
35	Transcriptionist	NDL	No	0..200	0..Infinite		
36	ScheduledDateTime	TS	No	0..26	..		
37	NumberOfSampleContainers	NM	No	0..4	..		
38	TransportLogisticsOfCollectedSample	CE	No	0..60	0..Infinite		
39	CollectorsComment	CE	No	0..200	0..Infinite		
40	TransportArrangementResponsibility	CE	No	0..60	..		
41	TransportArranged	ID	No	0..30	..		HL70224
42	EscortRequired	ID	No	0..1	..		HL70225
43	PlannedPatientTransportComment	CE	No	0..200	0..Infinite		
44	ProcedureCode	CE	No	0..80	..		
45	ProcedureCodeModifier	CE	No	0..80	0..Infinite		

OBR.11 (SpecimenActionCode)

Value	Description
A	Add ordered tests to the existing specimen
G	Generated order; reflex order
L	Lab to obtain specimen from patient
O	Specimen obtained by service other than Lab
P	Pending specimen; Order sent prior to delivery
R	Revised order
S	Schedule the tests specified below Table HL70065

OBR.25 (ResultStatus)

Value	Description
O	Order received; specimen not yet received
I	No results available; specimen received, procedure incomplete
S	No results available; procedure scheduled, but not done
A	Some, but not all, results available
P	Preliminary: A verified early result is available, final results not yet obtained
C	Correction to results
C	Correction to results
R	Results stored; not yet verified
F	Final results; results stored and verified. Can only be changed with a corrected result.
X	No results available; Order canceled.
Y	No order on record for this test. (Used only on queries)
Y	No order on record for this test. (Used only on queries)
Z	No record of this patient. (Used only on queries) Table HL70123

OBR.30 (TransportationMode)

Value	Description
CART	Cart - patient travels on cart or gurney
PORT	The examining device goes to patients location
WALK	Patient walks to diagnostic service
WHLC	Wheelchair Table HL70124

OBR.41 (TransportArranged)

Value	Description
A	Arranged
A	Arranged
N	Not Arranged
N	Not Arranged
U	Unknown
U	Unknown Table HL70224

OBR.42 (EscortRequired)

Value	Description
R	Required
N	Not Required
U	Unknown Table HL70225

OBR.FillerOrderNumber (Composite EI) Overrides

	Name	Required	Length	Default Value	Validation Table
1	EntityIdentifier	Yes	..	-	-

OBR.SpecimenSource.SpecimenSourceNameOrCode (Composite CE) Overrides

	Name	Required	Length	Default Value	Validation Table
1	Identifier	No	..		-

OBR.OrderingProvider (Composite XCN) Overrides

	Name	Required	Length	Default Value	Validation Table
7	Degree	-	..	-	

OBX

	Name	Data Type	Required	Length	Repeats	Default Value	Validation Table
1	SetID	SI	Yes	0..4	..		
2	ValueType	ID	Yes	0..3	..		HL70125
3	ObservationIdentifier	CE	No	0..80	..		
4	ObservationSubID	ST	No	0..20	..		
5	ObservationValue	Variable	No	0..65536	0..Infinite		
6	Units	CE	No	0..60	..		
7	ReferencesRange	ST	No	0..60	..		
8	AbnormalFlags	ID	No	0..10	0..5		
9	Probability	NM	No	0..5	..		
10	NatureOfAbnormalTest	ID	No	0..5	0..Infinite		HL70080
11	ObservationResultStatus	ID	No	0..2	..		HL70085
12	DateLastObsNormalValues	TS	No	0..26	..		
13	UserDefinedAccessChecks	ST	No	0..20	..		
14	DateTimeOfTheObservation	TS	No	0..26	..		
15	ProducersID	CE	No	0..60	..		
16	ResponsibleObserver	XCN	No	0..60	0..Infinite		
17	ObservationMethod	CE	No	0..60	0..Infinite		

OBX.2 (ValueType)

Value	Description
AD	Address
CE	Coded Entry
CF	Coded Element With Formatted Values
CK	Composite ID With Check Digit
CN	Composite ID And Name
CP	Composite Price
CX	Extended Composite ID With Check Digit
DT	Date
ED	Encapsulated Data
FT	Formatted Text (Display)
MO	Money
NM	Numeric
PN	Person Name
RP	Reference Pointer
SN	Structured Numeric
ST	String Data.
TM	Time
TN	Telephone Number
TS	Time Stamp (Date and Time)
TX	Text Data (Display)
XAD	Extended Address
XCN	Extended Composite Name And Number For Persons

XON	Extended Composite Name And Number For Organizations
XPN	Extended Person Name
XTN	Extended Telecommunications Number
	Table HL70125

OBX.5 (ObservationValue)

This is a variable type field. The field type is determined at runtime by the value of field 'ValueType'.

OBX.10 (NatureOfAbnormalTest)

Value	Description
A	An age-based population
N	None - generic normal range
R	A race-based population
S	A sex-based population
	Table HL70080

OBX.11 (ObservationResultStatus)

Value	Description
C	Record coming over is a correction and thus replaces a final result
D	Deletes the OBX record
F	Final results; Can only be changed with a corrected result.
I	Specimen in lab; results pending
N	Not asked; used to affirmatively document that the observation identified in the OBX was not sought when the universal service ID in OBR-4 implies that it would be sought.
O	Order detail description only (no result)
P	Preliminary results
R	Results entered -- not verified
S	Partial results
X	Results cannot be obtained for this observation
U	Results status change to final without retransmitting results already sent as preliminary. E.g., radiology changes status from preliminary to final
W	Post original as wrong, e.g., transmitted for wrong patient
	Table HL70085

ORC

	Name	Data Type	Required	Length	Repeats	Default Value	Validation Table
1	OrderControl	ID	Yes	0..2	..		HL70119
2	PlacerOrderNumber	EI	No	0..22	..		
3	FillerOrderNumber	EI	No	0..22	..		
4	PlacerGroupNumber	EI	No	0..22	..		
5	OrderStatus	ID	No	0..2	..		HL70038
6	ResponseFlag	ID	No	0..1	..		HL70121
7	QuantityTiming	TQ	No	0..200	0..Infinite		
8	Parent	EIP	No	0..200	..		
9	DateTimeOfTransaction	TS	No	0..26	..		
10	EnteredBy	XCN	No	0..120	0..Infinite		
11	VerifiedBy	XCN	No	0..120	0..Infinite		
12	OrderingProvider	XCN	No	0..120	0..Infinite		
13	EnterersLocation	PL	No	0..80	..		
14	CallBackPhoneNumber	XTN	No	0..40	0..2		
15	OrderEffectiveDateTime	TS	No	0..26	..		
16	OrderControlCodeReason	CE	No	0..200	..		
17	EnteringOrganization	CE	No	0..60	..		
18	EnteringDevice	CE	No	0..60	..		
19	ActionBy	XCN	No	0..120	0..Infinite		

20	AdvancedBeneficiaryNotice Code	CE	No	0.40	. .	ite
21	OrderingFacilityName	XON	No	0.60	0. .Infinite	ite
22	OrderingFacilityAddress	XAD	No	0.106	0. .Infinite	ite
23	OrderingFacilityPhoneNumber	XTN	No	0.48	0. .Infinite	ite
24	OrderingProviderAddress	XAD	No	0.106	0. .Infinite	ite

ORC.1 (OrderControl)

Value	Description
NW	New order (O01)
OK	Order accepted and OK (O02)
UA	Unable to accept order (O02/ORR)
CA	Cancel order request (O01)
OC	Order canceled (O01)
CR	Canceled as requested (O02)
UC	Unable to cancel (O02)
DC	Discontinue order request (O01)
OD	Order discontinued (O01)
DR	Discontinued as requested (O02)
UD	Unable to discontinue (O02)
HD	Hold order request (O01)
OH	Order held (O01)
UH	Unable to put on hold (O02)
HR	On hold as requested (O02)
RL	Release previous hold (O01)
OE	Order released (O01)
OR	Released as requested
UR	Unable to release (O02)
RP	Order replace request (O01)
RU	Replaced unsolicited (O01)
RO	Replacement order (O01)
RQ	Replaced as requested (O02)
UM	Unable to replace (O02)
PA	Parent order (O01/ORU)
CH	Child order (O01/ORU)
XO	Change order request (O01)
XX	Order changed, unsol. (O01)
UX	Unable to change (O02)
XR	Changed as requested (O02)
DE	Data errors (O01/O02)
RE	Observations to follow (O01/R01)
RR	Request received (O02)
SR	Response to send order status request (O02(Q06)
SS	Send order status request (O01)
SC	Status changed (O01)
SN	Send order number (O01)
NA	Number assigned (O02)
CN	Combined result (R01)
RF	Refill order request (O01)
AF	Order refill request approval (O02)
DF	Order refill request denied (O02)
FU	Order refilled, unsolicited (O01)
OF	Order refilled as requested (O02)
UF	Unable to refill (O02)
LI	Link order to patient care problem or goal
UN	Unlink order from patient care problem or goal

ORC.5 (OrderStatus)

Value	Description
A	Some, but not all, results available
CA	Order was canceled
CM	Order is completed
DC	Order was discontinued
ER	Error, order not found
HD	Order is on hold
IP	In process, unspecified
RP	Order has been replaced
SC	In process, scheduled

Table HL70038

ORC.6 (ResponseFlag)

Value	Description
E	Report exceptions 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 the MSA segment is returned

Table HL70121

ORC.AdvancedBeneficiaryNoticeCode (Composite CE) Overrides

	Name	Required	Length	Default Value	Validation Table
1	Identifier	No	..		HL70339

PD1

	Name	Data Type	Required	Length	Repeats	Default Value	Validation Table
1	LivingDependency	IS	No	0..2	0..Infinite		HL70223
2	LivingArrangement	IS	No	0..2	..		HL70220
3	PatientPrimaryFacility	XON	No	0..90	0..Infinite		
4	PatientPrimaryCareProvider NameAndIDNo	XCN	No	0..90	0..Infinite		
5	StudentIndicator	IS	No	0..2	..		HL70231
6	Handicap	IS	No	0..2	..		
7	LivingWill	IS	No	0..2	..		HL70315
8	OrganDonor	IS	No	0..2	..		HL70316
9	SeparateBill	ID	No	0..1	..		HL70136
10	DuplicatePatient	CX	No	0..20	0..Infinite		
11	PublicityCode	CE	No	0..80	..		
12	ProtectionIndicator	ID	No	0..1	..		HL70136

PD1.1 (LivingDependency)

Value	Description
D	Spouse dependent
M	Medical Supervision Required
S	Small children
WU	Walk up
CB	Common Bath

Table HL70223

PD1.2 (LivingArrangement)

Value	Description
A	Alone
F	Family

I Institution
 R Relative
 U Unknown
 S Spouse Only
 Table HL70220

PD1.5 (StudentIndicator)

Value	Description
F	Full-time student
P	Part-time student
N	Not a student

Table HL70231

PD1.7 (LivingWill)

Value	Description
Y	Yes, patient has a living will
F	Yes, patient has a living will but it is not on file
N	No, patient does not have a living will and no information was provided
I	No, patient does not have a living will but information was provided
U	Unknown

Table HL70315

PD1.8 (OrganDonor)

Value	Description
Y	Yes, patient is a donor and card is on file
F	Yes, patient is a donor, but card is not on file
I	No, patient does not have a living will but information was provided
U	Unknown

Table HL70316

PD1.9 (SeparateBill)

Value	Description
Y	Yes
N	No

Table HL70136

PD1.12 (ProtectionIndicator)

Value	Description
Y	Yes
N	No

Table HL70136

PID

	Name	Data Type	Required	Length	Repeats	Default Value	Validation Table
1	SetID	SI	No	0..4	..		
2	PatientID	CX	No	0..20	..		
3	PatientIdentifierList	CX	No	0..20	0..Infinite		
4	AlternatePatientID	CX	No	0..20	0..Infinite		
5	PatientName	XPN	Yes	0..48	1..Infinite		
6	MothersMaidenName	XPN	No	0..48	0..Infinite		
7	DateOfBirth	TS	No	0..26	..		
8	Sex	IS	No	0..1	..		HL70001
9	PatientAlias	XPN	No	0..48	0..Infinite		
10	Race	CE	No	0..80	0..Infinite		
11	PatientAddress	XAD	No	0..106	0..Infinite		

12	CountyCode	IS	No	0.4	..	
13	HomePhoneNumber	XTN	No	0.40	0..Infinite	
14	BusinessPhoneNumber	XTN	No	0.40	0..Infinite	
15	PrimaryLanguage	CE	No	0.60	..	
16	MaritalStatus	CE	No	0.80	..	
17	Religion	CE	No	0.80	..	
18	PatientAccountNumber	CX	No	0.20	..	
19	SSNNumber	ST	No	0.16	..	
20	DriversLicenseNumber	DLN	No	0.25	..	
21	MothersIdentifier	CX	No	0.20	0..Infinite	
22	EthnicGroup	CE	No	0.80	0..Infinite	
23	BirthPlace	ST	No	0.60	..	
24	MultipleBirthIndicator	ID	No	0.1	..	HL70136
25	BirthOrder	NM	No	0.2	..	
26	Citizenship	CE	No	0.80	0..Infinite	
27	VeteransMilitaryStatus	CE	No	0.60	..	
28	Nationality	CE	No	0.80	..	
29	PatientDeathDateAndTime	TS	No	0.26	..	
30	PatientDeathIndicator	ID	No	0.1	..	HL70136

PID.8 (Sex)

Value	Description
F	Female
M	Male
O	Other
U	Unknown

Table HL70001

PID.24 (MultipleBirthIndicator)

Value	Description
Y	Yes
N	No

Table HL70136

PID.30 (PatientDeathIndicator)

Value	Description
Y	Yes
N	No

Table HL70136

PID.MaritalStatus (Composite CE) Overrides

	Name	Required	Length	Default Value	Validation Table
1	Identifier	No	..		HL70002

PV1

	Name	Data Type	Required	Length	Repeats	Default Value	Validation Table
1	SetID	SI	No	0.4	..		
2	PatientClass	IS	Yes	0.1	..		HL70004
3	AssignedPatientLocation	PL	No	0.80	..		
4	AdmissionType	IS	No	0.2	..		HL70007
5	PreadmitNumber	CX	No	0.20	..		
6	PriorPatientLocation	PL	No	0.80	..		
7	AttendingDoctor	XCN	No	0.60	0..Infinite		

8	ReferringDoctor	XCN	No	0.60	0..Infinite	
9	ConsultingDoctor	XCN	No	0.60	0..Infinite	
10	HospitalService	IS	No	0.3	..	
11	TemporaryLocation	PL	No	0.80	..	
12	PreadmitTestIndicator	IS	No	0.2	..	
13	ReadmissionIndicator	IS	No	0.2	..	
14	AdmitSource	IS	No	0.3	..	HL70023
15	AmbulatoryStatus	IS	No	0.2	0..Infinite	HL70009
16	VIPIndicator	IS	No	0.2	..	
17	AdmittingDoctor	XCN	No	0.60	0..Infinite	
18	PatientType	IS	No	0.2	..	
19	VisitNumber	CX	No	0.20	..	
20	FinancialClass	FC	No	0.50	0..Infinite	
21	ChargePriceIndicator	IS	No	0.2	..	
22	CourtesyCode	IS	No	0.2	..	
23	CreditRating	IS	No	0.2	..	
24	ContractCode	IS	No	0.2	0..Infinite	
25	ContractEffectiveDate	DT	No	0.8	0..Infinite	
26	ContractAmount	NM	No	0.12	0..Infinite	
27	ContractPeriod	NM	No	0.3	0..Infinite	
28	InterestCode	IS	No	0.2	..	
29	TransferToBadDebtCode	IS	No	0.1	..	
30	TransferToBadDebtDate	DT	No	0.8	..	
31	BadDebtAgencyCode	IS	No	0.10	..	
32	BadDebtTransferAmount	NM	No	0.12	..	
33	BadDebtRecoveryAmount	NM	No	0.12	..	
34	DeleteAccountIndicator	IS	No	0.1	..	
35	DeleteAccountDate	DT	No	0.8	..	
36	DischargeDisposition	IS	No	0.3	..	HL70112
37	DischargedToLocation	DLD	No	0.25	..	
38	DietType	CE	No	0.80	..	
39	ServicingFacility	IS	No	0.2	..	
40	BedStatus	IS	No	0.1	..	HL70116
41	AccountStatus	IS	No	0.2	..	
42	PendingLocation	PL	No	0.80	..	
43	PriorTemporaryLocation	PL	No	0.80	..	
44	AdmitDateTime	TS	No	0.26	..	
45	DischargeDateTime	TS	No	0.26	..	
46	CurrentPatientBalance	NM	No	0.12	..	
47	TotalCharges	NM	No	0.12	..	
48	TotalAdjustments	NM	No	0.12	..	
49	TotalPayments	NM	No	0.12	..	
50	AlternateVisitID	CX	No	0.20	..	
51	VisitIndicator	IS	No	0.1	..	HL70326
52	OtherHealthcareProvider	XCN	No	0.60	0..Infinite	

PV1.2 (PatientClass)

Value	Description
E	Emergency
I	Inpatient
O	Outpatient
P	Preadmit
R	Recurring patient

16	Discharge to be defined at state level, if necessary
17	Discharge to be defined at state level, if necessary
18	Discharge to be defined at state level, if necessary
19	Discharge to be defined at state level, if necessary
20	Expired
21	Expired to be defined at state level, if necessary
22	Expired to be defined at state level, if necessary
23	Expired to be defined at state level, if necessary
24	Expired to be defined at state level, if necessary
25	Expired to be defined at state level, if necessary
26	Expired to be defined at state level, if necessary
27	Expired to be defined at state level, if necessary
28	Expired to be defined at state level, if necessary
29	Expired to be defined at state level, if necessary
30	Still patient or expected to return for outpatient services
31	Still patient to be defined at state level, if necessary
32	Still patient to be defined at state level, if necessary
33	Still patient to be defined at state level, if necessary
34	Still patient to be defined at state level, if necessary
35	Still patient to be defined at state level, if necessary
36	Still patient to be defined at state level, if necessary
37	Still patient to be defined at state level, if necessary
38	Still patient to be defined at state level, if necessary
39	Still patient to be defined at state level, if necessary
40	Expired at home
41	Expired in a medical facility; e.g., hospital, SNF, ICF, or free standing hospice
42	Expired - place unknown Table HL70112

PV1.40 (BedStatus)

Value	Description
C	Closed
H	Housekeeping
O	Occupied
U	Unoccupied
K	Contaminated
I	Isolated

Table HL70116

PV1.51 (VisitIndicator)

Value	Description
A	Account level (default)
V	Visit level

Table HL70326

PV2

	Name	Data Type	Required	Length	Repeats	Default Value	Validation Table
1	PriorPendingLocation	PL	No	0..80	..		
2	AccommodationCode	CE	No	0..60	..		
3	AdmitReason	CE	No	0..60	..		
4	TransferReason	CE	No	0..60	..		
5	PatientValuables	ST	No	0..25	0..Infinite		
6	PatientValuablesLocation	ST	No	0..25	..		
7	VisitUserCode	IS	No	0..2	..		
8	ExpectedAdmitDateTime	TS	No	0..26	..		
9	ExpectedDischargeDateTime	TS	No	0..26	..		
10	EstimatedLengthOfInpatientStay	NM	No	0..3	..		

11	ActualLengthOfInpatientStay	NM	No	0.3	..	
12	VisitDescription	ST	No	0.50	..	
13	ReferralSourceCode	XCN	No	0.90	0..Infinite	
14	PreviousServiceDate	DT	No	0.8	..	
15	EmploymentIllnessRelatedIndicator	ID	No	0.1	..	HL70136
16	PurgeStatusCode	IS	No	0.1	..	HL70213
17	PurgeStatusDate	DT	No	0.8	..	
18	SpecialProgramCode	IS	No	0.2	..	
19	RetentionIndicator	ID	No	0.1	..	HL70136
20	ExpectedNumberOfInsurancePlans	NM	No	0.1	..	
21	VisitPublicityCode	IS	No	0.1	..	
22	VisitProtectionIndicator	ID	No	0.1	..	HL70136
23	ClinicOrganizationName	XON	No	0.90	0..Infinite	
24	PatientStatusCode	IS	No	0.2	..	
25	VisitPriorityCode	IS	No	0.1	..	
26	PreviousTreatmentDate	DT	No	0.8	..	
27	ExpectedDischargeDisposition	IS	No	0.2	..	HL70112
28	SignatureOnFileDate	DT	No	0.8	..	
29	FirstSimilarIllnessDate	DT	No	0.8	..	
30	PatientChargeAdjustmentCode	CE	No	0.80	..	
31	RecurringServiceCode	IS	No	0.2	..	
32	BillingMediaCode	ID	No	0.1	..	HL70136
33	ExpectedSurgeryDateAndTime	TS	No	0.26	..	
34	MilitaryPartnershipCode	ID	No	0.1	..	HL70136
35	MilitaryNonAvailabilityCode	ID	No	0.1	..	HL70136
36	NewbornBabyIndicator	ID	No	0.1	..	HL70136
37	BabyDetainedIndicator	ID	No	0.1	..	HL70136

PV2.15 (EmploymentIllnessRelatedIndicator)

Value	Description
Y	Yes
N	No

Table HL70136

PV2.16 (PurgeStatusCode)

Value	Description
P	Marked for purge. User is no longer able to update the visit.
D	The visit is marked for deletion and the user cannot enter new data against it.
I	The visit is marked inactive and the user cannot enter new data against it.

Table HL70213

PV2.19 (RetentionIndicator)

Value	Description
Y	Yes
N	No

Table HL70136

PV2.22 (VisitProtectionIndicator)

Value	Description
Y	Yes
N	No

Table HL70136

PV2.27 (ExpectedDischargeDisposition)

Value	Description
01	Discharged to home or self care (routine discharge)
02	Discharged/transferred to another short term general hospital for inpatient care
03	Discharged/transferred to skilled nursing facility (SNF)
04	Discharged/transferred to an intermediate care facility (ICF)
05	Discharged/transferred to another type of institution for inpatient care or referred for outpatient services to another institution
06	Discharged/transferred to home under care of organized home health service organization
07	Left against medical advice or discontinued care
08	Discharged/transferred to home under care of Home IV provider
09	Admitted as an inpatient to this hospital
10	Discharge to be defined at state level, if necessary
11	Discharge to be defined at state level, if necessary
12	Discharge to be defined at state level, if necessary
13	Discharge to be defined at state level, if necessary
14	Discharge to be defined at state level, if necessary
15	Discharge to be defined at state level, if necessary
16	Discharge to be defined at state level, if necessary
17	Discharge to be defined at state level, if necessary
18	Discharge to be defined at state level, if necessary
19	Discharge to be defined at state level, if necessary
20	Expired
21	Expired to be defined at state level, if necessary
22	Expired to be defined at state level, if necessary
23	Expired to be defined at state level, if necessary
24	Expired to be defined at state level, if necessary
25	Expired to be defined at state level, if necessary
26	Expired to be defined at state level, if necessary
27	Expired to be defined at state level, if necessary
28	Expired to be defined at state level, if necessary
29	Expired to be defined at state level, if necessary
30	Still patient or expected to return for outpatient services
31	Still patient to be defined at state level, if necessary
32	Still patient to be defined at state level, if necessary
33	Still patient to be defined at state level, if necessary
34	Still patient to be defined at state level, if necessary
35	Still patient to be defined at state level, if necessary
36	Still patient to be defined at state level, if necessary
37	Still patient to be defined at state level, if necessary
38	Still patient to be defined at state level, if necessary
39	Still patient to be defined at state level, if necessary
40	Expired at home
41	Expired in a medical facility; e.g., hospital, SNF, ICF, or free standing hospice
42	Expired - place unknown Table HL70112

PV2.32 (BillingMediaCode)

Value	Description
Y	Yes
N	No

Table HL70136

PV2.34 (MilitaryPartnershipCode)

Value	Description
Y	Yes
N	No

Table HL70136

PV2.35 (MilitaryNonAvailabiltyCode)

Value	Description
Y	Yes
N	No

Table HL70136

PV2.36 (NewbornBabyIndicator)

Value	Description
Y	Yes
N	No

Table HL70136

PV2.37 (BabyDetainedIndicator)

Value	Description
Y	Yes
N	No

Table HL70136

Messages

ORUR01

Item	Description
MSH	
{ (1 - Infinite)	
[
PID	
[PD1]	
[{ NK1 }] (0 - Infinite)	
[{ NTE }] (0 - Infinite)	
[
PV1	
[PV2]	
]	
] (1 - Infinite)	
[ORC]	
OBR	
[{ NTE }] (0 - Infinite)	
[{ (0 - Infinite)	
{ OBX } (1 - Infinite)	
[{ NTE }] (0 - Infinite)	
}]	
[{ CTI }] (0 - Infinite)	
]	
]	
[DSC]	

Validation Tables

CLH Receiving Application

Value	Description
-------	-------------

CLH Sending Application

Value	Description
LAB	CLH MSH 3 value

HL70001

Value	Description
F	Female
M	Male
O	Other
U	Unknown

HL70002

Value	Description
A	Separated
D	Divorced
M	Married
S	Single
W	Widowed

HL70003

Value	Description
A01	ADT/ACK - Admit/visit notification
A02	ADT/ACK - Transfer a patient
A03	ADT/ACK - Discharge/end visit
A04	ADT/ACK - Register a patient
A05	ADT/ACK - Pre-admit a patient
A06	ADT/ACK - Change an outpatient to an inpatient
A07	ADT/ACK - Change an inpatient to an outpatient
A08	ADT/ACK - Update patient information
A09	ADT/ACK - Patient departing - tracking
A10	ADT/ACK - Patient arriving - tracking
A11	ADT/ACK - Cancel admit/visit notification
A12	ADT/ACK - Cancel transfer
A13	ADT/ACK - Cancel discharge/end visit
A14	ADT/ACK - Pending admit
A15	ADT/ACK - Pending transfer
A16	ADT/ACK - Pending discharge
A17	ADT/ACK - Swap patients
A18	ADT/ACK - Merge patient information
A19	QRY/ADR - Patient query
A20	ADT/ACK - Bed status update
A21	ADT/ACK - Patient goes on a leave of absence
A22	ADT/ACK - Patient returns from a leave of absence
A23	ADT/ACK - Delete a patient record
A24	ADT/ACK - Link patient information
A25	ADT/ACK - Cancel pending discharge
A26	ADT/ACK - Cancel pending transfer
A27	ADT/ACK - Cancel pending admit
A28	ADT/ACK - Add person information
A29	ADT/ACK - Delete person information
A30	ADT/ACK - Merge person information
A31	ADT/ACK - Update person information

A32	ADT/ACK - Cancel patient arriving - tracking
A33	ADT/ACK - Cancel patient departing - tracking
A34	ADT/ACK - Merge patient information - patient ID only
A35	ADT/ACK - Merge patient information - account number only
A36	ADT/ACK - Merge patient information - patient ID and account number
A37	ADT/ACK - Unlink patient information
A38	ADT/ACK - Cancel pre-admit
A39	ADT/ACK - Merge person, patient ID
A40	ADT/ACK - Merge patient, patient identifier list
A41	ADT/ACK - Merge account, patient account number
A42	ADT/ACK - Merge visit, visit number
A43	ADT/ACK - Move patient information, patient identifier list
A44	ADT/ACK - Move account information, patient account number
A45	ADT/ACK - Move visit information, visit number
A46	ADT/ACK - Change patient ID
A47	ADT/ACK - Change patient identifier list
A48	ADT/ACK - Change alternate patient ID
A49	ADT/ACK - Change patient account number
A50	ADT/ACK - Change visit number
A51	ADT/ACK - Change alternate visit ID
C01	CRM - Register a patient on a clinical trial
C02	CRM - Cancel a patient registration on clinical trial (for clerical mistakes only)
C03	CRM - Correct/update registration information
C04	CRM - Patient has gone off a clinical trial
C05	CRM - Patient enters phase of clinical trial
C06	CRM - Cancel patient entering a phase (clerical mistake)
C07	CRM - Correct/update phase information
C08	CRM - Patient has gone off phase of clinical trial
C09	CSU - Automated time intervals for reporting, like monthly
C10	CSU - Patient completes the clinical trial
C11	CSU - Patient completes a phase of the clinical trial
C12	CSU - Update/correction of patient order/result information
CNQ	QRY/EQQ/SPQ/VQQ/RQQ - Cancel query
I01	RQI/RPI - Request for insurance information
I02	RQI/RPL - Request/receipt of patient selection display list
I03	RQI/RPR - Request/receipt of patient selection list
I04	RQD/RPI - Request for patient demographic data
I05	RQC/RCI - Request for patient clinical information
I06	RQC/RCL - Request/receipt of clinical data listing
I07	PIN/ACK - Unsolicited insurance information
I08	RQA/RPA - Request for treatment authorization information
I09	RQA/RPA - Request for modification to an authorization
I10	RQA/RPA - Request for resubmission of an authorization
I11	RQA/RPA - Request for cancellation of an authorization
I12	REF/RRI - Patient referral
I13	REF/RRI - Modify patient referral
I14	REF/RRI - Cancel patient referral
I15	REF/RRI - Request patient referral status
M01	MFN/MFK - Master file not otherwise specified (for backward compatibility only)
M02	MFN/MFK - Master file, staff practitioner
M03	MFN/MFK - Master file, test/observation (for backward compatibility only)
M04	MFN/MFK - Charge description master file
M05	MFN/MFK - Patient location master file
M06	MFN/MFK - Clinical study with phases and schedules master file
M07	MFN/MFK - Clinical study without phases but with schedules master file
M08	MFN/MFK - Test/observation (numeric) master file
M09	MFN/MFK - Test/observation (categorical) master file
M10	MFN/MFK - Test /observation batteries master file
M11	MFN/MFK - Test/calculated observations master file

O01	ORM - Order message (also RDE, RDS, RGV, RAS)
O02	ORR - Order response (also RRE, RRD, RRG, RRA)
P01	BAR/ACK - Add patient accounts
P02	BAR/ACK - Purge patient accounts
P03	DFT/ACK - Post detail financial transaction
P04	QRY/DSP , Generate bill and A/R statements
P05	BAR/ACK , Update account
P06	BAR/ACK , End account
P07	PEX - Unsolicited initial individual product experience report
P08	PEX - Unsolicited update individual product experience report
P09	SUR - Summary product experience report
PC1	PPR - PC/ Problem Add
PC2	PPR - PC/ Problem Update
PC3	PPR - PC/ Problem Delete
PC4	QRY - PC/ Problem Query
PC5	PRR - PC/ Problem Response
PC6	PGL - PC/ Goal Add
PC7	PGL - PC/ Goal Update
PC8	PGL - PC/ Goal Delete
PC9	QRY - PC/ Goal Query
PCA	PPV - PC/ Goal Response
PCB	PPP - PC/ Pathway (Problem-Oriented) Add
PCC	PPP - PC/ Pathway (Problem-Oriented) Update
PCD	PPP - PC/ Pathway (Problem-Oriented) Delete
PCE	QRY - PC/ Pathway (Problem-Oriented) Query
PCF	PTR - PC/ Pathway (Problem-Oriented) Query Response
PCG	PPG - PC/ Pathway (Goal-Oriented) Add
PCH	PPG - PC/ Pathway (Goal-Oriented) Update
PCJ	PPG - PC/ Pathway (Goal-Oriented) Delete
PCK	QRY - PC/ Pathway (Goal-Oriented) Query
PCL	PPT - PC/ Pathway (Goal-Oriented) Query Response
Q01	QRY/DSR - Query sent for immediate response
Q02	QRY/QCK - Query sent for deferred response
Q03	DSR/ACK - Deferred response to a query
Q04	EQQ , Embedded query language query
Q05	UDM/ACK - Unsolicited display update message
Q06	OSQ/OSR - Query for order status
Q07	VQQ , Virtual table query
Q08	SPQ , Stored procedure request
Q09	RQQ , event replay query
R01	ORU/ACK - Unsolicited transmission of an observation message
R02	QRY - Query for results of observation
R03	QRY/DSR Display-oriented results, query/unsol. update (for backward compatibility only)
R04	ORF - Response to query; transmission of requested observation
R05	QRY/DSR - query for display results
R06	UDM - unsolicited update/display results
R07	EDR , enhanced display response
R08	TBR , tabular data response
R09	ERP , event replay response
RAR	RAR , Pharmacy administration information query response
RDR	RDR - Pharmacy dispense information query response
RER	RER - Pharmacy encoded order information query response
RGR	RGR - Pharmacy dose information query response
R0R	R0R - Pharmacy prescription order query response
S01	SRM/SRR - Request new appointment booking
S02	SRM/SRR - Request appointment rescheduling
S03	SRM/SRR - Request appointment modification
S04	SRM/SRR - Request appointment cancellation
S05	SRM/SRR - Request appointment discontinuation
S06	SRM/SRR - Request appointment deletion
S07	SRM/SRR - Request addition of service/resource on appointment
S08	SRM/SRR - Request modification of service/resource on appointment

S09	SRM/SRR - Request cancellation of service/resource on appointment
S10	SRM/SRR - Request discontinuation of service/resource on appointment
S11	SRM/SRR - Request deletion of service/resource on appointment
S12	SIU/ACK - Notification of new appointment booking
S13	SIU/ACK - Notification of appointment rescheduling
S14	SIU/ACK - Notification of appointment modification
S15	SIU/ACK - Notification of appointment cancellation
S16	SIU/ACK - Notification of appointment discontinuation
S17	SIU/ACK - Notification of appointment deletion
S18	SIU/ACK - Notification of addition of service/resource on appointment
S19	SIU/ACK - Notification of modification of service/resource on appointment
S20	SIU/ACK - Notification of cancellation of service/resource on appointment
S21	SIU/ACK - Notification of discontinuation of service/resource on appointment
S22	SIU/ACK - Notification of deletion of service/resource on appointment
S23	SIU/ACK - Notification of blocked schedule time slot(s)
S24	SIU/ACK - Notification of opened (unblocked) schedule time slot(s)
S25	SQM/SQR - Schedule query message and response
S26	SIU/ACK Notification that patient did not show up for schedule appointment
T01	MDM/ACK - Original document notification
T02	MDM/ACK - Original document notification and content
T03	MDM/ACK - Document status change notification
T04	MDM/ACK - Document status change notification and content
T05	MDM/ACK - Document addendum notification
T06	MDM/ACK - Document addendum notification and content
T07	MDM/ACK - Document edit notification
T08	MDM/ACK - Document edit notification and content
T09	MDM/ACK - Document replacement notification
T10	MDM/ACK - Document replacement notification and content
T11	MDM/ACK - Document cancel notification
T12	QRY/DOC - Document query
V01	VXQ - Query for vaccination record
V02	VXX - Response to vaccination query returning multiple PID matches
V03	VXR - Vaccination record response
V04	VXU - Unsolicited vaccination record update
W01	ORU - Waveform result, unsolicited transmission of requested information
W02	QRF - Waveform result, response to query

HL70004

Value	Description
E	Emergency
I	Inpatient
O	Outpatient
P	Preadmit
R	Recurring patient
B	Obstetrics

HL70007

Value	Description
A	Accident
E	Emergency
L	Labor and Delivery
R	Routine

HL70009

Value	Description
A0	No functional limitations
A1	Ambulates with assistive device
A2	Wheelchair/stretchers bound
A3	Comatose; non-responsive
A4	Disoriented
A5	Vision impaired
A6	Hearing impaired
A7	Speech impaired
A8	Non-English speaking
A9	Functional level unknown
B1	Oxygen therapy
B2	Special equipment (tubes, IVs, catheters)
B3	Amputee
B4	Mastectomy
B5	Paraplegic
B6	Pregnant

HL70023

Value	Description
1	Physician referral
2	Clinic referral
3	HMO referral
4	Transfer from a hospital
5	Transfer from a skilled nursing facility
6	Transfer from another health care facility
7	Emergency room
8	Court/law enforcement
9	Information not available

HL70038

Value	Description
A	Some, but not all, results available
CA	Order was canceled
CM	Order is completed
DC	Order was discontinued
ER	Error, order not found
HD	Order is on hold
IP	In process, unspecified
RP	Order has been replaced
SC	In process, scheduled

HL70061

Value	Description
M10	Mod 10 algorithm
M11	Mod 11 algorithm
ISO	ISO 7064: 1983
NPI	Check digit algorithm in the US National Provider Identifier

HL70065

Value	Description
A	Add ordered tests to the existing specimen

G	Generated order; reflex order
L	Lab to obtain specimen from patient
O	Specimen obtained by service other than Lab
P	Pending specimen; Order sent prior to delivery
R	Revised order
S	Schedule the tests specified below

HL70070

Value	Description
ABS	Abscess
AMN	Amniotic fluid
ASP	Aspirate
BPH	Basophils
BIFL	Bile fluid
BLDA	Blood arterial
BBL	Blood bag
BLDC	Blood capillary
BPU	Blood product unit
BLDV	Blood venous
BON	Bone
BRTH	Breath (use EXHLD)
BRO	Bronchial
BRN	Burn
CALC	Calculus (=Stone)
CDM	Cardiac muscle
CNL	Cannula
CTP	Catheter tip
CSF	Cerebral spinal fluid
CVM	Cervical mucus
CVX	Cervix
COL	Colostrum
CBLD	Cord blood
CNJT	Conjunctiva
CUR	Curettage
CYST	Cyst
DIAF	Dialysis fluid
DOSE	Dose med or substance
DRN	Drain
DUFL	Duodenal fluid
EAR	Ear
EARW	Ear wax (cerumen)
ELT	Electrode
ENDC	Endocardium
ENDM	Endometrium
EOS	Eosinophils
RBC	Erythrocytes
EYE	Eye
EXHLD	Exhaled gas (=breath)
FIB	Fibroblasts
FLT	Filter
FIST	Fistula
FLU	Body fluid, unsp
GAS	Gas
GAST	Gastric fluid/contents
GEN	Genital
GENC	Genital cervix
GENL	Genital lochia
GENV	Genital vaginal
HAR	Hair
IHG	Inhaled Gas
IT	Intubation tube

ISLT	Isolate
LAM	Lamella
WBC	Leukocytes
LN	Line
LNA	Line arterial
LNV	Line venous
LIQ	Liquid NOS
LYM	Lymphocytes
MAC	Macrophages
MAR	Marrow
MEC	Meconium
MBLD	Menstrual blood
MLK	Milk
MILK	Breast milk
NAIL	Nail
NOS	Nose (nasal passage)
ORH	Other
PAFL	Pancreatic fluid
PAT	Patient
PRT	Peritoneal fluid /ascites
PLC	Placenta
PLAS	Plasma
PLB	Plasma bag
PLR	Pleural fluid (thoracentesis fld)
PMN	Polymorphonuclear neutrophils
PPP	Platelet poor plasma
PRP	Platelet rich plasma
PUS	Pus
RT	Route of medicine
SAL	Saliva
SEM	Seminal fluid
SER	Serum
SKN	Skin
SKM	Skeletal muscle
SPRM	Spermatozoa
SPT	Sputum
SPTC	Sputum - coughed
SPTT	Sputum - tracheal aspirate
STON	Stone (use CALC)
STL	Stool = Fecal
SWT	Sweat
SNV	Synovial fluid (Joint fluid)
TEAR	Tears
THRT	Throat
THRB	Thrombocyte (platelet)
TISS	Tissue
TISG	Tissue gall bladder
TLGI	Tissue large intestine
TLNG	Tissue lung
TISPL	Tissue placenta
TSMI	Tissue small intestine
TISU	Tissue ulcer
TUB	Tube NOS
ULC	Ulcer
UMB	Umbilical blood
UMED	Unknown medicine
URTH	Urethra
UR	Urine
URC	Urine clean catch
URT	Urine catheter
URNS	Urine sediment
USUB	Unknown substance
VOM	Vomit

BLD	Whole blood
BDY	Whole body
WAT	Water
WICK	Wick
WND	Wound
WNDA	Wound abscess
WNDE	Wound exudate
WNDD	Wound drainage
XXX	To be specified in another part of the 422.3.10070message
URCC	Urine Clean Catch

HL70074

Value	Description
AU	Audiology
BG	Blood Gases
BLB	Blood Bank
CUS	Cardiac Ultrasound
CTH	Cardiac Catheterization
CT	CAT Scan
CH	Chemistry
CP	Cytopathology
EC	Electrocardiac (e.g., EKG, EEC, Holter)
EN	Electroneuro (EEG, EMG,EP,PSG)
HM	Hematology
ICU	Bedside ICU Monitoring
IMM	Immunology
LAB	Laboratory
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
RAD	Radiology
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

HL70076

Value	Description
ACK	General acknowledgment message
ADR	ADT response
ARD	Ancillary RPT (display) (for backward compatibility only)
ADT	ADT message

BAR	Add/change billing account
CRM	Clinical study registration
CSU	Unsolicited clinical study data
DFT	Detail financial transaction
DOC	Document query
DSR	Display response
EDR	Enhanced display response
EQQ	Embedded query language query
ERP	Event replay response
MCF	Delayed acknowledgment
MDM	Documentation message
MFN	Master files notification
MFK	Master files application acknowledgment
MFD	Master files delayed application acknowledgment
MFQ	Master files query
MFR	Master files query response
NMD	Network management data
NMQ	Network management query
NMR	Network management response
ORF	Observ. result/record response
ORM	Order message
ORR	Order acknowledgment message
ORU	Observ result/unsolicited
OSQ	Order status query
OSR	Order status response
PEX	Product experience
PGL	Patient goal
PIN	Patient insurance information
PPG	Patient pathway (goal-oriented) message
PPP	Patient pathway (problem-oriented) message
PPR	Patient problem
PPT	Patient pathway (goal oriented) response
PPV	Patient goal response
PRR	Patient problem response
PTR	Patient pathway (problem-oriented) response
QCK	Query general acknowledgment
QRY	Query, original mode
RAR	Pharmacy administration information
RAS	Pharmacy administration message
RCI	Return clinical information
RCL	Return clinical list
RDE	Pharmacy encoded order message
RDR	Pharmacy dispense information
RDS	Pharmacy dispense message
REF	Patient referral
RER	Pharmacy encoded order information
RGV	Pharmacy give message
RGR	Pharmacy dose information
ROR	Pharmacy prescription order response
RPA	Return patient authorization
RPI	Return patient information
RPL	Return patient display list
RPR	Return patient list
RQA	Request patient authorization
RQC	Request clinical information
RQI	Request patient information
RQP	Request patient demographics
RQQ	Event replay query
RRA	Pharmacy administration acknowledgment
RRD	Pharmacy dispense acknowledgment
RRE	Pharmacy encoded order acknowledgment
RRG	Pharmacy give acknowledgment
RRI	Return patient referral

SIU	Schedule information unsolicited
SPQ	Stored procedure request
SQM	Schedule query
SQR	Schedule query response
SRM	Schedule request
SRR	Scheduled request response
SUR	Summary product experience report
TBR	Tabular data response
UDM	Unsolicited display message
VQQ	Virtual table query
VXQ	Query for vaccination record
VXX	Vaccination query response with multiple PID matches
VXR	Vaccination query record response
VXU	Unsolicited vaccination record update

HL70078

Value	Description
L	Below low normal
H	Above high normal
LL	Below lower panic limits
HH	Above upper panic limits
<	Below absolute low-off instrument scale
>	Above absolute high-off instrument scale
N	Normal (applies to non-numeric results)
A	Abnormal (applies to non-numeric results)
AA	Very abnormal (applies to non-numeric units, analogous to panic limits for numeric units)
null	No range defined, or normal ranges don't apply
U	Significant change up
D	Significant change down
B	Better--use when direction not relevant
W	Worse--use when direction not relevant
S	Susceptible*
R	Resistant*
I	Intermediate*
MS	Moderately susceptible*
VS	Very susceptible*

HL70080

Value	Description
A	An age-based population
N	None - generic normal range
R	A race-based population
S	A sex-based population

HL70085

Value	Description
C	Record coming over is a correction and thus replaces a final result
D	Deletes the OBX record
F	Final results; Can only be changed with a corrected result.
I	Specimen in lab; results pending
N	Not asked; used to affirmatively document that the observation identified in the OBX was not sought when the universal service ID in OBR-4 implies that it would be sought.
O	Order detail description only (no result)
P	Preliminary results
R	Results entered -- not verified

S	Partial results
X	Results cannot be obtained for this observation
U	Results status change to final without retransmitting results already sent as preliminary. E.g., radiology changes status from preliminary to final
W	Post original as wrong, e.g., transmitted for wrong patient

HL70103

Value	Description
D	Debugging
P	Production
T	Training

HL70104

Value	Description
2.0	Release 2.0
2.0D	Demo 2.0
2.1	Release 2. 1
2.2	Release 2.2
2.3	Release 2.3
2.3.1	Release 2.3.1
2.3.2	Release 2.3.2

HL70105

Value	Description
L	Ancillary (filler) department is source of comment
P	Orderer (placer) is source of comment
O	Other system is source of comment

HL70112

Value	Description
01	Discharged to home or self care (routine discharge)
02	Discharged/transferred to another short term general hospital for inpatient care
03	Discharged/transferred to skilled nursing facility (SNF)
04	Discharged/transferred to an intermediate care facility (ICF)
05	Discharged/transferred to another type of institution for inpatient care or referred for outpatient services to another institution
06	Discharged/transferred to home under care of organized home health service organization
07	Left against medical advice or discontinued care
08	Discharged/transferred to home under care of Home IV provider
09	Admitted as an inpatient to this hospital
10	Discharge to be defined at state level, if necessary
11	Discharge to be defined at state level, if necessary
12	Discharge to be defined at state level, if necessary
13	Discharge to be defined at state level, if necessary
14	Discharge to be defined at state level, if necessary
15	Discharge to be defined at state level, if necessary
16	Discharge to be defined at state level, if necessary
17	Discharge to be defined at state level, if necessary
18	Discharge to be defined at state level, if necessary
19	Discharge to be defined at state level, if necessary
20	Expired
21	Expired to be defined at state level, if necessary

22	Expired to be defined at state level, if necessary
23	Expired to be defined at state level, if necessary
24	Expired to be defined at state level, if necessary
25	Expired to be defined at state level, if necessary
26	Expired to be defined at state level, if necessary
27	Expired to be defined at state level, if necessary
28	Expired to be defined at state level, if necessary
29	Expired to be defined at state level, if necessary
30	Still patient or expected to return for outpatient services
31	Still patient to be defined at state level, if necessary
32	Still patient to be defined at state level, if necessary
33	Still patient to be defined at state level, if necessary
34	Still patient to be defined at state level, if necessary
35	Still patient to be defined at state level, if necessary
36	Still patient to be defined at state level, if necessary
37	Still patient to be defined at state level, if necessary
38	Still patient to be defined at state level, if necessary
39	Still patient to be defined at state level, if necessary
40	Expired at home
41	Expired in a medical facility; e.g., hospital, SNF, ICF, or free standing hospice
42	Expired - place unknown

HL70116

Value	Description
C	Closed
H	Housekeeping
O	Occupied
U	Unoccupied
K	Contaminated
I	Isolated

HL70119

Value	Description
NW	New order (O01)
OK	Order accepted and OK (O02)
UA	Unable to accept order (O02/ORR)
CA	Cancel order request (O01)
OC	Order canceled (O01)
CR	Canceled as requested (O02)
UC	Unable to cancel (O02)
DC	Discontinue order request (O01)
OD	Order discontinued (O01)
DR	Discontinued as requested (O02)
UD	Unable to discontinue (O02)
HD	Hold order request (O01)
OH	Order held (O01)
UH	Unable to put on hold (O02)
HR	On hold as requested (O02)
RL	Release previous hold (O01)
OE	Order released (O01)
OR	Released as requested
UR	Unable to release (O02)
RP	Order replace request (O01)
RU	Replaced unsolicited (O01)
RO	Replacement order (O01)
RQ	Replaced as requested (O02)
UM	Unable to replace (O02)
PA	Parent order (O01/ORU)

CH	Child order (O01/ORU)
XO	Change order request (O01)
XX	Order changed, unsol. (O01)
UX	Unable to change (O02)
XR	Changed as requested (O02)
DE	Data errors (O01/O02)
RE	Observations to follow (O01/R01)
RR	Request received (O02)
SR	Response to send order status request (O02(Q06)
SS	Send order status request (O01)
SC	Status changed (O01)
SN	Send order number (O01)
NA	Number assigned (O02)
CN	Combined result (R01)
RF	Refill order request (O01)
AF	Order refill request approval (O02)
DF	Order refill request denied (O02)
FU	Order refilled, unsolicited (O01)
OF	Order refilled as requested (O02)
UF	Unable to refill (O02)
LI	Link order to patient care problem or goal
UN	Unlink order from patient care problem or goal

HL70121

Value	Description
E	Report exceptions 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 the MSA segment is returned

HL70123

Value	Description
O	Order received; specimen not yet received
I	No results available; specimen received, procedure incomplete
S	No results available; procedure scheduled, but not done
A	Some, but not all, results available
P	Preliminary: A verified early result is available, final results not yet obtained
C	Correction to results
C	Correction to results
R	Results stored; not yet verified
F	Final results; results stored and verified. Can only be changed with a corrected result.
X	No results available; Order canceled.
Y	No order on record for this test. (Used only on queries)
Y	No order on record for this test. (Used only on queries)
Z	No record of this patient. (Used only on queries)

HL70124

Value	Description
CART	Cart - patient travels on cart or gurney
PORT	The examining device goes to patients location
WALK	Patient walks to diagnostic service
WHLC	Wheelchair

HL70125

Value	Description
AD	Address
CE	Coded Entry
CF	Coded Element With Formatted Values
CK	Composite ID With Check Digit
CN	Composite ID And Name
CP	Composite Price
CX	Extended Composite ID With Check Digit
DT	Date
ED	Encapsulated Data
FT	Formatted Text (Display)
MO	Money
NM	Numeric
PN	Person Name
RP	Reference Pointer
SN	Structured Numeric
ST	String Data.
TM	Time
TN	Telephone Number
TS	Time Stamp (Date and Time)
TX	Text Data (Display)
XAD	Extended Address
XCN	Extended Composite Name And Number For Persons
XON	Extended Composite Name And Number For Organizations
XPN	Extended Person Name
XTN	Extended Telecommunications Number

HL70136

Value	Description
Y	Yes
N	No

HL70155

Value	Description
AL	Always
NE	Never
ER	Error/reject conditions only
SU	Successful completion only

HL70190

Value	Description
C	Current Or Temporary
P	Permanent
M	Mailing
B	Firm/Business
O	Office
H	Home
N	Birth (nee) (birth address, not otherwise specified)
BDL	Birth delivery location (address where birth occurred)
BR	Residence at birth (home address at time of birth)
F	Country Of Origin
L	Legal Address
RH	Registry home. Refers to the information system, typically managed by a public health agency, that stores patient information such as

BA

immunization histories or cancer data, regardless of where the patient obtains services.
Bad address

HL70191

Value	Description
SI	Scanned image (HL7 V2.2 only)
SI	Scanned image
NS	Non-scanned image (HL7 V2.2 only)
NS	Non-scanned image
SD	Scanned document (HL7 V2.2 only)
SD	Scanned document
TX	Machine readable text document (HL7 V2.2 only)
TX	Machine readable text document
FT	Formatted text (HL7 V2.2 only)
FT	Formatted text
TEXT	Machine readable text document (HL7 V2.3.1 and later)
IM	Image data (new with HL7 v 2.3)
AU	Audio data (new with HL7 v 2.3)
AP	Other application data, typically uninterpreted binary data (new with HL7 v 2.3)
Image	Image data (HL7 V2.3 and later)
Audio	Audio data (HL7 V2.3 and later)
Application	Other application data, typically uninterpreted binary data (HL7 V2.3 and later)

HL70200

Value	Description
A	Alias Name
L	Legal Name
D	Display Name
M	Maiden Name
C	Adopted Name
B	Name at Birth
P	Name of Partner/Spouse
S	Coded Pseudo-Name to ensure anonymity
T	Tribal/Community Name
U	Unspecified

HL70201

Value	Description
PRN	Primary Residence Number
ORN	Other Residence Number
WPN	Work Number
VHN	Vacation Home Number
ASN	Answering Service Number
EMR	Emergency Number
NET	Network (email) Address
BPN	Beeper Number

HL70202

Value	Description
PH	Telephone
FX	Fax
MD	Modem

CP	Cellular Phone
BP	Beeper
Internet	Internet Address: Use Only If Telecommunication Use Code Is NET
X.400	X.400 email address: Use Only If Telecommunication Use Code Is NET

HL70203

Value	Description
AM	American Express
AN	Account number
BR	Birth registry number
DI	Diners Club card
DL	Drivers license number
DN	Doctor number
DS	Discover Card
EI	Employee number
EN	Employer number
FI	Facility ID
GI	Guarantor internal identifier
GN	Guarantor external identifier
LN	License number
LR	Local Registry ID
MS	MasterCard
MA	Medicaid number
MC	Medicare number
MR	Medical record number
NE	National employer identifier
NI	National unique individual identifier
NH	National Health Plan Identifier
NNxxx	National Person Identifier where the xxx is the ISO table 3166 3-character (alphabetic) country code
NPI	National provider identifier
PI	Patient internal identifier
PN	Person number
PRN	Provider number
PT	Patient external identifier
RRI	Regional registry ID
RR	Railroad Retirement number
SL	State license
SR	State registry ID
SS	Social Security number
U	Unspecified
UPIN	Medicare/HCFAs Universal Physician Identification numbers
VS	VISA
VN	Visit number
WC	WIC identifier
XX	Organization identifier

HL70204

Value	Description
A	Alias name
L	Legal name
D	Display name
SL	Stock exchange listing name

HL70205

Value	Description
-------	-------------

AP	administrative price or handling fee
PF	professional fee for performing provider
UP	unit price, may be based on length of procedure or service
TF	technology fee for use of equipment
DC	direct unit cost
IC	indirect unit cost
TP	total price

HL70207

Value	Description
A	Archive
R	Restore from archive
I	Initial load
T	Current processing, transmitted at intervals (scheduled or on demand)
not present	Not present (the default, meaning current processing)

HL70209

Value	Description
EQ	Equal
EQ	Equal
NE	Not Equal
NE	Not Equal
LT	Less than
LT	Less than
GT	Greater than
GT	Greater than
LE	Less than or equal
LE	Less than or equal
GE	Greater than or equal
GE	Greater than or equal
CT	Contains
CT	Contains
GN	Generic
GN	Generic

HL70210

Value	Description
AND	Default
AND	Default
OR	Default
OR	Default

HL70211

Value	Description
ASCII	The printable 7-bit ASCII character set. (This is the default if this field is omitted)
8859/1	The printable characters from the ISO 8859/1 Character set
8859/2	The printable characters from the ISO 8859/2 Character set
8859/3	The printable characters from the ISO 8859/3 Character set
8859/4	The printable characters from the ISO 8859/4 Character set
8859/5	The printable characters from the ISO 8859/5 Character set
8859/6	The printable characters from the ISO 8859/6 Character set
8859/7	The printable characters from the ISO 8859/7 Character set
8859/8	The printable characters from the ISO 8859/8 Character set
8859/9	The printable characters from the ISO 8859/9 Character set

ISO IR14	Code for Information Exchange (one byte)(JIS X 0201-1976). Note that the code contains a space, i.e. ISO IR14.
ISO IR87	Code for the Japanese Graphic Character set for information interchange (JIS X 0208-1990), Note that the code contains a space, i.e. ISO IR87.
ISO 159	Code of the supplementary Japanese Graphic Character set for information interchange (JIS X 0212-1990), Note that the code contains a space, i.e. ISO IR159.
UNICODE	The world wide character standard from ISO/IEC 10646-1-1993

HL70213

Value	Description
P	Marked for purge. User is no longer able to update the visit.
D	The visit is marked for deletion and the user cannot enter new data against it.
I	The visit is marked inactive and the user cannot enter new data against it.

HL70220

Value	Description
A	Alone
F	Family
I	Institution
R	Relative
U	Unknown
S	Spouse Only

HL70223

Value	Description
D	Spouse dependent
M	Medical Supervision Required
S	Small children
WU	Walk up
CB	Common Bath

HL70224

Value	Description
A	Arranged
A	Arranged
N	Not Arranged
N	Not Arranged
U	Unknown
U	Unknown

HL70225

Value	Description
R	Required
N	Not Required
U	Unknown

HL70231

Value	Description
F	Full-time student
P	Part-time student
N	Not a student

HL70267

Value	Description
SAT	Saturday
SUN	Sunday
MON	Monday
TUE	Tuesday
WED	Wednesday
THU	Thursday
FRI	Friday

HL70291

Value	Description
TIFF	TIFF Image Data
PICT	PICT format image data
DICOM	Digital Imaging and Communications in Medicine
FAX	Facsimile data
JOT	Electronic ink data (Jot 1.0 standard)
BASIC	ISDN PCM audio data
Octet-stream	Uninterpreted Binary Data
PostScript	PostScript Program
JPEG	Joint Photographics Expert Group
GIF	Graphics Interchange Format
HTML	HyperText Markup Language
RTF	Rich Text Format

HL70294

Value	Description
Prefstart	The preferred start time for the appointment request, service or resource. Any legal time specification in the format HHMM, using 24-hour clock notation
PREFSTART	The preferred start time for the appointment request, service or resource. Any legal time specification in the format HHMM, using 24-hour clock notation
Prefend	The preferred end time for the appointment request, service or resource. Any legal time specification in the format HHMM, using 24-hour clock notation
PREFEND	The preferred end time for the appointment request, service or resource. Any legal time specification in the format HHMM, using 24-hour clock notation
Mon	An indicator that Monday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred
MON	An indicator that Monday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred
TUE	An indicator that Tuesday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred
Tue	An indicator that Tuesday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred

Wed	not preferred An indicator that Wednesday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred
WED	An indicator that Wednesday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred
Thu	An indicator that Thursday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred
THU	An indicator that Thursday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred
Fri	An indicator that Friday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred
FRI	An indicator that Friday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred
Sat	An indicator that Saturday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred
SAT	An indicator that Saturday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred
Sun	An indicator that Sunday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred
SUN	An indicator that Sunday is or is not preferred for the day on which the appointment will occur. OK = Preferred appointment day NO = Day is not preferred

HL70298

Value	Description
P	Pro-rate. Apply this price to this interval, pro-rated by whatever portion of the interval has occurred/been consumed
F	Flat-rate. Apply the entire price to this interval, do not pro-rate the price if the full interval has not occurred/been consumed

HL70299

Value	Description
A	ASCII
Hex	Hexadecimal encoding
Base64	MIME Encoding

HL70301

Value	Description
DNS	An Internet dotted name. Either in ASCII or as integers
GUID	Same as UUID.
HCD	The CEN Healthcare Coding Scheme Designator. (Identifiers used in DICOM follow this assignment scheme.)
HL7	Reserved for future HL7 registration schemes
ISO	An International Standards Organization Object Identifier
L	These are reserved for locally defined coding schemes.
Random	Usually a base64 encoded string of random bits. The uniqueness depends on the length of the bits. Mail systems often generate ASCII string unique names, from a combination of random bits and system names. Obviously, such identifiers will not be con
UUID	The DCE Universal Unique Identifier

x400	An X.400 MHS format identifier
x500	An X.500 directory name
M	These are reserved for locally defined coding schemes.
N	These are reserved for locally defined coding schemes.

HL70315

Value	Description
Y	Yes, patient has a living will
F	Yes, patient has a living will but it is not on file
N	No, patient does not have a living will and no information was provided
I	No, patient does not have a living will but information was provided
U	Unknown

HL70316

Value	Description
Y	Yes, patient is a donor and card is on file
F	Yes, patient is a donor, but card is not on file
I	No, patient does not have a living will but information was provided
U	Unknown

HL70326

Value	Description
A	Account level (default)
V	Visit level

HL70339

Value	Description
1	Service is subject to medical necessity procedures
2	Patient has been informed of responsibility, and agrees to pay for service
3	Patient has been informed of responsibility, and asks that the payer be billed
4	Advanced Beneficiary Notice has not been signed

HL70354

Value	Description
ADT_A01	A01, A04, A05, A08, A13, A14, A28, A31
ADT_A02	A02, A21, A22, A23, A25, A26, A27, A29, A32, A33
ADT_A03	A03
ADT_A06	A06, A07
ADT_A09	A09, A10, A11, A15
ADT_A12	A12
ADT_A16	A16
ADT_A17	A17
ADT_A18	A18
ADT_A20	A20
ADT_A24	A24
ADT_A28	A28, A31
ADT_A30	A30, A34, A35, 136, A46, A47, A48, A49
ADT_A37	A37
ADT_A38	A38
ADT_A39	A39, A40, A41, A42
ADT_A43	A43, A44

ADT_A45	A45
ADT_A50	A50, A51
ARD_A19	A19
BAR_P01	P01, P05
BAR_P02	P02
BAR_P06	P06
CRM_C01	C01, C02, C03, C04, C05, C06, C07, C08
CSU_C09	C09, C10, C11, C12
DFT_P03	P03
DOC_T12	T12
DSR_Q01	Q01
DSR_Q03	Q03
EDR_R07	R07
EQQ_Q04	Q04
ERP_R09	R09
MDM_T01	T01, T03, T05, T07, T09, T11
MDM_T02	T02, T04, T06, T08, T10
MFD_P09	P09
MFK_M01	M01, M03, M05, M06, M07, M08, M09, M10, M11
MFN_M01	M01
MFN_M02	M02
MFN_M03	M03
MFN_M05	M05
MFN_M06	M06
MFN_M07	M07
MFN_M08	M08
MFN_M09	M09
MFN_M10	M10
MFN_M11	M11
NUL	Null
ORF_R02	R02, R04
ORM_O01	O01
ORM_Q06	Q06
ORR_O02	O02
ORR_Q06	Q06
ORU_R01	R01
ORU_W01	W01
OSQ_Q06	Q06
OSR_Q06	Q06
PEX_P07	P07, P08
PGL_PC6	PC6, PC7, PC8
PIN_I07	I07
PPG_PCG	PCC, PCH, PCJ
PPP_PCB	PCB, PCD
PPR_PC1	PC1, PC2, PC3
PPT_PCL	PCL
PPV_PCA	PCA
PRR_PC5	PC5
PTR_PCF	PCF
QCK_Q02	Q02
QRY_A19	A19
QRY_PC4	PC4, PC9, PCE, PCK
QRY_Q01	Q01
QRY_Q02	Q02
QRY_R02	R02, R04
QRY_T12	T12
RAR_RAR	RAR
RAS_O01	O01
RAS_O02	O022
RCI_I05	I05
RCL_I06	I06
RDE_O01	O01
RDR_RDR	RDR

RDS_O01	O01
REF_I12	I12, I13, I14, I15
RER_RER	RER
RGR_RGR	RGR
RGV_O01	O01
RROR_ROR	ROR
RPA_I08	I08, I09, I10, I11
RPI_I01	I01, I04
RPL_I02	I02
RPR_I03	I03
RQA_I08	I08, I09, I10, I11
RQC_I05	I05
RQC_I06	I06
RQI_I01	I01, I02, I03
RQP_I04	I04
RQQ_Q09	Q09
RRA_O02	O02
RRD_O02	O02
RRE_O01	O01
RRG_O02	O02
RRI_I12	I12, I13, I14, I15
SIIU_S12	S12, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, S23, S24, S26
SPQ_Q08	Q08
SQM_S25	S25
SQR_S25	S25
SRM_S01	S01, S02, S03, S04, S05, S06, S07, S08, S09, S10, S11
SRM_T12	T12
SRR_S01	S01, S02, S03, S04, S05, S06, S07, S08, S09, S10, S11
SRR_T12	T12
SUR_P09	P09
TBR_R09	R09
UDM_Q05	Q05
VQQ_Q07	Q07
VXQ_V01	V01
VXR_V03	V03
VXU_V04	V04
VXX_V02	V02

HL70356

Value	Description
ISO 2022-1994	2022-1994 This standard is titled Information Technology - Character Code Structure and Extension Technique. This standard specifies an escape sequence from basic one byte character set to specified other character set, and vice versa. The escape sequence expl
<null>	This is the default, indicating that there is no character set switching occurring in this message.

HL70360

Value	Description
AAS	Associate of Applied Science
AA	Associate of Arts
ABA	Associate of Business Administration
AE	Associate of Engineering
AS	Associate of Science
BA	Bachelor of Arts
BBA	Bachelor of Business Administration
BE	Bachelor of Engineering
BFA	Bachelor of Fine Arts

BN	Bachelor of Nursing
BS	Bachelor of Science
BSL	Bachelor of Science, Law
BT	Bachelor of Theology
CER	Certificate
DIP	Diploma
DBA	Doctor of Business Administration
DED	Doctor of Education
PHE	Doctor of Engineering
PHD	Doctor of Philosophy
PHS	Doctor of Science
MD	Doctor of Medicine
DO	Doctor of Osteopathy
HS	High School Graduate
JD	Juris Doctor
MA	Master of Arts
MBA	Master of Business Administration
MCE	Master of Civil Engineering
MDI	Master of Divinity
MED	Master of Education
MEE	Master of Electrical Engineering
ME	Master of Engineering
MFA	Master of Fine Arts
MME	Master of Mechanical Engineering
MS	Master of Science
MSL	Master of Science, Law
MT	Master of Theology
NG	Non-Graduate
SEC	Secretarial Certificate
TS	Trade School Graduate

HL70364

Value	Description
PI	Patient Instructions
AI	Ancillary Instructions,
GI	General Instructions
1R	Primary Reason
2R	Secondary Reason
GR	General Reason
RE	Remark
DR	Duplicate/Interaction Reason

HL74000

Value	Description
I	Ideographic (i.e., Kanji)
A	Alphabetic (i.e., Default or some single-byte)
P	Phonetic (i.e., ASCII, Katakana, Hiragana, etc.)

HL7SNComparator

Value	Description
>	Greater than
<	Less than
>=	Greater than or equal to
<=	Less than or equal to
=	Equals
<>	Not equals

HL7SNSeparatorSuffix

Value	Description
-	
+	
/	
.	
:	

Separators

Separator Type	Value	Field Path	Replacement
Segment	¥x0D		¥x0D¥
Field Repeat	~	MSH.EncodingCharacters	¥R¥
Null Value	""		
Field Level 1		MSH.FieldSeparator	¥F¥
Field Level 2	^	MSH.EncodingCharacters	¥S¥
Field Level 3	&	MSH.EncodingCharacters	¥T¥
User Defined String 1	¥	MSH.EncodingCharacters	¥E¥