
**Generic Interface System
(GIS)
Version 3.01
Based on HL7 Standard Version 2.4**

**Mapping Document
HL7 Segments to IHS Files**

July 2001

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1. DG1 – diagnosis (2.4)

The DG1 segment contains patient diagnosis information of various types, for example, admitting, primary, etc. The DG1 segment is used to send multiple diagnoses (for example, for medical records encoding).

In the IHS implementation, each DG1 is followed by one ZDX.

DG1 attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
1	4	SI	R		0053	00375	Set ID - Diagnosis	Patient: 9000001, 1114	sequential in each message from 1 to 'n'
2	2	ID	R		0051	00376	Diagnosis Coding Method	[underlying cause of death]	ptr to ICD Diagnosis: 80, .01 [code number] and 3
3	250	CE	O			00377	Diagnosis Code	V Hosp : 9000010.02, .12 [admitting dx]	[diagnosis] ptr to ICD Diagnosis: 80, .01 [code number] and 3
								V CHS: 9000010.03, .09 [newborn dx]	[diagnosis] ptr to ICD Diagnosis: 80, .01 [code number] and 3
								V POV: 9000010.07, .01 [pov]	[diagnosis] ptr to ICD Diagnosis: 80, .01 [code number] and 3
4	40	ST				00378	Diagnosis Description	<i>site-defined table... see notes in next column. (Table 0052 - user defined)</i>	(this field works with diagnosis type field below, DG1.6)
5	26	TS	B			00379	Diagnosis Date/Time		not used
6	2	IS	O		0052	00380	Diagnosis Type		not used
			R						<i>for patient, 9000001, 1114 (Underlying cause of death) use with a type code DH.</i>
									<i>for admitting, use with type code AD</i>
									<i>for newborn, use with type code NB (also, PV1:36, Newborn Baby Indicator must be "Y")</i>
									<i>for Purpose of Visit, use with code PV</i>
									<i>for other dx types, use appropriate dx type (to be specified in site-defined table associated with this field)</i>
7	250	CE	B		0118	00381	Major Diagnostic Category	<i>V POV: 9000010.07, .12 [primary/secondary]</i>	not used
8	250	CE	B		0055	00382	Diagnostic Related Group		not used
9	1	ID	B		0136	00383	DRG Approval Indicator		not used
10	2	IS	B		0056	00384	DRG Group Review Code		not used
11	250	CE	B		0083	00385	Outlier Type		not used
12	3	NM	B			00386	Outlier Days		not used
13	12	CP	B			00387	Outlier Cost		not used
14	4	ST	B			00388	Group Version And Type		not used
15	2	ID	O		0359	00389	Diagnosis Priority		not used
									<i>Use IHS set (code only P or S)</i>
16	250	XCN	O	Y		00390	Diagnosing Clinician		not used
17	3	IS	O		0228	00766	Diagnosis Classification		not used
18	1	ID	O		0136	00767	Confidential Indicator		not used
19	26	TS	O			00768	Attestation Date/Time		not used

2. **ERR – error (2.4)**

The ERR segment is used to add error comments to acknowledgment messages.

ERR attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME	IHS File Reference	IHS Notes
1	80	CM	R	Y		00024	Error Code and Location		may be used for additional information: site-defined

3. EVN - event type (2.4)

The EVN segment is used to communicate necessary trigger event information to receiving applications. Valid event types for all messages are contained in HL7 Table 0003 - Event Type Code.

EVN attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
1	3	ID	B		0003	00099	Event Type Code		HL7 Event Type Code: 779.001, .01 [code] - See Note 2. IHS-supported events listed elsewhere See Notes 3 & 4, below not used not used not used not used
2	26	TS	R			00100	Date/Time of Event		
3	26	TS	O			00101	Date/Time Planned Event		
4	3	IS	O		0062	00102	Event Reason Code		
5	250	XCN	O	Y	0188	00103	Operator ID		
6	26	TS	O			01278	Event Occurred		
7	180	HD	O			01534	Event Facility		

Notes:

- 1) EVN segment is somewhat redundant, but it is required for ADT events (except for the response to the A19 - ADT record-oriented query).
- 2) EVN:1, event type code is a duplicate of MSH:9,2, trigger event... but use since this is a required field.
- 3) EVN:2, event date/time is a duplicate of the transaction date (MSH:7) -- but since this is a required field, use the transaction date on update, A08, & merge events, (not needed for query return, A19, since this segment is optional for that event)
- 4) EVN:2: Visit start date (aka visit admit date/time, PV1:44), visit end date (aka visit discharge/checkout date/time, PV1:45), date/time of last update for patient file (ZP1:8), and date/time of last reg update for patient file (ZP1:2) would not be used for this field since we're not using admit (A01), or discharge (A03) events, and the HL7 update event (A08) doesn't distinguish between a patient demographic or a patient reg update.

4. GT1 – Guarantor Information (2.4)

The GT1 segment contains guarantor (e.g., the person or the organization with financial responsibility for payment of a patient account) data for patient and insurance billing applications. It contains the Policy holder information from RPMS.

GT1 attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME	IHS File Reference	IHS Notes
1	4	SI	R			00405	Set ID – GT1		
2	250	CX	O	Y		00406	Guarantor Number		9000003.1,.04 [Policy Number]
3	250	XPX	R	Y		00407	Guarantor Name		9000003.1,.01 [Name of Insured]
4	250	XPX	O	Y		00408	Guarantor Spouse Name		not used
5	250	XAD	O	Y		00409	Guarantor Address		9000003.1,.11,.12,.13, [Address]
6	250	XTN	O	Y		00410	Guarantor Ph Num – Home		9000003.1,.14 [Phone Number]
7	250	XTN	O	Y		00411	Guarantor Ph Num – Business		not used
8	26	TS	O			00412	Guarantor Date/Time of Birth		9000003.1,.19 [Date of Birth]
9	1	IS	O		0001	00413	Guarantor Sex		9000003.1,.08 [Sex]
10	2	IS	O		0068	00414	Guarantor Type		not used
11	250	CE	O		0063	00415	Guarantor Relationship		not used
12	11	ST	O			00416	Guarantor SSN		9000003.1,.17 [Effective Date]
13	8	DT	O			00417	Guarantor Date – Begin		9000003.1,.18 [Expiration Date]
14	8	DT	O			00418	Guarantor Date – End		not used
15	2	NM	O			00419	Guarantor Priority		not used
16	250	XPX	O	Y		00420	Guarantor Employer Name		9999999.75,.01 [Employer]
17	250	XAD	O	Y		00421	Guarantor Employer Address		9999999.75,.02,.03,.04,.05 [Street Address, City, State, Zip]
18	250	XTN	O	Y		00422	Guarantor Employee Phone Number		9999999.75,.06 [Phone Number]
19	20	CX	O	Y		00423	Guarantor Employee ID Number		not used
20	2	IS	O		0066	00424	Guarantor Employment Status		9000003.1,.15 [Holders Employment Status]
21	250	XON	O	Y		00425	Guarantor Organization Name		not used
22	1	ID	O		0136	00773	Guarantor Billing Hold Flag		not used
23	250	CE	O			00774	Guarantor Credit Rating Code		not used
24	26	TS	O			00775	Guarantor Death Date and Time		not used
25	1	ID	O		0136	00776	Guarantor Death Flag		not used
26	250	CE	O		0218	00777	Guarantor Charge Adjustment Code		not used
27	10	CP	O			00778	Guarantor Household Income		not used
28	3	NM	O			00779	Guarantor Household Size		not used
29	250	CX	O	Y		00780	Guarantor Employer ID Number		not used
30	250	CE	O		0002	00781	Guarantor Marital Status Code		not used
31	8	DT	O			00782	Guarantor Hire Effective Date		not used
32	8	DT	O			00783	Employment Stop Date		not used
33	2	IS	O		0223	00755	Living Dependency		not used
34	2	IS	O		0009	00145	Ambulatory Status		not used
35	250	CE	O		0171	00129	Citizenship		not used
36	250	CE	O		0296	00118	Primary Language		not used
37	2	IS	O		0220	00742	Living Arrangement		not used
38	250	CE	O		0215	00743	Publicity Indicator		not used
39	1	ID	O		0136	00744	Protection Indicator		not used

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME	IHS File Reference	IHS Notes
40	2	IS	O		0231	00745	Student Indicator		not used
41	250	IS	O		0006	00120	Religion		not used
42	250	XPN	O			00746	Mother's Maiden Name		not used
43	250	CE	O		0212	00739	Nationality		not used
44	250	CE	O		0189	00125	Ethnic Group		not used
45	250	XPN	O	Y		00748	Contact Person Name		not used
46	250	XTN	O	Y		00749	Contact Person's Telephone Number		not used
47	250	CE	O		0222	00747	Contact Reason		not used
48	2	IS	O		0063	00784	Contact Relationship		not used
49	20	ST	O			00785	Job Title		not used
50	20	JCC	O			00786	Job Code/Class		not used
51	250	XON	O	Y		01232	Guarantor Employer's Organization Name		not used
52	2	IS	O		0310	00753	Handicap		not used
53	2	IS	O		0311	00752	Job Status		not used
54	50	FC	O		0064	01231	Guarantor Financial Class		not used
55	250	CE	O	Y	0005	01292	Guarantor Race		not used

5. IN1 – insurance (2.4)

The IN1 segment contains insurance policy coverage information necessary to produce properly pro-rated and patient and insurance bills. For IHS purposes, there are three types of insurance: Medicare, Medicaid, and private-party. The IHS File References and IHS Notes columns will reflect this by the use of MCR, MCD, and PVT, respectively.

IN1 attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME	IHS File Reference	IHS Notes
1	4	SI	R			00426	Set ID - IN1		numeric index; 1 to "n"
2	250	CE	R		0072	00368	Insurance Plan Id		not used
3	250	CX	R	Y		00428	Insurance Company ID		not used
4	250	XON	O	Y		00429	Insurance Company Name	PVT: Policy Holder: 9000003.1, .03 [insurance company]	MCR: "MEDICARE" MCD: "MEDICAID" PVT: ptr to Insurer: 9999999.18, .01 [name]
5	250	XAD	O	Y		00430	Insurance Company Address		not used
6	250	XPB	O	Y		00431	Insurance Co. Contact Person		not used
7	250	XTN	O	Y		00432	Insurance Co. Phone Number		not used
8	12	ST	O			00433	Group Number	MCR: Medicare Eligible: 90000003, .04 [suffix] MCD: Medicaid Eligible: 9000004.11, .04 [state] PVT: Policy Holder: 9000003.1, .06 [group name]	MCR: ptr to Medicare Suffix: 9999999.32, .01 [code]
9	250	XON	O	Y		00434	Group Name		PVT: ptr to Employer Group Insurance: 9999999.77, .02 [group number]
10	250	CX	O	Y		00435	Insured's Group Emp. ID		not used
11	250	XON	O	Y		00436	Insured's Group Emp Name		not used
12	8	DT	O			00437	Plan Effective Date	MCR: Medicare Eligible: 9000003.11, .01 [elig. date] MCD: Medicaid Eligible: 9000004.11, .01 [elig. date] PVT: Policy Holder: 9000003.1, .17 [effective date] MCR: Medicare Eligible: 9000003.11, .02 [elig. end date] MCD: Medicaid Eligible: 9000004.11, .02 [elig. end date] PVT: Policy Holder: 9000003.1, .18 [expiration date]	not used
13	8	DT	O			00438	Plan Expiration Date		not used
14	250	CM	O			00439	Authorization Information		not used
15	3	IS	O		0086	00440	Plan Type		not used
16	250	XPB	O	Y		00441	Name Of Insured	MCR: Medicare Eligible: 9000003, .05 [name of insured] MCD: Medicaid Eligible: 9000004, 2101 [medicaid name] PVT: Policy Holder: 9000003.1, .01 [name of policy holder]	

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME	IHS File Reference	IHS Notes
17	250	CE	O		0063	00442	Insured's Relationship to Patient		MCR: "SF" MCD: "SF" PVT: Need to identify relationship of patient to insured, then take inverse of that.
18	26	TS	O			00443	Insured's Date of Birth	PVT: Policy Holder: 90000003.1, .19 [date of birth]	MCR: not used MCD: not used
19	250	XAD	O	Y		00444	Insured's Address	PVT: Policy Holder: 90000003.1 .09 [holder's address - street] .11 [holder's address - city] .12 [holder's address - state] .13 [holder's address - zip]	MCR: not used MCD: not used
20	2	IS	O		0135	00445	Assignment Of Benefits		not used
21	2	IS	O	Y	0173	00446	Coordination Of Benefits		not used
22	2	ST	O			00447	Coord Of Ben. Priority		not used
23	2	ID	O		0136	00448	Notice Of Admission Flag		not used
24	8	DT	O			00449	Notice Of Admission Date		not used
25	1	ID	O		0136	00450	Report Of Eligibility Flag		not used
26	8	DT	O			00451	Report Of Eligibility Date		not used
27	2	IS	O		0093	00452	Release Information Code		not used
28	15	ST	O			00453	Pre-Admit Cert (PAC)		not used
29	26	TS	O			00454	Verification Date/Time		not used
30	250	XCN	O	Y		00455	Verification By		not used
31	2	IS	O		0098	00456	Type Of Agreement Code		not used
32	2	IS	O		0022	00457	Billing Status		not used
33	4	NM	O			00458	Lifetime Reserve Days		not used
34	4	NM	O			00459	Delay Before L.R. Day		not used
35	8	IS	O		0042	00460	Company Plan Code		not used
36	15	ST	O			00461	Policy Number		not used
37	12	CP	O			00462	Policy Deductible		not used
38	12	CP	O			00463	Policy Limit - Amount	MCD: Medicaid Eligible: 90000004, .07 [sex of insured]	not used
39	4	NM	O			00464	Policy Limit - Days	PVT: Policy Holder: 90000003.1, .08 [policy holder's sex]	not used
40	12	CP	B			00465	Room Rate - Semi-Private		not used
41	12	CP	B			00466	Room Rate - Private		not used
42	250	CE	O		0066	00467	Insured's Employment Status		not used
43	1	IS	O		0001	00468	Insured's Sex		MCR: not used
44	250	XAD	O	Y		00469	Insured's Employer Address		not used
45	2	ST	O		0076	00470	Verification Status		not used
46	8	IS	O		0072	00471	Prior Insurance Plan ID		not used
47	3	IS	O		0309	01227	Coverage Type	MCR: Medicare Eligible: 90000003.11, .03 [coverage type] MCD: Medicaid Eligible: 90000004.11, .03 [coverage type] PVT: Policy Holder: 90000003.1, .05 [coverage type]	PVT: ptr to Coverage Type: 9999999.65, .01 [name] (See IHS TABLE – INSURANCE COVERAGE TYPE) not used
48	2	IS	O		0310	00753	Handicap		

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME	IHS File Reference	IHS Notes
49	250	CX	O	Y		01230	Insured's ID Number	MCR: Medicare Eligible: 90000003, .03 [medicare number] MCD: Medicaid Eligible: 90000004, .03 [medicaid number] PVT: Policy Holder: 90000003.1, .04 [policy number]	

6. IN2 - insurance additional information (2.4)

The IN2 segment contains additional insurance policy coverage and benefit information necessary for proper billing and reimbursement. Fields used by this segment are defined by HCFA or other regulatory agencies.

IN2 attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME	IHS File Reference	IHS Notes
1	250	CX	O	Y		00472	Insured's Employee ID	Policy Holder: 90000003.1, .16 [employer] -> Employer: 9999999.18, .01 [name]	not used
2	11	ST	O			00473	Insured's Social Security Number		not used
3	250	XCN	O	Y		00474	Insured's Employer Name		
4	1	IS	O		0139	00475	Employer Information Data	Medicare Eligible: 90000003, .03 [medicare number]	not used
5	1	IS	O	Y	0137	00476	Mail Claim Party		not used
6	15	ST	O			00477	Medicare Health Ins Card Number		
7	250	XPN	O	Y		00478	Medicaid Case Name	Medicaid Eligible: 90000004, .13 [case number]	not used
8	15	ST	O			00479	Medicaid Case Number		
9	250	XPN	O	Y		00480	Champus Sponsor Name		not used
10	20	ST	O			00481	Champus ID Number		not used
11	250	CE	O		0342	00482	Dependent of Champus Recipient		not used
12	25	ST	O			00483	Champus Organization		not used
13	25	ST	O			00484	Champus Station		not used
14	14	IS	O		0140	00485	Champus Service		not used
15	2	IS	O		0141	00486	Champus Rank/Grade		not used
16	3	IS	O		0142	00487	Champus Status		not used
17	8	DT	O			00488	Champus Retire Date		not used
18	1	ID	O		0136	00489	Champus Non-Avail Cert On File		not used
19	1	ID	O			00490	Baby Coverage		not used
20	1	ID	O		0136	00491	Combine Baby Bill		not used
21	1	ST	O			00492	Blood Deductible		not used
22	250	XPN	O	Y		00493	Special Coverage Approval Name		not used
23	30	ST	O			00494	Special Coverage Approval Title		not used
24	8	IS	O	Y		00495	Non-Covered Insurance Code		not used
25	250	CX	O	Y	0143	00496	Payor ID		not used
26	250	CX	O	Y		00497	Payor Subscriber ID		not used
27	1	IS	O		0144	00498	Eligibility Source		not used
28	250	CM	O	Y	0145/ 0146	00499	Room Coverage Type/Amount		not used
29	250	CM	O	Y	0147/ 0193	00500	Policy Type/Amount		not used
30	250	CM	O			00501	Daily Deductible		not used
31	2	IS	O		0223	00755	Living Dependence		not used
32	2	IS	O		0009	00145	Ambulatory Status		not used
33	250	CE	O		0171	00129	Citizenship		not used
34	250	CE	O		0296	00118	Primary Language		not used

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME	IHS File Reference	IHS Notes
35	2	IS	O		0220	00742	Living Arrangement		not used
36	250	CE	O		0215	00743	Publicity Indicator		not used
37	1	ID	O		0136	00744	Protection Indicator		not used
38	2	IS	O		0231	00745	Student Indicator		not used
39	250	IS	O		0006	00120	Religion		not used
40	250	XPN	O	Y		00746	Mother's Maiden Name		not used
41	250	CE	O		0212	00739	Nationality		not used
42	250	CE	O	Y	0189	00125	Ethnic Group		not used
43	250	CE	O	Y	0002	00119	Marital Status		not used
44	8	DT	O			00787	Insured's Employment Start Date		not used
45	8	DT	O			00783	Insured's Employment Stop Date		not used
46	20	ST	O			00785	Job Title		not used
47	20	JCC	O		0327/	00786	Job Code/Class		not used
48	2	IS	O		0328	00752	Job Status		not used
49	250	XPN	O	Y	0311	00789	Employer Contact Person Name		not used
50	250	XTN	O	Y		00790	Employer Contact Person Phone Number		not used
51	2	IS	O		0222	00791	Employer Contact Reason		not used
52	250	XPN	O	Y		00792	Insured's Contact Person's Name		not used
53	250	XTN	O	Y		00793	Insured's Contact Person Telephone Number		not used
54	2	IS	O	Y	0222	00794	Insured's Contact Person Reason		not used
55	8	DT	O			00795	Relationship To The Patient Start Date		not used
56	8	DT	O	Y		00796	Relationship To The Patient Stop Date		not used
57	2	IS	O		0232	00797	Insurance Co. Contact Reason		not used
58	250	XTN	O			00798	Insurance Co Contact Phone Number		not used
59	2	IS	O		0312	00799	Policy Scope		not used
60	2	IS	O		0313	00800	Policy Source		not used
61	250	CX	O			00801	Patient Member Number		not used
62	250	CE	O		0063	00802	Guarantor's Relationship To Insured		not used
63	250	XTN	O	Y		00803	Insured's Telephone Number - Home		not used
64	250	XTN	O	Y		00804	Insured's Employer Telephone Number		not used
65	250	CE	O		0343	00805	Military Handicapped Program		not used
66	1	ID	O		0136	00806	Suspend Flag		not used
67	1	ID	O		0136	00807	Copay Limit Flag		not used
68	1	ID	O		0136	00808	Stoploss Limit Flag		not used
69	250	XON	O	Y		00809	Insured Organization Name And ID		not used
70	250	XON	O	Y		00810	Insured Employer Organization Name And ID		not used
71	250	CE	O	Y	0005	00113	Race		not used

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME	IHS File Reference	IHS Notes
72	250	CE	O		0344	00811	HCFA Patient Relationship To Insured		not used

7. MFA - master file acknowledgment (2.4)

MFA attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
1	3	ID	R		0180	00664	Record-Level Event Code		
2	20	ST	C			00665	MFN Control ID		
3	26	TS	O			00668	Event Completion Date/Time		
4	250	CE	R		0181	00669	Error Return Code And/Or Text		
5	250	CE	R	Y	9999	01308	Primary Key Value – MFA		
6	3	ID	R	Y	0355	01320	Primary Key Value Type – MFA		

8. MFE - master file entry (2.4)

MFE attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
1	3	ID	R		0180	00664	Record-Level Event Code		
2	20	ST	C			00665	MFN Control ID		
3	26	TS	O			00662	Effective Date/Time		
4	200	Varies	R	Y		00667	Primary Key Value - MFE		
5	3	ID	R	Y	0355	01319	Primary Key Value Type - MFE		

9. MFI - master file identification (2.4)

MFI attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
1	250	CE	R		0175	00658	Master File Identifier		
2	180	HD	O			00659	Master File Application Identifier		
3	3	ID	R		0178	00660	File-Level Event Code		
4	26	TS	O			00661	Entered Date/Time		
5	26	TS	O			00662	Effective Date/Time		
6	2	ID	R		0179	00663	Response Level Code		

10. MSA - message acknowledgment (2.4)

The MSA segment contains information sent while acknowledging another message.

MSA attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME	IHS File Reference	IHS Notes
1	2	ID	R		0008	00018	Acknowledgment Code		HL7 Acknowledgement Code - for "accept acks" echoed back from initial message may be used for additional information: site-defined if using HL7 sequence # protocol not used may be used for additional information: site-defined
2	20	ST	R			00010	Message Control ID		
3	80	ST	O			00020	Text Message		
4	15	NM	O			00021	Expected Sequence Number		
5	1	ID	O		0102	00022	Delayed acknowledgment Type		
6	250	CE	O		0357	00023	Error Condition		

11. MSH - message header (2.4)

The MSH segment defines the intent, source, destination, and some specifics of the syntax of a message.

MSH attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME	IHS File Reference	IHS Notes
1	1	ST	R			00001	Field Separator	" "	
2	4	ST	R			00002	Encoding Characters	"^~ &"	
3	180	HD	O		0361	00003	Sending Application		
4	180	HD	O		0362	00004	Sending Facility		
5	180	HD	O		0361	00005	Receiving Application		
6	180	HD	O		0362	00006	Receiving Facility		
7	26	TS	O			00007	Date/Time Of Message		transaction date/time
8	40	ST	O			00008	Security		HL7 Message Type
9	13	CM	R		0076/ 0003	00009	Message Type		HL7 Event Type Code
10	20	ST	R			00010	Message Control ID		unique ID for message, echoed back in MSA segment
11	3	PT	R			00011	Processing ID		usually 'P'
12	60	VID	R		0104	00012	Version ID		HL7 Version "2.4"
13	15	NM	O			00013	Sequence Number		If using on a broadcast link
14	180	ST	O			00014	Continuation Pointer		if need to continue message
15	2	ID	O		0155	00015	Accept acknowledgment Type		HL7 Accept / Application ACK Condition "AL"
16	2	ID	O		0155	00016	Application acknowledgment Type		not used
17	2	ID	O		0399	00017	Country Code		Country Code - not used
18	16	ID	O	Y	0211	00692	Character Set		not used
19	250	CE	O			00693	Principal Language Of Message		not used
20	20	ID	O		0356	01317	Alternate Character Set Handling Scheme		not used
21	10	ID	O	Y	0449	01598	Conformance Statement ID		not used

12. NK1 - next of kin / associated parties (2.4)

The NK1 segment contains information about the patient's other related parties. Any associated parties may be identified. Utilizing the NK1:1 (Set ID) field, multiple NK1 segments can be sent to patient accounts.

In the IHS implementation, this segment has a potential of four (4) different uses, based on the values in NK1:3 (Relationship) and NK1:7 (Contact Role). Numbers in the "IHS File Reference" and "IHS Notes" columns indicate for which option the field is valued.

- 1. NK1:3 = "self", NK1:7 = "...": This NK1 will carry the patient's employment status and the patient's employer's name. No other sequence numbers will be used.
- 2. NK1:3 = "spouse", NK1:7 = "...": This NK1 will carry the patient's spouse's employer's name. No other sequence numbers will be used.
- 3. NK1:3 = any valid value, NK1:7 = "NOK": This NK1 identifies the patient's next-of-kin. NK1:3 identifies the NOK's relationship to the patient (brother, sister, etc), with name, address, and phone number information included in the segment.
- 4. NK1:3 = any valid value, NK1:7 = "EC": This NK1 identifies the patient's emergency contact. NK1:3 identifies the EC's relationship to the patient (brother, sister, etc), with name, address, and phone number information included in the segment.

NK1 attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
1	4	SI	R			00190	Set ID - Next of Kin / Associated Parties		required field, but not really needed: use integer sequence number for # NK1's in the message.
2	250	XPN		Y		00191	Name	3) VA Patient: 2, .211 [next of kin] 4) VA Patient: 2, .331 [emergency contact]	3) name for NOK 4) name for EC
3	250	CE			0063	00192	Relationship	3) VA Patient: 2, .212 [nok relationship] 4) VA Patient: 2, .332 [ec relationship]	used alone to identify "self" and "spouse employer" NK1s; used in conjunction with NK1:7 to provide two-level identification of NOK and EC relationships 1) "self" (xref: Relationship: 9999999.36, .01) 2) "spouse" (" 3) ptr to Relationship: 9999999.36, .01 [name] 4) ptr to Relationship: 9999999.36, .01 [name] 3) next-of-kin address 4) emergency contact address
4	250	XAD		Y		00193	Address	3) VA Patient: 2, .213, .214, .215 [nok address-street] .216 [nok address-city] .217 [nok address-state] .218 [nok address-zip] 4) VA Patient: 2, .333, .334, .335 [ec address-street] .336 [ec address-city] .337 [ec address-state] .338 [ec address-zip]	
5	250	XTN		Y		00194	Phone Number	3) VA Patient: 2, .219 [nok phone] 4) VA Patient: 2, .339 [ec phone]	

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
6	250	XTN		Y	0131	00195	Business Phone Number		not used
7	250	CE				00196	Contact Role		Relationship: 9999999.36, .01 [name] - used in conjunction with NK1:3 to provide two-level identification of NOK and EC relationships (See IHS TABLE – RELATIONSHIP)
8	8	DT				00197	Start Date		3) "NOK"
9	8	DT				00198	End Date		4) "EC"
10	60	ST				00199	Next of Kin Job Title		not used
11	20	JCC			0327/	00200	Next of Kin Job Code/Class		not used
12	250	CX			0328	00201	Next of Kin Employee Number		not used
13	250	XON		Y		00202	Organization Name	1) Patient: 9000001, .19 [employer name] 2) Patient: 9000001, .22 [spouse's employer name]	1) name for patient's employer (relationship = "self") - ptr to Employer: 9999999.75, .01 [employer] 2) name for spouse's employer (relationship = "spouse") - ptr to Employer: 9999999.75, .01 [employer]
14	250	CE			0002		Marital Status		not used
15	1	IS			0001		Sex		not used
16	26	TS					Date of Birth		not used
17	2	ID		Y	0223		Living Dependency		not used
18	2	ID		Y	0009		Ambulatory Status		not used
19	250	CE		Y	0171		Citizenship		not used
20	250	CE			0296		Primary Language		not used
21	2	IS			0220		Living Arrangement		not used
22	250	CE			0215		Publicity Code		not used
23	1	ID			0136		Protection Indicator		not used
24	2	ID			0231		Student Indicator		not used
25	250	ID			0006		Religion		not used
26	250	XPN		Y			Mother's Maiden Name		not used
27	250	CE			0212		Nationality		not used
28	250	ID		Y	0189		Ethnic Group		not used
29	250	CE		Y	0222		Contact Reason		not used
30	250	XPN		Y			Contact Person's Name		not used
31	250	XTN		Y			Contact Person's Telephone Number		not used
32	250	XAD		Y			Contact Person's Address		not used
33	250	CX		Y			Associated Party's Identifiers		not used
34	2	IS			0311		Job Status Code	1) Patient: 9000001, .21 [employment status]	IHS set: use code and translation (relationship = "self").
35	250	CE		Y	0005		Race		not used
36	2	IS			0295		Handicap Code		not used
37	16	ST					Contact Person Social Security Number		not used

* Non-standard datatype and length for this field

13. NTE - notes and comments (2.4)

The NTE segment is a common format for sending notes and comments.

NTE attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME	IHS File Reference	IHS Notes
1	4	SI	O			00096	Set ID - Notes and Comments		
2	8	ID	O		0105	00097	Source of Comment		
3	64k	FT	O	Y		00098	Comment		
4	250	CE	O		0364	01318	Comment Type		

14. OBR - observation request (2.4) – V Measurement (9000010.01)

The OBR (Observation Request) segment is used to transmit information specific to an order for a diagnostic study or observation, physical exam, or assessment. It defines the attributes of a particular request for diagnostic services (e.g., laboratory, EKG) or clinical observations, vital signs or physical exam.

OBR attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME ¹	IHS File Reference	IHS Notes
1	4	SI	O			00237	Set ID - Observation Request		This is generated by concatenating the V File IEN^Visit Date^MSR, See IHS TABLE – FILLER ORDER NUMBER IDENTIFIER) This is generated by concatenating the 9000010.01^V MEASUREMENT^99IHS^Measurement Type^Code
2	22	EI	C			00216	Placer Order Number		
3	22	EI	C			00217	Filler Order Number +	See Notes	
4	250	CE	R			00238	Universal Service ID		
5	2	ID	X			00239	Priority		The IHS visit date/time
6	26	TS	X			00240	Requested Date/time		
7	26	TS	C			00241	Observation Date/Time #		
8	26	TS	O			00242	Observation End Date/Time #	See Notes	
9	20	CQ	O			00243	Collection Volume *		
10	250	XCN	O	Y		00244	Collector Identifier *		
11	1	ID	O		0065	00245	Specimen Action Code *		
12	250	CE	O			00246	Danger Code		
13	300	ST	C			00247	Relevant Clinical Info.		
14	26	TS	C			00248	Specimen Received Date/Time *		
15	300	CM	O		0070	00249	Specimen Source *		
16	250	XCN	O	Y		00226	Ordering Provider	See Notes	
17	250	XTN	O	Y/2		00250	Order Callback Phone Number		
18	60	ST	O			00251	Placer field 1		
19	60	ST	O			00252	Placer field 2		
20	60	ST	O			00253	Filler Field 1 +		
21	60	ST	O			00254	Filler Field 2 +		
22	26	TS	C			00255	Results Rpt/Status Chng - Date/Time +		Should be valued for a corrected report.
23	40	CM	O			00256	Charge to Practice +		
24	10	ID	C		0074	00257	Diagnostic Serv Sect ID		
25	1	ID	C		0123	00258	Result Status +		Assumed to be= "F" for final, or "C" for corrected (see OBR:22)

¹ The daggered (+) items in this segment are not created by the placer. They are created by the filler and valued as needed when the OBR segment is returned as part of a report. Hence on a new order sent to the filler, they are not valued. There is an exception when the filler initiates the order. In that case, the filler order number is valued and the placer order number may be blank.

The starred (*) fields are only relevant when an observation is associated with a specimen. These are completed by the placer when the placer obtains the specimen. They are completed by the filler when the filler obtains the specimen.

OBR-7-observation date/time and OBR-8-observation end date/time (flagged with #) are the physiologically relevant times. In the case of an observation on a specimen, they represent the start and end of the specimen collector. In the case of an observation obtained directly from a subject (eg., BP, Chest Xray), they represent the start and end time of the observation.

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME ¹	IHS File Reference	IHS Notes
26	400	CM	O			00259	Parent Result +		
27	200	TQ	O	Y		00221	Quantity/Timing		
28	250	XCN	O	Y/5		00260	Result Copies To		
29	200	CM	O		0124	00261	Parent Number +		
30	20	ID	O			00262	Transportation Mode		
31	250	CE	O	Y		00263	Reason for Study		
32	200	CM	O			00264	Principal Result Interpreter +		
33	200	CM	O	Y		00265	Assistant Result Interpreter +		
34	200	CM	O	Y		00266	Technician +		
35	200	CM	O	Y		00267	Transcriptionist +		
36	26	TS	O			00268	Scheduled Date/Time +		
37	4	NM	O			01028	Number of Sample Containers *		
38	250	CE	O	Y		01029	Transport Logistics of Collected Sample *		
39	250	CE	O	Y		01030	Collector's Comment *		
40	250	CE	O			01031	Transport Arrangement Responsibility		
41	30	ID	O		0224	01032	Transport Arranged		
42	1	ID	O		0225	01033	Escort Required		
43	250	CE	O	Y		01034	Planned Patient Transport Comment		
44	250	CE	O	Y	0088	00393	Procedure Code		
45	250	CE	O	Y	0340	01316	Procedure Code Modifier		
46	250	CE	O	Y	0411	01474	Placer Supplemental Service Information		
47	250	CE	O	Y	0411	01475	Filler Supplemental Service Information		

9000010.01, V Measurement File. Used for vital signs.

OBR:4 = 9000010.01, .01 [type] -> Measurement Type: 9999999.07, .01 [type] and .02 [description]

(See chapter 7, Appendix A, AS4- Physical exam codes- vital signs and similar extensions)

OBR:7 = 9000010.01, .03 [visit] -> Visit:9000010, .01 [visit / admit date & time]

15. OBR - observation request (2.4) – V Eye Glass (9000010.04)

The OBR (Observation Request) segment is used to transmit information specific to an order for a diagnostic study or observation, physical exam, or assessment. It defines the attributes of a particular request for diagnostic services (e.g., laboratory, EKG) or clinical observations, vital signs or physical exam.

OBR attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME ²	IHS File Reference	IHS Notes
1	4	SI	O			00237	Set ID - Observation Request		<i>This is generated by concatenating the V File IEN^Visit Date^EYE, See IHS TABLE – FILLER ORDER NUMBER IDENTIFIER)</i> <i>This is generated by concatenating the 9000010.04^V EYE GLASS^99IHS</i>
2	22	EI	C			00216	Placer Order Number		
3	22	EI	C			00217	Filler Order Number +	See Notes	
4	250	CE	R			00238	Universal Service ID		The IHS visit date/time
5	2	ID	X			00239	Priority		
6	26	TS	X			00240	Requested Date/time		See Notes
7	26	TS	C			00241	Observation Date/Time #		
8	26	TS	O			00242	Observation End Date/Time #		Should be valued for a corrected report.
9	20	CQ	O			00243	Collection Volume *		
10	250	XCN	O	Y		00244	Collector Identifier *		
11	1	ID	O		0065	00245	Specimen Action Code *		
12	250	CE	O			00246	Danger Code		
13	300	ST	C			00247	Relevant Clinical Info.		
14	26	TS	C			00248	Specimen Received Date/Time *		
15	300	CM	O		0070	00249	Specimen Source *		Assumed to be= "F" for final, or "C" for corrected (see OBR:22)
16	250	XCN	O	Y		00226	Ordering Provider	See Notes	
17	250	XTN	O	Y/2		00250	Order Callback Phone Number		Should be valued for a corrected report.
18	60	ST	O			00251	Placer field 1		
19	60	ST	O			00252	Placer field 2		
20	60	ST	O			00253	Filler Field 1 +		
21	60	ST	O			00254	Filler Field 2 +		
22	26	TS	C			00255	Results Rpt/Status Chng - Date/Time +		
23	40	CM	O			00256	Charge to Practice +		
24	10	ID	C		0074	00257	Diagnostic Serv Sect ID		
25	1	ID	C		0123	00258	Result Status +		
26	400	CM	O	Y		00259	Parent Result +		
27	200	TQ	O			00221	Quantity/Timing		

² The daggered (+) items in this segment are not created by the placer. They are created by the filler and valued as needed when the OBR segment is returned as part of a report. Hence on a new order sent to the filler, they are not valued. There is an exception when the filler initiates the order. In that case, the filler order number is valued and the placer order number may be blank.

The starred (*) fields are only relevant when an observation is associated with a specimen. These are completed by the placer when the placer obtains the specimen. They are completed by the filler when the filler obtains the specimen.

OBR-7-observation date/time and OBR-8-observation end date/time (flagged with #) are the physiologically relevant times. In the case of an observation on a specimen, they represent the start and end of the specimen collector. In the case of an observation obtained directly from a subject (eg., BP, Chest Xray), they represent the start and end time of the observation.

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME ²	IHS File Reference	IHS Notes
28	250	XCN	O	Y/5		00260	Result Copies To		
29	200	CM	O			00261	Parent Number +		
30	20	ID	O		0124	00262	Transportation Mode		
31	250	CE	O	Y		00263	Reason for Study		
32	200	CM	O			00264	Principal Result Interpreter +		
33	200	CM	O	Y		00265	Assistant Result Interpreter +		
34	200	CM	O	Y		00266	Technician +		
35	200	CM	O	Y		00267	Transcriptionist +		
36	26	TS	O			00268	Scheduled Date/Time +		
37	4	NM	O			01028	Number of Sample Containers *		
38	250	CE	O	Y		01029	Transport Logistics of Collected Sample *		
39	250	CE	O	Y		01030	Collector's Comment *		
40	250	CE	O			01031	Transport Arrangement Responsibility		
41	30	ID	O		0224	01032	Transport Arranged		
42	1	ID	O		0225	01033	Escort Required		
43	250	CE	O	Y		01034	Planned Patient Transport Comment		
44	250	CE	O	Y	0088	00393	Procedure Code		
45	250	CE	O	Y	0340	01316	Procedure Code Modifier		
46	250	CE	O	Y	0411	01474	Placer Supplemental Service Information		
47	250	CE	O	Y	0411	01475	Filler Supplemental Service Information		

9000010.04, V Eye Glass File. Used for eyeglass prescription data.

OBR:4 = 9000010.04, .01 [name] Create/locate appropriate code [file note: this entry will always be "1"]

OBR:7 = 9000010.04, .03 [visit] -> Visit:9000010, .01 [visit / admit date & time]

16. OBR - observation request (2.4) – V Lab (9000010.09)

The OBR (Observation Request) segment is used to transmit information specific to an order for a diagnostic study or observation, physical exam, or assessment. It defines the attributes of a particular request for diagnostic services (e.g., laboratory, EKG) or clinical observations, vital signs or physical exam.

OBR attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME ³	IHS File Reference	IHS Notes
1	4	SI	O			00237	Set ID - Observation Request		This is the accession number <i>This is generated by concatenating the V File IEN^Visit Date^LAB, See IHS TABLE – FILLER ORDER NUMBER IDENTIFIER)</i> <i>This is generated by concatenating the 9000010.09^V LAB^99IHS^Lab Test^LAB</i>
2	22	EI	C			00216	Placer Order Number		
3	22	EI	C			00217	Filler Order Number +	See Notes	
4	250	CE	R			00238	Universal Service ID		The IHS lab collection date/time
5	2	ID	X			00239	Priority		
6	26	TS	X			00240	Requested Date/time		
7	26	TS	C			00241	Observation Date/Time #		See Notes
8	26	TS	O			00242	Observation End Date/Time #		
9	20	CQ	O			00243	Collection Volume *		
10	250	XCN	O	Y		00244	Collector Identifier *		
11	1	ID	O		0065	00245	Specimen Action Code *		
12	250	CE	O			00246	Danger Code		
13	300	ST	C			00247	Relevant Clinical Info.		See Notes
14	26	TS	C			00248	Specimen Received Date/Time *		
15	300	CM	O			00249	Specimen Source *		
16	250	XCN	O	Y		00226	Ordering Provider		See Notes
17	250	XTN	O	Y/2		00250	Order Callback Phone Number		
18	60	ST	O			00251	Placer field 1		
19	60	ST	O			00252	Placer field 2		Should be valued for a corrected report.
20	60	ST	O			00253	Filler Field 1 +		
21	60	ST	O			00254	Filler Field 2 +		
22	26	TS	C			00255	Results Rpt/Status Chng - Date/Time +		Assumed to be= "F" for final, or "C" for corrected (see OBR:22)
23	40	CM	O			00256	Charge to Practice +		
24	10	ID	C		0074	00257	Diagnostic Serv Sect ID		
25	1	ID	C		0123	00258	Result Status +		
26	400	CM	O			00259	Parent Result +		

³ The daggered (+) items in this segment are not created by the placer. They are created by the filler and valued as needed when the OBR segment is returned as part of a report. Hence on a new order sent to the filler, they are not valued. There is an exception when the filler initiates the order. In that case, the filler order number is valued and the placer order number may be blank.

The starred (*) fields are only relevant when an observation is associated with a specimen. These are completed by the placer when the placer obtains the specimen. They are completed by the filler when the filler obtains the specimen.

OBR-7-observation date/time and OBR-8-observation end date/time (flagged with #) are the physiologically relevant times. In the case of an observation on a specimen, they represent the start and end of the specimen collector. In the case of an observation obtained directly from a subject (eg., BP, Chest Xray), they represent the start and end time of the observation.

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME ³	IHS Notes
27	200	TQ	O	Y		00221	Quantity/Timing	
28	250	XCN	O	Y/5		00260	Result Copies To	
29	200	CM	O			00261	Parent Number +	
30	20	ID	O		0124	00262	Transportation Mode	
31	250	CE	O	Y		00263	Reason for Study	
32	200	CM	O			00264	Principal Result Interpreter +	
33	200	CM	O	Y		00265	Assistant Result Interpreter +	
34	200	CM	O	Y		00266	Technician +	
35	200	CM	O	Y		00267	Transcriptionist +	
36	26	TS	O			00268	Scheduled Date/Time +	
37	4	NM	O			01028	Number of Sample Containers *	
38	250	CE	O	Y		01029	Transport Logistics of Collected Sample *	
39	250	CE	O	Y		01030	Collector's Comment *	
40	250	CE	O			01031	Transport Arrangement Responsibility	
41	30	ID	O		0224	01032	Transport Arranged	
42	1	ID	O		0225	01033	Escort Required	
43	250	CE	O	Y		01034	Planned Patient Transport Comment	
44	250	CE	O	Y	0088	00393	Procedure Code	
45	250	CE	O	Y	0340	01316	Procedure Code Modifier	
46	250	CE	O	Y	0411	01474	Placer Supplemental Service Information	
47	250	CE	O	Y	0411	01475	Filler Supplemental Service Information	

9000010.09, V Lab File.

OBR:2 = 9000010.09, 1102 [order] Construct a valid placer number by concatenating with the visit date, and the universal service identifier to create a unique long term identifier that can serve as the placer number.

OBR:4 = 9000010.09, .01 [lab test] -> Laboratory Test: 60. For the first triplet of CE, use 60, 14 -> Procedure Field: 61.5, 2 [snomed code] and .01 [name], with SNM as the code authority; for the second triplet of CE, use 60, .01 [name] and 99IHS as the code authority

OBR:8 = 9000010.09, 1201 [collection date and time]

OBR:15 = 9000010.09, 1103 [site] -> Topography Field: 61, .01 [name] - Translate into standard HL7 table for specimen source (see section 4.5.1.15)

OBR:16 = 9000010.09, 1202 [ordering provider] -> Provider:6,5 [DEA #] and .01 [name] -> Person: 16, .01 [name]

17. OBR - observation request (2.4) – V Skin Test (9000010.12)

The OBR (Observation Request) segment is used to transmit information specific to an order for a diagnostic study or observation, physical exam, or assessment. It defines the attributes of a particular request for diagnostic services (e.g., laboratory, EKG) or clinical observations, vital signs or physical exam.

OBR attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME ⁴	IHS File Reference	IHS Notes
1	4	SI	O			00237	Set ID - Observation Request		<i>This is generated by concatenating the V File IEN^Visit Date^SK. See IHS TABLE – FILLER ORDER NUMBER IDENTIFIER)</i> <i>This is generated by concatenating the 9000010.12^V SKIN TEST^99IHS^Skin Test Type^Code</i>
2	22	EI	C			00216	Placer Order Number		
3	22	EI	C			00217	Filler Order Number +	See Notes	
4	250	CE	R			00238	Universal Service ID		The IHS visit date/time
5	2	ID	X			00239	Priority		
6	26	TS	X			00240	Requested Date/time		
7	26	TS	C			00241	Observation Date/Time #	See Notes	
8	26	TS	O			00242	Observation End Date/Time #		
9	20	CQ	O			00243	Collection Volume *		
10	250	XCN	O	Y		00244	Collector Identifier *		
11	1	ID	O		0065	00245	Specimen Action Code *		
12	250	CE	O			00246	Danger Code		
13	300	ST	C			00247	Relevant Clinical Info.		
14	26	TS	C			00248	Specimen Received Date/Time *		
15	300	CM	O			00249	Specimen Source *		
16	250	XCN	O	Y		00226	Ordering Provider	See Notes	
17	250	XTN	O	Y/2		00250	Order Callback Phone Number		
18	60	ST	O			00251	Placer field 1		
19	60	ST	O			00252	Placer field 2		Should be valued for a corrected report.
20	60	ST	O			00253	Filler Field 1 +		
21	60	ST	O			00254	Filler Field 2 +		
22	26	TS	C			00255	Results Rpt/Status Chng - Date/Time +		Assumed to be= "F" for final, or "C" for corrected (see OBR:22)
23	40	CM	O			00256	Charge to Practice +		
24	10	ID	C		0074	00257	Diagnostic Serv Sect ID		
25	1	ID	C		0123	00258	Result Status +		
26	400	CM	O			00259	Parent Result +		

⁴ The daggered (+) items in this segment are not created by the placer. They are created by the filler and valued as needed when the OBR segment is returned as part of a report. Hence on a new order sent to the filler, they are not valued. There is an exception when the filler initiates the order. In that case, the filler order number is valued and the placer order number may be blank.

The starred (*) fields are only relevant when an observation is associated with a specimen. These are completed by the placer when the placer obtains the specimen. They are completed by the filler when the filler obtains the specimen.

OBR-7-observation date/time and OBR-8-observation end date/time (flagged with #) are the physiologically relevant times. In the case of an observation on a specimen, they represent the start and end of the specimen collector. In the case of an observation obtained directly from a subject (eg., BP, Chest Xray), they represent the start and end time of the observation.

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME ⁴	IHS File Reference	IHS Notes
27	200	TQ	O	Y		00221	Quantity/Timing		
28	250	XCN	O	Y/5		00260	Result Copies To		
29	200	CM	O		0124	00261	Parent Number +		
30	20	ID	O			00262	Transportation Mode		
31	250	CE	O	Y		00263	Reason for Study		
32	200	CM	O			00264	Principal Result Interpreter +		
33	200	CM	O	Y		00265	Assistant Result Interpreter +		
34	200	CM	O	Y		00266	Technician +		
35	200	CM	O	Y		00267	Transcriptionist +		
36	26	TS	O			00268	Scheduled Date/Time +		
37	4	NM	O			01028	Number of Sample Containers *		
38	250	CE	O	Y		01029	Transport Logistics of Collected Sample *		
39	250	CE	O	Y		01030	Collector's Comment *		
40	250	CE	O			01031	Transport Arrangement Responsibility		
41	30	ID	O		0224	01032	Transport Arranged		
42	1	ID	O		0225	01033	Escort Required		
43	250	CE	O	Y		01034	Planned Patient Transport Comment		
44	250	CE	O	Y	0088	00393	Procedure Code		
45	250	CE	O	Y	0340	01316	Procedure Code Modifier		
46	250	CE	O	Y	0411	01474	Placer Supplemental Service Information		
47	250	CE	O	Y	0411	01475	Filler Supplemental Service Information		

9000010.12, V Skin Test File. Used for Skin test such as TB.

OBR:4 = 9000010.12, .01 [skin test] -> Skin Test: 9999999.28, .02 [code] and .01 [name]

OBR:7 = 9000010.12, 1201 [event date and time] (when skin test was “given”)

OBR:8 = 9000010.12, .06 [date read] (when skin test was “read”)

18. OBR - observation request (2.4) – V Exam File (9000010.13)

The OBR (Observation Request) segment is used to transmit information specific to an order for a diagnostic study or observation, physical exam, or assessment. It defines the attributes of a particular request for diagnostic services (e.g., laboratory, EKG) or clinical observations, vital signs or physical exam.

OBR attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME ⁵	IHS File Reference	IHS Notes
1	4	SI	O			00237	Set ID - Observation Request		<i>This is generated by concatenating the V File IEN^Visit Date^XAM, See IHS TABLE – FILLER ORDER NUMBER IDENTIFIER)</i> <i>This is generated by concatenating the 9000010.13^V EXAM^99IHS^Exam Type^Code</i>
2	22	EI	C			00216	Placer Order Number		
3	22	EI	C			00217	Filler Order Number +	See Notes	
4	250	CE	R			00238	Universal Service ID		The IHS visit date/time
5	2	ID	X			00239	Priority		
6	26	TS	X			00240	Requested Date/time		
7	26	TS	C			00241	Observation Date/Time #		See Notes
8	26	TS	O			00242	Observation End Date/Time #		
9	20	CQ	O			00243	Collection Volume *		
10	250	XCN	O	Y		00244	Collector Identifier *		
11	1	ID	O		0065	00245	Specimen Action Code *		
12	250	CE	O			00246	Danger Code		
13	300	ST	C			00247	Relevant Clinical Info.		
14	26	TS	C			00248	Specimen Received Date/Time *		
15	300	CM	O			00249	Specimen Source *		
16	250	XCN	O	Y		00226	Ordering Provider		See Notes
17	250	XTN	O	Y/2		00250	Order Callback Phone Number		
18	60	ST	O			00251	Placer field 1		
19	60	ST	O			00252	Placer field 2		
20	60	ST	O			00253	Filler Field 1 +		
21	60	ST	O			00254	Filler Field 2 +		
22	26	TS	C			00255	Results Rpt/Status Chng - Date/Time +		Should be valued for a corrected report.
23	40	CM	O			00256	Charge to Practice +		Assumed to be= "F" for final, or "C" for corrected (see OBR:22)
24	10	ID	C		0074	00257	Diagnostic Serv Sect ID		
25	1	ID	C		0123	00258	Result Status +		
26	400	CM	O			00259	Parent Result +		

⁵ The daggered (+) items in this segment are not created by the placer. They are created by the filler and valued as needed when the OBR segment is returned as part of a report. Hence on a new order sent to the filler, they are not valued. There is an exception when the filler initiates the order. In that case, the filler order number is valued and the placer order number may be blank.

The starred (*) fields are only relevant when an observation is associated with a specimen. These are completed by the placer when the placer obtains the specimen. They are completed by the filler when the filler obtains the specimen.

OBR-7-observation date/time and OBR-8-observation end date/time (flagged with #) are the physiologically relevant times. In the case of an observation on a specimen, they represent the start and end of the specimen collector. In the case of an observation obtained directly from a subject (eg., BP, Chest Xray), they represent the start and end time of the observation.

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME ⁵	IHS File Reference	IHS Notes
27	200	TQ	O	Y		00221	Quantity/Timing		
28	250	XCN	O	Y/5		00260	Result Copies To		
29	200	CM	O		0124	00261	Parent Number +		
30	20	ID	O			00262	Transportation Mode		
31	250	CE	O	Y		00263	Reason for Study		
32	200	CM	O			00264	Principal Result Interpreter +		
33	200	CM	O	Y		00265	Assistant Result Interpreter +		
34	200	CM	O	Y		00266	Technician +		
35	200	CM	O	Y		00267	Transcriptionist +		
36	26	TS	O			00268	Scheduled Date/Time +		
37	4	NM	O			01028	Number of Sample Containers *		
38	250	CE	O	Y		01029	Transport Logistics of Collected Sample *		
39	250	CE	O	Y		01030	Collector's Comment *		
40	250	CE	O			01031	Transport Arrangement Responsibility		
41	30	ID	O		0224	01032	Transport Arranged		
42	1	ID	O		0225	01033	Escort Required		
43	250	CE	O	Y		01034	Planned Patient Transport Comment		
44	250	CE	O	Y	0088	00393	Procedure Code		
45	250	CE	O	Y	0340	01316	Procedure Code Modifier		
46	250	CE	O	Y	0411	01474	Placer Supplemental Service Information		
47	250	CE	O	Y	0411	01475	Filler Supplemental Service Information		

9000010.13, V Exam File.

OBR:4 = 9000010.13, .01 [exam] -> Exam: 9999999.15, .02 [code] and .01 [name]

OBR:7 = 9000010.13, .03 [visit] -> Visit:9000010, .01 [visit / admit date & time]

19. OBR - observation request (2.4) – V Treatment (9000010.15)

The OBR (Observation Request) segment is used to transmit information specific to an order for a diagnostic study or observation, physical exam, or assessment. It defines the attributes of a particular request for diagnostic services (e.g., laboratory, EKG) or clinical observations, vital signs or physical exam.

OBR attributes

SEQ	LEN	DT	RP/#	TBL#	ITEM #	ELEMENT NAME ⁶	IHS File Reference	IHS Notes
1	4	SI	O		00237	Set ID - Observation Request		<i>This is generated by concatenating the Visit IEN^Visit Date^TRT, See IHS TABLE – FILLER ORDER NUMBER IDENTIFIER)</i> <i>This is generated by concatenating the9000010.15^V TREATMENT^99IHS^Treatment Type^Code</i>
2	22	EI	C		00216	Placer Order Number		
3	22	EI	C		00217	Filler Order Number +	See Notes	
4	250	CE	R		00238	Universal Service ID		The IHS visit date/time
5	2	ID	X		00239	Priority		
6	26	TS	X		00240	Requested Date/time		
7	26	TS	C		00241	Observation Date/Time #		See Notes
8	26	TS	O		00242	Observation End Date/Time #		
9	20	CQ	O		00243	Collection Volume *		
10	250	XCN	O		00244	Collector Identifier *		
11	1	ID	O	0065	00245	Specimen Action Code *		
12	250	CE	O		00246	Danger Code		
13	300	ST	C		00247	Relevant Clinical Info.		
14	26	TS	C		00248	Specimen Received Date/Time *		
15	300	CM	O	0070	00249	Specimen Source *		
16	250	XCN	O		00226	Ordering Provider	See Notes	
17	250	XTN	O		00250	Order Callback Phone Number		
18	60	ST	O		00251	Placer field 1		
19	60	ST	O		00252	Placer field 2		Should be valued for a corrected report.
20	60	ST	O		00253	Filler field 1 +		
21	60	ST	O		00254	Filler field 2 +		
22	26	TS	C		00255	Results Rpt/Status Chng - Date/Time +		Assumed to be= "F" for final, or "C" for corrected (see OBR:22)
23	40	CM	O		00256	Charge to Practice +		
24	10	ID	C	0074	00257	Diagnostic Serv Sect ID		
25	1	ID	C	0123	00258	Result Status +		

⁶ The daggered (+) items in this segment are not created by the placer. They are created by the filler and valued as needed when the OBR segment is returned as part of a report. Hence on a new order sent to the filler, they are not valued. There is an exception when the filler initiates the order. In that case, the filler order number is valued and the placer order number may be blank.

The starred (*) fields are only relevant when an observation is associated with a specimen. These are completed by the placer when the placer obtains the specimen. They are completed by the filler when the filler obtains the specimen.

OBR-7-observation date/time and OBR-8-observation end date/time (flagged with #) are the physiologically relevant times. In the case of an observation on a specimen, they represent the start and end of the specimen collector. In the case of an observation obtained directly from a subject (eg., BP, Chest Xray), they represent the start and end time of the observation.

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME ⁶	IHS File Reference	IHS Notes
26	400	CM	O			00259	Parent Result +		
27	200	TQ	O	Y		00221	Quantity/Timing		
28	250	XCN	O	Y/5		00260	Result Copies To		
29	200	CM	O		0124	00261	Parent Number +		
30	20	ID	O			00262	Transportation Mode		
31	250	CE	O	Y		00263	Reason for Study		
32	200	CM	O			00264	Principal Result Interpreter +		
33	200	CM	O	Y		00265	Assistant Result Interpreter +		
34	200	CM	O	Y		00266	Technician +		
35	200	CM	O	Y		00267	Transcriptionist +		
36	26	TS	O			00268	Scheduled Date/Time +		
37	4	NM	O			01028	Number of Sample Containers *		
38	250	CE	O	Y		01029	Transport Logistics of Collected Sample *		
39	250	CE	O	Y		01030	Collector's Comment *		
40	250	CE	O			01031	Transport Arrangement Responsibility		
41	30	ID	O		0224	01032	Transport Arranged		
42	1	ID	O		0225	01033	Escort Required		
43	250	CE	O	Y		01034	Planned Patient Transport Comment		
44	250	CE	O	Y	0088	00393	Procedure Code		
45	250	CE	O	Y	0340	01316	Procedure Code Modifier		
46	250	CE	O	Y	0411	01474	Placer Supplemental Service Information		
47	250	CE	O	Y	0411	01475	Filler Supplemental Service Information		

9000010.15, V Treatment File.

OBR:4 = 9000010.15, .01 [treatment] -> Treatment: 9999999.17, .02 [code] and .01 [name]

OBR:7 = 9000010.15, .03 [visit] -> Visit:9000010, .01 [visit / admit date & time]

20. OBR - observation request (2.4) – V Patient Ed (9000010.16)

The OBR (Observation Request) segment is used to transmit information specific to an order for a diagnostic study or observation, physical exam, or assessment. It defines the attributes of a particular request for diagnostic services (e.g., laboratory, EKG) or clinical observations, vital signs or physical exam.

OBR attributes

SEQ	LEN	DT	R/O	RP/#	ITEM #	ELEMENT NAME ⁷	IHS File Reference	IHS Notes
1	4	SI	O		00237	Set ID - Observation Request		This is generated by concatenating the V File IEN^Visit Date^PED, See IHS TABLE – FILLER ORDER NUMBER IDENTIFIER) This is generated by concatenating the 9000010.16^V Patient Ed^99IHS^Education Topic^Code
2	22	EI	C		00216	Placer Order Number		
3	22	EI	C		00217	Filler Order Number +	See Notes	
4	250	CE	R		00238	Universal Service ID		The IHS visit date/time
5	2	ID	X		00239	Priority		
6	26	TS	X		00240	Requested Date/time		
7	26	TS	C		00241	Observation Date/Time #		See Notes
8	26	TS	O		00242	Observation End Date/Time #		
9	20	CQ	O		00243	Collection Volume *		
10	250	XCN	O	Y	00244	Collector Identifier *		
11	1	ID	O		00245	Specimen Action Code *		
12	250	CE	O		00246	Danger Code		
13	300	ST	C		00247	Relevant Clinical Info.		
14	26	TS	C		00248	Specimen Received Date/Time *		
15	300	CM	O		00249	Specimen Source *		
16	250	XCN	O	Y	00226	Ordering Provider		See Notes
17	250	XTN	O	Y/2	00250	Order Callback Phone Number		
18	60	ST	O		00251	Placer field 1		
19	60	ST	O		00252	Placer field 2		Should be valued for a corrected report.
20	60	ST	O		00253	Filler Field 1 +		
21	60	ST	O		00254	Filler Field 2 +		
22	26	TS	C		00255	Results Rpt/Status Chng - Date/Time +		Assumed to be= "F" for final, or "C" for corrected (see OBR:22)
23	40	CM	O		00256	Charge to Practice +		
24	10	ID	C	0074	00257	Diagnostic Serv Sect ID		
25	1	ID	C	0123	00258	Result Status +		
26	400	CM	O		00259	Parent Result +		

⁷ The daggered (+) items in this segment are not created by the placer. They are created by the filler and valued as needed when the OBR segment is returned as part of a report. Hence on a new order sent to the filler, they are not valued. There is an exception when the filler initiates the order. In that case, the filler order number is valued and the placer order number may be blank.

The starred (*) fields are only relevant when an observation is associated with a specimen. These are completed by the placer when the placer obtains the specimen. They are completed by the filler when the filler obtains the specimen.

OBR-7-observation date/time and OBR-8-observation end date/time (flagged with #) are the physiologically relevant times. In the case of an observation on a specimen, they represent the start and end of the specimen collector. In the case of an observation obtained directly from a subject (eg., BP, Chest Xray), they represent the start and end time of the observation.

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME ⁷	IHS File Reference	IHS Notes
27	200	TQ	O	Y		00221	Quantity/Timing		
28	250	XCN	O	Y/5		00260	Result Copies To		
29	200	CM	O			00261	Parent Number +		
30	20	ID	O		0124	00262	Transportation Mode		
31	250	CE	O	Y		00263	Reason for Study		
32	200	CM	O			00264	Principal Result Interpreter +		
33	200	CM	O	Y		00265	Assistant Result Interpreter +		
34	200	CM	O	Y		00266	Technician +		
35	200	CM	O	Y		00267	Transcriptionist +		
36	26	TS	O			00268	Scheduled Date/Time +		
37	4	NM	O			01028	Number of Sample Containers *		
38	250	CE	O	Y		01029	Transport Logistics of Collected Sample *		
39	250	CE	O	Y		01030	Collector's Comment *		
40	250	CE	O			01031	Transport Arrangement Responsibility		
41	30	ID	O		0224	01032	Transport Arranged		
42	1	ID	O		0225	01033	Escort Required		
43	250	CE	O	Y		01034	Planned Patient Transport Comment		
44	250	CE	O	Y	0088	00393	Procedure Code		
45	250	CE	O	Y	0340	01316	Procedure Code Modifier		
46	250	CE	O	Y	0411	01474	Placer Supplemental Service Information		
47	250	CE	O	Y	0411	01475	Filler Supplemental Service Information		

9000010.16, V Patient Ed File.

OBR:4 = 9000010.16, .01 [topic] -> Education Topics: 9999999.09, .01 [name] and 1 [mnemonic]

OBR:7 = 9000010.16, .03 [visit] -> Visit:9000010, .01 [visit / admit date & time]

21. OBR - observation request (2.4) – V Physical Therapy (9000010.17)

The OBR (Observation Request) segment is used to transmit information specific to an order for a diagnostic study or observation, physical exam, or assessment. It defines the attributes of a particular request for diagnostic services (e.g., laboratory, EKG) or clinical observations, vital signs or physical exam.

OBR attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME ⁸	IHS Notes
1	4	SI	O			00237	Set ID - Observation Request	This is generated by concatenating the V File IEN^Visit Date^PT, See IHS TABLE – FILLER ORDER NUMBER IDENTIFIER) This is generated by concatenating the 9000010.17^V PHYSICAL THERAPY^99IHS^PT Code^PT Name
2	22	EI	C			00216	Placer Order Number	
3	22	EI	C			00217	Filler Order Number +	
4	250	CE	R			00238	Universal Service ID	See Notes
5	2	ID	X			00239	Priority	The IHS visit date/time
6	26	TS	X			00240	Requested Date/time	
7	26	TS	C			00241	Observation Date/Time #	
8	26	TS	O			00242	Observation End Date/Time #	See Notes
9	20	CQ	O			00243	Collection Volume *	
10	250	XCN	O	Y		00244	Collector Identifier *	
11	1	ID	O		0065	00245	Specimen Action Code *	
12	250	CE	O			00246	Danger Code	
13	300	ST	C			00247	Relevant Clinical Info.	
14	26	TS	C			00248	Specimen Received Date/Time *	Should be valued for a corrected report.
15	300	CM	O			00249	Specimen Source *	
16	250	XCN	O	Y	0070	00226	Ordering Provider	
17	250	XTN	O	Y/2		00250	Order Callback Phone Number	See Notes
18	60	ST	O			00251	Placer field 1	
19	60	ST	O			00252	Placer field 2	
20	60	ST	O			00253	Filler Field 1 +	
21	60	ST	O			00254	Filler Field 2 +	
22	26	TS	C			00255	Results Rpt/Status Chng - Date/Time +	
23	40	CM	O			00256	Charge to Practice +	Assumed to be= "F" for final, or "C" for corrected (see OBR:22)
24	10	ID	C		0074	00257	Diagnostic Serv Sect ID	
25	1	ID	C		0123	00258	Result Status +	
26	400	CM	O			00259	Parent Result +	

⁸ The daggered (+) items in this segment are not created by the placer. They are created by the filler and valued as needed when the OBR segment is returned as part of a report. Hence on a new order sent to the filler, they are not valued. There is an exception when the filler initiates the order. In that case, the filler order number is valued and the placer order number may be blank.

The starred (*) fields are only relevant when an observation is associated with a specimen. These are completed by the placer when the placer obtains the specimen. They are completed by the filler when the filler obtains the specimen.

OBR-7-observation date/time and OBR-8-observation end date/time (flagged with #) are the physiologically relevant times. In the case of an observation on a specimen, they represent the start and end of the specimen collector. In the case of an observation obtained directly from a subject (eg., BP, Chest Xray), they represent the start and end time of the observation.

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME ^a	IHS File Reference	IHS Notes
27	200	TQ	O	Y		00221	Quantity/Timing		
28	250	XCN	O	Y/5		00260	Result Copies To		
29	200	CM	O		0124	00261	Parent Number +		
30	20	ID	O			00262	Transportation Mode		
31	250	CE	O	Y		00263	Reason for Study		
32	200	CM	O			00264	Principal Result Interpreter +		
33	200	CM	O	Y		00265	Assistant Result Interpreter +		
34	200	CM	O	Y		00266	Technician +		
35	200	CM	O	Y		00267	Transcriptionist +		
36	26	TS	O			00268	Scheduled Date/Time +		
37	4	NM	O			01028	Number of Sample Containers *		
38	250	CE	O	Y		01029	Transport Logistics of Collected Sample *		
39	250	CE	O	Y		01030	Collector's Comment *		
40	250	CE	O			01031	Transport Arrangement Responsibility		
41	30	ID	O		0224	01032	Transport Arranged		
42	1	ID	O		0225	01033	Escort Required		
43	250	CE	O	Y		01034	Planned Patient Transport Comment		
44	250	CE	O	Y	0088	00393	Procedure Code		
45	250	CE	O	Y	0340	01316	Procedure Code Modifier		
46	250	CE	O	Y	0411	01474	Placer Supplemental Service Information		
47	250	CE	O	Y	0411	01475	Filler Supplemental Service Information		

9000010.17, V Physical Therapy File.

OBR:4 = 9000010.17, .01 [code] -> Physical Therapy: 9999999.46, .02 [CPT code] and .01 [PT treatment]

OBR:7 = 9000010.17, .03 [visit] -> Visit:9000010, .01 [visit / admit date & time]

22. OBR - observation request (2.4) – V CPT (9000010.18)

The OBR (Observation Request) segment is used to transmit information specific to an order for a diagnostic study or observation, physical exam, or assessment. It defines the attributes of a particular request for diagnostic services (e.g., laboratory, EKG) or clinical observations, vital signs or physical exam.

OBR attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME	IHS File Reference	IHS Notes
1	4	SI	O			00237	Set ID - Observation Request		<i>This is generated by concatenating the V File IEN^Visit Date^CPT, See IHS TABLE – FILLER ORDER NUMBER IDENTIFIER)</i> <i>This is generated by concatenating the 9000010.18^V CPT^99IHS^CPT Code^CPT Desc</i>
2	22	EI	C			00216	Placer Order Number		
3	22	EI	C			00217	Filler Order Number +	See Notes	
4	250	CE	R			00238	Universal Service ID		The IHS visit date/time
5	2	ID	X			00239	Priority		
6	26	TS	X			00240	Requested Date/time		
7	26	TS	C			00241	Observation Date/Time #	See Notes	
8	26	TS	O			00242	Observation End Date/Time #		
9	20	CQ	O			00243	Collection Volume *		
10	250	XCN	O	Y		00244	Collector Identifier *		
11	1	ID	O		0065	00245	Specimen Action Code *		
12	250	CE	O			00246	Danger Code		
13	300	ST	C			00247	Relevant Clinical Info.		
14	26	TS	C			00248	Specimen Received Date/Time *		
15	300	CM	O			00249	Specimen Source *		
16	250	XCN	O	Y	0070	00226	Ordering Provider	See Notes	
17	250	XTN	O	Y/2		00250	Order Callback Phone Number		
18	60	ST	O			00251	Placer field 1		
19	60	ST	O			00252	Placer field 2		
20	60	ST	O			00253	Filler Field 1 +		
21	60	ST	O			00254	Filler Field 2 +		
22	26	TS	C			00255	Results Rpt/Status Chng - Date/Time +		Should be valued for a corrected report.
23	40	CM	O			00256	Charge to Practice +		Assumed to be= "F" for final, or "C" for corrected (see OBR:22)
24	10	ID	C		0074	00257	Diagnostic Serv Sect ID		
25	1	ID	C		0123	00258	Result Status +		
26	400	CM	O			00259	Parent Result +		

⁹ The daggered (+) items in this segment are not created by the placer. They are created by the filler and valued as needed when the OBR segment is returned as part of a report. Hence on a new order sent to the filler, they are not valued. There is an exception when the filler initiates the order. In that case, the filler order number is valued and the placer order number may be blank.

The starred (*) fields are only relevant when an observation is associated with a specimen. These are completed by the placer when the placer obtains the specimen. They are completed by the filler when the filler obtains the specimen.

OBR-7-observation date/time and OBR-8-observation end date/time (flagged with #) are the physiologically relevant times. In the case of an observation on a specimen, they represent the start and end of the specimen collector. In the case of an observation obtained directly from a subject (eg., BP, Chest Xray), they represent the start and end time of the observation.

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME ⁹	IHS File Reference	IHS Notes
27	200	TQ	O	Y		00221	Quantity/Timing		
28	250	XCN	O	Y/5		00260	Result Copies To		
29	200	CM	O			00261	Parent Number +		
30	20	ID	O		0124	00262	Transportation Mode		
31	250	CE	O	Y		00263	Reason for Study		
32	200	CM	O			00264	Principal Result Interpreter +		
33	200	CM	O	Y		00265	Assistant Result Interpreter +		
34	200	CM	O	Y		00266	Technician +		
35	200	CM	O	Y		00267	Transcriptionist +		
36	26	TS	O			00268	Scheduled Date/Time +		
37	4	NM	O			01028	Number of Sample Containers *		
38	250	CE	O	Y		01029	Transport Logistics of Collected Sample *		
39	250	CE	O	Y		01030	Collector's Comment *		
40	250	CE	O			01031	Transport Arrangement Responsibility		
41	30	ID	O		0224	01032	Transport Arranged		
42	1	ID	O		0225	01033	Escort Required		
43	250	CE	O	Y		01034	Planned Patient Transport Comment		
44	250	CE	O	Y	0088	00393	Procedure Code		
45	250	CE	O	Y	0340	01316	Procedure Code Modifier		
46	250	CE	O	Y	0411	01474	Placer Supplemental Service Information		
47	250	CE	O	Y	0411	01475	Filler Supplemental Service Information		

9000010.18, V CPT File.

OBR:4 = 9000010.18, .01 [CPT] -> CPT: 81, .01 [CPT code] and 2 [short name]

OBR:16 = 9000010.18, 1202 [ordering provider] -> Provider: 6, 5 [DEA#] and .01 [name] -> Person: 16, .01 [name]

23. OBR - observation request (2.4) – V Diagnostic Procedure (9000010.21)

The OBR (Observation Request) segment is used to transmit information specific to an order for a diagnostic study or observation, physical exam, or assessment. It defines the attributes of a particular request for diagnostic services (e.g., laboratory, EKG) or clinical observations, vital signs or physical exam.

OBR attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME ¹⁰	IHS File Reference	IHS Notes
1	4	SI	O			00237	Set ID - Observation Request		<i>This is generated by concatenating the V File IEN^Visit Date^DXP, See IHS TABLE – FILLER ORDER NUMBER IDENTIFIER)</i> <i>This is generated by concatenating the 9000010.21^V DIAGNOSTIC PROCEDURE^99IHS^Diagnostic Procedure^Code</i>
2	22	EI	C			00216	Placer Order Number		
3	22	EI	C			00217	Filler Order Number +	See Notes	
4	250	CE	R			00238	Universal Service ID		
5	2	ID	X			00239	Priority		The IHS visit date/time
6	26	TS	X			00240	Requested Date/time		
7	26	TS	C			00241	Observation Date/Time #		
8	26	TS	O			00242	Observation End Date/Time #		See Notes
9	20	CQ	O			00243	Collection Volume *		
10	250	XCN	O	Y		00244	Collector Identifier *		
11	1	ID	O		0065	00245	Specimen Action Code *		
12	250	CE	O			00246	Danger Code		
13	300	ST	C			00247	Relevant Clinical Info.		
14	26	TS	C			00248	Specimen Received Date/Time *		
15	300	CM	O		0070	00249	Specimen Source *		See Notes
16	250	XCN	O	Y		00226	Ordering Provider		
17	250	XTN	O	Y/2		00250	Order Callback Phone Number		
18	60	ST	O			00251	Placer field 1		
19	60	ST	O			00252	Placer field 2		
20	60	ST	O			00253	Filler Field 1 +		
21	60	ST	O			00254	Filler Field 2 +		Should be valued for a corrected report.
22	26	TS	C			00255	Results Rpt/Status Chng - Date/Time +		
23	40	CM	O			00256	Charge to Practice +		
24	10	ID	C		0074	00257	Diagnostic Serv Sect ID		Assumed to be= "F" for final, or "C" for corrected (see OBR:22)
25	1	ID	C		0123	00258	Result Status +		

¹⁰ The daggered (+) items in this segment are not created by the placer. They are created by the filler and valued as needed when the OBR segment is returned as part of a report. Hence on a new order sent to the filler, they are not valued. There is an exception when the filler initiates the order. In that case, the filler order number is valued and the placer order number may be blank.

The starred (*) fields are only relevant when an observation is associated with a specimen. These are completed by the placer when the placer obtains the specimen. They are completed by the filler when the filler obtains the specimen.

OBR-7-observation date/time and OBR-8-observation end date/time (flagged with #) are the physiologically relevant times. In the case of an observation on a specimen, they represent the start and end of the specimen collector. In the case of an observation obtained directly from a subject (eg., BP, Chest Xray), they represent the start and end time of the observation.

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME ¹⁰	IHS File Reference	IHS Notes
26	400	CM	O			00259	Parent Result +		
27	200	TQ	O	Y		00221	Quantity/Timing		
28	250	XCN	O	Y/5		00260	Result Copies To		
29	200	CM	O		0124	00261	Parent Number +		
30	20	ID	O			00262	Transportation Mode		
31	250	CE	O	Y		00263	Reason for Study		
32	200	CM	O			00264	Principal Result Interpreter +		
33	200	CM	O	Y		00265	Assistant Result Interpreter +		
34	200	CM	O	Y		00266	Technician +		
35	200	CM	O	Y		00267	Transcriptionist +		
36	26	TS	O			00268	Scheduled Date/Time +		
37	4	NM	O			01028	Number of Sample Containers *		
38	250	CE	O	Y		01029	Transport Logistics of Collected Sample *		
39	250	CE	O	Y		01030	Collector's Comment *		
40	250	CE	O			01031	Transport Arrangement Responsibility		
41	30	ID	O		0224	01032	Transport Arranged		
42	1	ID	O		0225	01033	Escort Required		
43	250	CE	O	Y		01034	Planned Patient Transport Comment		
44	250	CE	O	Y	0088	00393	Procedure Code		
45	250	CE	O	Y	0340	01316	Procedure Code Modifier		
46	250	CE	O	Y	0411	01474	Placer Supplemental Service Information		
47	250	CE	O	Y	0411	01475	Filler Supplemental Service Information		

9000010.21, V Diagnostic Procedure Result File.

OBR:4 = 9000010.21, .01 [type] -> Diagnostic Procedure Result: 9999999.68, .01 [result] (use as description - there is no corresponding code)

OBR:16 = 9000010.21, 1202 [ordering provider] -> Provider: 6, 5 [DEA#] and .01 [name] -> Person: 16, .01 [name]

24. OBR - observation request (2.4) – V Radiology (9000010.22)

The OBR (Observation Request) segment is used to transmit information specific to an order for a diagnostic study or observation, physical exam, or assessment. It defines the attributes of a particular request for diagnostic services (e.g., laboratory, EKG) or clinical observations, vital signs or physical exam.

OBR attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME	IHS File Reference	IHS Notes
1	4	SI	O			00237	Set ID - Observation Request		<i>This is generated by concatenating the V File IEN^Visit Date^RAD, See IHS TABLE – FILLER ORDER NUMBER IDENTIFIER)</i> <i>This is generated by concatenating the 9000010.22^V RADIOLOGY^99IHS^Impression^Code</i>
2	22	EI	C			00216	Placer Order Number		
3	22	EI	C			00217	Filler Order Number +	See Notes	
4	250	CE	R			00238	Universal Service ID		The IHS visit date/time
5	2	ID	X			00239	Priority		
6	26	TS	X			00240	Requested Date/time		
7	26	TS	C			00241	Observation Date/Time #		See Notes
8	26	TS	O			00242	Observation End Date/Time #		
9	20	CQ	O			00243	Collection Volume *		
10	250	XCN	O	Y	0065	00244	Collector Identifier *		
11	1	ID	O			00245	Specimen Action Code *		
12	250	CE	O			00246	Danger Code		
13	300	ST	C			00247	Relevant Clinical Info.		
14	26	TS	C			00248	Specimen Received Date/Time *		
15	300	CM	O		0070	00249	Specimen Source *		
16	250	XCN	O	Y		00226	Ordering Provider		See Notes
17	250	XTN	O	Y/2		00250	Order Callback Phone Number		
18	60	ST	O			00251	Placer field 1		
19	60	ST	O			00252	Placer field 2		
20	60	ST	O			00253	Filler Field 1 +		
21	60	ST	O			00254	Filler Field 2 +		
22	26	TS	C			00255	Results Rpt/Status Chng - Date/Time +		Should be valued for a corrected report.
23	40	CM	O			00256	Charge to Practice +		Assumed to be= "F" for final, or "C" for corrected (see OBR:22)
24	10	ID	C		0074	00257	Diagnostic Serv Sect ID		
25	1	ID	C		0123	00258	Result Status +		
26	400	CM	O			00259	Parent Result +		

¹¹ The daggered (+) items in this segment are not created by the placer. They are created by the filler and valued as needed when the OBR segment is returned as part of a report. Hence on a new order sent to the filler, they are not valued. There is an exception when the filler initiates the order. In that case, the filler order number is valued and the placer order number may be blank.

The starred (*) fields are only relevant when an observation is associated with a specimen. These are completed by the placer when the placer obtains the specimen. They are completed by the filler when the filler obtains the specimen.

OBR-7-observation date/time and OBR-8-observation end date/time (flagged with #) are the physiologically relevant times. In the case of an observation on a specimen, they represent the start and end of the specimen collector. In the case of an observation obtained directly from a subject (eg., BP, Chest Xray), they represent the start and end time of the observation.

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME ¹¹	IHS File Reference	IHS Notes
27	200	TQ	O	Y		00221	Quantity/Timing		
28	250	XCN	O	Y/5		00260	Result Copies To		
29	200	CM	O			00261	Parent Number +		
30	20	ID	O		0124	00262	Transportation Mode		
31	250	CE	O	Y		00263	Reason for Study		
32	200	CM	O			00264	Principal Result Interpreter +		
33	200	CM	O	Y		00265	Assistant Result Interpreter +		
34	200	CM	O	Y		00266	Technician +		
35	200	CM	O	Y		00267	Transcriptionist +		
36	26	TS	O			00268	Scheduled Date/Time +		
37	4	NM	O			01028	Number of Sample Containers *		
38	250	CE	O	Y		01029	Transport Logistics of Collected Sample *		
39	250	CE	O	Y		01030	Collector's Comment *		
40	250	CE	O			01031	Transport Arrangement Responsibility		
41	30	ID	O		0224	01032	Transport Arranged		
42	1	ID	O		0225	01033	Escort Required		
43	250	CE	O	Y		01034	Planned Patient Transport Comment		
44	250	CE	O	Y	0088	00393	Procedure Code		
45	250	CE	O	Y	0340	01316	Procedure Code Modifier		
46	250	CE	O	Y	0411	01474	Placer Supplemental Service Information		
47	250	CE	O	Y	0411	01475	Filler Supplemental Service Information		

9000010.22, V Radiology File.

OBR:4 = 9000010.22, .01 [radiology procedure] -> Radiology Procedures: 71, 9 [CPT code] and .01 [name]

OBR:16 = 9000010.22, 1202 [ordering provider] -> Provider: 6, 5 [DEA#] and .01 [name] -> Person: 16, .01 [name]

25. OBR - observation request (2.4) – V Health Factors (9000010.23)

The OBR (Observation Request) segment is used to transmit information specific to an order for a diagnostic study or observation, physical exam, or assessment. It defines the attributes of a particular request for diagnostic services (e.g., laboratory, EKG) or clinical observations, vital signs or physical exam.

OBR attributes

SEQ	LEN		R/O	RP/#	TBL#	ITEM #	ELEMENT NAME ¹²	IHS File Reference	IHS Notes
1	4	SI	O			00237	Set ID - Observation Request		This is generated by concatenating the V File IEN^Visit Date^HF, See IHS TABLE – FILLER ORDER NUMBER IDENTIFIER) This is generated by concatenating the 9000010.23^V HEALTH FACTORS^99IHS^Health Factor^Code
2	22	EI	C			00216	Placer Order Number		
3	22	EI	C			00217	Filler Order Number +	See Notes	
4	250	CE	R			00238	Universal Service ID		The IHS visit date/time
5	2	ID	X			00239	Priority		
6	26	TS	X			00240	Requested Date/time		
7	26	TS	C			00241	Observation Date/Time #		See Notes
8	26	TS	O			00242	Observation End Date/Time #		
9	20	CQ	O			00243	Collection Volume *		
10	250	XCN	O	Y		00244	Collector Identifier *		See Notes
11	1	ID	O		0065	00245	Specimen Action Code *		
12	250	CE	O			00246	Danger Code		
13	300	ST	C			00247	Relevant Clinical Info.		See Notes
14	26	TS	C			00248	Specimen Received Date/Time *		
15	300	CM	O			00249	Specimen Source *		
16	250	XCN	O	Y	0070	00226	Ordering Provider		See Notes
17	250	XTN	O	Y/2		00250	Order Callback Phone Number		
18	60	ST	O			00251	Placer field 1		
19	60	ST	O			00252	Placer field 2		Should be valued for a corrected report.
20	60	ST	O			00253	Filler Field 1 +		
21	60	ST	O			00254	Filler Field 2 +		
22	26	TS	C			00255	Results Rpt/Status Chng - Date/Time +		Assumed to be= "F" for final, or "C" for corrected (see OBR:22)
23	40	CM	O			00256	Charge to Practice +		
24	10	ID	C		0074	00257	Diagnostic Serv Sect ID		
25	1	ID	C		0123	00258	Result Status +		
26	400	CM	O			00259	Parent Result +		

¹² The daggered (+) items in this segment are not created by the placer. They are created by the filler and valued as needed when the OBR segment is returned as part of a report. Hence on a new order sent to the filler, they are not valued. There is an exception when the filler initiates the order. In that case, the filler order number is valued and the placer order number may be blank.

The starred (*) fields are only relevant when an observation is associated with a specimen. These are completed by the placer when the placer obtains the specimen. They are completed by the filler when the filler obtains the specimen.

OBR-7-observation date/time and OBR-8-observation end date/time (flagged with #) are the physiologically relevant times. In the case of an observation on a specimen, they represent the start and end of the specimen collector. In the case of an observation obtained directly from a subject (eg., BP, Chest Xray), they represent the start and end time of the observation.

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME ¹²	IHS File Reference	IHS Notes
27	200	TQ	O	Y		00221	Quantity/Timing		
28	250	XCN	O	Y/5		00260	Result Copies To		
29	200	CM	O		0124	00261	Parent Number +		
30	20	ID	O			00262	Transportation Mode		
31	250	CE	O	Y		00263	Reason for Study		
32	200	CM	O			00264	Principal Result Interpreter +		
33	200	CM	O	Y		00265	Assistant Result Interpreter +		
34	200	CM	O	Y		00266	Technician +		
35	200	CM	O	Y		00267	Transcriptionist +		
36	26	TS	O			00268	Scheduled Date/Time +		
37	4	NM	O			01028	Number of Sample Containers *		
38	250	CE	O	Y		01029	Transport Logistics of Collected Sample *		
39	250	CE	O	Y		01030	Collector's Comment *		
40	250	CE	O			01031	Transport Arrangement Responsibility		
41	30	ID	O		0224	01032	Transport Arranged		
42	1	ID	O		0225	01033	Escort Required		
43	250	CE	O	Y		01034	Planned Patient Transport Comment		
44	250	CE	O	Y	0088	00393	Procedure Code		
45	250	CE	O	Y	0340	01316	Procedure Code Modifier		
46	250	CE	O	Y	0411	01474	Placer Supplemental Service Information		
47	250	CE	O	Y	0411	01475	Filler Supplemental Service Information		

9000010.23, V Health Factors File.

OBR:4 = 9000010.23, .01 [health factor] -> Health Factors: 9999999.64, .02 [code] and .01 [factor]

OBR:7 = 9000010.23, .03 [visit] -> Visit:9000010, .01 [visit / admit date & time]

26. OBX - observation / result (2.4) – V Measurement (9000010.01)

The OBX segment is used to transmit a single observation or observation fragment. It represents the smallest indivisible unit of a report.

OBX attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME		IHS Notes
1	10	SI	O			00569	Set ID - Observational Simple		
2	2	ID	R		0125	00570	Value Type	See Notes	
3	250	CE	R			00571	Observation Identifier	See Notes	
4	20	ST	C			00572	Observation Sub-ID		
5	64k	*	C	Y ¹³		00573	Observation Value	See Notes	
6	250	CE	O			00574	Units	See Notes	
7	60	ST	O			00575	References Range	See Notes	
8	5	ID	O	Y/5	0078	00576	Abnormal Flags	See Notes	
9	5	NM	O			00577	Probability	See Notes	
10	2	ID	O	Y	0080	00578	Nature of Abnormal Test		
11	1	ID	O		0085	00579	Observ Result Status		
12	26	TS	R			00580	Date Last Obs Normal Values		
13	20	ST	O			00581	User Defined Access Checks		
14	26	TS	O			00582	Date/Time of the Observation	See Notes	
15	250	CE	O			00583	Producer's ID		
16	250	XCN	O	Y		00584	Responsible Observer	See Notes	
17	250	CE	O	Y		00936	Observation Method		
18	22	EI	O	Y		01479	Equipment Instance Identifier		
19	26	TS	O			01480	Date/Time of the Analysis		

9000010.01, V Measurement File. Used for vital signs.

OBX:2 = “ST”

OBX:3 = 9000010.01, .01 [type] -> Measurement Type: 9999999.07, .01 [type] and .02 [description] (use same CE value as OBR:4, since this is a single point measurement)

OBX:4 = 9000010.01, .01 [type] -> Measurement Type: 9999999.07, .01 [type]

OBX:5 = 9000010.01, .04 [value]

¹³ May repeat for CE, TX, and FT data types.

27. OBX - observation / result (2.4) – V Eye Glass (9000010.04)

The OBX segment is used to transmit a single observation or observation fragment. It represents the smallest indivisible unit of a report.

OBX attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
1	10	SI	O			00569	Set ID - Observational Simple		
2	2	ID	R		0125	00570	Value Type	See Notes	
3	250	CE	R			00571	Observation Identifier	See Notes	Varies dependant on OBX (ID, ST, NM) V Eye Field #^V Eye Field Name^99IHS
4	20	ST	C			00572	Observation Sub-ID		This is the name of the .01 field from the OBR seg
5	64k	*	C	Y ¹⁴		00573	Observation Value	See Notes	This is the observation value. See Appendix
6	250	CE	O			00574	Units	See Notes	Observation units.
7	60	ST	O			00575	References Range	See Notes	
8	5	ID	O	Y/5	0078	00576	Abnormal Flags	See Notes	
9	5	NM	O			00577	Probability	See Notes	
10	2	ID	O	Y	0080	00578	Nature of Abnormal Test		
11	1	ID	R		0085	00579	Observ Result Status		
12	26	TS	O			00580	Date Last Obs Normal Values		
13	20	ST	O			00581	User Defined Access Checks		
14	26	TS	O			00582	Date/Time of the Observation	See Notes	
15	250	CE	O			00583	Producer's ID		
16	250	XCN	O	Y		00584	Responsible Observer	See Notes	
17	250	CE	O	Y		00936	Observation Method		
18	22	EI	O	Y		01479	Equipment Instance Identifier		
19	26	TS	O			01480	Date/Time of the Analysis		

9000010.04, V Eye Glass File. Used for eyeglass prescription data.

Each file entry will require 14 OBX segments as follows:

- 1901: Reading Only
OBX:2 = "ID"
OBX:3 = "1901^READING ONLY^99IHS"
OBX:5 = 9000010.04, 1901 [reading only]: Y:YES, N:NO (HL7 Table 0136)
- 1902: DRE sphere
OBX:2 = "ST"
OBX:3 = "1902^DRE SPHERE^99IHS"

¹⁴

May repeat for CE, TX, and FT data types.

- OBX:5 = 9000010.04, 1902 [dre sphere]
- 1903: DRE cylinder
 - OBX:2 = "NM"
 - OBX:3 = "1903^DRE CYLINDER^99IHS"
 - OBX:5 = 9000010.04, 1903 [dre cylinder]
- 1904: RE axis
 - OBX:2 = "NM"
 - OBX:3 = "1904^RE AXIS^99IHS"
 - OBX:5 = 9000010.04, 1904 [re axis]
- 1905: DLE sphere
 - OBX:2 = "ST"
 - OBX:3 = "1905^DLE SPHERE^99IHS"
 - OBX:5 = 9000010.04, 1905 [dle sphere]
- 1906: DLE cylinder
 - OBX:2 = "NM"
 - OBX:3 = "1906^DLE CYLINDER^99IHS"
 - OBX:5 = 9000010.04, 1906 [dle cylinder]
- 1907: LE axis
 - OBX:2 = "NM"
 - OBX:3 = "1907^LE AXIS^99IHS"
 - OBX:5 = 9000010.04, 1907 [le axis]
- 1908: Reading Add. R.
 - OBX:2 = "NM"
 - OBX:3 = "1908^READING ADD. R.^99IHS"
 - OBX:5 = 9000010.04, 1908 [reading add. r.]
- 1909: Reading Add. L.

- OBX:2 = "NM"
- OBX:3 = "1909^READING ADD. R.^99IHS"
- OBX:5 = 9000010.04, 1909 [reading add. 1.]
- 1910: Eye Size
 - OBX:2 = "NM"
 - OBX:3 = "1910^EYE SIZE^99IHS"
 - OBX:5 = 9000010.04, 1910 [eye size]
- 1911: Bridge
 - OBX:2 = "NM"
 - OBX:3 = "1911^BRIDGE^99IHS"
 - OBX:5 = 9000010.04, 1911 [bridge]
- 1912: Temple
 - OBX:2 = "NM"
 - OBX:3 = "1912^TEMPLE^99IHS"
 - OBX:5 = 9000010.04, 1912 [temple]
- 1913: Pup. Dist. Near
 - OBX:2 = "NM"
 - OBX:3 = "1913^PUP. DIST. NEAR^99IHS"
 - OBX:5 = 9000010.04, 1913 [pup. dist. near]
- 1914: Pup. Dist. Far
 - OBX:2 = "NM"
 - OBX:3 = "1914^PUP. DIST. FAR^99IHS"
 - OBX:5 = 9000010.04, 1914 [pup. dist. far]

28. OBX - observation / result (2.4) – V Lab (9000010.09)

The OBX segment is used to transmit a single observation or observation fragment. It represents the smallest indivisible unit of a report.

OBX attributes

SEQ	LEN	DT	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
1	10	SI			00569	Set ID - Observational Simple	See Notes	"ST" Snomed Code^Snomed Name^SNM^Lab Test^99IHS Laboratory Test This is the observation value. Observation units. Reference Low and High Y/N
2	2	ID		0125	00570	Value Type	See Notes	
3	250	CE			00571	Observation Identifier	See Notes	
4	20	ST			00572	Observation Sub-ID	See Notes	
5	64k	*	Y ¹⁵		00573	Observation Value	See Notes	
6	250	CE			00574	Units	See Notes	
7	60	ST			00575	References Range	See Notes	
8	5	ID	Y/5	0078	00576	Abnormal Flags	See Notes	
9	5	NM			00577	Probability	See Notes	
10	2	ID	Y	0080	00578	Nature of Abnormal Test		
11	1	ID		0085	00579	Observ Result Status		
12	26	TS			00580	Date Last Obs Normal Values		
13	20	ST			00581	User Defined Access Checks		
14	26	TS			00582	Date/Time of the Observation	See Notes	
15	250	CE			00583	Producer's ID		
16	250	XCN	Y		00584	Responsible Observer	See Notes	
17	250	CE	Y		00936	Observation Method		
18	22	EI	Y		01479	Equipment Instance Identifier		
19	26	TS			01480	Date/Time of the Analysis		

9000010.09, V Lab File.

OBX:2 = "ST"

OBX:3 = 9000010.09, .01 [lab test] -> Laboratory Test: 60. For the first triplet of CE, use 60, 14 -> Procedure Field: 61.5, 2 [snomed code] and .01 [name], with SNM as the code authority; for the second triplet of CE, use 60, .01 [name] and 99IHS as the code authority. (Same as OBR:4 for single lab test.)

OBX:4 = Laboratory Test -> 60 -> .01

OBX:5 = 9000010.09, .04 [results]

OBX:6 = 9000010.09, 1101 [units] Translate IHS values to use standard HL7 table of units, see Ch. 7, section 7.1.4, and 7.1.4.2, and 7.3.2.6.

OBX:7 = 9000010.09, 1104 [reference low] and 1105 [reference high]

OBX:8 = 9000010.09.05 [abnormal] Use standard HL7 table for this field, see Ch. 7., 7.3.2.8

¹⁵ May repeat for CE, TX, and FT data types.

29. OBX - observation / result (2.4) – V Skin Test (9000010.12)

The OBX segment is used to transmit a single observation or observation fragment. It represents the smallest indivisible unit of a report.

OBX attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
1	10	SI	O			00569	Set ID - Observational Simple		
2	2	ID	R		0125	00570	Value Type	See Notes	Either "CE" OR "NM", dependant on field passed
3	250	CE	R			00571	Observation Identifier	See Notes	Either .04^RESULTS^99IHS or .05^READING^99IHS
4	20	ST	C			00572	Observation Sub-ID	See Notes	Skin Test
5	64k	*	C	Y ¹⁶		00573	Observation Value	See Notes	Either Results (.04) or Reading (.05)
6	250	CE	O			00574	Units	See Notes	Observation units.
7	60	ST	O			00575	References Range	See Notes	
8	5	ID	O	Y/5	0078	00576	Abnormal Flags	See Notes	
9	5	NM	O			00577	Probability		
10	2	ID	O	Y	0080	00578	Nature of Abnormal Test		
11	1	ID	R		0085	00579	Observ Result Status		
12	26	TS	O			00580	Date Last Obs Normal Values		
13	20	ST	O			00581	User Defined Access Checks		
14	26	TS	O			00582	Date/Time of the Observation	See Notes	
15	250	CE	O			00583	Producer's ID		
16	250	XCN	O	Y		00584	Responsible Observer	See Notes	
17	250	CE	O	Y		00936	Observation Method		
18	22	EI	O	Y		01479	Equipment Instance Identifier		
19	26	TS	O			01480	Date/Time of the Analysis		

9000010.12, V Skin Test File. Used for Skin test such as TB.

Each file entry will require two OBX segments as follows:

- 04: Results
OBX:2 = "CE"
OBX:3 = ".04^RESULTS^99IHS"
OBX:4 = Skin Test -> 99999999.28 -> .01
OBX:5 = 9000010.12, .04 [results]: IHS set: use code and translation
- 05: Reading
OBX:2 = "NM"
OBX:3 = ".05^READING^99IHS"

¹⁶

May repeat for CE, TX, and FT data types.

OBX:4 = Skin Test -> 9999999.28 -> .01

OBX:5 = 9000010.12, .05 [reading]

30. OBX - observation / result (2.4) – V Exam (9000010.13)

The OBX segment is used to transmit a single observation or observation fragment. It represents the smallest indivisible unit of a report.

OBX attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	IHS File Reference	IHS Notes
1	10	SI	O			Set ID - Observational Simple		
2	2	ID	R		0125	Value Type	See Notes	"CE"
3	250	CE	R			Observation Identifier	See Notes	.04^RESULTS^99IHS
4	20	ST	C			Observation Sub-ID		Exam
5	64k	*	C	Y ¹⁷		Observation Value	See Notes	Results (.04)
6	250	CE	O			Units	See Notes	Observation units.
7	60	ST	O			References Range	See Notes	
8	5	ID	O	Y/5	0078	Abnormal Flags	See Notes	
9	5	NM	O			Probability		
10	2	ID	O	Y	0080	Nature of Abnormal Test		
11	1	ID	O		0085	Observ Result Status		
12	26	TS	R			Date Last Obs Normal Values		
13	20	ST	O			User Defined Access Checks		
14	26	TS	O			Date/Time of the Observation	See Notes	
15	250	CE	O			Producer's ID		
16	250	XCN	O	Y		Responsible Observer	See Notes	
17	250	CE	O	Y		Observation Method		
18	22	EI	O	Y		Equipment Instance Identifier		
19	26	TS	O			Date/Time of the Analysis		

9000010.13, V Exam File.

OBX:2 = "CE"

OBX:3 = ".04^RESULTS^99IHS"

OBX:4 = Exam -> 9999999.15 -> .01

OBX:5 = 9000010.13, .04 [results]: IHS set: use code and translation

¹⁷ May repeat for CE, TX, and FT data types.

31. OBX - observation / result (2.4) – V Treatment (9000010.15)

The OBX segment is used to transmit a single observation or observation fragment. It represents the smallest indivisible unit of a report.

OBX attributes

SEQ	LEN		R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
1	10	SI	O			00569	Set ID - Observational Simple		
2	2	ID	R		0125	00570	Value Type	See Notes	"NM"
3	250	CE	R			00571	Observation Identifier	See Notes	.04^HOW MANY^99IHS
4	20	ST	C			00572	Observation Sub-ID		Treatment
5	64k	*	C	Y ¹⁸		00573	Observation Value	See Notes	How Many (.04)
6	250	CE	O			00574	Units	See Notes	Observation units.
7	60	ST	O			00575	References Range	See Notes	
8	5	ID	O	Y/5	0078	00576	Abnormal Flags	See Notes	
9	5	NM	O			00577	Probability	See Notes	
10	2	ID	O	Y	0080	00578	Nature of Abnormal Test		
11	1	ID	O		0085	00579	Observ Result Status		
12	26	TS	O			00580	Date Last Obs Normal Values		
13	20	ST	O			00581	User Defined Access Checks		
14	26	TS	O			00582	Date/Time of the Observation	See Notes	
15	250	CE	O			00583	Producer's ID		
16	250	XCN	O	Y		00584	Responsible Observer	See Notes	Provider DEA^Provider Name
17	250	CE	O	Y		00936	Observation Method		
18	22	EI	O	Y		01479	Equipment Instance Identifier		
19	26	TS	O			01480	Date/Time of the Analysis		

9000010.15, V Treatment File.

OBX:2 = "NM"

OBX:3 = ".04^HOW MANY^99IHS"

OBX:4 = Treatment -> 99999999.17 -> .01

OBX:5 = 9000010.15, .04 [how many]

OBX:16 = 9000010.15, .05 [provider] -> Provider: 6, 5 [DEA #] and .01 [name] -> Person: 16, .01 [name]

¹⁸ May repeat for CE, TX, and FT data types.

32. OBX - observation / result (2.4) – V Patient Ed (9000010.16)

The OBX segment is used to transmit a single observation or observation fragment. It represents the smallest indivisible unit of a report.

OBX attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
1	10	SI	O			00569	Set ID - Observational Simple		
2	2	ID	R		0125	00570	Value Type	See Notes	
3	250	CE	R			00571	Observation Identifier	See Notes	
4	20	ST	C			00572	Observation Sub-ID		
5	64k	*	C			00573	Observation Value	See Notes	
6	250	CE	O	Y ¹⁹		00574	Units	See Notes	
7	60	ST	O			00575	References Range	See Notes	
8	5	ID	O	Y/5	0078	00576	Abnormal Flags	See Notes	
9	5	NM	O			00577	Probability	See Notes	
10	2	ID	O			00578	Nature of Abnormal Test		
11	1	ID	O	Y	0080	00579	Observ Result Status		
12	26	TS	O		0085	00580	Date Last Obs Normal Values		
13	20	ST	O			00581	User Defined Access Checks		
14	26	TS	O			00582	Date/Time of the Observation	See Notes	
15	250	CE	O			00583	Producer's ID		
16	250	XCN	O	Y		00584	Responsible Observer	See Notes	
17	250	CE	O	Y		00936	Observation Method		Provider DEA^Provider Name
18	22	EI	O	Y		01479	Equipment Instance Identifier		
19	26	TS	O			01480	Date/Time of the Analysis		

9000010.16, V Patient Ed File.

OBX:2 = “CE”

OBX:3 = “.06^LEVEL OF UNDERSTANDING^99IHS”

OBX:4 = Education Topics -> 9999999.09 -> .01

OBX:5 = 9000010.16, .06 [level of understanding]: IHS set: use code and translation

OBX:16 = 9000010.16, .05 [provider] -> Provider: 6, 5 [DEA #] and .01 [name] -> Person: 16, .01 [name]

¹⁹ May repeat for CE, TX, and FT data types.

33. OBX - observation / result (2.4) – V Physical Therapy (9000010.17)

The OBX segment is used to transmit a single observation or observation fragment. It represents the smallest indivisible unit of a report.

OBX attributes

SEQ	LEN		R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
1	10	SI	O			00569	Set ID - Observational Simple		
2	2	ID	R		0125	00570	Value Type	See Notes	"NM"
3	250	CE	R			00571	Observation Identifier	See Notes	.04^Quantity^99IHS
4	20	ST	C			00572	Observation Sub-ID		Physical Therapy
5	64k	*	C	Y ²⁰		00573	Observation Value	See Notes	Quantity (.04)
6	250	CE	O			00574	Units	See Notes	Observation units.
7	60	ST	O			00575	References Range	See Notes	
8	5	ID	O	Y/5	0078	00576	Abnormal Flags	See Notes	
9	5	NM	O			00577	Probability	See Notes	
10	2	ID	O	Y	0080	00578	Nature of Abnormal Test		
11	1	ID	R		0085	00579	Observ Result Status		
12	26	TS	O			00580	Date Last Obs Normal Values		
13	20	ST	O			00581	User Defined Access Checks		
14	26	TS	O			00582	Date/Time of the Observation	See Notes	
15	250	CE	O			00583	Producer's ID		
16	250	XCN	O	Y		00584	Responsible Observer	See Notes	
17	250	CE	O	Y		00936	Observation Method		
18	22	EI	O	Y		01479	Equipment Instance Identifier		
19	26	TS	O			01480	Date/Time of the Analysis		

9000010.17, V Physical Therapy File.

OBX:2 = "NM"

OBX:3 = ".04^QUANTITY^99IHS"

OBX:4 = Physical Therapy -> 9999999.46 -> .01

OBX:5 = 9000010.17, .04 [quantity]

²⁰ May repeat for CE, TX, and FT data types.

34. OBX - observation / result (2.4) – V CPT (9000010.18)

The OBX segment is used to transmit a single observation or observation fragment. It represents the smallest indivisible unit of a report.

OBX attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
1	10	SI	O			00569	Set ID - Observational Simple		
2	2	ID	R		0125	00570	Value Type	See Notes	"NM"
3	250	CE	R			00571	Observation Identifier	See Notes	.05^UNITS^99IHS
4	20	ST	C			00572	Observation Sub-ID		CPT Code
5	64k	*	C	Y ²¹		00573	Observation Value	See Notes	Units
6	250	CE	O			00574	Units	See Notes	Observation units.
7	60	ST	O			00575	References Range	See Notes	
8	5	ID	O	Y/5	0078	00576	Abnormal Flags	See Notes	
9	5	NM	O			00577	Probability	See Notes	
10	2	ID	O	Y	0080	00578	Nature of Abnormal Test		
11	1	ID	R		0085	00579	Observ Result Status		
12	26	TS	O			00580	Date Last Obs Normal Values		
13	20	ST	O			00581	User Defined Access Checks		
14	26	TS	O			00582	Date/Time of the Observation	See Notes	
15	250	CE	O			00583	Producer's ID		
16	250	XCN	O	Y		00584	Responsible Observer	See Notes	
17	250	CE	O	Y		00936	Observation Method		
18	22	EI	O	Y		01479	Equipment Instance Identifier		
19	26	TS	O			01480	Date/Time of the Analysis		

9000010.18, V CPT File.

OBX:2 = "NM"

OBX:3 = ".05^UNITS^99IHS"

OBX:4 = CPT -> 81 -> .01

OBX:5 = 9000010.18, .05 [units]

²¹ May repeat for CE, TX, and FT data types.

35. OBX - observation / result (2.4) – V Diagnostic Procedure (9000010.21)

The OBX segment is used to transmit a single observation or observation fragment. It represents the smallest indivisible unit of a report.

OBX attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME		IHS Notes
1	10	SI	O			00569	Set ID - Observational Simple		
2	2	ID	R		0125	00570	Value Type	See Notes	"TX"
3	250	CE	R			00571	Observation Identifier	See Notes	Either .04^VALUE^99IHS or .06^PARAMS^99IHS
4	20	ST	C			00572	Observation Sub-ID		Diagnostic Procedure Result
5	64k	*	C	Y ²²		00573	Observation Value	See Notes	Either Value (.04) or Params (.06)
6	250	CE	O			00574	Units	See Notes	Observation units.
7	60	ST	O			00575	References Range	See Notes	
8	5	ID	O	Y/5	0078	00576	Abnormal Flags	See Notes	
9	5	NM	O			00577	Probability	See Notes	
10	2	ID	O	Y	0080	00578	Nature of Abnormal Test		
11	1	ID	O		0085	00579	Observ Result Status		
12	26	TS	O			00580	Date Last Obs Normal Values		
13	20	ST	O			00581	User Defined Access Checks		
14	26	TS	O			00582	Date/Time of the Observation	See Notes	Event Date/Time
15	250	CE	O			00583	Producer's ID		
16	250	XCN	O	Y		00584	Responsible Observer	See Notes	
17	250	CE	O	Y		00936	Observation Method		
18	22	EI	O	Y		01479	Equipment Instance Identifier		
19	26	TS	O			01480	Date/Time of the Analysis		

²²

May repeat for CE, TX, and FT data types.

9000010.21, V Diagnostic Procedure Result File.

Each file entry will require two OBX segments as follows:

- .04: Value
OBX:2 = “TX”
OBX:3 = “.04^VALUE^99IHS”
OBX:4 = Diagnostic Procedure Result -> 9999999.68 -> .01
OBX:5 = 9000010.21, .04 [value]
OBX:8 = 9000010.21, .05 [abnormal] Use HL7 standard table values if possible for this field
OBX:14 = 9000010.21, 1201 [event date & time]
- .06: Params
OBX:2 = “TX”
OBX:3 = “.06^PARAMS^99IHS”
OBX:4 = Diagnostic Procedure Result -> 9999999.68 -> .01
OBX:5 = 9000010.21, .06 [params]
OBX:14 = 9000010.21, 1201 [event date & time]

36. OBX - observation / result (2.4) – V Radiology (9000010.22)

The OBX segment is used to transmit a single observation or observation fragment. It represents the smallest indivisible unit of a report.

OBX attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
1	10	SI	O			00569	Set ID - Observational Simple		
2	2	ID	R		0125	00570	Value Type	See Notes	"TX"
3	250	CE	R			00571	Observation Identifier	See Notes	1101^IMPRESSION^99IHS
4	20	ST	C			00572	Observation Sub-ID		Radiology Procedure
5	64k	*	C	Y ²³		00573	Observation Value	See Notes	Impression (1101)
6	250	CE	O			00574	Units	See Notes	Observation units.
7	60	ST	O			00575	References Range	See Notes	
8	5	ID	O	Y/5	0078	00576	Abnormal Flags	See Notes	Diagnostic Code (.05)
9	5	NM	O			00577	Probability		
10	2	ID	O	Y	0080	00578	Nature of Abnormal Test		
11	1	ID	O		0085	00579	Observ Result Status		
12	26	TS	O			00580	Date Last Obs Normal Values		
13	20	ST	O			00581	User Defined Access Checks		
14	26	TS	O			00582	Date/Time of the Observation	See Notes	Event Date/Time (1201)
15	250	CE	O			00583	Producer's ID		
16	250	XCN	O	Y		00584	Responsible Observer	See Notes	
17	250	CE	O	Y		00936	Observation Method		
18	22	EI	O	Y		01479	Equipment Instance Identifier		
19	26	TS	O			01480	Date/Time of the Analysis		

9000010.22, V Radiology File.

OBX:2 = "TX"

OBX:3 = "1101^IMPRESSION^99IHS"

OBX:4 = Radiology Procedure -> 71 -> .01

OBX:5 = 9000010.22, 1101 [impression]

OBX:8 = 9000010.22, .05 [diagnostic code] Use HL7 standard table values if possible for this field

OBX:14 = 9000010.22, 1201 [event date & time]

²³ May repeat for CE, TX, and FT data types.

37. OBX - observation / result (2.4) – V Health Factors (9000010.23)

The OBX segment is used to transmit a single observation or observation fragment. It represents the smallest indivisible unit of a report.

OBX attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
1	10	SI	O			00569	Set ID - Observational Simple		
2	2	ID	R		0125	00570	Value Type	See Notes	Either "TX" or "NM"
3	250	CE	R			00571	Observation Identifier	See Notes	Either .04^LEVEL/SEVERITY^99IHS or .06^QUANTITY^99IHS
4	20	ST	C			00572	Observation Sub-ID	See Notes	Health Factors (.01)
5	64k	*	C	Y ²⁴		00573	Observation Value	See Notes	Either Level/Severity (.04) or Quantity (.06)
6	250	CE	O			00574	Units	See Notes	Observation units.
7	60	ST	O			00575	References Range	See Notes	
8	5	ID	O	Y/5	0078	00576	Abnormal Flags	See Notes	
9	5	NM	O			00577	Probability	See Notes	
10	2	ID	O	Y	0080	00578	Nature of Abnormal Test		
11	1	ID	R		0085	00579	Observ Result Status		
12	26	TS	O			00580	Date Last Obs Normal Values		
13	20	ST	O			00581	User Defined Access Checks		
14	26	TS	O			00582	Date/Time of the Observation	See Notes	
15	250	CE	O			00583	Producer's ID	See Notes	
16	250	XCN	O	Y		00584	Responsible Observer		
17	250	CE	O	Y		00936	Observation Method		
18	22	EI	O	Y		01479	Equipment Instance Identifier		
19	26	TS	O			01480	Date/Time of the Analysis		

9000010.23, V Health Factors File.

Each file entry will require two OBX segments as follows:

- .04: Level/Severity
OBX:2 = "TX"
- OBX:3 = ".04^LEVEL / SEVERITY^99IHS"
- OBX:4 = Health Factors -> 9999999.64 -> .01
- OBX:5 = 9000010.23, .04 [level / severity]: IHS set: use code and translation
- .06: Quantity
OBX:2 = "NM"
- OBX:3 = ".06^QUANTITY^99IHS"

OBX:4 = Health Factors -> 9999999.64 -> .01

OBX:5 = 9000010.23, .06 [quantity]

38. ORC - common order (2.4)

The ORC (Common Order) segment is used to transmit fields that are common to all orders (all types of services that are requested).
If details are needed for a particular type of order (e.g., Pharmacy), the ORC must precede any order detail segment (e.g., RXD).

ORC attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
1	2	ID	R		0119	00215	Order Control		"NW" for RDS normal message, "DC" if RDS discontinue message (see ORC:15)
2	22	EI	C			00216	Placer Order Number		This will be the same format as the OBR filler order number
3	22	EI	C			00217	Filler Order Number		
4	22	EI	O			00218	Placer Group Number		
5	2	ID	O		0038	00219	Order Status		
6	1	ID	O		0121	00220	Response Flag		
7	200	TQ	O	Y		00221	Quantity/Timing	See Notes	
8	200	CM	O			00222	Parent		
9	26	TS	O			00223	Date/Time of Transaction		
10	250	XCN	O	Y		00224	Entered By		
11	250	XCN	O	Y		00225	Verified By		
12	250	XCN	O	Y		00226	Ordering Provider	See Notes	
13	80	PL	O			00227	Enterer's Location		
14	40	XTN	O	Y/2		00228	Call Back Phone Number		
15	26	TS	O			00229	Order Effective Date/Time		
16	250	CE	O			00230	Order Control Code Reason	See Notes	See Also ORC:1
17	250	CE	O			00231	Entering Organization		
18	250	CE	O			00232	Entering Device		
19	250	XCN	O			00233	Action By		
20	250	CE	O		0339	01310	Advanced Beneficiary Notice		
21	250	XON	O	Y		01311	Ordering Facility Name		
22	250	XAD	O	Y		01312	Ordering Facility Address		
23	250	XTN	O	Y		01313	Ordering Facility Phone Number		
24	250	XAD	O	Y		01314	Ordering Provider Address		
25	250	CWE	O	N		01473	Order Status Modifier		

9000010.14, V Medication File.

For each data point in the file, we will use the following values from the ORC segment.

- 9000010.14, .05: SIG
ORC:7 -- Use 2nd component, Interval, for SIG or 8th component for "free text" version of SIG, depending on which is most appropriate.
- 9000010.06: Quantity
ORC:7 -- Use first component for quantity
- 9000010.14, .07: Days Prescribed
ORC:7 -- Use third component, duration, for days prescribed
- 9000010.14, 1202: Ordering Provider
ORC:12 -- 9000010.04, 1202, Ordering Provider -> Provider: 6,5 [DEA#], and .01 [name] -> Person: 16, .01 [name]
- 9000010.14, .08: Date Discontinued
ORC:15 -- Order Effective Date /Time -- use only with order control code of DC, i.e., if medication has been discontinued

39. PD1 - patient demographic (2.4)

The patient demographic segment contains demographic information that is likely to change about the patient.

PD1 attributes

SEQ	LEN		R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
1	2	IS	O	Y	0223	00755	Living Dependency	Patient: 90000001, .14 [designated provider]	not used
2	2	IS	O		0220	00742	Living Arrangement		not used
3	250	XON	O	Y		00756	Patient Primary Facility		not used
4	250	XCN	O	Y		00757	Patient Primary Care Provider		ptr to Provider: 6, 5 [DEA #] and .01 [name] ->
5	2	IS	O		0231	00745	Name & ID No.		Person: 16, .01 [name]
6	2	IS	O		0295	00753	Student Indicator		not used
7	2	IS	O		0315	00759	Handicap		not used
8	2	IS	O		0316	00760	Living Will		not used
9	1	ID	O		0136	00761	Organ Donor		not used
10	250	CX	O	Y		00762	Separate Bill		not used
11	250	CE	O		0215	00763	Duplicate Patient		not used
12	1	ID	O		0136	00744	Publicity Code		not used
13	8	DT	O			01566	Protection Indicator		not used
14	250	XON	O	Y		01567	Protection Indicator Effective Date		
15	250	CE	O	Y	0435	01548	Place of Worship		
16	1	IS	O		0441	01569	Advance Directive Code		
17	8	DT	O			01570	Immunization Registry Status		
18	8	DT	O			01571	Immunization Registry Status Effective Date		
19	5	IS	O		0140	01572	Publicity Code Effective Date		
20	2	IS	O		0141	00486	Military Branch		
21	3	IS	O		0142	00487	Military Rank/Grade		
							Military Status		

40. PID - patient identification (2.4)

The PID segment is used by all applications as the primary means of communicating patient identification information. This segment contains permanent patient identifying and demographic information that, for the most part, is not likely to change frequently.

PID attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
1	4	SI				00104	Set ID - Patient ID	ASUFAC and Sending Facility	not used
2	20	CX	B			00105	Patient ID (External ID)	HRCN	not used
3	250	CX	R	Y		00106	Patient ID (Internal ID)		ASUFAC_HRCN^domain^DNS
4	20	CX	B	Y		00107	Alternate Patient ID	All other HRCNS	ASUFAC_HRCN^domain^DNS^rep
5	250	XPN	R	Y		00108	Patient Name	VA Patient: 2, .01 [name]	Note that in HL7 this is just a string datatype (not complete PN datatype).
6	250	XPN		Y		00109	Mother's Maiden Name	VA Patient: 2, .2403 [mother's maiden name]	Convert to HL7 date format
7	26	TS				00110	Date of Birth	VA Patient: 2, .03 [dob]	Convert IHS to standard HL7 values for this table
8	1	IS			0001	00111	Administrative Sex	VA Patient: 2, .02 [sex]	
9	250	XPN		Y		00112	Patient Alias	Patient: 9000001, 4601.2 [other name]	
10	250	CE		Y	0005	00113	Race	VA Patient: 2, .111, .112, .113 [mailing add.-street]	not used
11	250	XAD		Y		00114	Patient Address	.114 [mailing add.-city] .115 [mailing add.-state] .116 [mailing add.-zip]	
12	4	IS	B		0289	00115	County Code	VA Patient: 2, .117	0
13	250	XTN		Y		00116	Phone Number - Home	VA Patient: 2, .131 [home phone]	not used
14	250	XTN		Y		00117	Phone Number - Business	VA Patient: 2, .132 [office phone]	not used
15	250	CE			0296	00118	Language - Patient		not used: see ZP1:13
16	250	CE			0002	00119	Marital Status		not used
17	250	CE			0006	00120	Religion	VA Patient: 2, .08 [religion]	not used
18	250	CX				00121	Patient Account Number		Y: YES, N: NO (use HL7 yes/no table #0136)
19	16	ST	B			00122	SSN Number - Patient	VA Patient: 2, .09 [ssn]	not used
20	25	DLN		Y		00123	Driver's Lic Num - Patient		not used
21	250	CX		Y		00124	Mother's Identifier		not used
22	250	CE		Y	0189	00125	Ethnic Group		not used: see ZP1:13
23	250	ST				00126	Birth Place		not used
24	1	ID			0136	00127	Multiple Birth Indicator		not used
25	2	NM		Y	0171	00128	Birth Order	VA Patient: 2, 1901 [veteran (y/n)?]	not used
26	250	CE			0172	00129	Citizenship		Y: YES, N: NO (use HL7 yes/no table #0136)
27	250	CE				00130	Veterans Military Status		not used
28	250	CE			0212	00739	Nationality Code		not used
29	26	TS				00740	Patient Death Date and Time	Patient: 9000001, 1113.2 [date of death]	Note: in HL7 this is a timestamp datatype, rather than a simple date. If this field is valued, it implies that the next field is set = "Y"
30	1	ID			0136	00741	Patient Death Indicator		See note to previous field.
31	1	ID			0136	01535	Identity Unknown Indicator		
32	20	IS		Y	0445	01536	Identity Reliability Code		
33	26	TS				01537	Last Update/Time		

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
34	40	HD				01538	Last Update Facility		
35	250	CE			0446	01539	Species Code		
36	250	CE			0447	01540	Breed Code		
37	80	ST				01541	Strain		
38	250	CE			0429	01542	Production Class Code		

* Non-standard Datatype for this field

41. PR1 – procedures (2.4)

The PR1 segment contains information relative to various types of procedures that can be performed on a patient. For example: Surgical, Nuclear Medicine, X-Ray with contrast, etc. The PR1 segment is used to send multiple procedures, for example, for medical records encoding or for billing systems.

In the IHS implementation, each PR1 is followed by one ZPR.

PR1 attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS Notes
1	4	SI	R			00391	Set ID - Procedure	ptr to CPT: 81, .01 [cpt code] and 3 [short name]
2	3	IS	R		0089	00392	Procedure Coding Method	ptr to ADA Code: 9999999.31, .01 [code] and .02 [description]
3	250	CE	R		0088	00393	Procedure Code	ptr to ICD Operation / Procedure: 80.1, .01 [code number] and 4 [operation/procedure]: all fields referenced to V Procedure file below (PR1, ZPR) refer to this procedure.
4	40	ST	B			00394	Procedure Description	
5	26	TS	R			00395	Procedure Date/Time	V Procedure: 9000010.08, .06 [procedure date]
6	2	IS	R		0230	00396	Procedure Functional Type	
7	4	NM	O			00397	Procedure Minutes	
8	250	XCN	B	Y	0010	00398	Anesthesiologist	V Procedure: 9000010.08, .12 [anesthesiologist]
9	2	IS	O		0019	00399	Anesthesia Code	ptr to Provider: 6, 5 [DEA #] and .01 [name] -> Person: 16, .01 [name]
10	4	NM	O			00400	Anesthesia Minutes	anesthesia time for this surgical procedure
11	250	XCN	B	Y	0010	00401	Surgeon	Use if V Provider File, 9000010.06.05="O". For this surgical procedure ptr to Provider: 6, 5 [DEA #] and .01 [name] -> Person: 16, .01 [name] What are conditions in V Provider File, fileds .04 and .05 for use of this field?
12	250	XCN	B	Y	0010	00402	Procedure Practitioner	Translate IHS set values to HL7 set values. ptr to ICD Diagnosis: 80, .01 [code number] and 3 [diagnosis]
13	250	CE	O		0059	00403	Consent Code	
14	2	NM	O			00404	Procedure Priority	
15	250	CE	O		0051	00772	Associated Diagnosis Code	V Procedure: 9000010.08, .07 [principle procedure] V Procedure: 9000010.08, .05 [diagnosis]
16	250	CE	O	Y	0340	01316	Procedure Code Modifier	
17	20	IS	O		0416	01501	Procedure DRG Type	
18	250	CE	O	Y	0417	01502	Tissue Type Code	

42. PV1 - patient visit (2.4)

The PV1 segment is used by Registration/ADT applications to communicate information on a visit-specific basis. This segment can be used to send multiple-visit statistic records to the same patient account, or single-visit records to more than one account. Individual sites must determine the use for this segment.

In the IHS implementation, each PV1 segment by one ZV1 segment.

PV1 attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
1 2 3	4 1 80	SI IS PL	O R O		0004	00131 00132 00133	Set ID – Patient Visit Patient Class Assigned Patient Location	Visit: 9000010, .06 [loc. of encounter] .08 [clinic stop]	not used ptr to Clinic Stop: 40.7, .01 [name] ptr to Location: 999999.06, .01 [name]-> Institution: 4, .01 [name] if PCC or ptr to Ward^Room/Bed (.06^ .07) of 405 if ADT 2.3.1 PL datatype supports both inpatient and outpatient location file entries. Location^Clinic (Ward for Inpatient)
4	2	IS	O		0007	00134	Admission Type	V Hosp.: 9000010.02, .07 [admission type]	ptr to Admission Type: 405.1, 999999.01 [IHS code] and .01 [name] if PCC
5 6 7	250 80 250	CX PL XCN	O O O	Y	0010	00135 00136 00137	Preadmit Number Prior Patient Location Attending Doctor	V Provider: 9000010.06, .01 [provider]	or ptr to Type of Movement (.04) of 405 if ADT Not used Ward^Room^Bed before transfer ptr to Provider: 6, 5 [DEA #] and .01 [name] -> Person: 16, .01 [name] V Provider: 9000010.06, .04="P", 9000010.06, .05="A" if PCC
8 9	250 250	XCN XCN	O B	Y Y	0010 0010	00138 00139	Referring Doctor Consulting Doctor	V Provider: 9000010.06, .01 [provider]	Or ptr to Attending Physician (.19) of 405 if ADT Note: may be non-physician provider. not used ptr to Provider: 6, 5 [DEA #] and .01 [name] -> Person: 16, .01 [name] V Provider: 9000010.06, .04="S" V Provider: 9000010.06, .05="A" or "O" Note: may be non-physician providers; repeating field may carry all three values.

* For incoming transactions, a value in the PV1:7 field (Attending Doctor) will be placed in the .01 field and will cause a computed value of "P" to be placed in the .04 field and a computed value of "A" to be placed in the .05 field. A value in the PV1:9 field (Consulting Doctor) will be placed in the .01 field and will cause a computed value of "S" to be placed in the .04 field; the .05 field will be left blank.

For outgoing transactions, a value of "P" in the .04 field and a value of "A" in the .05 field will cause the .01 field (Provider) to be placed in the PV1:7 field. Any other combination of values in the .04 and .05 fields will cause the .01 field to be placed in the PV1:9 field.

The V Provider file does not distinguish between physicians and other types of providers (RNs, pharmacists, etc). Therefore, the provider in any given instance may or may not be a physician.

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
10	3	IS	O		0069	00140	Hospital Service	Visit: 9000010, .07 [service category]	IHS set: use code and translation (See IHS TABLE – SERVICE CATEGORY)
11	80	PL	O			00141	Temporary Location		not used
12	2	IS	O		0087	00142	Preadmit Test Indicator		not used
13	2	IS	O		0092	00143	Readmission Indicator		not used
14	6	IS	O		0023	00144	Admit Source		not used
15	2	IS	O	Y	0009	00145	Ambulatory Status		not used
16	2	IS	O		0099	00146	VIP Indicator		not used
17	250	XCN	O	Y	0010	00147	Admitting Doctor		Ptr to Admitting Physician (.08) of 405 for ADT
18	2	IS	O		0018	00148	Patient Type		not used
19	250	CX	O			00149	Visit Number		Contains the visit IEN
20	50	FC	O	Y	0064	00150	Financial Class	Visit: 9000010, .03 [type]	IHS set: use code and translation in first component
21	2	IS	O		0032	00151	Charge Price Indicator		(See IHS TABLE – VISIT TYPE)
22	2	IS	O		0045	00152	Courtesy Code		not used
23	2	IS	O		0046	00153	Credit Rating		not used
24	2	IS	O	Y	0044	00154	Contract Code		not used
25	8	DT	O	Y		00155	Contract Effective Date		not used
26	12	NM	O	Y		00156	Contract Amount		not used
27	3	NM	O	Y		00157	Contract Period		not used
28	2	IS	O		0073	00158	Interest Code		not used
29	1	IS	O		0110	00159	Transfer to Bad Debt Code		not used
30	8	DT	O			00160	Transfer to Bad Debt Date		not used
31	10	IS	O		0021	00161	Bad Debt Agency Code		not used
32	12	NM	O			00162	Bad Debt Transfer Amount		not used
33	12	NM	O			00163	Bad Debt Recovery Amount		not used
34	1	IS	O		0111	00164	Delete Account Indicator		not used
35	8	DT	O		0112	00165	Delete Account Date		not used
36	3	IS	O			00166	Discharge Disposition	V Hosp.: 9000010.02, .06 [discharge type] V Hosp.: 9000010.02, .09 [transferred to]	not used
37	25	CM	O		0113	00167	Discharged to Location		ptr to Discharge Type: 405.1, 9999999.01 [IHS code] and .01 [name] variable ptr: Institution: 4, .01 [name] or Vendor: 999999.11, .01 [name] Since IHS uses possibility of 2 tables here, could "promote" data type from CM to CE or PL so that codes will not overlap (only needed if code+name needs to be transmitted). [Requires minor site-defined negotiation.]
38	250	CE	O		0114	00168	Diet Type		not used
39	2	IS	O		0115	00169	Servicing Facility		not used
40	1	IS	B		0116	00170	Bed Status		not used
41	2	IS	O		0117	00171	Account Status		not used
42	80	PL	O			00172	Pending Location		not used
43	80	PL	O			00173	Prior Temporary Location		not used
44	26	TS	O			00174	Admit Date/Time	Visit: 9000010, .01 [visit / admit date & time]	Use for inpatient stay or appointment start date/time.
45	26	TS	O			00175	Discharge Date/Time	Visit: 9000010, .18 [check out date & time] or V. Hosp.: 9000010.02, .01 [date of discharge]	Use for inpatient stay or appointment end date/time. For discharge date, time may be included (see HL7 TS datatype)
46	12	NM	O			00176	Current Patient Balance		not used
47	12	NM	O			00177	Total Charges		not used

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
48	12	NM	O			00178	Total Adjustments		not used
49	12	NM	O			00179	Total Payments		not used
50	250	CX	O		0203	00180	Alternate Visit ID		not used
51	1	IS	O		0326	01226	Visit Indicator		
52	250	XCN	B	Y	0010	01224	Other Healthcare Provider		

Non-standard data type for this sequence number.

43. QAK – Query Acknowledgement (QAK) (2.4)

The QAK segment is used to send information with responses to a query.

QAK attributes

	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME	IHS File Reference	IHS Notes
1	32	ST	C			00696	Query Tag		
2	2	ID	O		0208	00708	Query Response Status		
3	250	CE	O			01375	Message Query Name		
4	10	NM	O			01434	Hit Count		
5	10	NM	O			01622	This Payload		
6	10	NM	O			01623	Hits Remaining		

44. QRD – Query Definition (2.4)

The QRD segment is used to define a query. See CDC Specification for detailed information on IHS use for immunizations.

QRD attributes

SEQ	LEN	DT	RP/#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
1	26	TS		00025	Query Date/Time		Same as MSH Date/Time
2	1	ID		00026	Query Format Code		
3	1	ID		00027	Query Priority		
4	10	ST		00028	Query ID		
5	1	ID		00029	Deferred Response Type		
6	26	TS		00030	Deferred Response Date/Time		
7	10	CQ		00031	Quantity Limited Request		
8	250	XCN	Y	00032	Who Subject Filter		
9	250	CE	Y	00033	What Subject Filter		
10	250	CE	Y	00034	What Department Data Code		
11	20	CM		00035	What Data Code Value Qual		
12	1	ID		00036	Query Results Level		

45. QRF – Query Filter (2.4)

The QRF segment is used with the QRD segment to further refine the query.

QRF attributes

SEQ	LEN		R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	
1	20	ST	R	Y		00037	Where Subject Filter		
2	26	TS	O			00038	When Data Start Date/Time		
3	26	TS	O			00039	When Data End Date/Time		
4	60	ST	O	Y		00040	What User Qualifier		
5	60	ST	O	Y		00041	Other QRY Subject Filter		
6	12	ID	O	Y	0156	00042	Which Date/Time Qualifier		
7	12	ID	O	Y	0157	00043	Which Date/Time Status Qual		
8	12	ID	O	Y	0158	00044	Date/Time Selection Qualifier		
9	60	TQ	O			00694	When Quantity/Timing Qualifier		
10	10	NM	O			01442	Search Confidence Threshold		See CDC Specification for Immunization Message Details.

46. RXA - pharmacy / treatment administration (2.4)

The RXA carries the administration data for a pharmacy administration message. The accompanying ORC must have the filler order number and the order control code RE.

Note: use HL7 2.3.1 chapter 4, appendix 4B for definition of administration messages (unsolicited and queries). Use this document for segment and field specifications for the RXA segment.

In the IHS implementation, each RXA segment is followed by one ZRA segment.

RXA attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME	IHS File Reference	IHS Notes
1	4	NM	R			00342	Give Sub-ID Counter	V Immunization: 9000010.11, .03 [visit]	ptr to Visit: 9000010, .01 [visit / admit date & time]
2	4	NM	R			00344	Administration Sub-ID Counter		
3	26	TS	R			00345	Date/Time Start of Administration		
4	26	TS	R			00346	Date/Time End of Administration	V Immunization: 9000010.11, .01 [immunization]	ptr to Immunization: 9999999.14, .03 [code] and .01 [name] ^CVX
5	250	CE	R		0292	00347	Administered Code		
6	20	NM	R			00348	Administered Amount		
7	250	CE	C			00349	Administered Units	V Immunization: 9000010.11, .05 [lot]	ptr to Immunization Lot: 9999999.41, .01 [lot number]
8	250	CE	O			00350	Administered Dosage Form		
9	250	CE	C	Y		00351	Administration Notes		
10	250	XCN	O	Y		00352	Administering Provider		
11	200	CM	C			00353	Administered-at Location		
12	20	ST	C			00354	Administered Per (Time Unit)		
13	20	NM	O			01134	Administered Strength		
14	250	CE	O			01135	Administered Strength Units		
15	20	ST	O	Y		01129	Substance Lot Number		
16	26	TS	O	Y		01130	Substance Expiration Date		
17	250	CE	O	Y	0227	01131	Substance Manufacturer Name		
18	250	CE	O	Y		01136	Substance Refusal Reason	indirect from V Immunization through Immunization Lot to IMM Manufacturer: 9999999.04, .01 [name]	
19	250	CE	O	Y		01123	Indication		
20	2	ID	O		0322	01223	Completion Status		
21	2	ID	O		0323	01224	Action Code		

47. RXD - pharmacy / treatment dispense (2.4)

The RXD segment carries the dispense data for a given issuance of medication; thus it may describe a single dose, a half-day dose, a daily dose, a refill of a prescription, etc. The RXD is not a complete record of an order. It is a record from the pharmacy or treatment supplier to the Nursing (or other) application with drug/treatment dispense and administration instructions.

The accompanying ORC must have the filler order number and the order control code NW, RP, or DC.

RXD attributes

SEQ	LEN	DT	R/O	TBL#	ITEM #	ELEMENT NAME	IHS File Reference	IHS Notes
1	4	NM	R		00334	Dispense Sub-ID Counter	V Medication: 9000010.14, .01 [medication] .04 [name of non-table drug] V Medication: 9000010.14, 1201 [event date and time] V Medication: 9000010.14, .06 [quantity]	(1st triplet) ptr to Drug: 50, .01 [generic name] (2nd triplet)*Non Drug Name*99IHS for dispense/fill date/time Duplicates value from first subcomponent of first component of quantity/timing field of ORC.
2	250	CE	R		00335	Dispense/Give Code		
3	26	TS	R		00336	Date/Time Dispensed		
4	20	NM	R		00337	Actual Dispense Amount		
5	250	CE	C		00338	Actual Dispense Units		
6	250	CE	O		00339	Actual Dosage Form		
7	20	ST	R		00325	Prescription Number		
8	20	NM	C		00326	Number of Refills Remaining		
9	200	ST	O	Y	00340	Dispense Notes		
10	200	XCN	O	Y	00341	Dispensing Provider		
11	1	ID	O	0167	00342	Substitution Status		
12	10	CQ	O		00328	Total Daily Dose		
13	200	CM	C		00299	Dispense-to Location		
14	1	ID	O	0136	00307	Needs Human Review		
15	250	CE	O	Y	00330	Pharmacy/Treatment Supplier Special Dispensing Instructions		
16	20	NM	O		01132	Actual Strength		
17	250	CE	O		01133	Actual Strength Unit		
18	20	ST	O	Y	01129	Substance Lot Number		
19	26	TS	O	Y	01130	Substance Expiration Date		
20	250	CE	O	Y	01131	Substance Manufacturer Name		
21	250	CE	O	Y	01123	Indication		
22	20	NM	O		01220	Dispense Package Size		
23	250	CE	O		01221	Dispense Package Size Unit		
24	2	ID	O		01222	Dispense Package Method		
25	250	CE	O	Y	01476	Supplementary Code		
26	250	CE	O		01477	Initiating Location		
27	250	CE	O		01478	Packaging/Assembly Location		

48. RXR – pharmacy/treatment route (2.4)

The Pharmacy/Treatment route segment contains the alternative combination of route, site, administration device, and administration method that are prescribed.

RXR attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	ELEMENT NAME	IHS File Reference	IHS Notes
1	250	CE	R		0162	00309	Route		
2	250	CE	O		0163	00310	Site		
3	250	CE	O		0164	00311	Administration Device		
4	250	CE	O		0165	00312	Administration Method		
5	250	CE	O			01315	Routing Instruction		

49. ZDX - IHS diagnosis extension (2.4)

The ZDX segment is used by IHS to transmit additional diagnosis information that is not contained in any HL7-standard segment. The ZDX is used in conjunction with the DG1; with each DG1 followed by one ZDX.

ZDX attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
1	80	ST	R				Provider Narrative	V POV: 9000010.07, .04	ptr to Provider Narrative: 9999999.27, .01 [narrative]
2	1	NM	O				Stage	V POV: 9000010.07, .05	IHS set: use code and translation
3	60	CE	O				Modifier	V POV: 9000010.07, .06	IHS set: use code and translation
4	60	CE	O				Cause of DX	V POV: 9000010.07, .07	IHS set: use code and translation
5	60	CE	O				First/Revisit	V POV: 9000010.07, .08	ptr to ICD Diagnosis: 80, .01 [code number] and 3
6	80	CE	O				Cause of Injury	V POV: 9000010.07, .09	[diagnosis] If this field is related to the POV DX in the DG1 segment it needs to be here. If unrelated, it can be part of the DG1 segment (with a new DX type).

50. ZFD – IHS Drug File Update (2.4)

The ZFD segment is used by IHS to transmit via a Master File Notification, information about a drug that has been updated on the RPMS system.

ZFD attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
1	40	ST	R				Generic Name	Drug: 50, .01	
2	11	ID	O	Y			Warning Label	Drug: 50, 8	
3	3	NM	O				Maximum Dose Per Day	Drug: 50, 4	
4	1	ID	R				DEA Schedule	Drug: 50, 3	
5	60	ST	O				Standard SIG	Drug: 50, 5	
6	3	ID	R				Order Unit	Drug: 50, 12	
7	10	MO	R				Price Per Order Unit	Drug: 50, 12	
8	10	ST	R				Dispense Unit	Drug: 50, 14.5	
9	10	MO	R				Price Per Dispense Unit	Drug: 50, 16	
10	5	NM	R				Dispense Units Per Order Unit	Drug: 50, 15	
11	1	ID	R				Non-Formulary	Drug: 50, 51	
12	8	DT	C				Inactive Date	Drug: 50, 100	Internal Value
13	68	ST	O				Message	Drug: 50, 101	
14	1	ID	O				Chemotherapy Drug	Drug: 50, 202	Internal Value

51. ZP1 - IHS patient information: health record identifiers (2.4) (Obsolete, now in PID-3)

The ZP1 segment is used by IHS to transmit information about a patient's health records. It repeats as necessary to completely define the patient's health record information. It is used with all IHS supported events.

ZP2 attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	IHS File Reference	IHS Notes
1	6	NM	R			Health Record Number	Patient: 9000001.41, .02 [health record number]	
2	80	CE	R			Health Record Facility	Patient: 9000001.41, .01 [health record facility]	
3	8	DT	O			Date Inactivated/Deleted	Patient: 9000001.41, .03	
4	60	ST	O			Record Disposition	Patient: 9000001.41, .04	ptr to Patient Record Disposition: 9999999.02, .01 [description]
5	60	CE	O			Record Status	Patient: 9000001.41, .05	IHS set: use code and translation

52. ZP2 - IHS patient information (2.4)

The ZP2 segment is used by IHS to transmit permanent patient identifying and demographic information that is not included in any of the HL7-standard segments.

ZP2 attributes

SEQ	LEN		R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
1	8	DT	R				Date Established	Patient: 9000001, .02	
2	8	DT	R				Date of last Reg Update	Patient: 9000001, .03	
3	8	DT	R				Med/RR Release Date	Patient: 9000001, .04	
4	8	DT	R				Med/RR Release Revoked Date	Patient: 9000001, .05	
5	60	CE	R				Tribal Enrollment Number	Patient: 9000001, .07	Number^Tribal Enrollment Number^Tribal.IHS.GOV
6	60	CE	R				CHS Tribal Affiliation	Patient: 9000001, .09	ptr to Tribe: 999999.03, .02 [code] and .01 [name]
7	3	ID	O				Blood Type	Patient: 9000001, .13	IHS set: use code only
8	8	DT	R				Date of last update	Patient: 9000001, .16	
9	8	DT	O				Assign Benefits Obtained Date	Patient: 9000001, .17	
10	8	DT	O				Assign Benefits Expired Date	Patient: 9000001, .18	
11	60	CE	O				SSN Verification Status	Patient: 9000001, .23	ptr to SSN Status: 999999.78, .01 [code] and .02 [description]
12	60	CE	O				Reason for no SSN	Patient: 9000001, .24	IHS set: use code and translation
13	40	AD	O				Birth Place	Patient: 9000001, 1103.2 [city of birth]	
14	6	ST	O				Birth Certificate No.	1104.2 [state of birth]	
15	60	CE	R				Tribe of membership	Patient: 9000001, 1105	ptr to Tribe: 999999.03, .02 [code] and .01 [name]
16	12	ST	O				Tribe quantum	Patient: 9000001, 1109	
17	12	ST	R				Indian blood quantum	Patient: 9000001, 1110	
18	60	CE	R				Classification/Beneficiary	Patient: 9000001, 1111	ptr to Beneficiary: 999999.25, .02 [code] and .01 [name]
19	8	DT	O				Current residence date	Patient: 9000001, 1113	ptr to State: 5, 1 [abbreviation]
20	2	ID	O				State of Death	Patient: 9000001, 1115	
21	6	ST	O				Death Certificate Number	Patient: 9000001, 1116	
22	60	ST	O				Current Community	Patient: 9000001, 1117	
23	60	CE	O				Tribe Membership Verified Flag	Patient: 9000001, 1119	ptr to Community: 999999.05, .01 [name]
24	1	ID	O				Residence Verified Flag	Patient: 9000001, 1121	IHS set: use code and translation
25	8	DT	O				Date Eligibility determined	Patient: 9000001, 1123	Y: YES, N: NO (use HL7 yes/no table #0136)
26	60	CE	O				Eligible Minor Child	Patient: 9000001, 1125	IHS set: use code and translation
27	10K	TX	O	Y			Location of Home	Patient: 9000001, 1201	Not Supported
28	10K	TX	O	Y			Additional Registration Info	Patient: 9000001, 1301	Not Supported
29	10K	TX	O	Y			Remarks	Patient: 9000001, 1401	Not Supported
30	10K	TX	O	Y			Alerts	Patient: 9000001, 1501	Not Supported
31	48	PN	O				Father's Name	VA Patient: 2, 2401	
32	40	AD	O				Father's Birth Place	Patient: 9000001, 2602 [father's city of birth]	ptr to State: 5, 1 [abbreviation]
								2603 [father's state of birth]	
								2605 [mother's city of birth]	
								2606 [mother's state of birth]	ptr to State: 5, 1 [abbreviation]
33	40	AD	O				Mother's Birth Place		

53. ZP3 - IHS patient information: other tribes (2.4)

The ZP3 segment is used by IHS to transmit information contained in a patient’s records about membership in additional tribes. The ZP3 segment will repeat as necessary to transmit all the additional tribes the patient is affiliated with.

ZP3 attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	IHS File Reference	IHS Notes
1	60	CE	R			Other tribe (tribe ID and name)	Patient: 9000001.43, .01	ptr to Tribe: 9999999.03, .02 [code] and .01 [name]
2	12	ST	R			Other tribe, quantum	Patient: 9000001.43, .02	

54. ZP4 - IHS patient information: previous community (2.4)

The ZP4 segment is used by IHS to transmit information about any previous communities in which the patient may have lived. The ZP4 segment will repeat as necessary to transmit all the communities on record.

ZP4 attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
1	60	CE	R				Previous Community	Patient: 9000001.51, .03 [community of residence]	ptr to Community: 9999999.05, 8801 [code] and .01 [name]
2	8	DT	R				Date Moved	Patient: 9000001.51, .01	
3	8	DT	R				Date Added to File	Patient: 9000001.51, .02	

55. ZPR - IHS procedure extension (2.4)

The ZPR segment is used by IHS to transmit additional information about dental and/or surgical procedures that is not contained in any of the HL7-standard segments. One ZPR is used in conjunction with each PR1 segment.

ZPR attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
1	2	NM	R				No. of Units	V Dental: 9000010.05, .04	Use with PR1 for ADA code for V. Dental File
2	60	CE	O				Operative site	V Dental: 9000010.05, .05	ptr to Dental Operative Site: 9002010.03, 8801 [mnemonic] and .01 [anatomic name]
3	5	ST	O				Tooth Surface	V Dental: 9000010.05, .06	
4	80	ST	R				Provider Narrative	V Procedure: 9000010.08, .04	ptr to Provider Narrative: 9999999.27, .01 [narrative]
5	1	ID	O				Infection	V Procedure: 9000010.08, .08	Y: YES, N: NO (use HL7 yes/no table #0136)
6	1	ID	O				Anesthesia administered	V Procedure: 9000010.08, .14	1: YES, 0: NO (translate to/from HL7 yes/no table #0136)
7	60	CE	O				ASA-PS class	V Procedure: 9000010.08, .15	ptr to ASA-PS Code: 9999999.85, .01 [name]
8	60	CE	O				Procedure	V Procedure: 9000010.08, .16 [cpt code]	ptr to CPT: 81, .01 [cpt code] and 2 [short name]

Notes:

1. Although both Sequence 1 and Sequence 4 are described as “R” required, each will only be valued for the corresponding event. For example, dental information will mean that Sequences 1 through 3 will be valued, while Sequences 4 through 8 will not (and vice versa for a surgical procedure).
2. All V Dental fields in this segment relate to the dental procedure identified in PR1:3, Procedure Code.
3. All V Procedure fields in this segment relate to the procedure identified in PR1:3, Procedure Code.

56. ZRA - IHS pharmacy / treatment administration extension (2.4)

The ZRA segment is used by IHS to transmit pharmacy or immunization information that is not contained in any of the HL7-standard segments. It is used in conjunction with the RXA segment, with each RXA followed by one ZRA:

...
RXA
ZRA

Note: use HL7 2.3 chapter 4, appendix 4B for definition of administration messages (unsolicited and queries). Use this document for segment and field specifications for the ZRA segment.

ZRA attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM #	IHS File Reference	IHS Notes
1	60	CE	O				V Immunization: 9000010.11, .04	IHS set: use code and translation
2	60	CE	O			Series Reaction Contraindicated	V Immunization: 9000010.11, .06	IHS set: use code and translation
3	60	CE	O				V Immunization: 9000010.11, .07	IHS set: use code and translation Not used in IHS Immunization package version 7

57. ZV1 - IHS patient visit (2.4)

The ZV1 segment is used by IHS to transmit visit-specific information that is not included in any of the HL7-standard segments. There will be one ZV1 for each PV1 in a message.

ZV1 attributes

SEQ	LEN	DT	R/O	RP/#	TBL#	ITEM#	ELEMENT NAME	IHS File Reference	IHS Notes
1	8	DT	R				Date Visit Created	Visit: 9000010.02	if includes time, use TS datatype instead (max length=26)
2	60	CE	O				Third Party Billed	Visit: 9000010.04	IHS set: use code and translation
3	65	PL	O				Clinic	Visit: 9000010.08	ptr to Clinic Stop: 40.7, .01 [name] This is not a physical location, but an organizational entity, e.g. "diabetes clinic", "weight loss clinic", "prenatal clinic", etc. (Cross-reference: PV1:3) This has been moved to PV1-3
4	8	DT	O				Date Last Modified	Visit: 9000010.13	IHS set: use code and translation
5	60	CE	O				Walk In / Appt	Visit: 9000010.16	IHS set: use code and translation
6	60	CE	O				Level of Service (PCC Form)	Visit: 9000010.19	ptr to Eligibility Code: 8, .01 [name] (Defines the patient's eligibility for treatment during this visit)
7	60	CE	O				Eligibility	Visit: 9000010.21	
8	12	NM	O				Amount Billed	Visit: 9000010.1101	
9	50	ST	O				Outside Location	Visit: 9000010.2101	
10	60	CE	R				Admitting Service	V Hosp.: 9000010.02, .04	ptr to Treating Specialty: 45.7, 99999999.01 [code] and .01 [name]
11	60	CE	R				Discharge Service	V Hosp.: 9000010.02, .05	ptr to Treating Specialty: 45.7, 99999999.01 [code] and .01 [name]
12	2	NM	O				Number of Consults	V Hosp.: 9000010.02, .08	
13	1	ID	O				Medicare Release	V Hosp.: 9000010.02, .11	Y: YES, N: NO (use HL7 yes/no table # 0136)
14	1	ID	O				Assignment of Benefits	V Hosp.: 9000010.02, .13	Y: YES, N: NO (use HL7 yes/no table # 0136)
15	50	EI	R				Authorization Number and Authorizing Facility	V CHS: 9000010.03, .04 [authorizing no.], .01 [authorizing facility]	
16	60	CE	R				Pay Status	V CHS: 9000010.03, .05	ptr to Location: 9999999.06, .01 [name] -> Institution: 4, .01 [name]
17	12	NM	R				Total Charges	V CHS: 9000010.03, .06	IHS set: use code and translation
18	60	CE	O				Stillborn	V CHS: 9000010.03, .11	
19	2	NM	R				No. of Visits	V CHS: 9000010.03, .12	IHS set: use code and translation
20	15	ST	O				Hospital Voucher No.	V CHS: 9000010.03, .13	
21	30	ST	R				Vendor	V CHS: 9000010.03, .14	
22	4	NM	R				Activity Time	V Activity Time: 9000010.19, .01	ptr to Vendor: 9999999.11, .01 [name]
23	3	NM	O				Travel Minutes	V Activity Time: 9000010.19, .04	