STAR HL7 Specification

Version 1.0

M^cKESSON

Empowering Healthcare

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Version Number	Date Updated	Revision Author	Summary of Major Changes Made
.01	2/21/2008	Marianne Shiwarski	Created ER 14.0 release version
.02	10/15/2008	Marianne Shiwarski	Added the Outbound A16 and A25 record format since they were omitted from the document.
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Chapter 1 - Supported Triggers

The following tables list all supported outbound and inbound messages supported by STAR's 2.2b interface. The message structure for these will be given in subsequent sections in the order in which they appear in these tables.

Note:	At this time not all inbound messages are supported from all products positioned to send inbound messages to STAR. Some inbound messages are tied directly to projects between specific products within McKesson Provider Technologies.

Patient processing / medical record update messages

Trigger	Description	Supported outbound	Supported inbound
A01	Admit a Patient	✓	
A02	Transfer a Patient	✓	
A03	Discharge a Patient	✓	
A04	Register a Patient	✓	✓
A05	Preadmit a Patient	✓	
A06	Transfer an Outpatient to Inpatient	✓	
A07	Transfer an Inpatient to Outpatient	✓	
A08	Update Patient Information	✓	✓
A11	Cancel Admit	✓	
A12	Cancel transfer	✓	
A13	Cancel Discharge	✓	
A14	Pending Admit	✓	✓
A17	Swap Patients	✓	
A20	Bed status update	✓	
A23	Delete a patient record	✓	
A24	Link patient information	✓	✓
A27	Cancel pending admit	✓	✓
A28	Add Person Information	✓	✓
A29	Delete person information	✓	
A31	Update Person Information	✓	✓
A34	Merge Patient Information - Patient ID Only	✓	
A60	Update Adverse Reaction Information	✓	✓
Z44	Move Account Information - Patient Account Number	✓	

Trigger	Description	Supported outbound	Supported inbound
Z46	Change External ID (PID.2)		✓
Z47	Change Internal ID (PID.3))	✓	
P01	Add and Update Patient Account	✓	
QBP^Q22	Find Candidate		✓
QBP^Q24	Allocate Identifiers		✓
RSP^K22	Find Candidate Response	✓	
RSP^K24	Allocate Identifiers Response	✓	

Order messages[1]

Clinical orders

Trigger	Description	Supported outbound	Supported inbound
O01	New Order - Child (Orphan)	✓	✓
O01	New Parent Order - Parent	✓	✓
O01	New Child Order - Child	✓	✓
O01	Order Accepted		
O01	Order Status Changed (Parent/Child)	✓	✓
O01	Order Canceled (Parent/Child)	✓	✓
O01	Order Cancellation Request (Parent/Child)	✓	✓
O01	Order Canceled as Requested (Parent/Child)	✓	✓
O01	Unable to Cancel Order (Parent/Child)	✓	✓
O01	Order Discontinued - Parent	✓	✓
O01	Order Discontinue Request - Parent	✓	✓
O01	Order Discontinued as Requested - Parent	✓	✓
O01	Unable to Discontinue Order - Parent	✓	✓
O01	Order On Hold - Parent	✓	✓
O01	Order Hold Request - Parent	✓	✓
O01	Order Held as Requested - Parent	✓	✓
O01	Unable to Put on Hold - Parent	✓	✓
O01	Order Released - Parent	✓	✓
O01	Order Release Requested - Parent	✓	✓
O01	Order Released as Requested - Parent	✓	✓

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[1] Order messages have been repeated here to reflect which Order Control codes are supported and whether it is supported on the parent and/or child message. There are differences between Clinical and Dietary Orders.

Trigger	Description	Supported outbound	Supported inbound
O01	Unable to Release Order - Parent	✓	✓
O01	Order Changed -Child	✓	✓
O01	Order Change Request (Parent/Child)	✓	✓
O01	Order Changed as Requested (Parent/Child)	✓	✓
O01	Unable to Change Order (Parent/Child)	✓	✓

Dietary orders

Trigger	Description	Supported outbound	Supported inbound
O01	New Order - Child (Orphan)		✓
O01	New Parent Order - Parent	✓	✓
O01	New Child Order - Child		
O01	Order Accepted	✓	
O01	Order Status Changed (Parent/Child)	✓	✓
O01	Order Canceled (Parent/Child)		✓
O01	Order Cancellation Request (Parent/Child)	✓	
O01	Order Canceled as Requested (Parent/Child)		✓
O01	Unable to Cancel Order (Parent/Child)		✓
O01	Order Discontinued - Parent		✓
O01	Order Discontinue Request - Parent	✓	
O01	Order Discontinued as Requested - Parent		✓
O01	Unable to Discontinue Order - Parent		✓
O01	Order On Hold - Parent	✓	✓
O01	Order Hold Request - Parent	✓	✓
O01	Order Held as Requested - Parent	✓	✓
O01	Unable to Put on Hold - Parent	✓	✓
O01	Order Released - Parent	✓	✓
O01	Order Release Requested - Parent	✓	✓
O01	Order Released as Requested - Parent	✓	✓
O01	Unable to Release Order - Parent	✓	✓
O01	Order Changed -Child		✓
O01	Order Change Request (Parent/Child)	✓	
O01	Order Changed as Requested (Parent/Child)		✓
O01	Unable to Change Order (Parent/Child)		✓

Result messages

Trigger	Description	Supported outbound	Supported inbound
R01	Unsolicited Transmission of Requested Observation	✓	✓
R02	Deferred Query Request	✓	
R04	Deferred Query Response		✓

Master file updates messages

Trigger	Description	Supported outbound	Supported inbound
M01	General Master File	✓	
M02	Staff / Practitioner Master File	✓	
M03	Test / Observation Master File	✓	

Schedule information unsolicited messages

Trigger	Description	Supported outbound	Supported inbound
SIU	Notification of New Appointment Booking		✓
SIU	Notification of Appointment Rescheduling		✓
SIU	Notification of Appointment Modification		✓
SIU	Notification of Appointment Cacellation		✓

Chapter 2 - Outbound Message Details

> **Note:** Key for R/O/C/N – "R"equired; "O"ptional; "C"onditional; "N"ot Supported.
> Not Supported is also some times presented with a GRAY Font "N/S" in the
> column.

Control messages

No messages currently identified for this section outbound.

Patient processing / medical record update messages

A01 - Admit a patient

OB^A01	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
[{ NK1 }]	Next of Kin	O	Y/2
PV1	Patient Visit	R	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
[PV2]	Patient Visit - Additional Information	O	
[{ OBX }]	Observation/Result	O	Y
[{ AL1 }]	Allergy Information	N	Y
[{ DG1 }]	Diagnosis Information	O	Y/2 (Admitting & Working)
[{ PR1 }]	Procedures	O	Y
[{ GT1 }]	Guarantor Information	O	
[			
{ IN1	Insurance Information	O	Y/9
[IN2]	Insurance Information - Additional Information	O	Y/9
[IN3]	Insurance Information - Certification	O	Y/9

OB^A01	Description	R/O/C/N	Repeating segment
}			
]			
[ACC]	Accident Information	O	
[UB1]	Universal Bill Information	O	
[UB2]	Universal Bill 92 Information	O	
[ZPI]	Supplemental Patient ID Information	O	
[ZPV]	Supplemental Patient Visit Information	O	
[{ ZDG }]	Supplemental Diagnosis Information	O	Y/2
[{ ZPR }]	Supplemental Procedure Information	O	Y
[{ ZIN }]	Supplemental Insurance Information	O	Y/9
[ZAC]	Supplemental Accident Insurance	O	

A02 - Transfer a patient

OB^A02	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
PV1	Patient Visit	R	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
[PV2]	Patient Visit - Additional Information	O	
[{ OBX }]	Observation/Result	O	Y
[ZPI]	Supplemental Patient ID Information	O	
[ZPV]	Supplemental Patient Visit Information	O	
[{ ZPR }]	Supplemental Procedure Information	N	
[{ ZIN }]	Supplemental Insurance Information	N	
[ZAC]	Supplemental Accident Insurance	N	

A03 - Discharge a patient

OB^A03	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	

OB^A03	Description	R/O/C/N	Repeating segment
[PD1]	Patient Demographics	O	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
PV1	Patient Visit	R	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
[PV2]	Patient Visit - Additional Information	O	
[{ OBX }]	Observation/Result	O	Y
[ZPI]	Supplemental Patient ID Information	O	
[ZPV]	Supplemental Patient Visit Information	O	

A04 - Register a patient

OB^A04	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
[{ NK1 }]	Net of Kin	O	Y/2
PV1	Patient Visit	R	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
[PV2]	Patient Visit - Additional Information	O	
[{ OBX }]	Observation/Result	O	Y
[{ AL1 }]	Allergy	O	Y
[{ DG1 }]	Diagnosis Information	O	Y/2 (Admitting & Working)
[{ PR1 }]	Procedures	O	Y
[{ GT1 }]	Guarantor Information	O	
[			
{ IN1	Insurance Information	O	Y/9
[IN2]	Insurance Information - Additional Information	O	Y/9
[IN3]	Insurance Information - Certification	O	Y/9
}			
]			
[ACC]	Accident	O	
[UB1]	Universal Bill Information	O	
[UB2]	Universal Bill 92 Information	O	
[ZPI]	Supplemental Patient ID Information	O	
[ZPV]	Supplemental Patient Visit Information	O	
[{ ZDG }]	Supplemental Diagnosis Information	O	Y/2
[{ ZPR }]	Supplemental Procedure Information	O	Y

OB^A04	Description	R/O/C/N	Repeating segment
[{ ZIN }]	Supplemental Insurance Information	O	Y/9
[ZAC]	Supplemental Accident Insurance	O	
[ZCA]	Contract Administration	C	

A05 - Preadmit a patient

OB^A05	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
MRG	Merge Patient Information	C	
[{ NK1 }]	Net of Kin	O	Y/2
PV1	Patient Visit	R	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
[PV2]	Patient Visit - Additional Information	O	
[{ OBX }]	Observation/Result	O	Y
[{ AL1 }]	Allergy	O	Y
[{ DG1 }]	Diagnosis Information	O	Y
[{ PR1 }]	Procedures	O	Y
[{ GT1 }]	Guarantor Information	O	
[			
{ IN1	Insurance Information	O	Y/9
[IN2]	Insurance Information - Additional Information	O	Y/9
[IN3]	Insurance Information - Certification	O	Y/9
}			
]			
[ACC]	Accident	O	
[UB1]	Universal Bill Information	O	
[UB2]	Universal Bill 92 Information	O	
[ZPI]	Supplemental Patient ID Information	O	
[ZPV]	Supplemental Patient Visit Information	O	
[{ ZDG }]	Supplemental Diagnosis Information	O	Y
[{ ZPR }]	Supplemental Procedure Information	O	Y
[{ ZIN }]	Supplemental Insurance Information	O	Y/9
[ZAC]	Supplemental Accident Insurance	O	

A06 - Transfer an outpatient to inpatient

OB^A06	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
MRG	Merge Patient Information	C	
[{ NK1 }]	Net of Kin	O	Y/2
PV1	Patient Visit	R	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
[PV2]	Patient Visit - Additional Information	O	
[{ OBX }]	Observation/Result	O	Y
[{ AL1 }]	Allergy	O	Y
[{ DG1 }]	Diagnosis Information	O	Y
[{ PR1 }]	Procedures	O	Y
[{ GT1 }]	Guarantor Information	O	
[			
{ IN1	Insurance Information	O	Y/9
[IN2]	Insurance Information - Additional Information	O	Y/9
[IN3]	Insurance Information - Certification	O	Y/9
}			
]			
[ACC]	Accident	O	
[UB1]	Universal Bill Information	O	
[UB2]	Universal Bill 92 Information	O	
[ZPI]	Supplemental Patient ID Information	O	
[ZPV]	Supplemental Patient Visit Information	O	
[{ ZDG }]	Supplemental Diagnosis Information	O	Y
[{ ZPR }]	Supplemental Procedure Information	O	Y
[{ ZIN }]	Supplemental Insurance Information	O	Y/9
[ZAC]	Supplemental Accident Insurance	O	

A07 - Transfer an inpatient to outpatient

OB^A07	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	

OB^A07	Description	R/O/C/N	Repeating segment
[{ZOE}]	Physician Office information related to Patient Encounter	O	
MRG	Merge Patient Information	C	
[{ NK1 }]	Net of Kin	O	Y/2
PV1	Patient Visit	R	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
[PV2]	Patient Visit - Additional Information	O	
[{ OBX }]	Observation/Result	O	Y
[{ AL1 }]	Allergy	O	Y
[{ DG1 }]	Diagnosis Information	O	Y
[{ PR1 }]	Procedures	O	Y
[{ GT1 }]	Guarantor Information	O	
[			
{ IN1	Insurance Information	O	Y/9
[IN2]	Insurance Information - Additional Information	O	Y/9
[IN3]	Insurance Information - Certification	O	Y/9
}			
]			
[ACC]	Accident	O	
[UB1]	Universal Bill Information	O	
[UB2]	Universal Bill 92 Information	O	
[ZPI]	Supplemental Patient ID Information	O	
[ZPV]	Supplemental Patient Visit Information	O	
[{ ZDG }]	Supplemental Diagnosis Information	O	Y
[{ ZPR }]	Supplemental Procedure Information	O	Y
[{ ZIN }]	Supplemental Insurance Information	O	Y/9
[ZAC]	Supplemental Accident Insurance	O	

A08 - Update patient information

OB^A08	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
[{ NK1 }]	Net of Kin	O	Y/2
PV1	Patient Visit	R	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
[PV2]	Patient Visit - Additional Information	O	

OB^A08	Description	R/O/C/N	Repeating segment
[{ OBX }]	Observation/Result	O	Y
[{ AL1 }]	Allergy	O	Y
[{ DG1 }]	Diagnosis Information	O	Y
[{ PR1 }]	Procedures	O	Y
[{ GT1 }]	Guarantor Information	O	
[			
{ IN1	Insurance Information	O	Y/9
[IN2]	Insurance Information - Additional Information	O	Y/9
[IN3]	Insurance Information - Certification	O	Y/9
}			
]			
[ACC]	Accident	O	
[UB1]	Universal Bill Information	O	
[UB2]	Universal Bill 92 Information	O	
[ZPI]	Supplemental Patient ID Information	O	
[ZPV]	Supplemental Patient Visit Information	O	
[{ ZDG }]	Supplemental Diagnosis Information	O	Y/2
[{ ZPR }]	Supplemental Procedure Information	O	Y
[{ ZIN }]	Supplemental Insurance Information	O	Y/9
[ZAC]	Supplemental Accident Insurance	O	
[ZAB]	Supplemental Abstract Information	O	
[ZNB]	Supplemental Newborn Abstract Information	O	
[ZCA]	Contract Administration	C	

A11 - Cancel admit

OB^A11	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
PV1	Patient Visit	R	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
[PV2]	Patient Visit - Additional Information	O	
[{ OBX }]	Observation/Result	O	Y
[{ DG1 }]	Diagnosis Information	O	Y
[ZPI]	Supplemental Patient ID Information	O	
[ZPV]	Supplemental Patient Visit Information	O	
[{ ZDG }]	Supplemental Diagnosis Information	O	Y

A12 - Cancel transfer

OB^A12	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
PV1	Patient Visit	R	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
[PV2]	Patient Visit - Additional Information	O	

A13 - Cancel discharge

OB^A13	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
[{ NK1 }]	Net of Kin	O	Y/2
PV1	Patient Visit	R	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
[PV2]	Patient Visit - Additional Information	O	
[{ OBX }]	Observation/Result	O	Y
[{ AL1 }]	Allergy	O	Y
[{ DG1 }]	Diagnosis Information	O	Y
[{ PR1 }]	Procedures	O	Y
[{ GT1 }]	Guarantor Information	O	
[			
{ IN1	Insurance Information	O	Y/9
[IN2]	Insurance Information - Additional Information	O	Y/9
[IN3]	Insurance Information - Certification	O	Y/9
}			
]			
[ACC]	Accident	O	
[UB1]	Universal Bill Information	O	
[UB2]	Universal Bill 92 Information	O	
[ZPI]	Supplemental Patient ID Information	O	
[ZPV]	Supplemental Patient Visit Information	O	

OB^A13	Description	R/O/C/N	Repeating segment
[{ ZDG }]	Supplemental Diagnosis Information	O	Y
[{ ZPR }]	Supplemental Procedure Information	O	Y
[{ ZIN }]	Supplemental Insurance Information	O	Y/9
[ZAC]	Supplemental Accident Insurance	O	

A14 - Pending admit

OB^A14	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
[{ NK1 }]	Net of Kin	O	Y/2
PV1	Patient Visit	R	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
[PV2]	Patient Visit - Additional Information	O	
[{ OBX }]	Observation/Result	O	Y
[{ AL1 }]	Allergy	O	Y
[{ DG1 }]	Diagnosis Information	O	Y
[{ PR1 }]	Procedures	O	Y
[{ GT1 }]	Guarantor Information	O	
[			
{ IN1	Insurance Information	O	Y/9
[IN2]	Insurance Information - Additional Information	O	Y/9
[IN3]	Insurance Information - Certification	O	Y/9
}			
]			
[ACC]	Accident	O	
[UB1]	Universal Bill Information	O	
[UB2]	Universal Bill 92 Information	O	
[ZPI]	Supplemental Patient ID Information	O	
[ZPV]	Supplemental Patient Visit Information	O	
[{ ZDG }]	Supplemental Diagnosis Information	O	Y
[{ ZPR }]	Supplemental Procedure Information	O	Y
[{ ZIN }]	Supplemental Insurance Information	O	Y/9
[ZAC]	Supplemental Accident Insurance	O	

A16 - Pending discharge a patient

OB^A16	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
[{ NK1 }]	Net of Kin	O	Y/2
PV1	Patient Visit	R	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
[PV2]	Patient Visit - Additional Information	O	
[{ OBX }]	Observation/Result	O	Y
[{ DG1 }]	Diagnosis Information	O	Y
[{ PR1 }]	Procedures	O	Y
[{ GT1 }]	Guarantor Information	O	
[			
{ IN1	Insurance Information	O	Y/9
[IN2]	Insurance Information - Additional Information	O	Y/9
[IN3]	Insurance Information - Certification	O	Y/9
}			
]			
[ZPI]	Supplemental Patient ID Information	O	
[ZPV]	Supplemental Patient Visit Information	O	
[{ ZDG }]	Supplemental Diagnosis Information	O	Y
[{ ZPR }]	Supplemental Procedure Information	O	Y
[{ ZIN }]	Supplemental Insurance Information	O	Y/9

A17- Swap patients

OB^A17	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
PV1	Patient Visit	R	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
[PV2]	Patient Visit - Additional Information	O	
PID	Patient Identification	R	

OB^A17	Description	R/O/C/N	Repeating segment
[PD1]	Patient Demographics	O	
PV1	Patient Visit	R	
[PV2]	Patient Visit - Additional Information	O	

A20 - Bed status update

OB^A20	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
NPU	Non-Patient Update	R	

A23 - Delete a patient record

OB^A23	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
PV1	Patient Visit	R	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
[PV2]	Patient Visit - Additional Information	O	

A24 - Link patient information

OB^A24	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
PV1	Patient Visit	O	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
PV1	Patient Visit	O	

A25 - Discharge a patient

OB^A25	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
PV1	Patient Visit	R	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
[PV2]	Patient Visit - Additional Information	O	
[{ OBX }]	Observation/Result	O	Y
[ZPI]	Supplemental Patient ID Information	O	
[ZPV]	Supplemental Patient Visit Information	O	

A27 - Cancel pending admit

OB^A27	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
PV1	Patient Visit	R	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
[PV2]	Patient Visit - Additional Information	O	
[{ OBX }]	Observation/Result	O	Y

A28 - Add person information

OB^A28	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
[{ NK1 }]	Net of Kin	O	Y/2
PV1	Patient Visit	R	
[PV2]	Patient Visit - Additional Information	O	
[{ OBX }]	Observation/Result	O	Y

OB^A28	Description	R/O/C/N	Repeating segment
[{ AL1 }]	Allergy	O	Y
[{ DG1 }]	Diagnosis Information	O	Y
[{ PR1 }]	Procedures	O	Y
[{ GT1 }]	Guarantor Information	O	
[			
{ IN1	Insurance Information	O	Y/9
[IN2]	Insurance Information - Additional Information	O	Y/9
[IN3]	Insurance Information - Certification	O	Y/9
}			
]			
[ACC]	Accident	O	
[UB1]	Universal Bill Information	O	
[UB2]	Universal Bill 92 Information	O	
[ZPI]	Supplemental Patient ID Information	O	
[ZPV]	Supplemental Patient Visit Information	O	
[{ ZDG }]	Supplemental Diagnosis Information	O	Y
[{ ZPR }]	Supplemental Procedure Information	O	Y
[{ ZIN }]	Supplemental Insurance Information	O	Y/9
[ZAC]	Supplemental Accident Insurance	O	

A29 - Delete person information

OB^A29	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
PV1	Patient Visit	R	
[PV2]	Patient Visit - Additional Information	O	

A31 - Update person information

OB^A31	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
[{ NK1 }]	Net of Kin	O	Y/2
PV1	Patient Visit	R	
[PV2]	Patient Visit - Additional Information	O	
[{ OBX }]	Observation/Result	O	Y

OB^A31	Description	R/O/C/N	Repeating segment
[{ AL1 }]	Allergy	O	Y
[{ DG1 }]	Diagnosis Information	O	Y
[{ PR1 }]	Procedures	O	Y
[{ GT1 }]	Guarantor Information	O	
[			
{ IN1	Insurance Information	O	Y/9
[IN2]	Insurance Information - Additional Information	O	Y/9
[IN3]	Insurance Information - Certification	O	Y/9
}			
]			
[ACC]	Accident	O	
[UB1]	Universal Bill Information	O	
[UB2]	Universal Bill 92 Information	O	
[ZPI]	Supplemental Patient ID Information	O	
[ZPV]	Supplemental Patient Visit Information	O	
[{ ZDG }]	Supplemental Diagnosis Information	O	Y
[{ ZPR }]	Supplemental Procedure Information	O	Y
[{ ZIN }]	Supplemental Insurance Information	O	Y/9
[ZAC]	Supplemental Accident Insurance	O	

A34 - Merge patient information - patient ID only

OB^A34	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
MRG	Merge Patient Information	R	
[ZPI]	Supplemental Patient ID Information	O	

A60 - Update adverse reaction information

OB^A60	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PV1]	Patient Visit	O	
[{ZOE}]	Physician Office information related to Patient Encounter	O	
[PV2]	Patient Visit - Additional Information	O	
[{ IAM }]	Patient Adverse Reaction Information	R	Y

Z44 - Move account information - patient account number

OB^Z44	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
MRG	Merge Patient Information	R	

Z47 - Change internal ID (MRN)

OB^Z47	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
MRG	Merge Patient Information	R	

P01 - Add/change billing account

OB^P01	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
PV1	Patient Visit	R	
[PV2]	Patient Visit - Additional Information	O	
[{ OBX }]	Observation/Result	O	Y
[{ AL1 }]	Allergy	O	Y
[{ DG1 }]	Diagnosis Information	O	Y
[{ PR1 }]	Procedures	O	Y
[{ GT1 }]	Guarantor Information	O	
[{ NK1 }]	Net of Kin	O	Y/2
[			
{ IN1	Insurance Information	O	Y/9
[IN2]	Insurance Information - Additional Information	O	Y/9
[IN3]	Insurance Information - Certification	O	Y/9
}			
]			
[ACC]	Accident	O	
[UB1]	Universal Bill Information	O	
[UB2]	Universal Bill 92 Information	O	
[ZPI]	Supplemental Patient ID Information	O	

OB^P01	Description	R/O/C/N	Repeating segment
[ZPV]	Supplemental Patient Visit Information	O	
[{ ZDG }]	Supplemental Diagnosis Information	O	Y
[{ ZPR }]	Supplemental Procedure Information	O	Y
[{ ZIN }]	Supplemental Insurance Information	O	Y/9
[ZAC]	Supplemental Accident Insurance	O	
[ZAB]	Supplemental Abstract Information	O	
[ZNB]	Supplemental Newborn Abstract Information	O	

Order messages

STAR Order Management supports both clinical and dietary orders for a number of Order Control codes. For details, see "Supported Order Control Codes."

O01 - General order message - clinical

OB^O01	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
[PID	Patient Identification	R	
[PV1]]	Patient Visit	R	
{ ORC	Common Order	R	Y
[OBR	Observation Request	R	Y
[{ NTE }]	Notes and Comments (for details)	O	Y
[{ [{ OBX	Observation/Result	O	Y
[ZOM]	Additional Order Information	C[2]	

O01 - General order message - dietary

OB^O02	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
[PID	Patient Identification	R	
[PV1]]	Patient Visit	R	
{ ORC	Common Order	R	Y
[ODS	Dietary Orders, Supplements and Preferences	R	Y
[{ NTE }]	Notes and Comments (for details)	O	Y
[{ [{ OBX	Observation/Result	O	Y
[ZOM]	Additional Order Information	C[3]	

---

[2] Required for Nurse collect / Lab accession numbers on outbound.
[3] Required for Nurse collect / Lab accession numbers on outbound.

Supported order control codes

Order control	Description	Clinical orders		Dietary orders	
		Inbound	Outbound	Inbound	Outbound
NW	New Order	Child (Orphan)	Child (Orphan)	Not supported	Child
PA	New Parent Order	Parent	Parent	Parent	Parent
CH	New Child Order	Child	Child	Not supported	Not supported
OK	Order Accepted	Not supported	Not supported	Parent	Not supported
SC	Order Status Changed	Parent/Child	Parent/Child	Parent/Child	Parent/Child
OC	Order Canceled	Parent/Child	Parent/Child	Not supported	Parent/Child
CA	Order Cancellation Request	Parent/Child	Parent/Child	Parent/Child	Not supported
CR	Order Canceled as Requested	Parent/Child	Parent/Child	Not supported	Parent/Child
UC	Unable to Cancel Order	Parent/Child	Parent/Child	Not supported	Parent/Child
OD	Order Discontinued	Parent	Parent	Not supported	Parent
DC	Order Discontinue Request	Parent	Parent	Parent	Not supported
DR	Order Discontinued as Requested	Parent	Parent	Not supported	Parent
UD	Unable to Discontinue Order	Parent	Parent	Not supported	Parent
OH	Order On Hold	Parent	Parent	Parent	Parent
HD	Order Hold Request	Parent	Parent	Parent	Parent
HR	Order Held as Requested	Parent	Parent	Parent	Parent
UH	Unable to Put on Hold	Parent	Parent	Parent	Parent
OR	Order Released	Parent	Parent	Parent	Parent
RL	Order Release Requested	Parent	Parent	Parent	Parent
RR	Order Released as Requested	Parent	Parent	Parent	Parent
UR	Unable to Release Order	Parent	Parent	Parent	Parent
XX	Order Changed	Child	Child	Not supported	Child
XO	Order Change Request	Parent/Child	Parent/Child	Parent/Child	Not supported
XR	Order Changed as Requested	Parent/Child	Parent/Child	Not supported	Parent/Child
UX	Unable to Change Order	Parent/Child	Parent/Child	Not supported	Parent/Child
NA	Number Assignment	Child	Child	Parent	Parent

Query response messages

Refer to Chapter 3 - ADT Query Messages for detail on both the K22 and K24 messages

K22 – Find candidate response

K24 – Allocate identifiers response

Result messages

R01 - Unsolicited result observation

OB^R01	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
PID	Patient Identification	R	
OBR	Observation Request	R	
[{ NTE }]	Notes and Comments (for details)	O	Y
[{ OBX	Observation/Result	O	Y
{ NTE }]	Notes and Comments (for details)	O	Y

R02 - Deferred query request

The R02 trigger is a Query Request (QRY) message type. STAR supports this message outbound only. The Query is sent out and acknowledged immediately on the same line. This acknowledgment does not contain the response to the query. The response to the query is returned in an R04, Deferred Query Response message.

OB^R02	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	N
QRD	Query Definition	R	N
QRF	Query Filter	R	N
[DSC]	Continuation Pointer	O	N

Master file notification messages

M01 - General master file

The base HBOCHI 2.2b STAR release of table updates supports 5 versions of this message. All will begin with MSH, MFI, and MFE segments. However, the other optional segments will differ depending on the version. The versions are used to support different tables.

OB^M01	Description	R/O/C/N	Repeating segment	Notes
MSH	Message Header	R		
MFI	Master File Identification	R		
MFE	Master File Entry	R		
[ZBD]	Additional Bed Status	O		STAR Bed master file update
[ZBT]	Additional Business Table Information	O		STAR Employer table update
[ZDP]	Nursing Station Department Master	O		STAR Department table update
[ZFC]	Facility Identification	O		STAR facility updates

M02 - Staff/practitioner master file

OB^M02	Description	R/O/C/N	Repeating segment	Notes
MSH	Message Header	R		
MFI	Master File Identification	R		
MFE	Master File Entry	R		
STF	Staff Identification	R		
[PRA]	Practitioner Detail	O		
[{ZST}]	Additional Staff Information	O	Y	STAR Employee and Physician updates
[{ZRA}]	Additional Practitioner Information	O	Y	STAR Employee and Physician updates
[{ZOS}]	Office Staff Data	O	Y	STAR Physician Table load and office staff updates

M03 - Tests/observation master file

The base HBOCHI 2.2b STAR release of table updates supports 4 versions of this message. All versions contain the MSH, MFI, and MFE. Version 01 supports ZSI and ZT2. Versions 02, 03, and 04 support OM1 and ZSE segments.

OB^M03	Description	R/O/C/N	Repeating segment	Notes
MSH	Message Header	R		
MFI	Master File Identification	R		
MFE	Master File Entry	R		
[{ OM1 }]	General Observation	O	Y	
[ZSE]	Additional Observation Information	O		Departmental profiling (DP), Radiology observations (ROBV), Service Observation (RSVO), Laboratory observation (LOBV) & Laboratory service observation (LSVO)
[ZSI]	Service Item Master	O		STAR SIM table (STBB), SIM alternate table (STBA) and SIM prompt table (STBP)
[{ZT2}]	SIM Alternates	O	Y	STAR SIM table (STBB), SIM alternate table (STBA) and SIM prompt table (STBP)

Outbound segment details

STAR does not support the same data inbound as it does outbound. That is, STAR sends fully populated messages outbound. However, when receiving messages inbound, it only reads and acts on information pertinent to processing that segment. Some fields on segments may be supported on some messages but not all messages containing the segment. These types of details are found either in the notes preceding the segment table or in the "Comments" column of the segment table.

Segment tables' legend

The **inbound** specifications for message segments supported in the Access Management Release 6.0/STAR integration design are documented in table format. To assist with interpreting these tables, the abbreviations for column headers and date within are defined below:

Column	Description
SEQ	Sequence # in the message segment

Column	Description		
LEN	Maximum allowable length		
DT	Data types		
	AD	Address	
	CE	Coded element	
	CF	Code element with format values	
	CK	Composite ID with check digit	
	CM	Composite	
	CN	Composite ID number and name	
	CNE	Coded with no exceptions	
	CP	Composite price	
	CQ	Composite quantity with units	
	DT	Date (always in format CCYYYMMDD)	
	EI	Entity identifier	
	FT	Formatted text or data	
	ID	Coded value	
	JCC	Job code/class	
	MO	Money (quantity; denomination or country code)	
	NM	Numeric (leading sign, + or -, optional)	
	PN	Person Name	
	RP	Reference Pointer	
	SI	Sequence ID, positive integer	
	ST	String data (left justified)	
	TM	Time (always in format HHMM[SS[.SSSS]][+/-ZZZZ])	
	TN	Telephone number	
	TQ	Timing quantity	
	TS	Time stamp (always in YYYYMMDD[HHMM[SS[.SSSS]]][+/-ZZZZ];degree of precision). STAR reads only to the minute.	
	TX	Text data (meant for user display, leading spaces allowed)	
	XCN	Extended composite ID number and name for persons	
	XON	Extended composite name and identification number for organizations	
	XPN	Extended person name	
R/O/C/NS	Required / Optional / Conditional / Not supported		
	R	Required by this application and must be populated in every instance	
	O	Optional; should be included in the message if available, but is not critical to this application	
	C	Conditional; required by this application under certain conditions	
	NS	Not supported on outbound	
RP/#	Repeating fields		
	Y	Field repeats, indefinite # of times if no number follows	
	/#	Indicates number of times field may repeat	

Column	Description
Element name	HL7 2.2 element name
Comments / conditionality rules	Fields populated on STAR are indicated in **bold** type. Additional comments include accepted values, processing rules, errors messages and the conditional rule when the field is conditionally required.

ACC - Accident information

Seq	Len	Data type	R/O/C	RP/#	Element name
1	12	TS	O		Accident Date/Time
2	1	ID	O		Accident Code
3	25	ST	O		Accident Location
4	2	ID	O		Accident State
5					Accident Job Related Indicator
6			NS		Accident Death Indicator
7			NS		Accident Entered by
8					Accident Description
9			NS		Accident Brought in by
10			NS		Accident Police Notified Indicator

Field notes

ACC.4   **Accident State**

Information populated outbound with STI M22746.

AL1 - Allergy information

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID - Allergy
2	2	ID	R		Allergy Type
3	103	CE	R		Allergy Code/Mnemonic Description
3.1	7	CM	C		Identifier
3.1.1	7	ID	C		Identifier
3.2	36	ST	C		Text
3.3	6	ST	O		Name of coding system
3.4	7	CM	O		Alternate Identifier
3.4.1	7	ID	O		Alternate Identifier
3.5	36	ST	O		Alternate Text
3.6	6	ST	O		Name of alternate coding system

Seq	Len	Data type	R/O/C	RP/#	Element name
4	?	IS	O		Allergy Severity
5	?	ST	O		Allergy Reaction
6	8	DT	O		Identification Date

Field notes

AL1.1   **Set ID - Allergy**

The Set ID will match what is stored in STAR's database. Therefore, the Set ID may skip numbers in the sequence.

AL1.2   **Allergy Type**

STAR always sends one of the two values below:

MA (sent on Nursing allergies coded or free-form)

DA (sent on Pharmacy coded allergies)

AL1.3   **Allergy Code/Mnemonic Description**

STAR can send Code or Free-text Nursing Allergies as well as Coded Pharmacy Allergies.

AL1.3.1.1   **Identifier**

If a Nursing Allergy Code is sent, the Code is prefixed with the table name 'CAL'.

AL1.3.2   **Text**

STAR allows 'free-form' Nursing Allergies to be entered. Therefore it is possible to send the text without populating the Identifier, but text will always be sent if an allergy is sent.

AL1.3.3   **Name of coding system**

The HBOCHI cross-reference table will be sent first if the allergy sent is a Nursing Coded Allergy. Else, no coding system is sent.

AL1.3.6   **Name of alternate coding system**

The local tables will be sent as the alternate coding system and will be either 99CAL or 99PADR.

DG1 - Diagnosis information

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID - Diagnosis
2	2	ID	R		Diagnosis Code Method
3	8	ID	O		Diagnosis Code
4	33	ST	O		Diagnosis Description
5			NS		Diagnosis Date/Time
6	2	ID	R		Diagnosis/DRG Type
7	163	CE	O		Major Diagnostic Category
7.1	2	CM	C		Identifier
7.1.1	2	ID	C		Identifier
7.2	70	ST	C		Text
7.3	7	ST	C		Name of coding system
7.4	2	CM	O		Alternate identifier
7.4.1	2	ID	O		Alternate identifier
7.5	70	ST	O		Alternate text
7.6	7	ST	O		Name of alternate coding system
8	3	ID	O		Diagnostic related group (DRG)
9			NS		DRG approval indicator
10			NS		DRG grouper review code
11	2	CE	O		Outlier type
11.1	2	CM	R		Identifier
11.1.1	2	ID	R		Identifier
12	6	NM	O		Outlier days
13	12	NM	O		Outlier Cost
14	2	ST	O		Grouper version and type
15	2	NM	C		Diagnosis/DRG priority
16			NS		Diagnosing clinician
17			NS		Diagnosis Classification
18			NS		Confidential Indicator
19			NS		Attestation Date/Time
20			NS		Diagnosis Identifier
21			NS		Diagnosis Action Code
22			NS		Parent Diagnosis
23			NS		DRG CCL Value Code
24			NS		DRG Grouping Usage
25			NS		DRG Diagnosis Determination
26					Present on Admission

Field notes

DG1.1   **Set ID - Diagnosis**

STAR sends the following codes for the associated methods:

Value	Description
I9	ICD9
DS	DSM
FF	Free Form

DG1.2   **Diagnosis Code Method**

For STAR one of the following will be populated: DG1.3, DG1.4 or DG1.8. STAR allows entry of 'Free-Form' diagnoses in Admitting.

DG1.3   **Diagnosis Code**

For STAR one of the following will be populated: DG1.3, DG1.4 or DG1.8

DG1.6   **Diagnosis/DRG Type**

STAR supports the following values:

Value	Description
A	ADT Admitting Diagnosis ADT Principle Diagnosis (DG1.15 = 1) ADT Secondary Diagnosis (DG1.15 = 2 – 98)
W	ADT Working Diagnosis Medical Records DRG diagnosis (DG1.15 = 98)
AM	Medical Records Abstracting Admitting Diagnosis
F	Medical Records Principle Diagnosis Medical Records Secondary Diagnosis Medical Records DRG Diagnosis
VI	Reason for Visit (up to 3 separate DRG segments to support this type); Added with STI M22746

DG1.7.2   **Text**

If no code is present, then text will be populated.

DG1.8   **Diagnostic related group (DRG)**

For STAR one of the following will be populated: DG1.3, DG1.4 or DG1.8

DG1.15   **Diagnosis/DRG priority**

Priority is related to the value in field 6, type, as follows:

- Type 'A' => Priority 0 - 98

- Type 'AM' => Priority Null

- Type 'F' => Priority 1 - 98

- Type 'W' and field 8, DRG, Null => Priority 1

- Type 'W' and field 8 Not Null => 98

DG1.16   **Diagnosing Clinician**

Field is coded as not supported so the delimiter will be sent.

DG1.26   **Present On Admission**

This information is now communicated outbound due to UB04 changes. Field populated from the Medical Records application available with STI M22746.

DSC - Continuation pointer

Seq	Len	Data type	R/O/C	RP/#	Element name
1	10	ST	C	Y	Continuation pointer

EVN - Event type

Seq	Len	Data type	R/O/C	RP/#	Element name
1	3	ID	R		Event type code
2	14	TS	R		Date/time of event
3			NS		Date/time of planned event
4			NS		Event reason code
5	3	ID	O		Operator ID

Field notes

EVN.2   **Date/time of event**

STAR sends the system date/time except for the following cases:

- Backdated Transfers (A02 messages only)

- Patient Demographic & Visit Backload

    – discharge date, if available

    – if not, then admit date, if available;

If neither discharge nor admit date, then

- – 'start date' of the 'range to check patients,' if available

- – if not, then current date/time.

EVN.5   **Operator ID**

If captured, the initials of the operator will be sent.

GT1 - Guarantor

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID - Guarantor
2	26	CM	R	Y/3	Guarantor number
2.1	20	ST	R		Patient ID
2.2			NS		Check digit
2.3			NS		Check digit scheme
2.4	6	ST	R		Assigning facility ID
2.5	2	ID	R		Identifier type code
3	45	PN	R		Guarantor name
3.1	35	ST	R		Family name
3.2	35	ST	R		Given name
3.3	35	ST	O		Middle name or initial
3.4	5	ST	O		Suffix
4			NS		Guarantor spouse name
5	94	AD	R	Y/2	Guarantor address
5.1	25	ST	O		Street address
5.2	25	ST	O		Other designation
5.3	18	ST	O		City
5.4	2	ST	O		State/province
5.5	9	ST	O		Zip/postal code
5.6	2	ID	O		Country
5.7	1	ID	O		Type
5.8	5	ST	O		Other geographic designation
6	18	CM	O		Telecommunications
6.1	18	ST	R		Telephone number - home
7			NS		Guarantor ph num - business
8	8	DT	O		Guarantor date of birth
9	1	ID	O		Guarantor sex
10			NS		Guarantor type
11	1	ID	R		Guarantor relationship

Seq	Len	Data type	R/O/C	RP/#	Element name
12	17	ST	O		Guarantor SSN
13			NS		Guarantor date - begin
14			NS		Guarantor date - end
15	1	NM	R		Guarantor priority
16	71	CE	O		Guarantor employer name
16.1	6	CM	C		Identifier
16.1.1	6	ID	C		Identifier
16.2	20	ST	C		Text
16.3	7	ST	O		Coding system
16.4	6	CM	O		Alternate identifier
16.4.1	6	ID	O		Alternate identifier
16.5	20	ST	O		Alternate text
16.6	7	ST	O		Alternate coding system
17	94	AD	O		Guarantor employer address
17.1	25	ST	O		Street address
17.2	25	ST	O		Other designation
17.3	18	ST	O		City
17.4	2	ST	O		State/province
17.5	9	ST	O		Zip/postal code
17.6	2	ID	O		Country
17.7	1	ID	O		Type
17.8	5	ST	O		Other geographic designation
18	18	TN	O		Guarantor employer ph num
19	15	ST	O		Guarantor employee ID number
20	1	ID	O		Guarantor employment status
21			NS		Guarantor organization
22			NS		Guarantor Billing Hold Flag
23			NS		Guarantor Credit Rating Code
24	8	DT	O		Guarantor Death Date
25	1	IS	O		Guarantor Death Flag
26			NS		Guarantor Change Adjustment Code
27			NS		Guarantor Household Annual Income
28			NS		Guarantor Household Size
29			NS		Guarantor Employee ID
30	3	ID	O		Guarantor Marital Status
31	8	DT	O		Guarantor Hire Effective Date
32	8	DT	O		Guarantor Employment Stop Date
33			NS		Guarantor Living Dependency
34			NS		Guarantor Ambulatory Status
35			NS		Guarantor Citizenship
36	20	CE	O		Guarantor Primary Language

Seq	Len	Data type	R/O/C	RP/#	Element name
37	???	CE	O		Guarantor Living Arrangement
38			NS		Guarantor Publicity Indicator
39			NS		Guarantor Protection Indicator
40			NS		Guarantor Student Indicator
41			NS		Guarantor Religion
42	25	ST	O		Guarantor Mother's Maiden Name
43	???	CE	O		Guarantor Nationality
44			NS		Guarantor Ethnic Group
45			NS		Guarantor Contact Person Name
46			NS		Guarantor Contact Person Phone Number
47			NS		Guarantor Contact Reason
48		CE	NS		Guarantor Contact Person Relationship
49			NS		Guarantor Job Title
50	23	JCC	O		Guarantor Job Code/Class
51	27	CE	O		Guarantor Employer Organization
52			NS		Guarantor Handicap
53			NS		Guarantor Job Status
54			NS		Guarantor Financial Class
55	1	CE	O		Guarantor Race
56	25	ST	O		Guarantor Birthplace
57	3	ID	O		Guarantor VIP Indicator

Field notes

GT1.2   Guarantor number

Corporate number sent as both a PI number and as a GN number. If the enterprise number exists, it is sent in the first repetition.

GT1.2.1   Patient ID

STAR's Guarantor (GN) and Corporate (PI) numbers will always be numeric, no alpha characters. The Enterprise Number (PE) may be alphanumeric. These are the three identifiers that may be sent. STAR's Guarantor and Corporate numbers will always be the same.

GT1.2.4   Assigning facility ID

For Enterprise Person Number with Passport (HNE) this is 'NE'. STAR support assigning authority in this field when STAR is using HBOCHI 2.2b compliant format routine. STAR's assigning authority is set in parameter ~AA and is the concatenation of 'ST' with typically the ID concatenated with the facility when facility specific (MR).

GT1.2.5 **Identifier type code**

STAR supports three Identifier Codes:

Value	Description
PE	Enterprise number if it is known
PI	Person Identifier, which is the same as STAR's Corporate number.
GN	Guarantor number, which is the same as STAR's Corporate number

GT1.3 **Guarantor name**

STAR stores name in a single field using the format Last,First Middle.

Implementation note: The allowable characters in a name is set up in STAR's ~A1 Parameter, Name Edit Pattern Match.

GT1.16.1.1 **Identifier**

STAR can send in 'free-form' employer and does not have to send a coded value.

IAM - Patient adverse reaction information

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID - IAM
2	7	CE	O		Allergen Type Code
2.1	2	ID	O		Identifier
2.2	36	ST	O		Text
2.3	???	ST	O		Name of coding system
2.4		ST	NS		Alternate identifier
2.5		ST	NS		Alternate text
2.6		ST	NS		Name of alternate coding system
3	???	CE	R		Allergen Code / Mnemonic / Description
3.1	11	ID	C		Identifier
3.2	36	ST	R		Text
3.3	8	ST	O		Name of coding system
3.4	11	ID	O		Alternate identifier
3.5	36	ST	O		Alternate text
3.6	5	ST	O		Name of alternate coding system
4	17	CE	O		Allergy Severity Code
4.1	2	ID	O		Identifier
4.2	9	ST	O		Text
4.3	4	ST	O		Name of coding system
4.4		ID	NS		Alternate identifier
4.5		ST	NS		Alternate text

Seq	Len	Data type	R/O/C	RP/#	Element name
4.6		ST	NS		Name of alternate coding system
5	15	ST	O	Y	Allergy Reaction Code
6	7	CNE	R		Allergy Action Code
6.1	1	ID	R		Identifier
6.2	???	ST	O		Text
6.3	???	ST	O		Name of coding system
6.4	???	ID	O		Alternate identifier
6.5	???	ST	O		Alternate text
6.6	???	ST	O		Name of alternate coding system
7	80	EI	R		Allergy Unique Identifier
7.1	20	ST	R		Entity ID
7.2	6	IS	R		Namespace ID
8	60	ST	NS		Action Reason
9	7	CE	O		Sensitivity to Causative Agent Code
9.1	2	ID	R		Identifier
9.2	???	ST	O		Text
9.3	???	ST	O		Name of coding system
9.4		ID	NS		Alternate identifier
9.5		ST	NS		Alternate text
9.6		ST	NS		Name of alternate coding system
10			NS		Allergen Group Code / Mnemonic / Description
11			NS		Onset Date
12	25	ST	O		Onset Date Text
13	8	TS	O		Reported Date/Time
14	250	XPN	O		Reported By
14.1	35	ST	O		Family Name
14.2	35	ST	O		Given Name
14.3	35	ST	O		Middle Name
15	7	CE	O		Relationship to Patient Code
15.1	1	ID	C		Identifier
15.2	???	ST	O		Text
15.3	???	ST	O		Name of coding system
15.4	???	ID	O		Alternate identifier
15.5	???	ST	O		Alternate text
15.6	???	ST	O		Name of alternate coding system
16			NS		Alert Device Code
17	???	CE	O		Clinical Status
17.1	1	ID	C		Identifier
17.2	18	ST	O		Text
17.3	11	ST	O		Name of coding system
17.4			NS		Alternate identifier

Seq	Len	Data type	R/O/C	RP/#	Element name
17.5			NS		Alternate text
17.6			NS		Name of alternate coding system
18	37	XCN	O		Statused by Person
18.1	30	ST	O		ID number
18.2	35	ST	O		Family Name
18.3	35	ST	O		Given Name
18.4	35	ST	O		Middle Name
19	250	XON	NS		Statused by Organization
20	8	TS	O		Statused at Date/Time

Field notes

IAM.1   **Set ID - IAM**

System defined for each allergy entered on a patient.

IAM.2   **Allergen Type Code**

The information sent outbound in this field is captured from the Allergy Detail screen (Field 5- Allergen Type). STAR name of coding system for this data is ALTYP.

STAR will send outbound both the supported HL7 table entries and any system specific codes received inbound.

IAM.2.1   **Identifier**

Allergen Type

STAR supports these Allergen Type Codes.

Value	Description
DA	Drug
MA	Miscellaneous
FA	Food
EA	Environmental

All six fields are populated if we set up the HL7 cross-reference table

IAM.2.4   **Alternate identifier**

Not supported outbound.

IAM.2.5   **Alternate text**

Not supported outbound.

IAM.2.6   Name of alternate coding system

Not supported outbound.

IAM.3   Allergen Code / Mnemonic / Description

Allergen

IAM.3.1   Identifier

Allergen Code

STAR supports these Allergen Codes supported by one of seven different coding systems.

STAR will send outbound any FDB codes defined in the STAR data base as well as any codes accepted inbound from other defined systems.

IAM.3.3   Name of coding system

STAR supports the coding systems:

Value	Description
CHEMNO	Chemical Number
HIC	HIC Sequence Number
AGID	DAM Allergen ID
HICL	HICL Sequence Number
DNID	DNID Number
PADC	PIF Allergen ID
NDC	NDC Number
HC	HC seeded data

IAM.4   Allergy Severity Code

The information sent outbound in the field is captured from the Allergy Detail screen (Field 3 - Severity).

IAM.4.1   Identifier

Allergy Severity

STAR supports four codes as follows.

Value	Description
SV	Severe
MO	Moderate
MI	Mild

Value	Description
U	Unknown

IAM.4.3   **Name of coding system**

STAR name of coding system for this data is: PADR

IAM.4.4   **Alternate identifier**

Not supported outbound

IAM.4.5   **Alternate text**

Not supported outbound

IAM.4.6   **Name of alternate coding system**

Not supported outbound

IAM.5   **Allergy Reaction Code**

Reaction

The information sent outbound in this field is captured from the Allergy Detail Screen (Field 2 - Reaction).

IAM.6   **Allergy Action Code**

A STAR table is needed for this field and a STAR-HL7 Table Cross Reference is needed for this field. HL7 Table 0323

STAR will support all table entries.

IAM.6.1   **Identifier**

Allergy Action Code

IAM.7   **Allergy Unique Identifier**

This field will be used as the unique identifier for the individual allergy on a patient. This field is conditionally required but the McKesson products will ALWAYS have this field as required regardless of data sent in IAM-3.

The format of the data will be a unique number with an indicator of the application that entered the allergy. The originating product will be indicated with the use of the assigning authority.

Example of STAR outbound unique identifier for an allergen added on STAR:
1234^ST01

IAM.7.1   **Entity ID**

System Generated Counter

IAM.7.2   **Namespace ID**

Unique System Identifier

IAM.8   **Action Reason**

Not supported outbound

IAM.9   **Sensitivity to Causative Agent Code**

Category

The information sent outbound in this field is captured from the Allergy Detail screen
(Field 5 - Category).

STAR name of coding system for this data is ALCT

IAM.9.4   **Alternate identifier**

Not supported outbound.

IAM.9.5   **Alternate text**

Not supported outbound.

IAM.9.6   **Name of alternate coding system**

Not supported outbound.

IAM.10   **Allergen Group Code / Mnemonic / Description**

Not supported outbound.

IAM.11   **Onset Date**

Not supported outbound.

IAM.12   **Onset Date Text**

Onset Date

This allows us to get information in the system if the exact onset date is unknown.

IAM.13　　**Reported Date/Time**

　　　　　　Created By

This field contains the date/time the allergy was reported to the caregiver.

The information sent outbound in this field is captured from the Allergy Detail screen (Field 2 - Created by).

IAM.14　　**Reported By**

　　　　　　Reported By

This field contains the name of the person reporting the allergy to a caregiver at the time reported in IAM-13.

The information sent outbound in this field is captured from the Allergy Detail screen (Field 6 - Reported by)

We will populate this field outbound but HC will not be sending any information inbound to STAR.

IAM.15　　**Relationship to Patient Code**

　　　　　　Relationship

IAM.15.1　　**Identifier**

　　　　　　Relationship

The field will be populated with the information from the "REL" table in STAR.

The information sent outbound in this field is captured from the Allergy Detail screen (Field 7 - Relationship)

IAM.16　　**Alert Device Code**

Not supported outbound.

IAM.17.1　　**Identifier**

　　　　　　Clinical Status

STAR supports the following statuses [ALCS]

Value	Description
C	Confirmed
U	Unconfirmed

IAM.17.4   **Alternate identifier**

Not supported outbound.

IAM.17.5   **Alternate text**

Not supported outbound.

IAM.17.6   **Name of alternate coding system**

Not supported outbound.

IAM.18   **Statused by Person**

All systems will send only a name in this segment if the allergy has been verified/confirmed. This is not be confused with the person who may have made other changes to the allergen information. The person making changes to other allergen information for the current activity will be tracked in the EVN segment of the A60 message. This field identifies the provider who assigned the *clinical status (IAM-17)* to the allergy. Since we are not populating the IAM-19, can we populate the assigning authority for this field so that we can identify which system entered the status change.?

This field will be populated only when a status is changed.

IAM.18.1   **ID number**

ID code

IAM.18.2   **Family Name**

Last Name

IAM.18.3   **Given Name**

First Name

IAM.18.4   **Middle Name**

Middle Name

IAM.19   **Statused by Organization**

Not supported outbound.

IAM.20   **Statused at Date/Time**

This field contains the date/time that this allergy was last statused by the IAM-18 person in the IAM-19 organization.

IN1 - Insurance information

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID - Insurance
2	3	ID	R		Insurance plan ID
3	3	ST	R		Insurance company ID
4	33	ST	R		Insurance company name
5	94	AD	O		Insurance company address
5.1	25	ST	O		Street address
5.2	25	ST	O		Other designation
5.3	18	ST	O		City
5.4	2	ST	O		State/province
5.5	9	ST	O		Zip/postal code
5.6	2	ID	O		Country
5.7			NS		Type
6	36	PN	O		Ins company contact person
6.1	25	ST	O		Family name
6.2	25	ST	O		Given name
6.3	25	ST	O		Middle name or initial
7	18	TN	O		Ins company phone number
8	17	ST	O		Group number
9	30	ST	O		Group name
10			NS		Insured's group emp ID
11	71	CE	O		Insured's group emp name
11.1	6	CM	C		Identifier
11.1.1	6	ID	C		Identifier
11.2	20	ST	C		Text
11.3	7	ST	O		Coding system
11.4	6	CM	O		Alternate identifier
11.4.1	6	ID	O		Alternate identifier
11.5	20	ST	O		Alternate text
11.6	7	ST	O		Name of alternate coding system
12	8	DT	O		Plan effective date
13	8	DT	O		Plan expiration date
14	55	CM	O		Authorization information
14.1	15	ST	O		Authorization number
14.2	8	DT	O		Date

Seq	Len	Data type	R/O/C	RP/#	Element name
14.3	28	ST	O		Source
15	1	ID	O		Plan type
16	42	PN	R		Name of insured
16.1	35	ST	R		Family name
16.2	35	ST	O		Given name
16.3	35	ST	O		Middle name or initial
17			NS		Relationship to patient
18	8	DT	O		Insured's date of birth
19	94	AD	O		Insurance company address
19.1	25	ST	O		Street address
19.2	25	ST	O		Other designation
19.3	18	ST	O		City
19.4	2	ST	O		State/province
19.5	9	ST	O		Zip/postal code
19.6	2	ID	O		Country
19.7	1	ID	O		Type
19.8	5	ST	O		Other geographic designation
20			NS		Assignment of benefits
21			NS		Coordination of benefits
22	1	ST	O		Coord. of benefits priority
23	2	ID	O		Notice of admission code
24			NS		Notice of admission date
25			NS		Report of eligibility code
26			NS		Report of eligibility date
27			NS		Release information code
28			NS		Pre-admit cert (PAC)
29	12	TS	O		Verification date/time
30	30	CN	O		Verification by
30.1			NS		ID number
30.2	25	ST	O		Family name
30.3	25	ST	O		Given name
30.4	25	ST	O		Middle name or initial
31			NS		Type of agreement code
32			NS		Billing status
33			NS		Lifetime reserve days
34			NS		Delay before life reserve day
35	???	???	O		Company plan code
36	22	ST	O		Policy number
37			NS		Policy deductible
38			NS		Policy limit - amount
39	3	NM	O		Policy limit - days

Seq	Len	Data type	R/O/C	RP/#	Element name
40			NS		Room rate - semi-private
41			NS		Room rate - private
42	63	CE	O		Insured's group emp name
42.1	1	CM	R		Identifier
42.1.1	1	ID	R		Identifier
42.2	19	ST	R		Text
42.3	7	ST	R		Coding system
42.4	1	CM	O		Alternate identifier
42.4.1	1	ID	O		Alternate identifier
42.5	19	ST	O		Alternate text
42.6	7	ST	O		Name of alternate coding system
43	1	ID	O		Insured's sex
44	94	AD	O		Insured's employer address
44.1	25	ST	O		Street address
44.2	25	ST	O		Other designation
44.3	18	ST	O		City
44.4	2	ST	O		State/province
44.5	9	ST	O		Zip/postal code
44.6	2	ID	O		Country
45			NS		Verification status
46			NS		Prior insurance plan ID

Field notes

IN1.3   **Insurance company ID**

STAR's Insurance Company ID comes from the Insurance Carrier table, which allows only numeric values.

IN1.5.7   **Type**

STAR supports only one address on Insurance Company, so no type is sent.

IN1.16   **Name of insured**

STAR supports Last,First Middle in a single 37 byte field.

IN1.19   **Insurance company address**

The address sent is based on the address for the person identified in STAR's 'Same As' field on the insurance screen. Therefore if the Insured is 'Same As' the Patient, or Guarantor, or Relative, then the address of this person is sent.

IN1.19.7 **Type**

Valid address types from STAR include:

Value	Description
P	Permanent - STAR's Mailing Address
C	Current - STAR's Alternate Address

IN1.22 **Coord. of benefits priority**

The Coordination of Benefits Priority will also be used in the set ID.

IN1.30 **Verification by**

STAR supports Last,First Mi in a single 25 byte field.

IN1.42.3 **Coding system**

If the Insured's Employment Status is populated, the HL7 cross-reference table will be sent first - HL70066.

IN2 - Insurance information - additional information

Seq	Len	Data type	R/O/C	RP/#	Element name
1	15	ST	O		Insured's employee ID
2	11	ST	O		Insured's SSN
3			NS		Insured's employer name
4	1	ID	O		Employer information data
5	1	IS	NS		Mail claim party
6	20	ST	O		Medicare health insurance card number
7	30	PN	O		Medicaid case name
7.1	30	ST	O		Family name
7.2	30	ST	O		Given name
7.3	30	ST	O		Middle name or initial
8	17	ST	O		Medicaid case number
9	42	PN	O		Champus sponsor name
9.1	35	ST	O		Family name
9.2	35	ST	O		Given name
9.3	35	ST	O		Middle name or initial
10	20	ST	O		Champus ID number
11	1	ID	O		Dependent of champus recipient
12	25	ST	O		Champus organization
13			NS		Champus station
14	5	ID	O		Champus service

Seq	Len	Data type	R/O/C	RP/#	Element name
15	4	ID	O		Champus rank/grade
16	3	ID	O		Champus status
17			NS		Champus retire date
18			NS		Champus non-avail cert on file
19			NS		Baby coverage
20			NS		Combine baby bill
21			NS		Blood deductible
22			NS		Spec coverage approval name
23			NS		Spec coverage approval title
24			NS		Non-covered insurance code
25			NS		Payor ID
26			NS		Payor subscriber ID
27			NS		Eligibility source
28			NS		Room coverage type/amount
29			NS		Policy type/amount
30			NS		Daily deductible
31			NS		Living dependency
32			NS		Ambulatory status
33			NS		Citizenship
34			NS		Primary language
35			NS		Living arrangement
36			NS		Publicity indicator
37			NS		Protection indicator
38			NS		Student indicator
39			NS		Religion
40			NS		Mother's maiden name
41			NS		Nationality
42			NS		Ethnic group
43			NS		Marital status
44			NS		Insured's employment start date
45			NS		Insured's employment stop date
46			NS		Job title
47			NS		Job code/class
48			NS		Job status
49			NS		Employer contact person's name
50			NS		Employer contact person's phone number
51			NS		Employer contact reason
52			NS		Insured's contact person's name
53			NS		Insured's contact person's telephone number
54			NS		Insured's contact person reason
55			NS		Relationship to the patient start date

Seq	Len	Data type	R/O/C	RP/#	Element name
56			NS		Relationship to the stop date
57			NS		Insurance co. contact reason
58			NS		Insurance co. contact phone number
59			NS		Policy scope
60			NS		Policy source
61			NS		Patient member number
62			NS		Guarantor's relationship to the insured
63			NS		Insured's telephone number - home
64	18	TN	O		Insured's employer telephone number
65			NS		Military handicapped program
66			NS		Suspend flag
67			NS		Copay limit flag
68			NS		Stoploss limit flag
69			NS		Insured organization name and ID
70			NS		Insured employer organization name & ID
71			NS		Race
72	28	CE	O		HCFA Patient relationship to insured
72.1	2	CM	C		Identifier
72.1.1	2	ID	C		Identifier
72.2	19	ST	C		Text
72.3	5	ST	C		Name of coding system

Field notes

IN2.7   **Medicaid case name**

This is Case Name on STAR's Medicaid insurance screen.

STAR supports Last,First Middle in a single 30 byte field. However, a single name of 30 characters could be entered.

IN2.9   **Champus sponsor name**

This is Insured Name on STAR's Champus Insurance screen. STAR supports Last,First Middle in a single 37 byte field.

IN2.11   **Dependent of champus recipient**

This is Dependent on STAR's Champus Insurance screen. This is a Yes/No field.

IN2.72.3   **Name of coding system**

STAR uses the local table and therefore sends 99IRE in this field.

IN3 - Insurance information - certification

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID - Insurance certification
2			NS		Certification number
3			NS		Certified by
4			NS		Certification required
5			NS		Penalty
6			NS		Certification date/time
7			NS		Certification modify date/time
8			NS		Operator
9			NS		Certification begin date
10			NS		Certification end date
11			NS		Days
12			NS		Non-concur code/description
13			NS		Non-concur effective date/time
14			NS		Physician reviewer
15			NS		Certification contact
16			NS		Certification contact phone number
17			NS		Appeal reason
18			NS		Certification agency
19			NS		Certification agency phone number
20			NS		Pre-certification req/window
21			NS		Case manager
22			NS		Second opinion date
23	1	ID	O		Second opinion status
24			NS		Second opinion doc received
25			NS		Second opinion practitioner

Field notes

IN3.23　　　　**Second opinion status**

This is the 2nd Opinion field on STAR's Insurance approval screens. This is a Yes/No field.

MFE - Master file entry

Seq	Len	Data type	R/O/C	RP/#	Element name
1	3	ID	R		Record level event code
2			NS		MFN Control ID
3	12	TS	R		Effective date/time

Seq	Len	Data type	R/O/C	RP/#	Element name
4	156	CE	R	Y	Primary key value
4.1	26	CM	R		Identifier
4.1.1	26	ID	R		Identifier
4.1.2	4	ST	O		Application ID
4.2	37	ST	R		Text
4.3	7	ST	R		Coding system
4.4	26	CM	O		Alternate identifier
4.4.1	26	ID	O		Alternate identifier
4.4.2	4	ST	O		Alternate application ID
4.5	37	ST	O		Alternate text
4.6	7	ST	O		Name of alternate coding system

MFI - Master file identification

Seq	Len	Data type	R/O/C	RP/#	Element name
1	99	CE	R		Master file identifiers
1.1	7	CM	R		Identifier
1.1.1	7	ID	R		Identifier
1.2	33	ST	R		Text
1.3	7	ST	R		Coding system
1.4	7	CM	O		Alternate identifier
1.4.1	7	ID	O		Alternate identifier
1.5	33	ST	O		Alternate text
1.6	7	ST	O		Name of alternate coding system
2	3	ID	C		Master file application identifier
3	3	ID	R		File level event code
4			NS		Entered date/time
5	12	TS	R		Effective date/time
6	2	ID	R		Response level code

Field notes

MFE.2 **Master file application identifier**

STAR populates this field with department for department split tables. Otherwise this is empty.

MRG - Merge patient information

Seq	Len	Data type	R/O/C	RP/#	Element name
1	19	CM	C	Y	Prior Patient ID - Internal
1.1	12	ST	R		Patient ID
1.2			NS		Check digit
1.3			NS		Check digit scheme
1.4	1	ID	R		Assigning facility ID
1.5	2	ID	R		Type
2			NS		Prior alternate patient ID
3	16	CK	C		Prior patient account number
3.1	12	ST	R		ID number
3.2			NS		Check digit
3.3			NS		Check digit scheme
3.4	1	ID	R		Assigning facility ID
4	20	CK	C		Prior patient ID - external
4.1	20	ST	R		ID number
4.2			NS		Check digit
4.3			NS		Check digit scheme
4.4			NS		Assigning facility ID
4.7	3	ST	R		Type

Field notes

MRG.1　　**Prior Patient ID - Internal**

This field is not sent on the MRG segments in an A06 or A07. It is not needed for Change Patient Type.

MRG.1.4　　**Assigning facility ID**

STAR support assigning authority in this field when STAR is using HBOCHI 2.2b compliant format routine. STAR's assigning authority is set in parameter ~AA and is the concatenation of 'ST' with typically the ID concatenated with the facility when facility specific (MR).

MRG.1.5　　**Type**

STAR supports 'PI' for person identifier (corporate number) and 'MR' for the medical record (unit number).

MRG.3　　**Prior patient account number**

This field will always be populated on A06 and A07 messages when the interface is set up for a hospital operating in Ontario or Nova Scotia, Canada.

MRG.4   **Prior patient ID - external**

STAR will send the Enterprise number if available. If an Enterprise number has not been stored, this field is not sent.

MRG.4.1   **ID number**

STAR will send the Enterprise number if available. If an Enterprise number has not been stored, this field is not sent.

MRG.4.7   **Type**

STAR supports the 'PE', Person Enterprise number type only.

MSH - Message segment header

Seq	Len	Data type	R/O/C	RP/#	Element name
1	1	ST	R		Field Separator
2	4	ST	R		Encoding Characters
3	15	CM	R		Sending Application
4	1	ST	R	Y	Sending Facility
5	15	ST	C		Receiving Application
6	1	ST	C		Receiving Facility
7	14	TS	R		Date/Time of Message
8	2	ST	C		Security
9	7	CM	R		Message Type
9.1	3	ID	R		Message Type
9.2	3	ID	R		Trigger Event
10	20	ST	R		Message Control ID
11	1	ID	R		Processing ID
12	3	ID	R		Version ID
13	15	CM	O		Sequence Number
14			NS		Continuation Pointer
15	2	ID	R		Accept Acknowledge Type
16			NS		Application Acknowledge Type
17			NS		Country Code
18			NS		Character Set
19			NS		Principle Language of Message
20			NS		Organization
21			NS		Plant
22	4	ID	R	N	HBOCHI Version ID

Field notes

MSH.1   **Field Separator**

STAR uses the colon (:) and not the pipe (|) as the field separator in outbound HL7 messages.

MSH.2   **Encoding Characters**

STAR uses the following encoding characters: the semicolon (;), tilde (~), backslash (\), and ampersand (&).

MSH.3   **Sending Application**

An implementation step is required for this field to be sent.

The Sending Application is what is defined in the parameter ~AA, else the "Sending Application" as defined in the Communication Line definition is used. If neither is filed, nothing is sent.

MSH.4   **Sending Facility**

The Sending Facility field represents the facility from which the message was triggered. If the message is triggered where multiple facilities could be represented, then the first facility found is sent in the message.

MSH.5   **Receiving Application**

Conditionality rule: Sent only when required for a Query Request message.

The "Receiving Application" is defined for the query when the Query Communication Line is and Supported Defined.

MSH.6   **Receiving Facility**

Conditionality rule: Sent only when required for a Query Request message.

The "Receiving Facility" is defined for the query in the Query Builder.

MSH.7   **Date/Time of Message**

STAR sends date/time the message is formatted.

MSH.8   **Security**

Conditionality rule: Sent only on Query Request for Lab Results

MSH in R02, deferred query response

The MSH.8, in R02, Deferred Query Request messages is the only outbound use of this field. To date, this is the only trigger in which STAR populates the MSH.8 in its 2.2b outbound. The STAR security level of the person performing the query is sent. The security level in this field is evaluated by the responding system to determine which results may be sent in the response.

This allows the laboratory (responding) system, owner of the results, control over those allowed to view results the same as if the results were being viewed directly on the laboratory system.

The security tables in both STAR and the responding laboratory system must be coordinated. This is a manual process. Security levels do not necessarily have the same values on both systems, as is the case with Pathways Lab and STAR. For this reason, it is critical to have the laboratory staff evaluate the correlation of security levels on STAR Hospital Employee and Physician files with the laboratory result files. Please read the implementation notes on *Security* closely.

MSH.10   **Message Control ID**

STAR sends a unique number for the interface out to identify the message being sent.

If this is the MSH on an acknowledgement, we send the same Message Control ID in the Acknowledgement as sent in the MSA.

MSH.11   **Processing ID**

STAR sends a "T" for Test if this is from any ID on the STAR CPU other than the production ID.

From the production ID, STAR always sends a "P" in this field.

From the "test ID" (2), STAR always sends a "D" in this field.

MSH.12   **Version ID**

STAR always sends an HL7 version outbound. For STAR's 2.2b interfaces, this number will always be 2.2

MSH.13   **Sequence Number**

Currently, STAR does not support Sequence number processing. STAR sends the same number outbound in this field as sent in MSH.10, Message Control ID.

MSH.14   **Continuation Pointer**

Not supported outbound.

MSH.15   **Accept Acknowledge Type**

STAR always sends "AL" for "Always".

MSH.16   **Application Acknowledge Type**

Not supported outbound.

MSH.17   **Country Code**

Not supported outbound.

MSH.18   **Character Set**

Not supported outbound.

MSH.19   **Principle Language of Message**

Not supported outbound.

MSH.20   **Organization**

Not supported outbound.

MSH.21   **Plant**

Not supported outbound.

MSH.22   **HBOCHI Version ID**

STAR always sends 2.2b in this field for its HBOCHI compliant interface.

NK1 - Next of kin

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID - next of kin
2	37	PN	R		Name

Seq	Len	Data type	R/O/C	RP/#	Element name
2.1	35	ST	R		Family name
2.2	35	ST	R		Given name
2.3	25	ST	O		Middle name or initial
3	59	CE	O		Relationship
3.1	1	CM	C		Identifier
3.1.1	1	ID	C		Identifier
3.2	19	ST	C		Text
3.3	7	ST	O		Name of coding system
3.4	1	CM	O		Alternate identifier
3.5	19	ST	O		Alternate text
3.6	7	ST	O		Name of alternate coding system
4	94	AD	O		Address
4.1	25	ST	O		Street address
4.2	25	ST	O		Other designation
4.3	18	ST	O		City
4.4	2	ST	O		State/province
4.5	9	ST	O		Zip/postal code
4.6	2	ID	O		Country
4.7	1	ID	O		Type
4.8	5	ST	O		Other geographic designation
5	18	TN	O	Y	Phone number
6	18	TN	O		Business phone number
7	4	???	C		Contact role
8			NS		Start date
9			NS		End date
10			NS		Next of kin job title
11	30	CM	O		Next of kin job code/class
11.1	3	ID	O		Job code
11.2			NS		Employee classification
11.3	25	ST	O		Textual job description
12	15	ST	O		Next of kin employee number
13	71	CE	O		Organization name
13.1	6	CM	C		Identifier
13.1.1	6	ID	C		Identifier
13.2	20	ST	C		Text
13.3	7	ST	O		Name of coding system
13.4	6	CM	O		Alternate identifier
13.4.1	6	ID	O		Alternate identifier
13.5	20	ST	O		Alternate text
13.6	7	ST	O		Alternate coding system
14	???	???	???		Next of Kin Marital Status

Seq	Len	Data type	R/O/C	RP/#	Element name
15	???	???	???		Next of Kin Sex
16	???	???	???		Next of Kin Date/Time of Birth
17			NS		Next of Kin Living Dependency
18			NS		Next of Kin Ambulatory Status
19			NS		Next of Kin Citizenship
20			NS		Next of Kin Primary Language
21			NS		Next of Kin Living Arrangement
22			NS		Next of Kin Publicity Indicator
23			NS		Next of Kin Protection Indicator
24			NS		Next of Kin Student Indicator
25			NS		Next of Kin Religion
26			NS		Next of Kin Mother's Maiden Name
27			NS		Next of Kin Nationality
28			NS		Next of Kin Ethnic Group
29			NS		Next of Kin Contact Reason
30			NS		Next of Kin Contact Person's Name
31			NS		Next of Kin Contact Person's Telephone Number
32			NS		Next of Kin Contact Person's Address
33	???	???	???		Next of Kin Next of Kin/Associated Party's Identifiers
34	???	???	???		Next of Kin Job Status
35			NS		Next of Kin Race
36			NS		Next of Kin Handicap
37	???	???	???		Next of Kin Contact Person Social Security Number

Field notes

NK1.2   **Name**

STAR sends Last,First Middle initial for a total of 37 bytes. A pattern match is used and the Last and at least First initial required.

NK1.3.1   **Identifier**

Either code or text will be sent.

NK1.4.7   **Type**

Valid address types from STAR include:

Value	Description
P	Permanent - STAR's Mailing Address
C	Current - STAR's Alternate Address

NK1.13.1   Identifier

Either code or text will be sent.

NPU - Non-patient update

Seq	Len	Data type	R/O/C	RP/#	Element name
1	25	CM	R		Bed location
1.1	3	ID	O		Nurse unit
1.2	4	ID	O		Room
1.3	8	ID	O		Bed
1.4	1	ID	O		Facility ID
1.5	3	ID	O		Bed status
2	3	ID	C		Bed status

Field notes

NPU.2   Bed status

If NPU.1.5 (bed status) is populated, this field will also be populated.

NTE - Notes and comments

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID - notes and comments
2	1	ID	R		Source of comment
3	76	FT	R		Comment

Field notes

NTE.2   Source of comment

STAR sends an 'L' for a Lab or Rad when the comment was made form the ancillary departments and a 'P' when sent from Order Management.

OBR - Observation request (order)

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID - Observation request
2	22	CM	C		Placer order number
2.1	16	ST	R		Unique placer ID

Seq	Len	Data type	R/O/C	RP/#	Element name
2.2	5	ID	R		Placer application ID
3	36	CM	C		Filler order number
3.1	30	ST	R		Unique filler ID
3.2	5	ID	R		Filler application ID
4	107	CE	R		Universal service ID
4.1	10	CM	R		Identifier
4.1.1	5	ID	R		Identifier
4.1.2	4	ST	R		Application ID
4.2	35	ST	R		Text
4.3	9	ST	R		Coding system name
4.4	10	CM	NS		Alternate identifier
4.4.1	5	ID	NS		Alternate identifier
4.4.2	4	ST	NS		Alt. application ID
4.5	33	ST	NS		Alternate text
4.6	7	ST	NS		Alt. coding/system name
5			NS		Priority
6			NS		Requested date/time
7	12	TS	C		Observation date/time
8			NS		Observation end date/time
9			NS		Collection volume
10			NS		Collector identifier
11	1	ID	O		Specimen action code
12			NS		Danger code
13	73	ST	O		Relevant clinical information
14	12	TS	C		Specimen received date/time
15	122	CM	O		Specimen source
15.1	67	CE	O		Specimen source name or code
15.1.1	3	CM	R		Identifier
15.1.1.1	3	ID	R		Identifier
15.1.1.2			NS		Application ID
15.1.2	20	ST	R		Text
15.1.3	7	ST	R		Coding system
15.1.4	8	CM	O		Alternate identifier
15.1.4.1	3	ID	O		Alternate identifier
15.1.4.2			NS		Alternate application ID
15.1.5	20	ST	O		Alternate text
15.1.6	7	ST	O		Alternate coding system
15.2			NS		Additives
15.3			NS		Free text
15.4	13	CE	O		Body site
15.4.1			NS		Identifier

Seq	Len	Data type	R/O/C	RP/#	Element name
15.4.2	12	ST	R		Text
15.4.3			NS		Coding system
15.4.4			NS		Alternate identifier
15.4.5			NS		Alternate text
15.4.6			NS		Alternate coding system
15.5	7	CE	O		Site modifier
15.5.1	1	CM	R		Identifier
15.5.1.1	1	ID	R		Identifier
15.5.1.2			NS		Application ID
15.5.2	5	ST	R		Text
15.5.3			NS		Coding system
15.5.4			NS		Alternate identifier
15.5.5			NS		Alternate text
15.5.6			NS		Alternate coding system
16	56	CN	O		Ordering provider
16.1	6	ST	C		ID number
16.2	33	ST	C		Family name
16.3	33	ST	O		Given name
16.4	33	ST	O		Middle name or initial
16.5			NS		Suffix
16.6			NS		Prefix
16.7	3	ST	O		Degree
16.8	7	ID	O		Source table
17	15	TN	O		Order callback phone number
18	15	ST	O		Placer field 1
19	15	ST	O		Placer field 2
20	12	ST	O		Filler field 1
21	15	ST	O		Filler field 2
22			NS		Result rpt/status change - date/time
23			NS		Charge to practice
24			NS		Diagnostic service section ID
25	1	ID	O		Result status
26			NS		Parent result
27	444	TQ	O		Quantity/timing
27.1	9	CQ	O		Quantity
27.1.1	9	NM	O		Quantity
27.1.2			NS		Units
27.2	87	CM	O		Interval
27.2.1	6	ID	O		Repeat pattern
27.2.2	80	ST	O		Explicit time interval
27.3	10	ST	O		Duration

Seq	Len	Data type	R/O/C	RP/#	Element name
27.4	12	TS	O		Start date/time
27.5	12	TS	O		End date/time
27.6	5	ID	O		Priority
27.7	250	ST	O		Condition
27.8	50	TX	O		Text
27.9			NS		Conjunction
27.10			NS		Order sequencing
28	56	CN	O		Result copies to
28.1	6	ST	C		ID number
28.2	33	ST	C		Family name
28.3	33	ST	O		Given name
28.4	33	ST	O		Middle name or initial
28.5			NS		Suffix
28.6			NS		Prefix
28.7	3	ST	O		Degree
28.8	7	ID	O		Source table
29	21	CM	O		Parent number
29.1	21	CM	O		Parent's placer order number
29.1.1	15	ST	R		Parent's unique placer ID
29.1.2	5	ID	R		Parent's placer application ID
29.2			NS		Parent's filler order number
30	10	ID	O		Transportation mode
31	40	CE	O		Reason for study
31.1	8	CM	C		Identifier
31.1.1	8	ID	C		Identifier
31.2	33	ST	R		Text
31.3	2	ST	O		Name of coding system
32	60	CM	C		Principle result interpreter
32.1	54	CN	O		Result interpreter
32.1.1	6	ST	C		ID number
32.1.2	33	ST	C		Family name
32.1.3	33	ST	O		Given name
32.1.4	33	ST	O		Middle name or initial
32.1.5			NS		Suffix
32.1.6			NS		Prefix
32.1.7	3	ST	O		Degree
32.1.8	7	ID	O		Source table
32.2			NS		Start date/time
32.3			NS		End date/time
32.4			NS		Location
33			NS		Assistant result interpreter

Seq	Len	Data type	R/O/C	RP/#	Element name
34			NS		Technician
35			NS		Transcriptionist
36			NS		Schedule date/time

Field notes

OBR.2   **Placer order number**

```
Will have value in either OBR.2 or OBR.3. If ORM is in response
to an inbound 2.2b ORM where ORC.1="SN" (Send Number) and the
OBR.2 is null, STAR will assign the placer order number and send
it back in an ORM. ORC.1 will be "NA", Number Assignment.
```

OBR.3   **Filler order number**

Will have a value in either OBR.2 or OBR.3. The filler number is always sent on STAR Lab and Radiology orders.

OBR.7   **Observation date/time**

This field is populated when available from STAR Lab.

OBR.14   **Specimen received date/time**

This is conditionally sent if the STAR status is 'Spec Recd'.

OBR.16.1   **ID number**

If no doctor code is provided, then the name will be populated.

OBR-R - Observation request (result)

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	C		Set ID - Observation request
2	21	CM	C		Placer order number
2.1	16	ST	R		Unique placer ID
2.2	5	ID	R		Placer application ID
3	36	CM	C		Filler order number
3.1	30	ST	R		Unique filler ID
3.2	5	ID	R		Filler application ID
4	52	CE	C		Universal service ID
4.1	10	CM	C		Identifier
4.1.1	5	ID	C		Identifier

Seq	Len	Data type	R/O/C	RP/#	Element name
4.1.2	4	ST	C		Application ID
4.2	33	ST	C		Text
4.3	7	ST	C		Name of coding system
5			NS		Priority
6			NS		Requested date/time
7	12	TS	O		Observation date/time
8	12	TS	O		Observation end date/time
9	11	CQ	O		Collection volume
9.1	8	NM	C		Quantity
9.2	2	CE	C		Units
9.2.1	2	CM	C		Identifier
9.2.1.1	2	ID	C		Identifier
9.2.1.2	2	ST	NS		Application ID
10	33	CE	O		Collector Identifier
10.1	4	ID	O		ID number
10.2	20	ST	O		Family name
10.3	7	ST	O		Given name
10.4			NS		Middle name or initial
10.5			NS		Suffix
11			NS		Specimen action code
12			NS		Danger code
13			NS		Relevant clinical information
14			NS		Specimen received date/time
15	91	CM	O		Specimen source
15.1	67	CE	O		Specimen source name or code
15.1.1	8	CM	R		Identifier
15.1.1.1	3	ID	R		Identifier
15.1.1.2	4	ST	R		Application ID
15.1.2	20	ST	R		Text
15.1.3	7	ST	R		Coding system
15.1.4			NS		Alternate identifier
15.1.5			NS		Alternate text
15.1.6			NS		Alternate coding system
15.2			NS		Additives
15.3			NS		Free text
15.4	13	CE	O		Body site
15.4.1			NS		Identifier
15.4.2	12	ST	R		Text
15.4.3			NS		Coding system
15.4.4			NS		Alternate identifier
15.4.5			NS		Alternate text

Seq	Len	Data type	R/O/C	RP/#	Element name
15.4.6			NS		Alternate coding system
15.5	7	CE	O		Site modifier
15.5.1	1	CM	R		Identifier
15.5.1.1	1	ID	R		Identifier
15.5.1.2			NS		Application ID
15.5.2			NS		Text
15.5.3			NS		Coding system
15.5.4			NS		Alternate identifier
15.5.5			NS		Alternate text
15.5.6			NS		Alternate coding system
16	56	CN	O		Ordering provider
16.1	6	ST	C		ID number
16.2	33	ST	C		Family name
16.3	33	ST	C		Given name
16.4	33	ST	C		Middle name or initial
16.5			NS		Suffix
16.6			NS		Prefix
16.7	3	ST	C		Degree
16.8	7	ID	C		Source table
17			NS		Order callback phone number
18			NS		Placer field 1
19			NS		Placer field 2
20			NS		Filler field 1
21			NS		Filler field 2
22	12	TS	O		Result rpt/status change - date/time
23			NS		Charge to practice
24	25	ID	O		Diagnostic service section ID
25	1	ID	O		Result status
26			NS		Parent result
27			NS		Quantity/timing
28	56	CN	O		Result copies to
28.1	6	ST	C		ID number
28.2			NS		Family name
28.3			NS		Given name
28.4			NS		Middle name or initial
28.5			NS		Suffix
28.6			NS		Prefix
28.7			NS		Degree
28.8	7	ID	O		Source table
29	21	CM	O		Parent number
29.1	21	CM	O		Parent's placer order number

Seq	Len	Data type	R/O/C	RP/#	Element name
29.1.1	15	ST	R		Parent's unique placer ID
29.1.2	5	ID	R		Parent's placer application ID
29.2			NS		Parent's filler order number
30	10	ID	O		Transportation mode
31	45	CE	O		Reason for study
31.1	8	CM	C		Identifier
31.1.1	8	ID	C		Identifier
31.1.2			NS		Application ID
31.2	33	ST	R		Text
31.3	2	ST	C		Name of coding system
32	60	CM	O		Principle result interpreter
32.1	54	CN	O		Result interpreter
32.1.1	6	ST	C		ID number
32.1.2	33	ST	C		Family name
32.1.3	33	ST	C		Given name
32.1.4	33	ST	C		Middle name or initial
32.1.5	6	ST	C		Suffix
32.1.6			NS		Prefix
32.1.7	3	ST	O		Degree
32.1.8	5	ID	O		Source table
32.2			NS		Start date/time
32.3			NS		End date/time
32.4			NS		Location
33			NS		Assistant result interpreter
34	60	CM	O		Technician
34.1	60	CN	O		Technician
34.1.1	15	ST	C		ID number
34.1.2	28	ST	C		Family name
34.1.3	28	ST	C		Given name
34.1.4	28	ST	C		Middle name or initial
34.1.5			NS		Suffix
34.1.6			NS		Prefix
34.1.7			NS		Degree
34.1.8	7	ID	C		Source table
34.2			NS		Start date/time
34.3			NS		End date/time
34.4			NS		Location
35	66	CM	O		Transcriptionist
35.1	66	CN	O		Transcriptionist
35.1.1	15	ST	C		ID number
35.1.2	28	ST	C		Family name

Seq	Len	Data type	R/O/C	RP/#	Element name
35.1.3	28	ST	C		Given name
35.1.4	28	ST	C		Middle name or initial
35.1.5	6	ST	C		Suffix
35.1.6			NS		Prefix
35.1.7			NS		Degree
35.1.8	7	ID	R		Source table
35.2			NS		Start date/time
35.3			NS		End date/time
35.4			NS		Location
36			NS		Scheduled date/time

Field notes

OBR.1   **Set ID - Observation request**

Set ID is always sent from Lab and Rad, but is not always sent on Nursing Notes result.

OBR.2   **Placer order number**

Always sent on Nursing Notes and Lab results. Not always sent on Rad results.

OBR.3   **Filler order number**

Filler Order Number is always sent with Nursing Notes results. It may not be sent with Lab and Rad results (specific conditions in these two applications not identified).

OBR.15   **Specimen source**

Optionally sent on Lab and Rad results. Never used in Nursing Notes result.

OBR.16.1   **ID number**

If no doctor code is provided, then the name will be populated.

OBR.29   **Parent number**

Optionally sent on Nursing Notes result. Never sent on Lab or Rad results.

OBR.34   **Technician**

Never sent on Nursing Notes or Lab results. Optionally sent on Rad results. Rad supports free text override name, so either code and name, or name will be sent.

OBR.35   **Transcriptionist**

Never sent on Nursing Notes or Lab results. Optionally sent on Rad results. Rad supports free text override name, so either code and name, or name will be sent.

OBX - Observation/result (order)

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID - Observation Simple
2	2	ID	R		Value type
3	115	CE	R		Observation identifier
3.1	31	CM	R		Identifier
3.1.1	26	ID	R		Identifier
3.1.2			NS		Application ID
3.2	75	ST	O		Text
3.3	7	ST	O		Name of coding system
3.4			NS		Alternate identifier
3.5			NS		Alternate identifier
3.6			NS		Name of alternate coding system
4	20	ST	R		Observation Sub-ID
5	64000	*	R		Observation value
6			NS		Units
7			NS		References range
8			NS		Abnormal flags
9			NS		Probability
10			NS		Nature of abnormal test
11	2	ID	R		Observ result status
12			NS		Date last obs normal values
13			NS		User defined access checks
14			NS		Date/time of the observation
15			NS		Producer's ID
16			NS		Responsible observer

OBX-R - Observation/result (result)

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID - Observation Simple
2	2	ID	C		Value type
3	115	CE	C		Observation identifier
3.1	31	CM	C		Identifier
3.1.1	26	ID	C		Identifier

Seq	Len	Data type	R/O/C	RP/#	Element name
3.1.2	4	ST	C		Application ID
3.2	75	ST	O		Text
3.3	7	ST	O		Name of coding system
3.4			NS		Alternate identifier
3.5			NS		Alternate identifier
3.6			NS		Name of alternate coding system
4	20	ST	R		Observation Sub-ID
5	64000	*	C		Observation value
6	8	CE	O		Units
6.1	8	CM	R		Identifier
6.1.1	8	ID	R		Identifier
6.1.2			NS		Application ID
6.2			NS		Text
6.3			NS		Name of coding system
6.4			NS		Alternate identifier
6.5			NS		Alternate identifier
6.6			NS		Name of alternate coding system
7	135	ST	O		References range
8	2	ID	O	Y	Abnormal flags
9			NS		Probability
10	1	ID	O		Nature of abnormal test
11	2	ID	C		Observ result status
12			NS		Date last obs normal values
13			NS		User defined access checks
14	12	TS	O		Date/time of the observation
15			NS		Producer's ID
16	60	CN	O		Responsible observer
16.1	15	ST	C		ID number
16.2	28	ST	C		Family name
16.3	28	ST	O		Given name
16.4	28	ST	O		Middle name or initial
16.5			NS		Suffix
16.6			NS		Prefix
16.7			NS		Degree
16.8			NS		Source table

Field notes

OBX-R.6   **Units**

Never sent on Nursing Notes or Rad results. Optionally sent on Lab results.

OBX-R.8   **Abnormal flags**

Never sent on Nursing Notes or Rad results. Optionally sent on Lab results.

OBX-R.10   **Nature of abnormal test**

Never sent on Nursing Notes or Rad results. Optionally sent on Lab results.

OBX-R.11   **Observ result status**

Always sent on Nursing Notes result. Optionally sent on Lab and Rad results.

OBX-R.16   **Responsible observer**

Optionally sent on Nursing Notes result. Never sent on Lab and Rad results.

ODS - Dietary orders, supplements and preferences

Seq	Len	Data type	R/O/C	RP/#	Element name
1	1	ID	R		Type
2	75	CE	R		Service period
2.1	9	CM	R		Identifier
2.1.1	4	ID	R		Identifier
2.1.2	4	ST	R		Application ID
2.2	19	ST	R		Text
2.3	7	ST	R		Name of coding system
2.4			NS		Alternate identifier
2.5			NS		Alternate text
2.6			NS		Name of alternate coding system
3	52	CE	R		Diet supplement
3.1	11	CM	R		Identifier
3.1.1	6	ID	C		Identifier
3.1.2	4	ST	R		Application ID
3.2	33	ST	R		Text
3.3	6	ST	C		Name of coding system
3.4			NS		Alternate identifier
3.5			NS		Alternate text
3.6			NS		Name of alternate coding system
4	80	ST	O	Y/2	Text instructions

Field notes

ODS.3.1.1   **Identifier**

STAR Dietary departments may be set up as non-SIM. This means that diet orders may be free form orders (no SIM code).

OM1 - General observation

Seq	Len	Data type	R/O/C	RP/#	Element name
1	1	NM	R		Sequence number
2	113	CE	R		Producer's test/observation ID
2.1	10	CM	R		Service text name/description
2.1.1	5	ID	R		Identifier
2.1.2	4	ST	O		Application ID
2.2	37	ST	R		Text
2.3	7	ST	R		Name of coding system
2.4	10	CM	O		Alternate text
2.4.1	5	ID	O		Alternate identifier
2.4.2	4	ST	O		Alternate application ID
2.5	37	ST	O		Alternate text
2.6	7	ST	O		Name of alternate coding system
3	2	ID	O		Permitted data types
4	1	ID	R		Specimen required
5	49	CE	R		Producer ID
5.1	4	CM	R		Producer name
5.1.1	4	ID	R		Identifier
5.1.2			NS		Application ID
5.2	36	ST	O		Text
5.3	7	ST	R		Name of coding system
5.4			NS		Alternate text
5.4.1			NS		Alternate identifier
5.4.2			NS		Alternate application ID
5.5			NS		Alternate text
5.6			NS		Name of alternate coding system
6	38	CE	O		Observation description
6.1			NS		ID
6.1.1			NS		Identifier
6.1.2			NS		Application ID
6.2	37	ST	R		Text
6.3			NS		Name of coding system
6.4			NS		Alternate identifier

Seq	Len	Data type	R/O/C	RP/#	Element name
6.4.1			NS		Alternate identifier
6.4.2			NS		Alternate application ID
6.5			NS		Alternate text
6.6			NS		Name of alternate coding system
7			NS		Other test/obs IDs for the observation
8	37	ST	R	Y	Other names
9			NS		Preferred report name for the observation
10	30	ST	O		Preferred short name for the observation
11			NS		Preferred long name for the observation
12	1	ID	O		Orderability
13			NS		ID of instrument used to perform study
14			NS		Coded representation of method
15	1	ID	O		Portable
16			NS		Observation producing dept/section
17			NS		Telephone number of section
18	1	ID	R		Nature of test/observation
19			NS		Report subheader
20			NS		Report display order
21	12	TS	R		Date/time stamp for change in def attrib for obs
22			NS		Effective date/time of change
23			NS		Typical turn-around time
24			NS		Processing time
25			NS		Processing priority
26			NS		Reporting priority
27			NS		Outside site(s) performing observation
28			NS		Address of outside sites
29			NS		Phone number of outside sites
30			NS		Confidentiality code
31			NS		Observation required for interpretation
32			NS		Interpretation of observation
33			NS		Contraindications to observations
34			NS		Reflex tests/observations
35			NS		Rules that trigger reflex testing
36			NS		Fixed canned messages
37			NS		Patient preparation
38			NS		Procedure medication
39			NS		Factors that may affect the observation
40			NS		Test/observation performance schedule
41			NS		Description of test methods
42			NS		Kind of Quantity Observed
43			NS		Point Versus Interval

Seq	Len	Data type	R/O/C	RP/#	Element name
44			NS		Challenge Information
45			NS		Relationship Provider
46	?	ST	C	Y	Target Anatomic Site of Test
47	?	CE	C		Modality of Imaging Measurement

Field notes

OM1.46   **Target Anatomic Site of Test**

Radiology

OM1.47   **Modality of Imaging Measurement**

Radiology

ORC - Common order (order)

Seq	Len	Data type	R/O/C	RP/#	Element name
1	2	ID	R		Order control code
2	22	CM	R		Placer order number
2.1	16	ST	R		Unique placer ID
2.2	5	ID	R		Placer application ID
3	36	CM	O		Filler order number
3.1	30	ST	R		Unique filler ID
3.2	5	ID	R		Filler application ID
4	21	CM	O		Placer group number
4.1	15	ST	R		Unique group ID
4.2	5	ID	R		Placer application ID
5	2	ID	O		Order status
6	1	ID	R		Response flag
7	444	TQ	O		Quantity/timing
7.1	9	CQ	O		Quantity
7.1.1	9	NM	O		Quantity
7.1.2			NS		Units
7.2	87	CM	O		Interval
7.2.1	6	ID	O		Repeat pattern
7.2.2	80	ST	O		Explicit time interval
7.3	10	ST	O		Duration
7.4	12	TS	O		Start date/time
7.5	12	TS	O		End date/time
7.6	5	ID	O		Priority

Seq	Len	Data type	R/O/C	RP/#	Element name
7.7	250	ST	O		Condition
7.8	50	TX	O		Text
7.9			NS		Conjunction
7.10			NS		Order sequencing
8	21	CM	O		Parent order number
8.1	21	CM	O		Parent's placer order number
8.1.1	15	ST	R		Parent's unique placer ID
8.1.2	5	ID	R		Parent's placer application ID
8.2			NS		Parent's filler order number
9	12	TS	O		Date/time of transaction
10	50	CN	O		Entered by
10.1	15	ST	R		ID number
10.2	28	ST	O		Family name
10.3	28	ST	O		Given name
10.4	28	ST	O		Middle name or initial
10.5			NS		Suffix
10.6			NS		Prefix
10.7			NS		Degree
10.8			NS		Source table
11	50	CN	O		Verified by
11.1	15	ST	R		ID number
11.2	28	ST	O		Family name
11.3	28	ST	O		Given name
11.4	28	ST	O		Middle name or initial
11.5			NS		Suffix
11.6			NS		Prefix
11.7			NS		Degree
11.8			NS		Source table
12	54	CN	O		Ordering provider
12.1	6	ST	R		ID number
12.2	33	ST	O		Family name
12.3	33	ST	O		Given name
12.4	33	ST	O		Middle name or initial
12.5			NS		Suffix
12.6			NS		Prefix
12.7	3	ST	O		Degree
12.8	7	ID	O		Source table
13	71	CE	O		Enterer's location
13.1	3	CM	O		
13.1.1	3	ID	O		
13.1.2			NS		

Seq	Len	Data type	R/O/C	RP/#	Element name
13.2	19	ST	O		
13.3	7	ST	O		
13.4			NS		
13.5			NS		
13.6			NS		
14	15	TN	O		Call back phone number
15	12	TS	O		Order effective date/time
16	41	CE	O		Order control code reason
16.1			NS		Identifier
16.2	40	ST	R		Text/description
16.3			NS		Name of coding system
16.4			NS		Alternate identifier
16.5			NS		Alternate text/description
16.6			NS		Name of alternate coding system
16.8			NS		Source table
17			NS		Entering organization
18	71	CE	O		Entering device
18.1	3	CM	R		Identifier
18.1.1	3	ID	R		Identifier
18.1.2			NS		Application ID
18.2	19	ST	R		Text/description
18.3	7	ST	R		Name of coding system
18.4			NS		Alternate identifier
18.5			NS		Alternate text/description
18.6			NS		Name of alternate coding system
19	50	CN	O		Action by
19.1	15	ST	R		ID number
19.2	28	ST	O		Family name
19.3	28	ST	O		Given name
19.4	28	ST	O		Middle name or initial
19.5			NS		Suffix
19.6			NS		Prefix
19.7			NS		Degree
19.8			NS		Source table
20			NS		Reserved
21			NS		Reserved
22			NS		Reserved
23			NS		Reserved
24			NS		Reserved
25			NS		Reserved
26			NS		Reserved

Seq	Len	Data type	R/O/C	RP/#	Element name
27			NS		Reserved
28			NS		Reserved
29			NS		Reserved
30	1	ID	C		Pharmacy Order Type (z-field)

Field notes

ORC.1　　　　**Order Control Code**

See ORC.2 note below

ORC.2　　　　**Placer Order Number**

If ORM is in response to an inbound 2.2b ORM where ORC.1="SN" (Send Number) and the OBR.2 is null, STAR will assign the placer order number and send it back in an ORM. ORC.1 will be "NA", Number Assignment.

ORC.5　　　　**Order status**

For child orders STAR uses Department Status if available, otherwise Nursing status is sent. For parents the STAR

ORC.30　　　**Pharmacy Order Type (z-field)**

Pharmacy

PD1 - Additional demographics

Seq	Len	Data type	R/O/C	RP/#	Element name
1			NS		Living dependency
2			NS		Living arrangement
3			NS		Patient primary facility
4	56	CN	O		Patient primary care provider name & ID number
4.1	6	ST	O		ID number
4.2	33	ST	O		Family name
4.3	33	ST	O		Given name
4.4	33	ST	O		Middle name or initial
4.5			NS		Suffix
4.6			NS		Prefix
4.7	3	ST	O		Degree
4.8	7	ID	O		Source table
5			NS		Student indicator
6			NS		Handicap

Seq	Len	Data type	R/O/C	RP/#	Element name
7			NS		Living will
8			NS		Organ donor
9			NS		Separate bill
10			NS		Duplicate patient
11			NS		Publicity indicator
12			NS		Protection indicator
13			NS		Protection indicator Effective Date
14	???	CE	O		Place of Worship

PID - Patient identification

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID - Patient ID
2	29	CK	O		Patient ID (External ID)
2.1	20	ST	R		ID number
2.2			NS		Check digit
2.3			NS		Check digit scheme
2.4	6	ST	R		Assigning authority
2.5	2	ST	R		Type
3	24	CM	C	Y	Patient ID (Internal ID)
3.1	12	ST	C		Patient ID
3.2			NS		Check digit
3.3			NS		Check digit scheme
3.4	6	ST	C		Assigning authority
3.5	2	ID	C		Type
4	???	???	O		Alternate patient ID
3.1	12	ST	C		Patient ID
3.2			NS		Check digit
3.3			NS		Check digit scheme
3.4	6	ST	C		Assigning Authority
3.5	2	ID	C		Type
5	45	PN	R		Patient's name
5.1	35	ST	R		Family name
5.2	35	ST	R		Given name
5.3	35	ST	O		Middle name or initial
5.4	5	ST	O		Suffix
6	25	ST	O		Mother's maiden name
7	8	DT	O		Date of birth
8	1	ID	O		Sex
9	45	PN	O	Y/4	Patient alias

Seq	Len	Data type	R/O/C	RP/#	Element name
9.1	35	ST	R		Family name
9.2	35	ST	R		Given name
9.3	35	ST	O		Middle name or initial
9.4	5	ST	O		Suffix
10	1	ID	O		Race
11	95	AD	R	Y/2	Patient address
11.1	25	ST	O		Street address
11.2	25	ST	O		Other designation
11.3	18	ST	O		City
11.4	2	ST	O		State
11.5	9	ST	O		Zip or postal code
11.6	2	ID	O		Country
11.7	1	ID	O		Type
11.8	5	ST	O		Other geographic designation
12	5	ID	NS		County code
13	18	CM	O	Y/2	Phone number - home, internet, fax
13.1	18	ST	R		Telephone number-home
14	18	CM	O		Phone number - business, internet, fax
14.1	18	ST	R		Telephone number-business
15	63	CE	O		Language - patient
15.1	1	CM	R		Identifier
15.1.1	1	ID	R		Identifier
15.2	19	ST	R		Text
15.3	7	ST	O		Name of coding system
15.4	1	CM	O		Alternate identifier
15.4.1	1	ID	O		Alternate identifier
15.5	19	ST	O		Alternate text
15.6	7	ST	O		Alternate coding system
16	1	ID	O		Marital status
17	3	ID	O		Religion
18	17	CK	C		Patient account number
18.1	13	ST	R		Patient ID
18.2			NS		Check digit
18.3			NS		Check digit scheme
18.4	6	ID	R		Assigning facility ID
19	17	ST	O		SSN number - patient
20			NS		Driver's license number-patient
21	17	CM	C		Mother's identifier
21.1	13	ST	R		Patient ID
21.2			NS		Check digit
21.3			NS		Check digit scheme

Seq	Len	Data type	R/O/C	RP/#	Element name
21.4	1	ST	R		Assigning facility ID
22			NS		Ethnic group
23	25	ST	O		Birth place
24	1	ID	O		Multiple birth indicator
25	1	NM	O		Birth order
26			NS		Citizenship
27	1	ID	O		Veteran's military status
28	63	CE	O		Nationality
28.1	1	CM	R		Identifier
28.1.1	1	ID	R		Identifier
28.2	19	ST	R		Text
28.3	7	ST	O		Name of coding system
28.4	1	CM	O		Alternate identifier
28.4.1	1	ID	O		Alternate identifier
28.5	19	ST	O		Alternate text
28.6	7	ST	O		Alternate coding system
29	8	DT	O		Patient death date and time
30	1	ID	O		Patient death indicator
31	1	ID	R		Identity Unknown Indicator
32			NS		Reserved for HL7 expansion
33			NS		Reserved for HL7 expansion
34			NS		Reserved for HL7 expansion
35			NS		Reserved for HL7 expansion
36			NS		Reserved for HL7 expansion
37			NS		Reserved for HL7 expansion
38			NS		Reserved for HL7 expansion
39			NS		Reserved for HL7 expansion
40			NS		Reserved for HL7 expansion
41			NS		Reserved for HL7 expansion
42			NS		Reserved for HL7 expansion
43			NS		Reserved for HL7 expansion
44			NS		Reserved for HL7 expansion
45			NS		Reserved for HL7 expansion
46			NS		Reserved for HL7 expansion
47			NS		Reserved for HL7 expansion
48			NS		Reserved for HL7 expansion
49			NS		Reserved for HL7 expansion
50	1	ID	R		Z field-identify unknown indicator

Field notes

PID.2   **Patient ID (External ID)**

STAR will store and forward the Enterprise number. If it exists on STAR, it will be populated in this field. Is not sent in a non-enterprise environment.

PID.2.5   **Type**

"PE"

PID.3   **Patient ID (Internal ID)**

STAR sends the Corporate Number and the Medical Record number, if it exists, in PID.3. A patient may have medical record numbers associated with multiple facilities. Potentially, there can be as many repetitions as facilities plus one for the Corporate Number.

Conditionality rule: If STAR is returning an A24 on a new person, such as in response to a pending admit (A14), the first PID would not contain any identifiers. The corporate number is contained in the second PID.

PID.3.1   **Patient ID**

Conditionality rule: If STAR is returning an A24 on a new person, such as in response to a pending admit (A14), the first PID would not contain any identifiers. The corporate number is contained in the second PID.

PID.3.4   **Assigning authority**

STAR support assigning authority in this field when STAR is using HBOCHI 2.2b compliant format routine. STAR's assigning authority is set in parameter ~AA and is the concatenation of 'ST' with typically the ID concatenated with the facility when facility specific (MR).

Conditionality rule: If STAR is returning an A24 on a new person, such as in response to a pending admit (A14), the first PID would not contain any identifiers. The corporate number is contained in the second PID.

PID.3.5   **Type**

STAR supports the following two values for type:

Value	Description
PI	Corporate Number
MR	Medical Record Number

Conditionality rule: If STAR is returning an A24 on a new person, such as in response to a pending admit (A14), the first PID would not contain any identifiers. The corporate number is contained in the second PID.

PID.4   **Alternate patient ID**

STAR will reflect Pathways Healthcare Scheduling's temporary person number in this field.

PID.3.5   **Type**

"TPN"

PID.5   **Patient's name**

STAR stores name in a single field using the format Last,First Middle. STAR supports a suffix, but not a prefix to the name.

Implementation note: The allowable characters in a name is set up in STAR's ~A1 Parameter, Name Edit Pattern Match.

Multiple newborns of a mother will have a number in the middle name. For example, twin boys born to Mrs. Smith would be designated as Smith,Baby 1 Boy and Smith, Baby 2. Boy.

PID.6   **Mother's maiden name**

STAR's Mother's Name is documented to be for maiden name; however, customers sometime use this for more than maiden name.

PID.7   **Date of birth**

STAR collects only Date, not Time, on this field.

PID.8   **Sex**

STAR supports only M (male) and F (female) sex values.

PID.9   **Patient alias**

Patient Previous Names will adhere to same rules found on PID.5

PID.9.1   **Family name**

Pattern match assures Family name will always be sent.

PID.11   **Patient address**

STAR supports two addresses for the patient.

PID.11.7   **Type**

Valid address types from STAR include:

Value	Description
P	Permanent - STAR's Mailing Address
C	Current - STAR's Alternate Address

PID.13   **Phone number - home, internet, fax**

STAR supports two phone numbers, but only the one associated with the primary address supports an extension.

PID.18   **Patient account number**

Sent for account level messages.

PID.19   **SSN number - patient**

STAR supports a length of 17 for Canadian interfaces. In the U.S. STAR supports a length of 11 (xxx-xx-xxxx).

PID.21   **Mother's identifier**

This field will be sent on a baby's PID to link it to the Mother. It is the Mothers External Account Number (i.e. Mothers PID.18).

PID.27   **Veteran's military status**

Y/N

PID.29   **Patient death date and time**

STAR collects only Date, not Time, on this field. Field in STAR is called Expired Date.

PID.30   **Patient death indicator**

If the Expired Date on STAR is populated, STAR will send a Y in this field. If not, then an N is sent.

PID.31   **Identity Unknown Indicator**

This data field will always be populated with either Y (yes) or N (no).

PID.50   **Z field-identify unknown indicator**

This data field will always be populated with either Y (yes) or N (no).

PR1 - Procedures

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID - procedures
2	2	ID	R		Procedure coding method
3	8	ID	R		Procedure code
4	30	ST	O		Procedure description
5	12	TS	R		Procedure date/time
6	2	ID	R		Procedure type
7			NS		Procedure minutes
8	56	CN	O		Anesthesiologist
8.1	6	ST	R		ID number
8.2	33	ST	O		Family name
8.3	33	ST	O		Given name
8.4	33	ST	O		Middle name or initial
8.5			NS		Suffix
8.6			NS		Prefix
8.7	3	ST	O		Degree
8.8	7	ID	O		Source table
9	1	ID	O		Anesthesia code
10			NS		Anesthesia minutes
11	56	CN	O		Surgeon
11.1	6	ST	R		ID number
11.2	33	ST	O		Family name
11.3	33	ST	O		Given name
11.4	33	ST	O		Middle name or initial
11.5			NS		Suffix
11.6			NS		Prefix
11.7	3	ST	O		Degree
11.8	7	ID	O		Source table
12	57	CM	O	Y/2	Procedure practitioner
12.1	54	CN	R		Procedure practitioner
12.1.1	6	ST	R		ID number
12.1.2	33	ST	O		Family name
12.1.3	33	ST	O		First name
12.1.4	33	ST	O		Middle name or initial
12.1.5			NS		Suffix
12.1.6			NS		Prefix

Seq	Len	Data type	R/O/C	RP/#	Element name
12.1.7	3	ST	O		Degree
12.1.8	5	ID	O		Source table
12.2	2	ID	O		Procedure practitioner type
13			NS		Consent code
14			NS		Procedure priority
15			NS		Associate diagnosis code
16			NS		HCPCS modifiers

PRA - Practitioner detail

Seq	Len	Data type	R/O/C	RP/#	Element name
1	156	CE	R		PRA - Primary key value
1.1	31	CM	R		Identifier
1.1.1	26	ID	R		Identifier
1.1.2	4	ST	NS		Application ID
1.2	37	ST	R		Text
1.3	7	ST	R		Name of coding system
1.4	31	CM	O		Alternate identifier
1.4.1	26	ID	O		Alternate identifier
1.4.2	4	ST	NS		Alternate application ID
1.5	37	ST	O		Alternate text
1.6	7	ST	O		Name of alternate coding system
2	97	CE	O	Y	Practitioner group
2.1	6	CM	R		Group identifier
2.1.1	6	ID	R		Group identifier
2.1.2			NS		Application ID
2.2	33	ST	R		Text
2.3	7	ST	R		Name of coding system
2.4	6	CM	O		Alternate identifier
2.4.1	6	ID	O		Alternate identifier
2.4.2			NS		Alternate application ID
2.5	33	ST	O		Alternate text
2.6	7	ST	O		Name of alternate coding system
3			NS		Practitioner category
4			NS		Provider billing
5	63	CM	O	Y	Specialty
5.1	63	CE	O		Specialty name
5.1.1	3	CM	R		Identifier
5.1.1.1	3	ID	R		Identifier
5.1.2	19	ST	R		Text

Seq	Len	Data type	R/O/C	RP/#	Element name
5.1.3	7	ST	R		Name of coding system
5.1.4	3	CM	O		Alternate identifier
5.1.4.1	3	ID	O		Alternate identifier
5.1.5	19	ST	O		Alternate text
5.1.6	7	ST	O		Name of alternate coding system
5.2			NS		Governing board
5.3			NS		Eligible or certified
5.4			NS		Date of certification
6	52	CM	O	Y	Practitioner ID number
6.1	47	ST	R		Identifier
6.2	4	ID	R		Type
6.3			NS		State/other qualifying information
7			NS		Privileges

PV1 - Patient visit information

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID - patient visit
2	1	ID	R		Patient class
3	23	CM	O		Assigned patient location
3.1	3	ID	O		Nurse unit
3.2	4	ID	O		Room
3.3	8	ID	O		Bed
3.4	1	ID	O		Facility ID
3.5	3	ID	O		Bed status
4	2	ID	O		Admission type
5			NS		Pre-admit number
6	23	CM	O		Prior patient location
6.1	3	ID	O		Nurse unit
6.2	4	ID	O		Room
6.3	8	ID	O		Bed
6.4	1	ID	O		Facility ID
6.5	3	ID	O		Bed status
7	56	CN	O		Attending doctor
7.1	6	ST	R		ID number
7.2	33	ST	O		Family name
7.3	33	ST	O		Given name
7.4	33	ST	O		Middle name or initial
7.5			NS		Suffix
7.6			NS		Prefix

Seq	Len	Data type	R/O/C	RP/#	Element name
7.7	3	ST	O		Degree
7.8	7	ID	O		Source table
8	56	CN	O		Referring doctor
8.1	6	ST	R		ID number
8.2	33	ST	O		Family name
8.3	33	ST	O		Given name
8.4	33	ST	O		Middle name or initial
8.5			NS		Suffix
8.6			NS		Prefix
8.7	3	ST	O		Degree
8.8	7	ID	O		Source table
9	56	CN	O	Y	Consulting doctor
9.1	6	ST	R		ID number
9.2	33	ST	O		Family name
9.3	33	ST	O		Given name
9.4	33	ST	O		Middle name or initial
9.5			NS		Suffix
9.6			NS		Prefix
9.7	3	ST	O		Degree
9.8	7	ID	O		Source table
10	3	ID	O		Hospital service
11			NS		Temporary location
12			NS		Pre-admit test indicator
13	1	ID	O		Re-admission indicator
14	2	ID	O		Admit source
15			NS		Ambulatory status
16	3	ID	O		VIP Indicator
17	56	CN	O		Admitting doctor
17.1	6	ST	R		ID number
17.2	33	ST	O		Family name
17.3	33	ST	O		Given name
17.4	33	ST	O		Middle name or initial
17.5			NS		Suffix
17.6			NS		Prefix
17.7	3	ST	O		Degree
17.8	7	ID	O		Source table
18	3	ID	O		Patient type
19			NS		Visit number
20	2	CM	O		Financial class
20.1	2	ID	O		Financial class
20.2			NS		Effective date

Seq	Len	Data type	R/O/C	RP/#	Element name
21			NS		Charge price indicator
22			NS		Courtesy code
23			NS		Credit rating
24	4	ID	NS	Y	Contract code
25			NS		Contract effective date
26			NS		Contract amount
27			NS		Contract period
28			NS		Interest code
29			NS		Transfer to bad debt code
30			NS		Transfer to bad debt date
31			NS		Bad debt agency code
32			NS		Bad debt transfer amount
33			NS		Bad debt recovery amount
34			NS		Delete account indicator
35			NS		Delete account date
36	3	ID	O		Discharge disposition
37			NS		Discharged to location
38			NS		Diet type
39	1	ID	O		Servicing facility
40	3	ID	O		Bed status
41	3	ID	O		Account status
42			NS		Pending location
43			NS		Prior temporary location
44	14	TS	C		Admit date/time
45	14	TS	C		Discharge date/time
46			NS		Current patient balance
47			NS		Total charges
48			NS		Total adjustments
49			NS		Total payments
50	24	CM	O		Alternate visit ID
50.1	12	ST	O		Patient ID
50.2			NS		Check digit
50.3			NS		Check digit scheme
50.4	6	ST	O		Assigning facility ID
50.5	2	ID	O		Type

Field notes

PV1.2   **Patient class**

One of "N", "P", "E", "B", "R", "I", "O"

N – N/A

P – Indicates Pre-Admit or Pre-Admission Testing type account

E – Indicates that patient type has been classified as an "ER" Category patient type

B – Indicates that patient type has been defined as a Maternity patient type

R – Indicates that patient type has been defined as a Recurring patient type

I – Indicates that patient type is an Inpatient type account which did not meet the above criteria

O – Indicates that patient type is an Outpatient type account which did not meet the above criteria

PV1.13   **Re-admission indicator**

"Y" or "N"

PV1.24   **Contract code**

This field was incorrectly supported until release 7.0 when we stopped sending the Contract code for a Contract Registration in this field. This code is sent in the ZCA.3.

PV1.44   **Admit date/time**

The admit date will be populated if the account has been admitted.

PV1.45   **Discharge date/time**

The discharge date will be populated if the account has been discharged.

PV1.50.5   **Type**

"TN"

PV2 - Patient visit - additional information

Seq	Len	Data type	R/O/C	RP/#	Element name
1			NS		Prior pending location
2	63	CE	O		Accommodation code
2.1	1	CM	R		Identifier
2.1.1	1	ID	R		Identifier
2.1.2			NS		Application ID

Seq	Len	Data type	R/O/C	RP/#	Element name
2.2	19	ST	R		Text
2.3	7	ST	R		Name of coding system
2.4	1	CM	O		Alternate identifier
2.4.1	1	ID	O		Alternate identifier
2.4.2			NS		Alternate application ID
2.5	19	ST	O		Alternate text
2.6	7	ST	O		Alternate coding system name
3			NS		Admit reason
4			NS		Transfer reason
5	19	ST	O		Patient valuables
6	36	ST	O		Patient valuables location
7			NS		Visit user code
8	14	TS	C		Expected admit date
9	8	TS	C		Expected discharge date
10	3	NM	O		Expected length of inpatient stay
11			NS		Actual length of inpatient stay
12	?	ST	O		Visit Description
13			NS		Referral source code
14			NS		Previous service date
15			NS		Employment illness related indicator
16			NS		Purge status code
17			NS		Purge status date
18			NS		Special program code
19			NS		Retention indicator
20			NS		Expected number of insurance plans
21	63	CE	O		Visit publicity code
22	1	ID	O		Visit protection indicator
23		XON	O	Y	Clinic organization name
24			NS		Patient status code
25			NS		Visit priority code
26			NS		Previous treatment date
27			NS		Expected discharge disposition
28			NS		Signature on file date
29			NS		First similar illness date
30			NS		Patient charge adjustment code
31			NS		Recurring service code
32			NS		Billing media code
33	8	DT	O		Expected surgery date & time
34			NS		Military partnership code
35			NS		Military non-availability code
36			NS		Newborn baby indicator

Seq	Len	Data type	R/O/C	RP/#	Element name
37			NS		Baby detained indicator
38			NS		Mode of arrival code
39			NS		Recreational drug use code
40			NS		Admission level of care code
41			NS		Precaution code
42			NS		Patient condition code
43			NS		Living will code
44	63	CE	O		Organ donor code
45			NS		Advance directive code
46			NS		Patient status effective date
47			NS		Expected LOA return date & time
48	14	TS	O		Expected testing date & time
49	1	ID	O		Visit clergy notify

Field notes

PV2.5   **Patient valuables**

"Valuables Indicated" will be sent if anything entered.

PV2.8   **Expected admit date**

STAR sends this field when it is known.

PV2.9   **Expected discharge date**

STAR supports only the date portion of the TS data type in this field. This is calculated using the admit date and the length of stay. STAR sends this field when it is known.

PV2.22   **Visit protection indicator**

"Y" or "N"

PV2.33   **Expected surgery date & time**

Only date.

QAK - Query Acknowledgment

This segment is used to communicate specific information about the query back to the requesting system.

SEQ	LEN	Data Type	O/R/C/N	RP/#	ELEMENT NAME
1	32	ST	C		Query Tag
2	2	ID	O		Query Response Status
3	250	CE	O		Message Query Name
4	10	NM	O		Hit Count
5	10	NM	O		This payload
6	10	NM	O		Hits remaining

QAK.1   **Query Tag (Echoed back from QPD.2)**

QAK.2   **Query Response Status (See table below.)**

HL7 Table 0208 - Query response status

Value	Description
OK	Data found, no errors (this is the default)
NF	No data found, no errors
AE	Application error
AR	Application reject

QAK.3   **Message Query Name (Taken from QPD.1)**

QAK.4   **Hit Count (Total number of records that matched the criteria in the query.)**

Examples

> **QAK:200508090354000001:NF::0:0:0**

> **QAK:200508090354000002:OK::::**

QPD - Query Parameter Definition

The QPD segment defines the parameters of the query.

HL7 Attribute Table – QPD – Query Parameter Definition

Seq	Len	Data type	R/O/C	RP/#	Element name
1	250	CE	R		Message Query Name
2	32	ST	O		Query Tag
3-n	256	varies	O		User Parameters (in successive fields)

QPD-1 Message Query Name

QPD-2 Query Tag

This field can be used to match response message with the original query message.

QPD-3 User Parameters

The following is a example of outbound QPD in an outbound Response (K22) to an inbound query request.

MSH:;~\&:ST111:A::A:20050814115809::RSP;K22;A7K22221:283:T:2.2:283::AL:::::::
2.2b

MSA:AA:200508140354000001::::

QAK:200508140354000001:NF::0:0:0

QPD:Q22;FindCandidate:200508140354000001:@PID.5.1^TRAIN~@PID.5.2^SUNDA
Y~@PID.7^195602180000~@PID.8^F:::::

QRD - Query definition

Seq	Len	Data type	R/O/C	RP/#	Element name
1	26	TS	R		Query Date/Time
2	1	ID	R		Query Format Code
3	1	ID	R		Query Priority
4	10	ST	R		Query ID
5			NS		Deferred Response Type
6			NS		Deferred Response Date/Time
7	10	CQ	O		Quantity Limited Request
8	20	XCN	C		Who Subject Filter
8.1	???	ST	R		ID Number
8.2	???	FN	R		Family Name
8.3	???	ST	R		Given Name
8.4	???	ST	O		Middle Name
8.5	???	ST	O		Suffix
8.6			NS		Prefix
8.7			NS		Degree
8.8			NS		Source Table
8.9			NS		Assigning Authority
8.10			NS		Name Type Code
8.11			NS		ID Check Digit
8.12			NS		Check Digit Scheme
8.13			NS		ID Type
8.14	???	ST	R		Assigning Facility
8.15	???	ST	R		Name Representation Code
8.16			NS		Name Context
8.17			NS		Name Validity Range
8.18			NS		Name Assembly Order
9	3	ID	R	Y	What Subject Filter
10			NS		What Department Data Code
11	20	ST	C	Y	What Data Code Value Qualifier
12			NS		Query Results Level

Field notes

QRD.1   **Query Date/Time**

Date/Time query is generated.

QRD.2   **Query Format Code**

R - Record-oriented format

QRD.3   **Query Priority**

I - Immediate

QRD.4   **Query ID**

Unique identifier for query assigned by requesting system. This value is returned in the response.

STAR uses a counter from 1 to 9999999999 for the unique identifier. (Retrieved from variable UQID%; stored in ^A7Q(,"CNT".)

QRD.5   **Deferred Response Type**

Not supported outbound.

QRD.6   **Deferred Response Date/Time**

Not supported outbound.

QRD.7   **Quantity Limited Request**

Default is ZO;72. 72 characters per line.

QRD.8   **Who Subject Filter**

STAR sends the medical record number;last name;first name;middle name; ;;facility;hospital name.

Conditionality rule: *The name is sent in* Check Previous and Date Range query request.

QRD.8.1   **ID Number**

Unit Number

Displays in header of result screen for queried result.

QRD.8.2   **Family Name**

Last Name

QRD.8.3   **Given Name**

First Name

QRD.8.4   **Middle Name**

Middle Name

QRD.8.5   **Suffix**

    Entitle

QRD.8.6   **Prefix**

    Not supported inbound.

QRD.8.7   **Degree**

    Not supported inbound.

QRD.8.8   **Source Table**

    Not supported inbound.

QRD.8.9   **Assigning Authority**

    Not supported inbound.

QRD.8.10   **Name Type Code**

    Not supported inbound.

QRD.8.11   **ID Check Digit**

    Not supported inbound.

QRD.8.12   **Check Digit Scheme**

    Not supported inbound.

QRD.8.13   **ID Type**

    Not supported inbound.

QRD.8.14   **Assigning Facility**

    Facility

QRD.8.15   **Name Representation Code**

    Hospital Name

QRD.8.16   **Name Context**

    Not supported inbound.

QRD.8.17   **Name Validity Range**

Not supported inbound.

QRD.8.18   **Name Assembly Order**

Not supported inbound.

QRD.9   **What Subject Filter**

STAR always sends **RES** for Result type query. See HL7 Table 048 for accepted codes
for this field.

QRD.10   **What Department Data Code**

Not supported outbound.

QRD.11   **What Data Code Value Qualifier**

Placer ID for a single test request or a Check Previous request. NNN^ApID ~
NNN^ApID ~ NNN^ApID

A Check Previous request has only a single placer ID.

For a date range request this field will be empty

Conditionality rule: If QRF.5 is QPLCR, QCPOBV or QCTEST this field is populated.
For the query QDATE, the field is null.

QRD.12   **Query Results Level**

Not supported outbound.

QRF - Query filter

Seq	Len	Data type	R/O/C	RP/#	Element name
1			NS		Where Subject Filter
2	26	TS	C		When Data Start Date/Time
3	26	TS	C		When Data End Date/Time
4	20	ST	C		What User Qualifier
5	20	ST	R	Y	Other QRY Subject Filter
6	12	ID	R	Y	Which Date/Time Qualifier
7	12	ID	R	Y	Which Date/Time Status Qualifier
8	12	ID	R	Y	Date/Time Selection Qualifier
9			NS		When quantity/timing qualifier

Field notes

QRF.1   **Where Subject Filter**

Not supported outbound.

QRF.2   **When Data Start Date/Time**

Data representing dates equal or after this value should be included. Assumes Calendar day. If present, QRD.11 must be empty.

Conditionality rule: Required for Query by Date, that is when QRF.5 = QDATE.

QRF.3   **When Data End Date/Time**

Data representing dates the same or before this date should be included. Assumes Calendar day. If present, QRD.11 must be empty.

Conditionality rule: Required for Query by Date, that is when QRF.5 = QDATE.

QRF.4   **What User Qualifier**

STAR sends an identifier to further define characteristics of the data of interest. Used with Check Previous by result. The analyte code or codes for Check Previous is included. Clinical Browser sends repeating Observation IDs

Format: Code^Description

Conditionality rule: Required for Query Check Previous. That is, required if QRF.5 = QCPTEST or QCPOBV.

QRF.5   **Other QRY Subject Filter**

Query Code

Defined locally, it identifies the query to be used between two systems.

STAR Lab Result Queries codes include:

Value	Description
QPLCR	Query on Placer ID
QDATE	Query by Date
QCPTEST	Check Previous by Test
QCPOBV	Check Previous by Observation Code

QRF.6   **Which Date/Time Qualifier**

STAR sends **COL** in this field to indicate Collection Date/Time.

Response should be sorted by collection date and time.

QRF.7   **Which Date/Time Status Qualifier**

STAR sends **ANY** in this field, which indicates "Any" status.

QRF.8   **Date/Time Selection Qualifier**

STAR sends **REV** in this field to indicate "Reverse chronological order."

STF - Staff identification

Seq	Len	Data type	R/O/C	RP/#	Element name
1	156	CE	R		STF - Primary key value
1.1	31	CM	R		Identifier
1.1.1	26	ID	R		Identifier
1.1.2	4	ST	NS		Application ID
1.2	37	ST	R		Text
1.3	7	ST	R		Name of coding system
1.4	31	CM	O		Alternate identifier
1.4.1	26	ID	O		Alternate identifier
1.4.2	4	CM	NS		Alternate application ID
1.5	37	ST	O		Alternate text
1.6	7	ST	O		Alternate coding system name
2	21	CE	R	Y/4	Staff ID code
2.1	15	CM	R		Identifier
2.1.1	15	ID	R		Identifier
2.1.2			NS		Application ID
2.2			NS		Text
2.3	4	ST	R		Name of coding system
2.4			NS		Alternate identifier
2.4.1			NS		Alternate identifier
2.4.2			NS		Alternate application ID
2.5			NS		Alternate text
2.6			NS		Alternate coding system name
3	41	PN	R		Staff name
3.1	33	ST	R		Family name
3.2	33	ST	R		Given name
3.3	33	ST	O		Middle name or initial
3.4	5	ST	O		Entitlement
3.5			NS		Prefix
3.6	3	ST	NS		Degree

Seq	Len	Data type	R/O/C	RP/#	Element name
4	2	ID	O		Staff type
5			NS		Sex
6	12	TS	O		Date of birth
7	1	ID	O		Active/inactive
8	92	CE	O		Department
8.1	3	CM	R		Identifier
8.1.1	3	ID	R		Identifier
8.2	33	ST	R		Text
8.3		ST	NS		Name of coding system
8.4		CM	NS		Alternate identifier
8.4.1		ID	NS		Alternate identifier
8.5		ST	NS		Alternate text
8.6		ST	NS		Alternate coding system name
9			NS		Service
10	40	XTN	O	Y	Telecommunications
11	95	XAD	O	Y	Office/home address
12	12	CM	O		Activation date
12.1	12	TS	O		Date
13	12	CM	O		Inactivation date
13.1	12	TS	O		Date
14			NS		Backup person ID
15			NS		E-mail address
16			NS		Preferred method of contact
17			NS		Marital Status
18	3	ST	O		Job Title

Field notes

STF.3   **Staff name**

STAR supports Last,First Middle and Entitlement

STF.3.1   **Family name**

Pattern matching forces family name to always be sent.

STF.10   **Telecommunications**

STF.10.2   **Telecommunication Use codes**

Valid telecommunication use codes for STAR include:

"PRN" – Primary Residence Number
"ORN" – Other Residence Number

"WPN" – Work Phone Number
"O1N – "O9N" - Multiple Office Numbers
"BTN" – Business Phone Number
"WP0" – Personal Work Cellular Phone Number
"ASN" – Answering service Phone Number
"NET" – Email Address
 "BPN" – Beeper Phone Number

STF.10.3   **Telecommunication Equipment Type**

Valid telecommunication equipment types for STAR include:

PH – Telephone
BP – Beeper
CP – Cellular Phone
X.400 – Email address (use only if Telecommunication Use code is NET)

STF.10.20   **Office Location ID**

Office location Code

STF.11.7   **Address Type**

Valid address types from STAR include:

H – Home
P – Permanent
O- Office
O1 – O9 – Additional Offices
S – Service Location
B – firm/business
M – Mailing
L - Legal

STF.11.20   **Office Location ID**

Office location code

STF.18   **Job Title**

In the old 'tool' based 2.2 interface, this information was part of the STF.3 information.

UB1 - Universal bill information

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID - UB82
2			NS		Blood deductible(43)
3	6	NM	O		Blood furn-pints(40)

Seq	Len	Data type	R/O/C	RP/#	Element name
4			NS		Blood replaced-pints(41)
5			NS		Blood not rplcd-pints(42)
6			NS		Co-insurance days(25)
7	2	ID	O	Y/5	Condition code(35-39)
8	3	NM	O		Covered days(23)
9	3	NM	O		Non covered days(24)
10	12	CM	O	Y/8	Value amount & code(46-49)
10.1	2	ID	O		Value code
10.2	9	NM	O		Amount
11	3	NM	O		Number of grace days(90)
12	2	ID	O		Spec program indicator(44)
13	1	ID	O		PSRO/UR approval indicator(87)
14	8	DT	O		PSRO/UR aprvd stay-from(88)
15	8	DT	O		PSRO/UR aprvd stay-to(89)
16	11	CM	O	Y/5	Occurrence(28-32)
16.1	2	ID	O		Occurrence code
16.2	8	DT	O		Occurrence date
17	2	ID	O		Occurrence span(33)
18	8	DT	O		Occurrence span start date(33)
19	8	DT	O		Occurrence span end date(33)
20			NS		UB 82 locator 2
21			NS		UB 82 locator 9
22			NS		UB 82 locator 27
23			NS		UB 82 locator 45

UB2 - Universal bill 92 information

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID-UB92
2			NS		Co-insurance days(9)
3	2	ID	O	Y/7	Condition code(24-30)
4	3	ST	O		Covered days(7)
5	4	ST	O		Non-covered days(8)
6	12	CM	O	Y/12	Value amount & code(39-41)
6.1	2	ID	O		Value code
6.2	9	NM	O		Value amount
7	11	CM	O	Y/8	Occurrence code & date(32-35)
7.1	2	ID	O		Occurrence code
7.2	8	DT	O		Occurrence date
8	20	CM	O	Y/2	Occurrence span code/dates(36)

Seq	Len	Data type	R/O/C	RP/#	Element name
8.1	2	ID	O		Occurrence span code
8.2	8	DT	O		Occurrence span from date
8.3	8	DT	O		Occurrence span through date
9			NS		UB92 locator 2(state)
10			NS		UB92 locator 11(state)
11			NS		UB92 locator 31(state)
12			NS		Document control number(37)
13			NS		UB92 locator 49(state)
14			NS		UB92 locator 56(state)
15			NS		UB92 locator 57(national)
16			NS		UB92 locator 78(state)

ZAB - HNS abstract

Seq	Len	Data type	R/O/C	RP/#	Element name
1	67	CE	O	Y/10	Blood code & description
1.1	2	CM	R		Identifier
1.1.1	2	ID	R		Identifier
1.1.2			NS		Application ID
1.2	19	ST	R		Text
1.3	7	ST	R		Name of coding system
1.4	2	CM	O		Alternate identifier
1.4.1	2	ID	O		Alternate identifier
1.4.2			NS		Alternate appl ID
1.5	19	ST	O		Alternate text
1.6	7	ST	O		Alternate coding system name
2	56	CN	O		Discharge care provider
2.1	6	ST	R		ID number
2.2	33	ST	R		Family name
2.3	33	ST	O		Given name
2.4	33	ST	O		Middle name or initial
2.5			NS		Suffix
2.6			NS		Prefix
2.7	3	ST	O		Degree
2.8	7	ID	O		Source table
3	71	CE	O		Transfer medical service code & desc
3.1	3	CM	R		Identifier
3.1.1	3	ID	R		Identifier
3.1.2			NS		Application ID
3.2	19	ST	R		Text

Seq	Len	Data type	R/O/C	RP/#	Element name
3.3	7	ST	R		Name of coding system
3.4	3	CM	O		Alternate identifier
3.4.1	3	ID	O		Alternate identifier
3.4.2			NS		Alternate appl ID
3.5	19	ST	O		Alternate text
3.6	7	ST	O		Alternate coding system name
4	111	CE	NS	Y	Severity of illness code & description
4.1	6	CM	NS		Identifier
4.1.1	6	ID	NS		Identifier
4.1.2			NS		Application ID
4.2	33	ST	NS		Text
4.3	7	ST	NS		Name of coding system
4.4	6	CM	NS		Alternate identifier
4.4.1	6	ID	NS		Alternate identifier
4.4.2			NS		Alternate appl ID
4.5	33	ST	NS		Alternate text
4.6	7	ST	NS		Alternate coding system name
5	8	DT	O		Date of attestation
6	56	CN	O		Attested by ID
6.1	6	ST	R		ID number
6.2	33	ST	R		Family name
6.3	33	ST	O		Given name
6.4	33	ST	O		Middle name or initial
6.5			NS		Suffix
6.6			NS		Prefix
6.7	3	ST	O		Degree
6.8	7	ID	O		Source table
7	67	CE	O		Triage code & description
7.1	2	CM	R		Identifier
7.1.1	2	ID	R		Identifier
7.1.2			NS		Application ID
7.2	19	ST	R		Text
7.3	7	ST	R		Name of coding system
7.4	2	CM	O		Alternate identifier
7.4.1	2	ID	O		Alternate identifier
7.4.2			NS		Alternate appl ID
7.5	19	ST	O		Alternate text
7.6	7	ST	O		Alternate coding system name
8	12	TS	O		Date/time of abstract
9			NS		Abstracted by ID
10	91	CE	O		Incident code & description

Seq	Len	Data type	R/O/C	RP/#	Element name
10.1	1	CM	R		Identifier
10.1.1	1	ID	R		Identifier
10.1.2			NS		Application ID
10.2	33	ST	R		Text
10.3	7	ST	R		Name of coding system
10.4	1	CM	O		Alternate identifier
10.4.1	1	ID	O		Alternate identifier
10.4.2			NS		Alternate appl ID
10.5	33	ST	O		Alternate text
10.6	7	ST	O		Alternate coding system name
11	12	TS	O		Date/time of incident
12	67	CE	O		Case category code & description
12.1	2	CM	R		Identifier
12.1.1	2	ID	R		Identifier
12.1.2			NS		Application ID
12.2	19	ST	R		Text
12.3	7	ST	R		Name of coding system
12.4	2	CM	O		Alternate identifier
12.4.1	2	ID	O		Alternate identifier
12.4.2			NS		Alternate appl ID
12.5	19	ST	O		Alternate text
12.6	7	ST	O		Alternate coding system name
13	91	CE	O	Y/10	Death classification code/expiration type
13.1	1	CM	R		Identifier
13.1.1	1	ID	R		Identifier
13.1.2			NS		Application ID
13.2	33	ST	R		Text
13.3	7	ST	R		Name of coding system
13.4	1	CM	O		Alternate identifier
13.4.1	1	ID	O		Alternate identifier
13.4.2			NS		Alternate appl ID
13.5	33	ST	O		Alternate text
13.6	7	ST	O		Alternate coding system name

Field notes

ZAB.2   **Discharge care provider**

STAR supports Last,First Middle in a single 33 byte field. Follows pattern match.

ZAB.6   **Attested by ID**

STAR supports Last,First Middle in a single 33 byte field. Follows pattern match.

ZAC - Additional accident

Seq	Len	Data type	R/O/C	RP/#	Element name
1			NS		Accident code assigned by ID
2	25	ST	O		Nature of accident

ZBD - Additional bed status

Seq	Len	Data type	R/O/C	RP/#	Element name
1	156	CE	R		Primary key value
1.1	31	CM	R		Identifier
1.1.1	26	ID	R		Identifier
1.1.2			NS		Application ID
1.2	37	ST	R		Text
1.3	7	ST	R		Name of coding system
1.4	31	CM	O		Alternate identifier
1.4.1	26	ID	O		Alternate identifier
1.4.2			NS		Alternate appl ID
1.5	37	ST	O		Alternate text
1.6	7	ST	O		Alternate coding system name
2	4	ST	R		Room number
3	2	ST	R		Bed number
4	91	CE	O		Patient type
4.1	3	CM	R		Identifier
4.1.1	3	ID	R		Identifier
4.1.2			NS		Application ID
4.2	33	ST	R		Text
4.3			NS		Name of coding system
4.4			NS		Alternate identifier
4.4.1			NS		Alternate identifier
4.4.2			NS		Alternate appl ID
4.5			NS		Alternate text
4.6			NS		Alternate coding system name

ZBT - Additional business table information

Seq	Len	Data type	R/O/C	RP/#	Element name
1	156	CE	R		Primary key value
1.1	31	CM	R		Identifier
1.1.1	26	ID	R		Identifier

Seq	Len	Data type	R/O/C	RP/#	Element name
1.1.2			NS		Application ID
1.2	37	ST	R		Text
1.3	7	ST	R		Name of coding system
1.4	31	CM	O		Alternate identifier
1.4.1	26	ID	O		Alternate identifier
1.4.2			NS		Alternate appl ID
1.5	37	ST	O		Alternate text
1.6	7	ST	O		Alternate coding system name
2	6	ID	R		Business office
3	94	AD	O		Business address
3.1	25	ST	O		Street address
3.2	25	ST	O		Other designation
3.3	18	ST	O		City
3.4	2	ST	O		State/province
3.5	9	ST	O		Zip or postal code
3.6	2	ID	O		Country
3.7	1	ID	O		Type
3.8	5	ST	O		Other geographic designation
4	13	TN	O		Business phone
5			NS		Contact person
6			NS		Business Description
7	21	ST	O		Business office name
8			NS		Location

ZCA - PWLAB additional ADT information & flags

Seq	Len	Data type	R/O/C	RP/#	Element name
1	6	ST	O		External room/bed
2	10	ST	O		External chart number
3	6	ID	C		Contract code/description

Field notes

ZCA.1 **External room/bed**

Foreign Room/Bed field on STAR Contract Registration screen.

ZCA.2 **External chart number**

Foreign Chart Nbr field on STAR Contract Registration screen.

ZCA.3   **Contract code/description**

STAR always sends the Contract Code if registration or update is sent on a contract patient type. (Up until M17374, STAR incorrectly sent this out on the PV1.24 field).

ZDG - Additional diagnosis

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID - diagnosis
2			NS		DRG transfer type
3	12	TS	O		Date/time DTG assigned

ZDP - Nurse station department master

Seq	Len	Data type	R/O/C	RP/#	Element name
1	156	CE	R		Primary Key Value
1.1	31	CM	R		Identifier
1.1.1	26	ID	R		Identifier
1.1.2	4	ID	NS		Application ID
1.2	37	ST	R		Text
1.3	7	ST	R		Name of coding system
1.4	31	CM	O		Alternate identifier
1.4.1	26	ID	O		Alternate identifier
1.4.2	4	ID	NS		Alternate appl ID
1.5	37	ST	O		Alternate text
1.6	7	ST	O		Alternate coding system name
2	1	ID	O		Active/Inactive indicator
3	1	ID	O		Print bar code indicator

Field notes

ZDP.2   **Active/Inactive indicator**

"Y" or "N"

ZDP.3   **Print bar code indicator**

"Y" or "N"

ZFC - Facility identification

Seq	Len	Data type	R/O/C	RP/#	Element name
1	156	CE	R		Primary Key Value
1.1	31	CM	R		Identifier
1.1.1	26	ID	R		Identifier
1.1.2		ID	NS		Application ID
1.2	37	ST	R		Text
1.3	7	ST	R		Name of coding system
1.4	31	CM	O		Alternate identifier
1.4.1	26	ID	O		Alternate identifier
1.4.2	4	ID	NS		Alternate appl ID
1.5	37	ST	O		Alternate text
1.6	7	ST	O		Alternate coding system name
2			NS		Campus ID code
3			NS		Building ID code
4			NS		Financial code
5	90	AD	O		Address
5.1	25	ST	O		Street address
5.2	25	ST	O		Other designation
5.3	18	ST	O		City
5.4	2	ST	O		State/province
5.5	10	ST	O		Zip or postal code
5.6	2	ID	O		Country
5.7	1	ID	O		Type

Field notes

ZFC.5.7   **Type**

"O"

ZIN - Additional insurance information

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID - insurance
2	33	ST	O		Insurance plan name
3	1	ID	O		Blue shield coverage indicator
4	72	ST	O		Insurance comment
5			NS		Default copay
6			NS		Referral required
7			NS		Benefits

Seq	Len	Data type	R/O/C	RP/#	Element name
8	12	ST	O		Blue shield plan number
9			NS		Primary/secondary indicator

Field notes

ZIN.3   **Blue shield coverage indicator**

"Y" or "N"

ZNB - Newborn abstract

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID
2	67	CE	O		Birth status code & description
2.1	2	CM	R		Identifier
2.1.1	2	ID	R		Identifier
2.1.2			NS		Application ID
2.2	19	ST	R		Text
2.3	7	ST	R		Name of coding system
2.4	2	CM	O		Alternate identifier
2.4.1	2	ID	O		Alternate identifier
2.4.2			NS		Alternate appl ID
2.5	19	ST	O		Alternate text
2.6	7	ST	O		Alternate coding system name
3	67	CE	O		Birth type code & description
3.1	2	CM	R		Identifier
3.1.1	2	ID	R		Identifier
3.1.2			NS		Application ID
3.2	19	ST	R		Text
3.3	7	ST	R		Name of coding system
3.4	2	CM	O		Alternate identifier
3.4.1	2	ID	O		Alternate identifier
3.4.2			NS		Alternate appl ID
3.5	19	ST	O		Alternate text
3.6	7	ST	O		Alternate coding system name
4	1	ID	O		C-section indicator
5	3	NM	O		Gestation period-weeks
6	22	CK	R		Encounter number
6.1	13	NM	R		Patient ID
6.2			NS		Check digit
6.3			NS		Check digit scheme

Seq	Len	Data type	R/O/C	RP/#	Element name
6.4	6	ID	R		Assigning facility ID
7	91	CE	O		Newborn code & description
7.1	1	CM	R		Identifier
7.1.1	1	ID	R		Identifier
7.1.2			NS		Application ID
7.2	33	ST	R		Text
7.3	7	ST	R		Name of coding system
7.4	1	CM	O		Alternate identifier
7.4.1	1	ID	O		Alternate identifier
7.4.2			NS		Alternate appl ID
7.5	33	ST	O		Alternate text
7.6	7	ST	O		Alternate coding system name
8	13	CQ	O		Newborn weight
8.1	10	NM	R		Quantity
8.2	2	CE	R		Units
8.2.1	2	CM	R		Identifier
8.2.1.1	2	ID	R		Identifier
8.2.1.2			NS		Application ID
8.2.2			NS		Text
8.2.3			NS		Name of coding system
8.2.4			NS		Alternate identifier
8.2.4.1			NS		Alternate identifier
8.2.4.2			NS		Alternate appl ID
8.2.5			NS		Alternate text
8.2.6			NS		Alternate coding system name
9	1	ID	O		Stillborn indicator

Field notes

ZNB.4   **C-section indicator**

"Y" or "N"

ZNB.8.2   **Units**

In kilograms ("kg")

ZNB.9   **Stillborn indicator**

"Y" or "N"

ZOE - Physican Office Information Related to Patient Encounter

- Use repeating ZOE segments to contain the preferred Office for each Physician relationship for this patient encounter.

- Included as part of the the ADT message structure.

- This segment will follow PV1 and PD1 segments.

- One ZOE segment would be sent for each physician field that is populated and for each repeat of populated physician fields.

- The ZOE is only present if multi-office processing is defined at the system and doctor level.

- Added as an outbound segment with the Working Patient List Project (M18163)

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID
2		CE	R		Staff or Practitioner
3	250	CE	R		Role
4	250	CE	R		Office
5	250	CE	O		Comment

Field notes

ZOE.1 **Set ID**

This would identify the segment when multiple are being sent.

ZOE.2 **Staff or Practitioner**

Staff identifier as sent in STF:2. The staff, practitioner, practitioner group, or office staff person to which this information applies.

ZOE.3 **Role**

There needs to be an agreed to list of care relationships. . This allows for clear indication of the care giver's role such as consulting physician, admitting physician, etc. and later allows for expansion to other roles as needed when this is used in other messages than the ADT type.

AT - Attending in PV1:7 - translate to HCI (Horizon Clinicals Infrastructure) ATMD
RP - Refering in PV1:8   – translate to HCI RFMD
CP - Consulting in PV1:9   May be more than one CSMD– translate to HCI CSMD
AD - Admiting in PV1:17 – translate to HCI ADMD
PP - Primary Care in PD1:4 May be more than one PCMD – translate to HCI PCMD

ZOE.4   **Office**

This indicates the office as identified in the master file XAD:20

ZOE.5   **Comment**

This allows for a user defined set of office use fields such as "Call in Emergency", "Send Reports", etc.

ZOS – Office Staff Data (Physician/NSCG Table MFN segment)

- New segment (ZOS) for office staff sent outbound only when a change is made to office staff or in the DOC table load processor.

- Office staff entries or updates are identified in the Primary Key fields as 99POS (MFE.4, STF.1, PRA.1, ZST.1 and ZRA.1)

- Added as an outbound segment with the Working Patient List Project (WPL) (M18163).

Seq	Len	Data type	R/O/C	RP/#	Element name
1	250	CE	C		Primary Key Value - ZOS
2	250	CX	O	Y	Staff Identifier List
3	250	XPN	O	Y	Staff Name
4	2	IS	O	Y	Staff Type
5	1	IS	NS		Administrative Sex
6	26	TS	NS		Date/Time of Birth
7	1	ID	O		Active/Inactive Flag
8	250	CE	NS	Y	Department
9	250	CE	NS	Y	Hospital Service - STF
10	250	XTN	O	Y	Phone
11	250	XAD	O	Y	Office/Home Address/Birthplace
12	276	DIN	O	Y	Institution Activation Date
13	276	DIN	O	Y	Institution Inactivation Date
14	250	CE	NS	Y	Backup Person ID
15	40	ST	NS	Y	E-Mail Address
16	250	CE	NS		Preferred Method of Contact
17	250	CE	NS		Marital Status
18	20	ST	O		Job Title
19	20	JCC	NS		Job Code/Class
20	250	CE	NS		Employment Status Code
21	1	ID	NS		Additional Insured on Auto
22	25	DLN	NS		Driver's License Number – Staff
23	1	ID	NS		Copy Auto Ins
24	8	DT	NS		Auto Ins. Expires

Seq	Len	Data type	R/O/C	RP/#	Element name
25	8	DT	NS		Date Last DMV Review
26	8	DT	NS		Date Next DMV Review
27	250	CE	NS		Race
28	250	CE	NS		Ethnic Group
29	1	ID	NS		Re-activation Approval Indicator
30	250	CWE	NS	Y	Citizenship
31	8	TS	NS		Death Date and Time
32	1	ID	NS		Death Indicator
33	250	CWE	NS		Institution Relationship Type Code
34	52	DR	NS		Institution Relationship Period
35	8	DT	NS		Expected Return Date
36	250	CWE	NS	Y	Cost Center Code
37	1	ID	NS		Generic Classification Indicator
38	250	CWE	NS		Inactive Reason Code
39		CE	C		Action
40			NS		Proxy Type
41			NS	Y	Proxy Privileges

Field notes

ZOS.1   **Primary Key Value - ZOS**

Only use this field for the code that will be used when this staff member is sent as a CE data type.

ZOS.2   **Staff Identifier List**

Use this field to indicate the additional codes that are used to identify this staff member. Agreement between sending and receiving systems is needed to indicate which ID Type is used in ADT, ORM, and other HL7 messages.

ZOS.3   **Staff Name**

This will be the name of the Office Staff person.

ZOS.4   **Staff Type**

Systems will agree upon the use of the different Staff Types between their systems. For the WPL project 'OS' is sent in this field

ZOS.39   **Action**

Use the same events that are used in HL7 Table 0180 to identify the record-level event for this as a sub-record level event when the ZOS is added beneath a Practitioner or

Practitioner Group. – This is needed because it applies to the action for the ZOS segment only, not the whole STF message.

SyZOM - ORC/OBR extensions

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID
2	15	CM	O		Alternate placer group number
2.1	15	ST	O		Alternate placer group number
2.2			NS		Application ID
3	6	ST	NS		External lab location
4	10	ST	NS		External lab chart number
5	10	ST	NS		Lab order accession number
6	2	ID	NS		Lab administration site
7	2	ID	NS		Lab clinical processing site
8	75	CM	NS		Reflexor order's placer ID
9	200	CE	NS		Panel order set universal service ID
10	10	ST	NS		Panel order set unique sequence
11			NS		???
12	???	ST	O		Nurse collect number

ZPI - Supplemental patient ID

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID
2	1	ID	O		Person expired indicator
3	99	CE	O		Church code & description
3.1	3	CM	C		Identifier
3.1.1	3	ID	C		Identifier
3.1.2			NS		Application ID
3.2	33	ST	C		Text
3.3	7	ST	C		Name of coding system
3.4	3	CM	O		Alternate identifier
3.4.1	3	ID	O		Alternate identifier
3.4.2			NS		Alternate appl ID
3.5	33	ST	O		Alternate text
3.6	7	ST	O		Alternate coding system name
4	71	CE	NS		Organ donor code & description

Seq	Len	Data type	R/O/C	RP/#	Element name
4.1	3	CM	R		Identifier
4.1.1	3	ID	R		Identifier
4.1.2			NS		Application ID
4.2	19	ST	R		Text
4.3	7	ST	R		Name of coding system
4.4	3	CM	O		Alternate identifier
4.4.1	3	ID	O		Alternate identifier
4.4.2			NS		Alternate appl ID
4.5	19	ST	O		Alternate text
4.6	7	ST	O		Alternate coding system name
5	56	CN	O		Primary care provider
5.1	6	ST	R		ID number
5.2	33	ST	R		Family name
5.3	33	ST	O		Given name
5.4	33	ST	O		Middle name or initial
5.5			NS		Suffix
5.6			NS		Prefix
5.7	3	ST	O		Degree
5.8	7	ID	O		Source table
6			NS		Mother's name
7	25	ST	O		Father's name
8	83	CE	O		Census tract code & description
8.1	6	CM	R		Identifier
8.1.1	6	ID	R		Identifier
8.1.2			NS		Application ID
8.2	19	ST	R		Text
8.3	7	ST	R		Name of coding system
8.4	6	CM	O		Alternate identifier
8.4.1	6	ID	O		Alternate identifier
8.4.2			NS		Alternate appl ID
8.5	19	ST	O		Alternate text
8.6	7	ST	O		Alternate coding system name
9	8	DT	O		Current address since
10	15	ST	O		Employee ID
11	8	DT	O		Employment date
12	63	CE	O		Employment status code
12.1	1	CM	R		Identifier
12.1.1	1	ID	R		Identifier
12.1.2			NS		Application ID
12.2	19	ST	R		Text
12.3	7	ST	R		Name of coding system

Seq	Len	Data type	R/O/C	RP/#	Element name
12.4	1	CM	O		Alternate identifier
12.4.1	1	ID	O		Alternate identifier
12.4.2			NS		Alternate appl ID
12.5	19	ST	O		Alternate text
12.6	7	ST	O		Alternate coding system name
13	63	CE	O		Employment data code & description
13.1	1	CM	R		Identifier
13.1.1	1	ID	R		Identifier
13.1.2			NS		Application ID
13.2	19	ST	R		Text
13.3	7	ST	R		Name of coding system
13.4	1	CM	O		Alternate identifier
13.4.1	1	ID	O		Alternate identifier
13.4.2			NS		Alternate appl ID
13.5	19	ST	O		Alternate text
13.6	7	ST	O		Alternate coding system name
14	75	JCC	O		Occupation code/description
14.1	16	IS	O		Job Code
14.2	2	IS	O		Job Class
14.3	25	ST	O		Job Description
15	85	CE	O		Employer code & description
15.1	6	CM	C		Identifier
15.1.1	6	ID	C		Identifier
15.1.2			NS		Application ID
15.2	20	ST	C		Text
15.3	7	ST	C		Name of coding system
15.4	6	CM	O		Alternate identifier
15.4.1	6	ID	O		Alternate identifier
15.4.2			NS		Alternate appl ID
15.5	20	ST	O		Alternate text
15.6	7	ST	O		Alternate coding system name
16	95	AD	O		Employer address
16.1	25	ST	O		Street address
16.2	25	ST	O		Other designation
16.3	18	ST	O		City
16.4	2	ST	O		State/province
16.5	9	ST	O		Zip or postal code
16.6	2	ID	O		Country
16.7	1	ID	O		Type
16.8	5	ST	O		Other geographic designation

Field notes

ZPI.2   **Person expired indicator**

"Y" or "N"

ZPI.3.1   **Identifier**

STAR allows a free text override for the church code. Either a code will be sent, or the text will be populated.

ZPI.3.2   **Text**

STAR allows a free text override for the church code. Either a code will be sent, or the text will be populated.

ZPI.3.3   **Name of coding system**

STAR allows a free text override for the church code. If a code is sent, this component will also be populated.

ZPI.4   **Organ donor code & description**

No longer supported as of M18743; info is located in PV2.44

ZPI.5   **Primary care provider**

STAR supports Last,First Middle in a single 33 byte field. Pattern match is used.

ZPI.14.1   **Job Code**

STAR allows a free text override for the occupation code. Either a code will be sent, or the text will be populated.

ZPI.14.3   **Job Description**

STAR allows a free text override for the occupation code. Either a code will be sent, or the text will be populated.

ZPI.15.1   **Identifier**

STAR allows a free text override for the employer code. Either a code will be sent, or the text will be populated.

ZPI.16.7   **Type**

"O"

ZPR - Additional procedure

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID-Procedure
2	17	ST	O		Procedure DRG type
3	91	CE	O		Tissue type code & description
3.1	1	CM	R		Identifier
3.1.1	1	ID	R		Identifier
3.1.2			NS		Application ID
3.2	33	ST	R		Text
3.3	7	ST	R		Name of coding system
3.4	1	CM	O		Alternate identifier
3.4.1	1	ID	O		Alternate identifier
3.4.2			NS		Alternate appl ID
3.5	33	ST	O		Alternate text
3.6	7	ST	O		Alternate coding system name

ZPV - Supplemental patient visit

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID - Patient visit
2	63	CE	O		Mode of arrival code & description
2.1	3	CM	C		Identifier
2.1.1	3	ID	C		Identifier
2.2	19	ST	C		Text
2.3	7	ST	C		Name of coding system
2.4	3	CM	C		Alternate identifier
2.4.1	3	ID	O		Alternate identifier
2.5	19	ST	O		Alternate text
2.6	7	ST	O		Alternate coding system name
3	20	ST	O		Referring hospital
4	1	ID	O		Final discharge indicator
5	3	ST	O		Discharge condition
6	59	CE	O		Isolation code & description
6.1	1	CM	C		Identifier
6.1.1	1	ID	C		Identifier
6.2	19	ST	C		Text
6.3	7	ST	C		Name of coding system
6.4	1	CM	C		Alternate identifier
6.4.1	1	ID	O		Alternate identifier
6.5	19	ST	O		Alternate text

Seq	Len	Data type	R/O/C	RP/#	Element name
6.6	7	ST	O		Alternate coding system name
7	63	CE	O		IV therapy code & description
7.1	3	CM	C		Identifier
7.1.1	3	ID	C		Identifier
7.2	19	ST	C		Text
7.3	7	ST	C		Name of coding system
7.4	3	CM	C		Alternate identifier
7.4.1	3	ID	O		Alternate identifier
7.5	19	ST	O		Alternate text
7.6	7	ST	O		Alternate coding system name
8	75	FT	O		Encounter comments
9	63	CE	O		Oxygen therapy code & description
9.1	3	CM	C		Identifier
9.1.1	3	ID	C		Identifier
9.2	19	ST	C		Text
9.3	7	ST	C		Name of coding system
9.4	3	CM	C		Alternate identifier
9.4.1	3	ID	O		Alternate identifier
9.5	19	ST	O		Alternate text
9.6	7	ST	O		Alternate coding system name
10	57	CE	O		Publicity code & description
10.1	1	CM	C		Identifier
10.1.1	1	ID	C		Identifier
10.2	19	ST	C		Text
10.3	7	ST	C		Name of coding system
10.4	1	CM	C		Alternate identifier
10.4.1	1	ID	O		Alternate identifier
10.5	19	ST	O		Alternate text
10.6	7	ST	O		Alternate coding system name
11	1	ID	O		Smoker indicator
12	85	CE	O		Admission level of care
12.1	2	CM	C		Identifier
12.1.1	2	ID	C		Identifier
12.2	19	ST	C		Text
12.3	7	ST	C		Name of coding system
12.4	2	CM	C		Alternate identifier
12.4.1	2	ID	O		Alternate identifier
12.5	19	ST	C		Alternate text
12.6	7	ST	C		Alternate coding system name
13	63	CE	O	Y/3	Precaution code & description
13.1	3	CM	C		Identifier

Seq	Len	Data type	R/O/C	RP/#	Element name
13.1.1	3	ID	C		Identifier
13.2	19	ST	C		Text
13.3	7	ST	C		Name of coding system
13.4	3	CM	C		Alternate identifier
13.4.1	3	ID	O		Alternate identifier
13.5	19	ST	O		Alternate text
13.6	7	ST	O		Alternate coding system name
14	59	CE	O		Condition code & description
14.1	1	CM	R		Identifier
14.1.1	1	ID	R		Identifier
14.2	19	ST	R		Text
14.3	7	ST	R		Name of coding system
14.4	1	CM	C		Alternate identifier
14.4.1	1	ID	O		Alternate identifier
14.5	19	ST	O		Alternate text
14.6	7	ST	O		Alternate coding system name
15	63	CE	NS		Advance directive code & description
15.1	3	CM	C		Identifier
15.1.1	3	ID	C		Identifier
15.2	19	ST	C		Text
15.3	7	ST	C		Name of coding system
15.4	3	CM	C		Alternate identifier
15.4.1	3	ID	O		Alternate identifier
15.5	19	ST	O		Alternate text
15.6	7	ST	O		Alternate coding system name
16	23	CM	C	Y	Consultation information
16.1	12	TS	R		Date
16.2	3	ID	O		Specialty code
16.3	6	ST	R		Physician Code
17	67	CE	C		Admission cancellation reason
17.1	2	CM	C		Identifier
17.1.1	2	ID	C		Identifier
17.2	19	ST	C		Text
17.3	7	ST	C		Name of coding system
17.4	2	CM	C		Alternate identifier
17.4.1	2	ID	O		Alternate identifier
17.5	19	ST	O		Alternate text
17.6	7	ST	O		Alternate coding system name
18	56	CN	O		Shared care physician
18.1	6	ST	R		ID number
18.2	33	ST	R		Family name

Seq	Len	Data type	R/O/C	RP/#	Element name
18.3	33	ST	O		Given name
18.4	33	ST	O		Middle name or initial
18.5			NS		Suffix
18.6			NS		Prefix
18.7	3	ST	O		Degree
18.8	7	ID	O		Source table
19	56	CN	O		ER physician
19.1	6	ST	R		ID number
19.2	33	ST	R		Family name
19.3	33	ST	O		Given name
19.4	33	ST	O		Middle name or initial
19.5			NS		Suffix
19.6			NS		Prefix
19.7	3	ST	O		Degree
19.8	7	ID	O		Source table
20	1	ID	O		Phone charge indicator
21			NS		TV charge indicator
22	1	ID	O		Orders indicator
23	1	ID	O		Balance indicator
24	72	CM	O		Advance directive information
24.1	63	CE	R		Advance directive code
24.1.1	3	CM	R		Identifier
24.1.1.1	3	ID	R		Identifier
24.1.2	19	ST	R		Text
24.1.3	7	ST	R		Name of coding system
24.1.4	3	CM	O		Alternate identifier
24.1.4.1	3	ID	O		Alternate identifier
24.1.5	19	ST	O		Alternate text
24.1.6	7	ST	O		Alternate coding system name
24.2	8	DT	O		Last verified date

Field notes

ZPV.2   **Mode of arrival code & description**

A cross-reference table is not defined. This means an alternate identifier, text, and coding system is not sent.

ZPV.2.2   **Text**

If Arrival Mode is populated, text will always be sent.

ZPV.2.3   **Name of coding system**

If Arrival Mode is populated, a coding system will always be sent.

ZPV.3   **Referring hospital**

This field may be filled by table look up or by free-form entry. If user enters a free-form value, the string will begin with a dash.

ZPV.4   **Final discharge indicator**

"Y" or "N"

ZPV.6   **Isolation code & description**

A cross-reference table is not defined. This means an alternate identifier, text, and coding system is not sent.

ZPV.6.1.1   **Identifier**

If Isolation Code is populated, a code will always be sent.

ZPV.6.2   **Text**

If Isolation Code is populated, text will always be sent.

ZPV.6.3   **Name of coding system**

If Isolation Code is populated, a coding system will always be sent.

ZPV.6.4   **Alternate identifier**

If a cross-reference table is defined, then the alternate code, text, and coding system will be sent.

ZPV.7   **IV therapy code & description**

A cross-reference table is not defined. This means an alternate identifier, text, and coding system is not sent.

ZPV.7.1.1   **Identifier**

If IV Therapy is populated, a code will always be sent.

ZPV.7.2   **Text**

If IV Therapy is populated, text will always be sent.

ZPV.7.3   **Name of coding system**

If IV Therapy is populated, a code system will always be sent.

ZPV.7.4   **Alternate identifier**

If a cross-reference table is defined, then the alternate code, text and coding system will be sent.

ZPV.9   **Oxygen therapy code & description**

A cross-reference table is not defined. This means an alternate identifier, text, and coding system is not sent.

ZPV.9.1.1   **Identifier**

If Oxygen Therapy is populated, a code will always be sent.

ZPV.9.2   **Text**

If Oxygen Therapy is populated, text will always be sent.

ZPV.9.3   **Name of coding system**

If Oxygen Therapy is populated, a coding system will be sent.

ZPV.9.4   **Alternate identifier**

If a cross-reference table is set up, an alternate identifier, text, and coding system will be sent.

ZPV.10   **Publicity code & description**

A cross-reference table is not defined. This means an alternate identifier, text, and coding system is not sent.

ZPV.10.1.1   **Identifier**

If Publicity Code is populated, a code will always be sent.

ZPV.10.2   **Text**

If Publicity Code is populated, text will always be sent.

ZPV.10.3   **Name of coding system**

If Publicity Code is populated, a coding system will always be sent.

ZPV.10.4 **Alternate identifier**

If a cross-reference table is defined, an alternate code, text, and coding system will be sent.

ZPV.11 **Smoker indicator**

"Y" or "N"

ZPV.12 **Admission level of care**

A cross-reference table is not defined. This means an alternate identifier, text, and coding system is not sent.

ZPV.12.1.1 **Identifier**

If Level of Care is populated, a code will always be sent.

ZPV.12.2 **Text**

If Level of Care is populated, text will always be sent.

ZPV.12.3 **Name of coding system**

If Level of Care is populated, a coding system will always be sent.

ZPV.12.4 **Alternate identifier**

If a cross-reference table is defined, alternate code, text and coding system will always be sent.

ZPV.13 **Precaution code & description**

STAR supports three distinct Precaution codes. Each code is stored in a separate field. Order is significant at some sites. For example, the first repetition may not be populated, but the second and third may be.

A cross-reference table is not defined. This means an alternate identifier, text, and coding system is not sent.

ZPV.13.1.1 **Identifier**

If Precaution is populated, a code will always be sent.

ZPV.13.2 **Text**

If Precaution is populated, text will always be sent.

ZPV.13.3   **Name of coding system**

If Precaution is populated, a coding system will always be sent.

ZPV.13.4   **Alternate identifier**

If cross-reference table is defined, alternate code, text, and coding system will be sent.

ZPV.14   **Condition code & description**

A cross-reference table is not defined. This means an alternate identifier, text, and coding system is not sent.

ZPV.14.1.1   **Identifier**

If Condition is populated, a code will always be sent.

ZPV.14.2   **Text**

If Condition is populated, text will always be sent.

ZPV.14.3   **Name of coding system**

If Condition is populated, a code system will always be sent.

ZPV.14.4   **Alternate identifier**

If cross-reference table is defined, then alternate code, text, and coding system will be sent.

ZPV.15   **Advance directive code & description**

A cross-reference table is not defined. This means an alternate identifier, text, and coding system is not sent.

ZPV.15.1   **Identifier**

If Advance Directive is populated, a code will always be sent.

ZPV.15.1.1   **Identifier**

If Advance Directive is populated, a code will always be sent.

ZPV.15.2   **Text**

If Advance Directive is populated, text will always be sent.

ZPV.15.3   **Name of coding system**

If Advance Directive is populated, a coding system will always be sent.

ZPV.15.4   **Alternate identifier**

If a cross-reference table is defined, alternate code, text, and coding system will be sent.

ZPV.16   **Consultation information**

Consulting Information is sent only on a P01 message.

ZPV.17   **Admission cancellation reason**

This field will be populated only on a Cancel Admit (A11) message. STAR does not have a cross-reference table defined so only local table is sent. For practical purposes, this means an alternate identifier, text and coding system will not be sent.

ZPV.17.1.1   **Identifier**

If Admission Cancellation Reason is populated, a code will always be sent.

ZPV.17.2   **Text**

If Admission Cancellation Reason is populated, text will always be sent.

ZPV.17.3   **Name of coding system**

If Admission Cancellation Reason is populated, a code system will always be sent.

ZPV.17.4   **Alternate identifier**

If cross-reference table is defined, alternate code, text, and coding system will be sent.

ZPV.18   **Shared care physician**

STAR stores Last,First Middle in a single 33 byte field. Pattern match is checked.

ZPV.18.2   **Family name**

Pattern match forces the family name to be sent.

ZPV.19   **ER physician**

STAR stores Last,First Middle in a single 33 byte field. Pattern match is checked.

ZPV.19.2   **Family name**

Pattern match forces the family name to be sent.

ZPV.20   **Phone charge indicator**

"Y" or "N"

ZRA - Additional practitioner information

Seq	Len	Data type	R/O/C	RP/#	Element name
1	51	CE	R		Primary Key Value
1.1	31	CM	R		Identifier
1.1.1	26	ID	R		Identifier
1.1.2			NS		Application ID
1.2	37	ST	R		Text
1.3	7	ST	R		Name of coding system
1.4	31	CM	O		Alternate identifier
1.4.1	26	ID	O		Alternate identifier
1.4.2	4	ID	O		Alternate appl ID
1.5	37	ST	O		Alternate text
1.6	7	ST	O		Alternate coding system name
2	3	ID	O		Primary specialty indicator

ZSE - Additional observation information

Seq	Len	Data type	R/O/C	RP/#	Element name
1	156	CE	R		Primary Key Value
1.1	31	CM	R		Identifier
1.1.1	26	ID	R		Identifier
1.1.2	4	ID	R		Application ID
1.2	37	ST	R		Text
1.3	7	ST	R		Name of coding system
1.4	31	CM	O		Alternate identifier
1.4.1	26	ID	O		Alternate identifier
1.4.2	4	ID	O		Alternate appl ID
1.5	37	ST	O		Alternate text
1.6	7	ST	O		Alternate coding system name
2	2	ID	O		Observation reportable indicator
3	2	ID	O		Observation required indicator
4	1	ID	R		Observation Type

ZSI - PCM service item master

Seq	Len	Data type	R/O/C	RP/#	Element name
1	156	CE	R		Primary Key Value
1.1	31	CM	R		Identifier
1.1.1	26	ID	R		Identifier
1.1.2	4	ID	R		Application ID
1.2	37	ST	R		Text
1.3	7	ST	R		Name of coding system
1.4	31	CM	O		Alternate identifier
1.4.1	26	ID	O		Alternate identifier
1.4.2	4	ST	O		Alternate appl ID
1.5	37	ST	O		Alternate text
1.6	7	ST	O		Alternate coding system name
2	33	CE	O		Performing department ID
2.1	3	CM	R		Identifier
2.1.1	3	ID	R		Identifier
2.1.2			NS		Application ID
2.2	20	ST	R		Text
2.3	7	ST	R		Name of coding system
2.4			NS		Alternate identifier
2.4.1			NS		Alternate identifier
2.4.2			NS		Alternate appl ID
2.5			NS		Alternate text
2.6			NS		Alternate coding system name
3	81	CE	O		Sub group ID
3.1	3	CM	R		Identifier
3.1.1	3	ID	R		Identifier
3.1.2			NS		Application ID
3.2	24	ST	R		Text
3.3	7	ST	R		Name of coding system
3.4			NS		Alternate identifier
3.4.1			NS		Alternate identifier
3.4.2			NS		Alternate appl ID
3.5			NS		Alternate text
3.6			NS		Alternate coding system name
4	1	ST	R		Active/inactive indicator
5	63	CE	O		Financial item
5.1	14	CM	R		Identifier
5.1.1	9	ID	R		Identifier
5.1.2	4	ST	R		Application ID
5.2	40	ST	R		Text

Seq	Len	Data type	R/O/C	RP/#	Element name
5.3	7	ST	R		Name of coding system
5.4			NS		Alternate identifier
5.5			NS		Alternate text
5.6			NS		Alternate coding system name
6	34	ID	O	Y	Dept profiling frequencies
7	1	ST	O		Order suppress
8	21	ID	O	Y	Restricted priorities
9	55	CE	O		SIM prompt
9.1	9	CM	R		Identifier
9.1.1	4	ID	R		Identifier
9.1.2	4	ST	R		Application ID
9.2	36	ST	R		Text
9.3	7	ST	R		Name of coding system
9.4			NS		Alternate identifier
9.5			NS		Alternate text
9.6			NS		Alternate coding system name
10	1	ST	O		Panel master indicator
11	1	ST	O		Order panel type
12	1	ST	C		Primary diet indicator
13	39	ID	O	Y	Applicable specimen sources
14	3	ID	O		Default specimen source
15	1	ST	O		Default nurse collect
16	75	CE	O		Default priority
16.1	9	CM	R		Identifier
16.1.1	4	ID	R		Identifier
16.1.2	4	ST	R		Application ID
16.2	19	ST	R		Text
16.3	7	ST	R		Name of coding system
16.4			NS		Alternate identifier
16.5			NS		Alternate text
16.6			NS		Alternate coding system name
17	35	CE	O		Default C/S source
17.1	7	CM	R		Identifier
17.1.1	2	ID	R		Identifier
17.1.2	4	ST	R		Application ID
17.2	19	ST	R		Text
17.3	7	ST	R		Name of coding system
17.4			NS		Alternate identifier
17.5			NS		Alternate text
17.6			NS		Alternate coding system name
18	6	ID	O		Default frequency

Seq	Len	Data type	R/O/C	RP/#	Element name
19	4	ST	O		Default duration
20	5	ST	O		Default interval

Field notes

ZSI.12   **Primary diet indicator**

If a primary diet, will contain "Y".

ZST - Additional staff information

Seq	Len	Data type	R/O/C	RP/#	Element name
1	145	CE	R		Primary key value
1.1	26	CM	R		Identifier
1.1.1	26	ID	R		Identifier
1.1.2			NS		Application ID
1.2	37	ST	R		Text
1.3	7	ST	R		Name of coding system
1.4	26	CM	O		Alternate identifier
1.4.1	26	ID	O		Alternate identifier
1.4.2			NS		Alternate application ID
1.5	37	ST	O		Alternate text
1.6	7	ST	O		Alternate coding system name
2			NS		Language code
3			NS		Care provider
4	1	ID	R		Application ID code

Field notes

4   **Application ID code**

From STAR's $ZA, application variable

ZT2 - PCM service item alternate names information

Seq	Len	Data type	R/O/C	RP/#	Element name
1	156	CE	R		Primary key value
1.1	31	CM	O		Identifier
1.1.1	26	ID	R		Identifier
1.1.2	4	ST	R		Application ID
1.2	37	ST	R		Text

Seq	Len	Data type	R/O/C	RP/#	Element name
1.3	7	ST	R		Name of coding system
1.4	31	CM	O		Alternate identifier
1.4.1	26	ID	O		Alternate identifier
1.4.2	4	ST	O		Alternate application ID
1.5	37	ST	O		Alternate text
1.6	7	ST	O		Alternate coding system name

Field notes

ZT2.1   **Primary key value**

The way this segment is intended to work is counter to the rule that the first field of the segment has to match MFE.4. This is a repeating segment, the first field containing the alternate name for the SIM item. It is really missing a second field, which should be the alternate SIM item.

Chapter 3 - Inbound Message Details

Note:	Key for R/O/C/N – "R"equired; "O"ptional; "C"onditional; "N"ot Supported. Not Supported is also some times presented with a GRAY Font "N/S" in the column.

Control messages

ACK - Acknowledgement

The Acknowledgement is sent back on the inbound interface to acknowledge the receipt of an HL7 message.

OB^ACK	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
MSA	Message Acknowledgment	R	
[ERR]	Error	O	

Patient processing / medical record update messages

Message structure

The message structure that is supported for the inbound messages within STAR is as follows.

- Braces {} indicate repeating segments.

- Brackets [] indicate optional segments.

- Rows in dark grey are not supported inbound on the message identified

These structures represent the segments supported inbound specific to STAR, not HL7 or HBOCHI standards in general.

A04 – Register a patient

IB^A04	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
[{ NK1 }]	Net of Kin	O	Y/2
PV1	Patient Visit	R	
[PV2]	Patient Visit - Additional Information	O	
[{ OBX }]	Observation/Result	O	Y
[{ AL1 }]	Allergy	N	
[{ DG1 }]	Diagnosis Information	O	Y/2 (Admitting & Working)
[{ PR1 }]	Procedures	N	
[{ GT1 }]	Guarantor Information	O	Y
[			
{ IN1	Insurance Information	O	Y/9
[IN2]	Insurance Information - Additional Information	O	Y/9
[IN3]	Insurance Information - Certification	O	Y/9
}			
]			
[ACC]	Accident	O	
[UB1]	Universal Bill Information	O	
[UB2]	Universal Bill 92 Information	O	
[ZPI]	Supplemental Patient ID Information	O	
[ZPV]	Supplemental Patient Visit Information	O	
[{ ZDG }]	Supplemental Diagnosis Information	N	
[{ ZPR }]	Supplemental Procedure Information	N	
[{ ZIN }]	Supplemental Insurance Information	O	Y/9
[ZAC]	Supplemental Accident Insurance	O	
[ZNB]	Supplemental Newborn Abstract Information	O	
[ZCA]	Contract Administration	O	

A08 - Update patient information

IB^A08	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	

IB^A08	Description	R/O/C/N	Repeating segment
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
[{ NK1 }]	Net of Kin	O	Y/2
PV1	Patient Visit	R	
[PV2]	Patient Visit - Additional Information	O	
[{ OBX }]	Observation/Result	O	Y
[{ AL1 }]	Allergy	N	
[{ DG1 }]	Diagnosis Information	O	Y/2 (Admitting & Working)
[{ PR1 }]	Procedures	N	
[{ GT1 }]	Guarantor Information	O	Y
[			
{ IN1	Insurance Information	O	Y/9
[IN2]	Insurance Information - Additional Information	O	Y/9
[IN3]	Insurance Information - Certification	O	Y/9
}			
]			
[ACC]	Accident	O	
[UB1]	Universal Bill Information	N	
[UB2]	Universal Bill 92 Information	N	
[ZPI]	Supplemental Patient ID Information	O	
[ZPV]	Supplemental Patient Visit Information	O	
[{ ZDG }]	Supplemental Diagnosis Information	N	
[{ ZPR }]	Supplemental Procedure Information	N	
[{ ZIN }]	Supplemental Insurance Information	O	Y/9
[ZAC]	Supplemental Accident Insurance	O	
[ZAB]	Supplemental Abstract Information	N	
[ZNB]	Supplemental Newborn Abstract Information	N	
[ZCA]	Contract Administration	N	
[{ ZUD }]	User Defined Fields	N	
[{ ZIP }]	Additional Insurance Provider Information	N	
[{ ZCH }]	Supplemental Person Information	N	

A14 - Pending admission

IB^A14	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
[{ NK1 }]	Net of Kin	O	Y/2
PV1	Patient Visit	R	
[PV2]	Patient Visit - Additional Information	O	

IB^A14	Description	R/O/C/N	Repeating segment
[{ OBX }]	Observation/Result	O	Y
[{ AL1 }]	Allergy	N	
[{ DG1 }]	Diagnosis Information	O	Y/2 (Admitting & Working)
[{ PR1}]	Procedures	N	
[{ GT1 }]	Guarantor Information	O	Y
[			
{ IN1	Insurance Information *(see "Updating Insurance Information")*	O	Y/9
[IN2]	Insurance Information - Additional Information	O	Y/9
[IN3]	Insurance Information - Certification	O	Y/9
}			
]			
[ACC]	Accident	O	
[UB1]	Universal Bill Information	N	
[UB2]	Universal Bill 92 Information	N	
[ZPI]	Supplemental Patient ID Information	O	
[ZPV]	Supplemental Patient Visit Information	O	
[{ ZDG }]	Supplemental Diagnosis Information	N	
[{ ZPR }]	Supplemental Procedure Information	N	
[{ ZIN }]	Supplemental Insurance Information	O	Y/9
[ZAC]	Supplemental Accident Insurance	O	
[ZAB]	Supplemental Abstract Information	N	
[ZNB]	Supplemental Newborn Abstract Information	N	
[ZCA]	Contract Administration	N	
[{ ZUD }]	User Defined Fields	N	
[{ ZIP }]	Additional Insurance Provider Information	N	
[{ ZCH }]	Supplemental Person Information	N	

A24 - Link patient information

IB^A24	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient (1) Identification	R	
[PD1]	Patient (1) Demographics	N	
[PV1]	Patient (1) Visit	N	
PID	Patient (2) Identification	R	
[PD1]	Patient (2) Demographics	N	
[PV1]	Patient (2) Visit	N	

A27 - Cancel pending admit

IB^A27	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
PV1	Patient Visit	R	
[PV2]	Patient Visit - Additional Information	N	
[{ OBX }]	Observation/Result	O	Y
[ZPI]	Supplemental Patient ID Information	O	

A28 – Add person or patient information

IB^A28	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
[{ NK1 }]	Net of Kin	O	Y
PV1	Patient Visit	R	
[PV2]	Patient Visit - Additional Information	O	
[{ OBX }]	Observation/Result	O	Y
[{ AL1 }]	Allergy	N	
[{ DG1 }]	Diagnosis Information	O	Y
[{ PR1}]	Procedures	O	Y
[{ GT1 }]	Guarantor Information	O	Y
[			
{ IN1	Insurance Information *(see "Updating Insurance Information")*	O	Y/9
[IN2]	Insurance Information - Additional Information	O	Y/9
[IN3]	Insurance Information - Certification	O	Y/9
}			
]			
[ACC]	Accident	O	
[UB1]	Universal Bill Information	N	
[UB2]	Universal Bill 92 Information	N	
[ZPI]	Supplemental Patient ID Information	O	
[ZPV]	Supplemental Patient Visit Information	O	
[{ ZDG }]	Supplemental Diagnosis Information	N	
[{ ZPR }]	Supplemental Procedure Information	N	
[{ ZIN }]	Supplemental Insurance Information	O	Y/9
[ZAC]	Supplemental Accident Insurance	O	

A31 - Update person information

IB^A31	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
[{ NK1 }]	Net of Kin	O	Y/2
PV1	Patient Visit	R	
[PV2]	Patient Visit - Additional Information	O	
[{ OBX }]	Observation/Result	O	Y
[{ AL1 }]	Allergy	N	
[{ DG1 }]	Diagnosis Information	O	Y/2 (Admitting & Working)
[{ PR1}]	Procedures	O	Y
[{ GT1 }]	Guarantor Information	O	Y
[			
{ IN1	Insurance Information *(see "Updating Insurance Information")*	O	Y/9
[IN2]	Insurance Information - Additional Information	O	Y/9
[IN3]	Insurance Information - Certification	O	Y/9
}			
]			
[ACC]	Accident	O	
[UB1]	Universal Bill Information	O	
[UB2]	Universal Bill 92 Information	O	
[ZPI]	Supplemental Patient ID Information	O	
[ZPV]	Supplemental Patient Visit Information	O	
[{ ZDG }]	Supplemental Diagnosis Information	O	Y/2
[{ ZPR }]	Supplemental Procedure Information	O	
[{ ZIN }]	Supplemental Insurance Information	O	Y/9
[ZAC]	Supplemental Accident Insurance	O	
[{ ZUD }]	User Defined Fields	N	
[{ ZIP }]	Additional Insurance Provider Information	N	
[{ ZCH }]	Supplemental Person Information	N	

Z46 (A46) - Change external ID

This message is used to change the Enterprise Number (PE). The new Enterprise Number is found in the PID; the Enterprise Number being replaced is found in the MRG segment.

IB^Z46	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	

IB^Z46	Description	R/O/C/N	Repeating segment
PID	Patient Identification	R	
[PD1]	Patient Demographics	O	
MRG	Merge Information	R	

A60 - Update adverse reaction information

IB^A60	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
EVN	Event Type	R	
PID	Patient Identification	R	
[PV1]	Patient Visit	O	
[PV2]	Patient Visit - Additional Info.	O	
[{ IAM }]	Patient adverse reaction information	R	Y

ADT Query messages

Overview

Supporting the following query messages was included in the STAR product as part of STI M20344. The following represents the general interface concepts with this project.

- Use a "Find Candidates" query and response message to allow Horizon Lab Outreach to query STAR to see if the patient and or guarantor already exist in the STAR MPI and to communicate unit number and other detailed patient information to Horizon Lab.

- Use an "Allocate Identifiers" query and response developed to allow Horizon Lab Outreach to request corporate, unit, and account numbers from STAR.

- STAR receives message to add a person in the STAR MPI.

- Once the HLWO user is ready to place an order on the patient, the order message will be preceded by a registration message.

Q22 / K22 - Find candidates (QBP) and response (RSP)

This query/response is designed for interaction between a client system and an MPI (Master Person Index). The query consists of a set of demographics for a person, and the response is the list of candidates considered by the MPI to match that set.

QBP^Q22	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
[{ SFT }]	Software Segment	N	
QPD	Query Parameter Definition Segment	R	
RCP	Response Control Parameters	R	
[DSC]	Continuation Pointer	O	

RSP^K22	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
[{ SFT }]	Software Segment	N	
MSA	Message Acknowledgement	O	
[ERR]	Error	C	
QAK	Query Acknowledgement	R	
QPD	Query Parameter Definition Segment	R	

Q24 / K24 - Allocate identifiers (QBP) and response (RSP)

This query/response is designed for interaction between a client system and an MPI (Master Person Index). The query consists of domains in which identifiers should be allocated. The response is new identifiers in those domains.

This event is not meant to cause the creation of a new person record, or to bind identifiers to a particular person record. The events A28 - Add person information and A24 - Link patient information should be used for that purpose. This event is meant to simply reserve the use of identifiers.

QBP^Q24	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
[{ SFT }]	Software Segment	N	
QPD	Query Parameter Definition Segment	R	
RCP	Response Control Parameters	R	
[DSC]	Continuation Pointer	O	

RSP^K24	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
[{ SFT }]	Software Segment	N	

MSA	Message Acknowledgement	O
[ERR]	Error	C
QAK	Query Acknowledgement	R
QPD	Query Parameter Definition Segment	R
PID	Patient Identification	O

Charge messages

Overview

Charges are processed on STAR in Order Management and networked to STAR Patient Accounting. When charges are received on STAR via an interface, this same process is used.

The purpose of this enhancement is to outline the data, messages and segments that must be received in STAR, and the processes that must occur in order that a charge can be received properly into STAR via the interface. This document includes information on the following.

- Messages and segments STAR supports to process inbound charges.

- STAR Charge Inquiry changes needed for interface charges.

- The effects on STAR charge related functions. These functions include:

  – Late charges

  – Charge on order items

  – Auto Re-pricing

  – OPCD functionality

  – Non-SIM, Formulary (Pharmacy) charges

- HL7 Batch processing, Batch Header (BHS) and Batch Trailer (BTS), are not supported, but multiple FT1 segments on a P03, Detailed Financial Transaction, is supported.

- Error Messages and reconciling reports.

Where charges are received from an interface, STAR has adopted the following.

- The 2.3b Transaction Type codes are used in the FT1.

- Cancelled orders do not initiate charge credits on STAR. Credits for cancelled orders require a credit in a P03 to be sent from the initiating system.

- Explosion of charges from charge panel item master items occur on STAR. STAR expects the sending system to send either the charge panel item master or the individual panel items, but not both.

- Profees are posted for items if the Profee parameter is set for the item on STAR.

- To comply with Medical Necessity processing, items passed in the interface with a modifier but no HCPC code are not processed because of the impact to the claims processing on STAR Financials.

P03 - Detailed financial transaction (DFT)

The following table represents the typical P03, Detailed Financial Transaction message and how STAR treats each segment. "N" in the "R/O/C/N" column indicates STAR does not read this segment inbound on this message. The segment may be supported in other messages.

IB^P03	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
[EVN]	Event Type	O	
PID	Patient Identification	R	
PV1	Patient Visit	C	
[PV2]	Patient Visit - Additional Information	O	
[{ OBX }]	Observation/Result	O	Y
FT1	Financial Transaction Information	R	Y
[ZCA]	Contract Administration	O	
[ZMQ]	Additional Financial Information	O	Y
[ZMM]	Meds Manager Pharmacy Financial segment	N	

Order messages

STAR Order Management supports both clinical and dietary orders for a number of Order Control codes. See *Supported Order Control Codes Table* following these order messages for details.

- Information in the PID segment of the order message does not update the Patient Information in STAR

- If a PV1 segment is received IB on an order message, the segment is ignored.

O01 - General order message - clinical

IB^O??	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	N
[{ NTE }]	Notes and Comments (for Header)	N	N
[PID	Patient Identification	R	N
[{ NTE }]	Notes and Comments (for Patient ID)	N	N
[{ AL1 }]	Allergy	N	N
[PV1]]	Patient Visit	N	N
{ ORC	Common Order	R	N
[OBR	Observation Request	R	
[{ NTE }]	Notes and Comments (for details)	O	
[[[[{ OBX	Observation/Result	O	
[{ NTE }]] }]]]	Notes and Comments (for results)	O	
[BLG]	Billing segment	N	
[ZOM]	Additional Order Information	C[4]	

Supported order control codes

Order control	Description	Clinical orders		Dietary orders	
		Inbound	Outbound	Inbound	Outbound
NW	New Order	Child (Orphan)	Child (Orphan)	Not supported	Child
PA	New Parent Order	Parent	Parent	Parent	Parent
CH	New Child Order	Child	Child	Not supported	Not supported
OK	Order Accepted	Not supported	Not supported	Parent	Not supported
SC	Order Status Changed	Parent/Child	Parent/Child	Parent/Child	Parent/Child
OC	Order Canceled	Parent/Child	Parent/Child	Not supported	Parent/Child
CA	Order Cancellation Request	Parent/Child	Parent/Child	Parent/Child	Not supported
CR	Order Canceled as Requested	Parent/Child	Parent/Child	Not supported	Parent/Child
UC	Unable to Cancel Order	Parent/Child	Parent/Child	Not supported	Parent/Child
OD	Order Discontinued	Parent	Parent	Not supported	Parent
DC	Order Discontinue Request	Parent	Parent	Parent	Not supported
DR	Order Discontinued as Requested	Parent	Parent	Not supported	Parent
UD	Unable to Discontinue Order	Parent	Parent	Not supported	Parent
OH	Order On Hold	Parent	Parent	Parent	Parent
HD	Order Hold Request	Parent	Parent	Parent	Parent
HR	Order Held as Requested	Parent	Parent	Parent	Parent
UH	Unable to Put on Hold	Parent	Parent	Parent	Parent

---

[4] Required for Nurse collect / Lab accession numbers on outbound.

Order control	Description	Clinical orders		Dietary orders	
		Inbound	Outbound	Inbound	Outbound
OR	Order Released	Parent	Parent	Parent	Parent
RL	Order Release Requested	Parent	Parent	Parent	Parent
RR	Order Released as Requested	Parent	Parent	Parent	Parent
UR	Unable to Release Order	Parent	Parent	Parent	Parent
XX	Order Changed	Child	Child	Not supported	Child
XO	Order Change Request	Parent/Child	Parent/Child	Parent/Child	Not supported
XR	Order Changed as Requested	Parent/Child	Parent/Child	Not supported	Parent/Child
UX	Unable to Change Order	Parent/Child	Parent/Child	Not supported	Parent/Child
SN	Send Number	Child	Child	Parent	Parent

Result messages

R01 - Unsolicited result observation

IB^R01	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
PID	Patient ID	R	
[NTE]	Notes & comments	N	
{[ORC]	Order Common (ORC-R)	O	Y
OBR	Observation Request (OBR-R)	R	Y -> OBR..ZOM repeats {}
{[NTE]}	Notes & comments	O	
{[OBX]	Observation / Result (OBX-R)	O	Y
{[NTE]}	Notes & comments	O	
[ZOM]	Additional order information	O	
}}			
[DSC]	Continuation	O	

R04 - Deferred query response

An R04 trigger is an Observational Report Response (ORF) message type. STAR supports this message inbound, but not outbound in 2.2b. The Query Response is received in STAR and acknowledged immediately.

Responses do not necessarily return in the order of the query requests. The Query ID (ORD.4) uniquely matches the query response to the query request.

IB^R04	Description	R/O/C/N	Repeating segment
MSH	Message Header	R	
QRD	Query Definition	R	
QRF	Query Filter	O	
PID	Patient ID	O	
{ ORC	Order Common	R	Y
OBR	Observation Request	R	Y
{ [NTE] }	Notes and Comments	O	Y
{ [OBX]	Observation/Result	O	Y
{ [NTE] }	Notes and Comments	O	Y
} }			
[ERR]	Error	O	
[DSC]	Continuation Pointer	O	

Scheduling messages

The current segments and messages supported Inbound by STAR are part of the STI M21908.

The following is information from the PHS 10.0 release documentation giving explanations of when these messages could be triggered outbound from PHS.

Key Events that trigger PHS' outbound Scheduling Messages:

• Newly scheduled appointments in PHS trigger HL7 S12 – Newly Scheduled Appointment events.

• Rescheduled appointments (i.e. changes in date, time or location) in PHS trigger HL7 S13 - Rescheduled Appointment events.

• Active appointments (i.e. appointments that are not inboxed, cancelled or waitlisted) where the reschedule reason is manually updated or changed in PHS trigger HL7 S13 - Rescheduled Appointment events.

• Modifying non-schedule related appointment information in PHS (i.e. making procedure and/or staffing changes via PHS' Edit Appointment Detail functionality) would trigger HL7 S14 - Modified Appointment events.

Additionally, certain inbound ADT updates via the PHS Interface Gateway can trigger this scheduling event if the "Send Triggered Scheduling Messages..." switch is activated within the PHS Interface Gateway's Configuration Program. Inbound ADT messages that will trigger these outbound scheduling messages (if the switch is activated) include regular ADT messages that update PHS' temporary patient account number to an ADT assigned real number as well as certain merge messages.

• Scheduled appointments that are canceled in PHS trigger HL7 S15 - Canceled Appointment events.

• Scheduled appointments that are moved to the Inbox or Waitlist in PHS trigger HL7 S15 - Canceled Appointment events.

• Canceled appointments that are scheduled /rescheduled in PHS trigger HL7 S12 – Newly Scheduled Appointment events.

• Inboxed or waitlisted appointments that are scheduled/rescheduled in PHS trigger HL7 S12 – Newly Scheduled Appointment events.

The following are notes related to PHS changes/format differences from HL7 or HBOCHI

MSH

HBOCHI 2.3b
MSH:22 will be sent containing "2.3B" for the HBOCHI version.
HBOCHI 2.2b
MSH:12 will be sent containing "2.2" for the HL7 version.
MSH:22 will be sent containing "2.2B" for the HBOCHI version.

PID
HBOCHI 2.3b
PID:50 will be sent containing the pat.is_pseudo_person for the HBOCHI version (Y/N field, necessary for HNE integration).
HBOCHI 2.2b
PID:50 will be sent containing the pat.is_pseudo_person for the HBOCHI version (Y/N field, necessary for HNE integration).

DG1
HBOCHI 2.3b
HBOCHI format differences require that DG1:3 be split with FF or I9 appearing in DG1:2 (a required field), icd9.abbr remaining in DG1:3.1 when
the DG1 segment is for ICD9 information and the visit.admit_reason or icd9.name appearing in DG1:4 as appropriate.
HBOCHI 2.2b
HBOCHI format differences require that DG1:3 be split with FF or I9 appearing in DG1:2 (a required field), icd9.abbr remaining in DG1:3.1 when
the DG1 segment is for ICD9 information and the visit.admit_reason or icd9.name appearing in DG1:4 as appropriate.

ZCI
The ZCI segment will only be sent out of PHS after a successful compliance check has been performed. From the perspective of the interface, a successful compliance check is one where the data for ZCI:2 exists.

S12 - Notification of new appointment booking

SIU^S12	Schedule Information Unsolicited	R/O/C/N	Repeating segment
MSH	Message Header	R	
SCH	Schedule Activity Information	O	
[{ TQ1 }]	Timing/Quantity	N	
[{ NTE }]	Notes and Comments for the SCH	N	
PID	Patient Identification	R	
[PD1]	Additional Demographics	N	
[PV1]	Patient Visit	O	
[PV2]	Patient Visit - Additional Info	O	
[{ OBX }]	Observation/Result	N	
[{ DG1 }]	Diagnosis	O	Y
RGS	Resource Group Segment	N	
AIS	Appointment Information – Service	O	Y
[{ NTE }]	Notes and Comments for the AIS	N	
AIG	Appointment Information - General Resource	N	
[{ NTE }]	Notes and Comments for the AIG	N	
AIL	Appointment Information - Location Resource	N	
[{ NTE }]	Notes and Comments for the AIL	N	
AIP	Appointment Information - Personnel Resource	N	
[{ NTE }]	Notes and Comments for the AIP	N	
ZCI	Compliance Check Information	O	

S13 – Notification of appointment rescheduling

SIU^S13	Schedule Information Unsolicited	R/O/C/N	Repeating segment
MSH	Message Header	R	
SCH	Schedule Activity Information	O	
[{ TQ1 }]	Timing/Quantity	N	
[{ NTE }]	Notes and Comments for the SCH	N	
PID	Patient Identification	R	
[PD1]	Additional Demographics	N	
[PV1]	Patient Visit	O	
[PV2]	Patient Visit - Additional Info	O	
[{ OBX }]	Observation/Result	N	
[{ DG1 }]	Diagnosis	O	Y
RGS	Resource Group Segment	N	
AIS	Appointment Information – Service	O	Y
[{ NTE }]	Notes and Comments for the AIS	N	
AIG	Appointment Information - General Resource	N	

SIU^S13	Schedule Information Unsolicited	R/O/C/N	Repeating segment
[{ NTE }]	Notes and Comments for the AIG	N	
AIL	Appointment Information - Location Resource	N	
[{ NTE }]	Notes and Comments for the AIL	N	
AIP	Appointment Information - Personnel Resource	N	
[{ NTE }]	Notes and Comments for the AIP	N	
ZCI	Compliance Check Information	O	

S14 – Notification of appointment modification

SIU^S14	Schedule Information Unsolicited	R/O/C/N	Repeating segment
MSH	Message Header	R	
SCH	Schedule Activity Information	O	
[{ TQ1 }]	Timing/Quantity	O	
[{ NTE }]	Notes and Comments for the SCH	N	
PID	Patient Identification	R	
[PD1]	Additional Demographics	N	
[PV1]	Patient Visit	O	
[PV2]	Patient Visit - Additional Info	O	
[{ OBX }]	Observation/Result	N	
[{ DG1 }]	Diagnosis	O	Y
RGS	Resource Group Segment	N	
AIS	Appointment Information - Service	O	Y
[{ NTE }]	Notes and Comments for the AIS	N	
AIG	Appointment Information - General Resource	N	
[{ NTE }]	Notes and Comments for the AIG	N	
AIL	Appointment Information - Location Resource	N	
[{ NTE }]	Notes and Comments for the AIL	N	
AIP	Appointment Information - Personnel Resource	N	
[{ NTE }]	Notes and Comments for the AIP	N	
ZCI	Compliance Check Information	O	

S15 – Notification of appointment cancellation

SIU^S15	Schedule Information Unsolicited	R/O/C/N	Repeating segment
MSH	Message Header	R	
SCH	Schedule Activity Information	O	
[{ TQ1 }]	Timing/Quantity	N	
[{ NTE }]	Notes and Comments for the SCH	N	

SIU^S15	Schedule Information Unsolicited	R/O/C/N	Repeating segment
PID	Patient Identification	R	
[PD1]	Additional Demographics	N	
[PV1]	Patient Visit	O	
[PV2]	Patient Visit - Additional Info	O	
[{ OBX }]	Observation/Result	N	
[{ DG1 }]	Diagnosis	N	
RGS	Resource Group Segment	N	
AIS	Appointment Information - Service	O	Y
[{ NTE }]	Notes and Comments for the AIS	N	
AIG	Appointment Information - General Resource	N	
[{ NTE }]	Notes and Comments for the AIG	N	
AIL	Appointment Information - Location Resource	N	
[{ NTE }]	Notes and Comments for the AIL	N	
AIP	Appointment Information - Personnel Resource	N	
[{ NTE }]	Notes and Comments for the AIP	N	

Inbound segment details

STAR does not support the same data inbound as it does outbound. That is, STAR sends fully populated messages outbound. However, when receiving messages inbound, it only reads and acts on information pertinent to processing that segment. Some fields on segments may be supported on some messages but not all messages containing the segment. These types of details are found either in the notes preceding the segment table or in the "Comments" column of the segment table.

Segment tables' legend

The **inbound** specifications for message segments supported in the Access Management Release 6.0/STAR integration design is documented in table format. To assist with interpreting these tables, the abbreviations for column headers and date within are defined below:

Column	Description		
SEQ	Sequence # in the message segment		
LEN	Maximum allowable length		
DT	Data types		
	AD	Address	
	CE	Coded element	
	CF	Code element with format values	
	CK	Composite ID with check digit	

Column	Description	
	CM	Composite
	CN	Composite ID number and name
	CNE	Coded with no exceptions
	CP	Composite price
	CQ	Composite quantity with units
	DT	Date (always in format CCYYYMMDD)
	EI	Entity identifier
	FT	Formatted text or data
	ID	Coded value
	JCC	Job code/class
	MO	Money (quantity; denomination or country code)
	NM	Numeric (leading sign, + or -, optional)
	PN	Person Name
	RP	Reference Pointer
	SI	Sequence ID, positive integer
	ST	String data (left justified)
	TM	Time (always in format HHMM[SS[.SSSS]][+/-ZZZZ])
	TN	Telephone number
	TQ	Timing quantity
	TS	Time stamp (always in YYYYMMDD[HHMM[SS[.SSSS]]][+/-ZZZZ];degree of precision). STAR reads only to the minute.
	TX	Text data (meant for user display, leading spaces allowed)
	XCN	Extended composite ID number and name for persons
	XON	Extended composite name and identification number for organizations
	XPN	Extended person name
R/O/C/NS (or N)	Required / Optional / Conditional / Not supported	
	R	Required by this application and must be populated in every instance
	O	Optional; should be included in the message if available, but is not critical to this application
	C	Conditional; required by this application under certain conditions
	NS	Not supported on outbound
RP/#	Repeating fields	
	Y	Field repeats, indefinite # of times if no number follows
	/#	Indicates number of times field may repeat
Element name	HL7 2.2 element name	
Comments / conditionality rules	Fields populated on STAR are indicated in **bold** type. Additional comments include accepted values, processing rules, errors messages and the conditional rule when the field is conditionally required.	

ACC - Accident information

Seq	Len	Data type	R/O/C	RP/#	Element name
1	12	TS	O		Date/Time
2	1	ID	O		Code
3	25	ST	O		Location
4			NS		State
5			NS		Job Related Indicator
6			NS		Death Indicator
7			NS		Entered by
8	25	CE	O		Description
9			NS		Brought in by
10			NS		Police Notified Indicator

AIS – Appointment information

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	O		Set ID - AIS
2	3	ID	O		Segment Action Code
3	250	CE	R		Universal Service Identifier
4	26	TS	O		Start Date/Time
5	20	NM	N		Start Date/Time Offset
6	250	CE	N		Start Date/Time Offset Units
7	20	NM	N		Duration
8	250	CE	N		Duration Units
9	10	IS	N		Allow Substitution Code
10	250	CE	N		Filler Status Code
11	250	CE	N	Y	Placer Supplemental Service Information
12	250	CE	N	Y	Filler Supplemental Service Information

AL1 - Allergy information

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	NS		Set ID - Allergy
2	2	ID	NS		Allergy Type
3	103	CE	NS		Allergy Code/Mnemonic Description
4			NS		Allergy Severity
5			NS		Allergy Reaction
6	8	DT	NS		Identification Date

DG1 - Diagnosis information segment

STAR processes the DG1 in "snapshot" mode. That is STAR replaces existing data related to this segment with the new data in the repeating DG1 segments. This replacement is selective in that if there is an error on one of the segments, a warning is produced for that segment, but all information on valid segments is accepted.

If more than the maximum number of diagnosis than STAR can handle is sent for a given diagnosis type, STAR ignores the additional diagnoses. STAR supports:

- 1 Admitting

- 1 Working

- 1 Principle

- Multiple Secondary

Diagnosis Priority field is used in conjunction with Diagnosis Type field to determine the diagnosis type.

The system loops through each DG1 segment received. If any of the Diagnosis Types are invalid values on STAR, a warning message 'Invalid DIAGNOSIS TYPE, no update made!' is generated and that segment is not processed.

If multiple Admitting and/or Working Diagnoses are received, only the first one used.

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID - Diagnosis
2	2	ID	R		Diagnosis Coding Method
3	8	ID	C		Diagnosis Code
4	33	ST	C		Diagnosis Description
5			NS		Diagnosis Date/Time
6	2	ID	R		Diagnosis/DRG Type
7			NS		Major Diagnostic Category
8			NS		Diagnostic Related Group (DRG)
9			NS		DRG Approval Indicator
10			NS		DRG Grouper Review Code
11			NS		Outlier Type
12			NS		Outlier Days
13			NS		Outlier Cost
14			NS		Grouper Version and Type
15	3	ID	O		Diagnosis/DRG Priority
16			NS		Diagnosing Clinician

Field notes

DG1.1   Set ID - Diagnosis

STAR uses the set ID to determine the order within a given Diagnosis Type if a priority is not indicated in DG1.6 and there are multiples of a given Type.

DG1.2   Diagnosis Coding Method

STAR sends and accepts the following codes for associated coding methods:

Value	Description
I9	ICD9
DS	DSM
FF	Free Form
UD	User Defined

DG1.3   Diagnosis Code

ICD-9-CM Diagnosis Pointer [DIA] table on STAR is used for UD. Otherwise the ICD9CM table is used which is a standard table across industry.
Code is required except when FF (free form) is indicated in DG1.2.

If User Defined codes are used (see DG1.2), then codes from the sending system must match those on STAR (DIA) table.

DG1.4   Diagnosis Description

Description is taken from STAR ICD9CM table.
Description is required if FF (free form) is indicated in DG1.2.

If Free Form diagnosis is sent (see DG1.2), the description is populated in STAR as a Free Form diagnosis.

DG1.5   Diagnosis Date/Time

Not supported inbound.

DG1.6   Diagnosis/DRG Type

Following values must be matched:

Value	Description
A	Admitting (STAR accepts 1)
W	Working (STAR accepts 1)

These values are not table driven.

If invalid type display warning message 'Invalid DIAGNOSIS TYPE, no update made!' and STOP processing this Segment! An invalid Diagnosis/DRG TypeDG1.6 is invalid if it does not have either an 'A' or 'W'

DG1.7   **Major Diagnostic Category**

Not supported inbound.

DG1.8   **Diagnostic Related Group (DRG)**

Not supported inbound.

DG1.9   **DRG Approval Indicator**

Not supported inbound.

DG1.10   **DRG Grouper Review Code**

Not supported inbound.

DG1.11   **Outlier Type**

Not supported inbound.

DG1.12   **Outlier Days**

Not supported inbound.

DG1.13   **Outlier Cost**

Not supported inbound.

DG1.14   **Grouper Version and Type**

Not supported inbound.

DG1.15   **Diagnosis/DRG Priority**

If present is used to sequence the Diagnosis within each Type.

DG1.16   **Diagnosing Clinician**

Not supported inbound.

DSC - Continuation pointer

STAR supports this segment on the inbound on the following messages.

- Query Request message (R04).

Seq	Len	Data type	R/O/C	RP/#	Element name
1	180	ST	C	Y	Continuation Pointer

Field notes

DSC.1   **Continuation Pointer**

Present when more data follows

Conditionality rule: Required when additional data is available that was not sent in current message.

ERR - Error segment

STAR supports this segment the inbound Query Request message, R04. It is not supported outbound on the Query Request, R02.

Seq	Len	Data type	R/O/C	RP/#	Element name
1	80	CM	O	Y	Error Code and Location

Field notes

ERR.1   **Error Code and Location**

ERR.1.4 the Description will display.

EVN - Event type segment

While some systems may view this as necessary only for backward compatibility, this segment is listed as a required segment on all ADT messages in the HBOC HL7 Interface standards (HBOCHI). STAR requires this segment inbound on all ADT type messages. STAR always takes in the initials of the person who is responsible for the event, EVN.5.

Seq	Len	Data type	R/O/C	RP/#	Element name
1	3		NS		Event Type Code
2	12	TS	O		Date/Time of Event
3	26	TS	NS		Date/Time of Planned Event

Seq	Len	Data type	R/O/C	RP/#	Element name
4	3		NS		Event Reason Code
5	60	XCN	O		Operator ID

Field notes

EVN.1   **Event Type Code**

Not supported inbound.

EVN.2   **Date/Time of Event**

Optional field.

EVN.3   **Date/Time of Planned Event**

Not supported inbound.

EVN.4   **Event Reason Code**

Not supported inbound.

EVN.5   **Operator ID**

Initials

If not sent, STAR defaults the interface code as the Operator's initials.

FT1 - Financial transaction

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	C		Set ID - Financial Transaction
2	10	ST	R		Transaction ID
3	10	ST	O		Transaction batch ID
4	8	DT	R		Transaction date
5			NS		Transaction posting time
6	8	ID	R		Transaction type
7	20	CE	R		Transaction code
7.1	23	CM	R		Identifier
7.1.1	16	ID	R		Identifier
7.1.2	6	ST	O		Application ID
7.2	32	ST	O		Text
7.3					Name of coding system
7.4					Alternate identifier

Seq	Len	Data type	R/O/C	RP/#	Element name
7.5					Alternate text
7.6					Name of alternate coding system
8	40	ST	O		Transaction description
9	40	ST	O		Transaction description - alternate
10	4	NM	O		Transaction quantity
11	12	NM	O		Transaction amount - extended
12	12	NM	O		Transaction amount - unit
13	60	CE	C		Department code
13.1	23	ID	O		Identifier
13.2	25	ST			Text
13.3	25	ST			Name of coding system
13.4	23	CM			Alternate identifier
13.5	25	ST			Alternate text
13.6	25	ST			Name of alternate coding system
14	8	ID	O		Insurance plan ID
15	12	NM	O		Insurance amount
16	12	CM	O		Assigned patient location
17	1	ID	O		Fee schedule
18	2	ID	O		Patient type
19	8	CE	O	N	Diagnosis code
19.1	23	ID	O		Identifier
19.2	25	ST	?		Text
19.3	25	ST	O		Name of coding system
19.4					Alternate identifier
19.4.1					Alternate identifier
19.4.2					Alternate application ID
19.5					Alternate text
19.6					Name of alternate coding system
20	60	CN	O		Performed by code
20.1	12	ST			ID number
20.2	1	ST			Family name
20.3	1	ST			Given name
20.4	1	ST			Middle name or initial
20.5	10	ST			Suffix
20.6	10	ST			Prefix
20.7	10	ST			Degree
20.8	1	ID			Source table
21	124	CN	O		Ordered by code
21.1	12	ST	O		ID number
21.2	1	ST	O		Family name
21.3	1	ST	O		Given name

Seq	Len	Data type	R/O/C	RP/#	Element name
21.4	1	ST	O		Middle name or initial
21.5					Suffix
21.6					Prefix
21.7					Degree
21.8					Source table
22	12	NM	O		Unit cost
23	75	CM	O	N	Filler order number
23.1	35	ID	O	N	Unique filler ID
23.2	39	ID	O	N	Filler application ID
24	120	CN	O		Entered by Code
24.1	12	ST	O		ID number
24.2	1	ST	O		Family name
24.3	1	ST	O		Given name
24.4	1	ST	O		Middle name or initial
24.5					Suffix
24.6					Prefix
24.7					Degree
24.8					Source table
25	80	CE	O		Procedure code
25.1	5	ID	O		Identifier
25.2					Text
25.3					Name of coding system
25.4					Alternate identifier
25.5					Alternate text
25.6					Name of alternate coding system
26	80	CE	O	Y	Procedure modifier
26.1	2	ID	O		Identifier
26.2					Text
26.3					Name of coding system
26.4					Alternate identifier
26.5					Alternate text
26.6					Name of alternate coding system
27	80	CE	O		ABN Indicator
28	80	CE	O	Y	Medically Necessary Duplicate Procedure (HCPCS) reason
29	80	CE	O		NDC
30			NS		Reserved -HL7 Expansion
31			NS		Reserved -HL7 Expansion
32			NS		Reserved -HL7 Expansion
33			NS		Reserved -HL7 Expansion
34			NS		Reserved -HL7 Expansion

Seq	Len	Data type	R/O/C	RP/#	Element name
35			NS		Reserved -HL7 Expansion
36			NS		Reserved -HL7 Expansion
37			NS		Reserved -HL7 Expansion
39			NS		Reserved -HL7 Expansion
40			NS		Reserved -HL7 Expansion
41			NS		Reserved -HL7 Expansion
42			NS		Reserved -HL7 Expansion
43			NS		Reserved -HL7 Expansion
44			NS		Reserved -HL7 Expansion
45			NS		Reserved -HL7 Expansion
46	36	TX	NS		ABN Override reason (TBD)

Field notes

FT1.1   **Set ID - Financial Transaction**

Conditionality rule: Required to match to corresponding ZMQ when ZMQ present.

FT1.2   **Transaction ID**

Not supported inbound.

FT1.3   **Transaction batch ID**

Not supported inbound.

FT1.4   **Transaction date**

Due to regulatory requirements, STAR will reject any charge message that does not have the transaction date. This is the service date.

FT1.5   **Transaction posting time**

Not supported inbound.

STAR uses the date they actual post the charge.

FT1.6   **Transaction type**

STAR supported the following values:

Value	Description
CG	Charge
CD	Credit

If these values not sent, a warning is generated and the segment is not processed.

FT1.7   **Transaction code**

Charge items must be the SIM code for SIM departments or for pharmacy charges, must have a non-SIM department.

A check is made on STAR to determine if the charge is for a SIM department or a non-SIM department formulary item.

Meds Manager uses up to a 12-digit code

FT1.7.1.1   **Identifier**

SIM Code/ Formulary code

FT1.7.1.2   **Application ID**

SIM Department

STAR must have the department. If not received here it must be in FT1.13.

Meds Manager will not be sending. The Dept will be obtained from the Sending Application Profile build during implementation [CT("APPS" node].

FT1.7.2   **Text**

STAR supports this message for Pharmacy charges only. If not in this field, STAR will look at fields 8 and 9.

FT1.7.3   **Name of coding system**

Not supported inbound.

FT1.7.4   **Alternate identifier**

Not supported inbound

FT1.7.5   **Alternate text**

Not supported inbound.

FT1.7.6   **Name of alternate coding system**

Not supported inbound.

FT1.8   **Transaction description**

STAR supports this message for Pharmacy charges only if not in 7.2.

FT1.9   **Transaction description - alternate**

STAR supports this message for Pharmacy charges only if not in 8.

FT1.10   **Transaction quantity**

STAR will calculate the charge based on quantity sent in this field and Unit Amount in field 12 if field 11 is not populated. If no quantity sent, 1 is assumed. If 1 is assumed, an informational error will be generated.

If null quantity is received, STAR defaults quantity to 1 and generates an informational error message. An invalid entry will also generate an informational error message and STAR will default the quantity to 1.

If a literal zero (0) is received, a fatal error is generated and charge is not posted.

FT1.11   **Transaction amount - extended**

STAR uses this value to charge if it is sent. The charge is treated as a manual charge. Otherwise, it takes the value from the SIM table on STAR.

STAR expects that items passed as formulary items will not be built in the SIM, therefore if no charge is passed in the message, the time will default to zero (dollars).

FT1.12   **Transaction amount - unit**

STAR uses this value to calculate charge if it is sent and nothing is sent in field 11. The charge is treated as a manual charge. Otherwise, it takes the value from the SIM table on STAR.

STAR supports the + and - signs on this field and calculates accordingly. If a credit is sent in FT1.6, then this is processed as a negative credit (in essence a charge).

If this is a pharmacy charge and there is not price in FT1.11 or FT1.12, the charge is not processed and warning is generated.

FT1.13   **Department code**

STAR reads this field as the Charge Location. (Where the charge was initiated from. This could be the department.

Meds Manager does not support this field.

FT1.13.1   **Identifier**

                 Department

FT1.13.2   Text

Not supported inbound.

FT1.13.3   Name of coding system

Not supported inbound.

FT1.13.4   Alternate identifier

Not supported inbound.

FT1.13.5   Alternate text

Not supported inbound.

FT1.13.6   Name of alternate coding system

Not supported inbound.

FT1.19   Diagnosis code

STAR reviews this field only if this is a manual charge.

FT1.19.1   Identifier

Ordering Diagnosis

FT1.19.4   Alternate identifier

Not supported inbound.

FT1.19.4.1   Alternate identifier

Not supported inbound.

FT1.19.4.2   Alternate application ID

Not supported inbound.

FT1.19.5   Alternate text

Not supported inbound.

FT1.19.6   Name of alternate coding system

Not supported inbound.

FT1.20   **Performed by code**

Performed By

If the charge is based on an order that exists on STAR, then this field is not read. STAR expects a valid physician code.

If STAR does not have the Performed By already on the order, then STAR takes the code sent and matches it to the physician. Else, STAR uses the initials of the name sent.

FT1.20.1   **ID number**

Physician ID

FT1.20.2   **Family name**

Last initial

FT1.20.3   **Given name**

First initial

FT1.20.4   **Middle name or initial**

Middle initial

FT1.20.5   **Suffix**

Not supported inbound.

FT1.20.6   **Prefix**

Not supported inbound.

FT1.20.7   **Degree**

Not supported inbound.

FT1.20.8   **Source table**

Not supported inbound.

FT1.21   **Ordered by code**

Ordered By

If the charge is based on an order that exists on STAR, then this field is not read. STAR expects a valid physician code.

If STAR does not have the Order By already on the order, then STAR takes the code sent and matches it to the physician. Else, STAR uses the initials of the name sent.

FT1.21.1   **ID number**

Physician ID

FT1.21.2   **Family name**

Last initial

FT1.21.3   **Given name**

First initial

FT1.21.4   **Middle name or initial**

Middle initial

FT1.21.5   **Suffix**

Not supported inbound.

FT1.21.6   **Prefix**

Not supported inbound.

FT1.21.7   **Degree**

Not supported inbound.

FT1.21.8   **Source table**

Not supported inbound.

FT1.23   **Filler order number**

STAR reads this field and then finds the Placer ID for the order if it exists.

STAR does not read this for Pharmacy charges since the Pharmacy orders are not kept on STAR.

FT1.24   **Entered by Code**

Charged By

If the charge is based on an order that exists on STAR, then this field is not read.

If STAR does not have the order, then STAR takes the code sent and matches it to the physician to determine what to place in the Charge By field. Else, STAR uses the initials of the name sent.

FT1.24.1   **ID number**

Physician ID

FT1.24.2   **Family name**

Last initial

FT1.24.3   **Given name**

First initial

FT1.24.4   **Middle name or initial**

Middle initial

FT1.24.5   **Suffix**

Not supported inbound.

FT1.24.6   **Prefix**

Not supported inbound.

FT1.24.7   **Degree**

Not supported inbound.

FT1.24.8   **Source table**

Not supported inbound.

FT1.25   **Procedure code**

Not Expected for Pharmacy Charges except for Medicare patients.

Regulatory requirement by HCFA for outpatients with Medicare patients.

STAR reads only if the patient is an outpatient with Medicare insurance. If not found, the charge is still passed to STAR Financials. The financial will have to reconcile this before sending the claim.

FT1.25.1 **Identifier**

Procedure Code

FT1.25.2 **Text**

Not supported inbound.

FT1.25.3 **Name of coding system**

Not supported inbound.

FT1.25.4 **Alternate identifier**

Not supported inbound.

FT1.25.5 **Alternate text**

Not supported inbound.

FT1.25.6 **Name of alternate coding system**

Not supported inbound.

FT1.26 **Procedure modifier**

This field is not processed on Pharmacy charges.

For other charges if a HCPCS code is sent, STAR will look for the Modifier. STAR will not accept a modifier unless there is a HCPC code.

FT1.26.1 **Identifier**

Modifier

FT1.26.2 **Text**

Not supported inbound.

FT1.26.3 **Name of coding system**

Not supported inbound.

FT1.26.4 **Alternate identifier**

Not supported inbound.

FT1.26.5   **Alternate text**

Not supported inbound.

FT1.26.6   **Name of alternate coding system**

Not supported inbound.

FT1.27   **ABN Indicator**

Not Expected for Pharmacy Charges

This field will indicate whether an ABN form was signed for a test that was ordered with a non-approved diagnosis code

HL7 Table - 0339

If this field is populated, FT1 25 AND FT1 19 must also be populated.

FT1.28   **Medically Necessary Duplicate Procedure (HCPCS) reason**

Not Expected for Pharmacy Charges.

This field will give justification as to why a duplicate test can be billed to the insurance plan.

If this field is populated, FT1 25 must be populated.

FT1.46   **ABN Override reason (TBD)**

Not supported inbound…

This field could be used to indicate why the ABN form was not signed.

GT1 - Guarantor segment

The Guarantor is processed based on identification the Guarantor Number (GT1.2). If the Guarantor Number is not sent, or if the number sent is not found on STAR, the Guarantor sent in a Pending Admission (A14) is not processed. Instead, if STAR has a Master Guarantor on the patient, it is brought forward.

Examples of the fields indicated in the "Comments" column can be seen on the *Guarantor* and *Guarantor Employer* screens.

The STAR system determines whether the patient and the guarantor are the same people. If the Guarantor is not the patient, a link is created between the two.

If the inbound message modifies any of the following on an existing guarantor, the name, Date of Birth, or Sex, a warning message is generated: "Guarantor identifiers match, but name, sex, and/or birthdate changed".

If a new guarantor is added by the message, the guarantor entry is link to the patient for this account.

If a name is changed, the old name is always retained in the MPI. "P" for "Previous" is always used for the name type if not available. A pseudo name check is also performed when the guarantor's name is changed. If the name was previously a Pseudo Name and is no longer, the person is promoted to a full person.

All guarantors added must have an existing Corporate Number or one is created.

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID - Guarantor
2	9	CM	R	Y/3	Guarantor Number
2.1	12	ST			Patient ID
2.2	1	1	O		Check digit
2.3					Check digit scheme
2.4	6	ID	O		Assigning facility ID
2.5	2	ID	R		Identifier type code
2.6					Assigning facility
3	48	PN	C		Guarantor Name
3.1	33	ST	O		Family name
3.2	33	ST	O		Given name
3.3	33	ST	O		Middle name or initial
3.4	5	ST	O		Suffix
4					Guarantor Spouse Name
5	90	AD	O	Y	Guarantor Address
5.1	25	ST	O		Street address
5.2	25	ST	O		Other designation
5.3	18	ST	O		City
5.4	2	ST	O		State/province
5.5	9	ST	O		Zip/postal code
5.6	5	ID	O		Country
5.7	1	ID	O		Type
5.8	2	ST	O		Other geographic designation
6	18	TN	O		Guarantor Ph Num - Home
7					Guarantor Ph Num - Business
8	8	DT	R		Guarantor Date of Birth

Seq	Len	Data type	R/O/C	RP/#	Element name
9	1	ID	R		Guarantor Sex
10					Guarantor Type
11	1	ID	R		Guarantor Relationship
12	17	ST	O		Guarantor SSN
13					Guarantor Date - Begin
14					Guarantor Date - End
15	1	NM	O		Guarantor Priority
16	34	CE	O		Guarantor Employer Name
16.1	6	ID	O		Identifier
16.2	21	ST	O		Text
16.3					Coding system
16.4					Alternate identifier
16.5					Alternate text
16.6					Alternate coding system
17	90	AD	O		Guarantor Employer Address
17.1	25	ST	O		Street address
17.2	25	ST	O		Other designation
17.3	18	ST	O		City
17.4	2	ST	O		State/province
17.5	9	ST	O		Zip/postal code
17.6	2	ID	O		Country
17.7	1	ID	O		Type
17.8	5	ST	O		Other geographic designation
18	18	TN	O	Y/3	Guarantor Employer Ph Num
19	15	ST	O		Guarantor Employee ID Num
20	1	ID	O		Guarantor Employment Status
21			NS		Guarantor Organization
22			NS		Guarantor Billing Hold Flag
23			NS		Guarantor Credit Rating Code
24	8	DT	O		Guarantor Death Date
25	1	IS	O		Guarantor Death Flag
26			NS		Guarantor Change Adjustment Code
27			NS		Guarantor Household Annual Income
28			NS		Guarantor Household Size
29			NS		Guarantor Employee ID
30	1	ID	O		Guarantor Marital Status
31	8	DT	O		Guarantor Hire Effective Date
32	8	DT	O		Guarantor Employment Stop Date
33			NS		Guarantor Living Dependency
34			NS		Guarantor Ambulatory Status
35			O		Guarantor Citizenship

Seq	Len	Data type	R/O/C	RP/#	Element name
36	20	CE	O		Guarantor Primary Language
37	1	CE	O		Guarantor Living Arrangement
38			NS		Guarantor Publicity Indicator
39			NS		Guarantor Protection Indicator
40			NS		Guarantor Student Indicator
41			NS		Guarantor Religion
42	25	ST	O		Guarantor Mother's Maiden Name
43	3	CE	O		Guarantor Nationality
44			NS		Guarantor Ethnic Group
45	25	XPN	O		Guarantor Contact Person Name
46			NS		Guarantor Contact Person Phone Number
47			NS		Guarantor Contact Reason
48	???	CE	O		Guarantor Contact Person Relationship
49			NS		Guarantor Job Title
50	23	JCC	O		Guarantor Job Code/Class
51	27	CE	O		Guarantor Employer Organization
52			NS		Guarantor Handicap
53			NS		Guarantor Job Status
54			NS		Guarantor Financial Class
55	???	CE	O		Guarantor Race
56	25	ST	O		Guarantor Birthplace
57	3	ID	O		Guarantor VIP Indicator

Field notes

GT1.1　　　**Set ID - Guarantor**

STAR uses this field only if the Guarantor Priority is not set. Then STAR takes the lowest Set ID, since STAR supports only one Guarantor.

GT1.2　　　**Guarantor Number**

Corporate Number

HBOCHI uses the same format as for the PID.3 and utilizes "type". STAR reads the "PI", Patient Identifier as the patient's Corporate Number if "CN", Corporate Number type is not present. The "PE" identifier is read as Enterprise Number for the Guarantor.

If Point Of Service is turned on, Guarantor information is processed only if the Person Enterprise Number is supplied.

GT1.2.1　　　**Patient ID**

If PID.3 sent, this field is required.

GT1.2.3   **Check digit scheme**

Not supported inbound.

GT1.2.4   **Assigning facility ID**

Assigning Authority

GT1.2.5   **Identifier type code**

CN or PI and PE

STAR reads the "PI", Patient Identifier as the patient's Corporate Number if "CN", Corporate Number type is not present.

The "PE" identifier is read as Enterprise Number for the Guarantor. It is required to process the Guarantor if Point of Service is on.

If PID.3 sent, this field is required.

GT1.3   **Guarantor Name**

Guarantor's Name

STAR formats the Guarantor and Patient's name as follows:

Name <Last,First Middle> (37 includes comma and space formatting characters)

No matching logic is performed on Name.

The interface honors the Name pattern match found in HBO Parameter Settings for ~A1. The same name check against the pattern match is used for the Guarantor and the Patient's name. If the name is adjusted as a result, a warning is generated, "Guarantor's name has been adjusted!', and an update is sent outbound.

If name is invalid or the GT1.3 value is double quotes or equals blank, then a warning message is generated, 'Guarantor NAME is not valid!'

If the name sent is a valid name and different then current, then STAR updates the Guarantor's Name. The suffix, if present, is added/updated as the Entitle on STAR.

Pseudo Person checks and updates are performed on the Guarantor as they are with a patient's name.

GT1.3.1   **Family name**

Last Name

GT1.3.2   **Given name**

First Name

GT1.3.3   **Middle name or initial**

Middle Name

GT1.3.4   **Suffix**

Entitle

GT1.4   **Guarantor Spouse Name**

Not supported inbound.

GT1.5   **Guarantor Address**

Guarantor's Address

STAR Financials requires an address for billing.

Valid address types include:

Value	Description
P	Permanent - STAR's Mailing Address
C	Current - STAR's Alternate Address
O	STAR's Employer Address

GT1.5.1   **Street address**

Mailing Address Line 1

GT1.5.2   **Other designation**

Mailing Address Line 2

GT1.5.3   **City**

City

GT1.5.4   **State/province**

State

GT1.5.5   **Zip/postal code**

ZIP Code

GT1.5.6   **Country**

County

GT1.5.7   **Type**

Valid address types include:

Value	Description
P	Permanent - STAR's Mailing Address
C	Current - STAR's Alternate Address
O	STAR's Employer Address

If not sent then STAR defaults the first address to Permanent and the second to Alternate.

GT1.5.8   **Other geographic designation**

Country

GT1.6   **Guarantor Ph Num - Home**

Phone & Ext. (Guarantor's)

STAR supports the phone number and the extension to the phone number.

- Phone (13)

- Ext. (4)

STAR processes only the first occurrence of this field.

GT1.7   **Guarantor Ph Num - Business**

Not supported inbound.

GT1.8   **Guarantor Date of Birth**

Birthdate (Guarantor's)

Guarantor and Patient's birthdates are processed the same.

If invalid format received or date is greater than current system date and current guarantor birthdate is blank, STAR defaults to facility options DOB Search Default field and display warning message 'Guarantor BIRTHDATE is not valid, default to DOB Search Default!'.

If the guarantor birthdate is still blank, then default to current system date.

If the birthdate was defaulted/changed, an outbound update is sent.

If a valid birhtdate is received and different then current, the birtheade is updated.

GT1.9   **Guarantor Sex**

Sex (Guarantor's)

STAR supports only:

Value	Description
M	Male
F	Female

Since STAR requires a sex on all MPI entries.

If not sent and guarantor currently does not have a sex assigned, STAR defaults to "F" if STAR receives a null or unrecognized sex code on a new person/patient. A warning message is generated: "Warning: Patient sex default to Female."

If the guarantor currently has sex assigned in their record and an invalid code or double quotes are received, a warning message is generated: 'Guarantor SEX is not valid!'

If STAR receives a valid but different sex code for the guarantor, the sex assignment is updated.

GT1.10   **Guarantor Type**

Not supported inbound.

GT1.11   **Guarantor Relationship**

Relation to Patient (Guarantor's)

Value received must match Relationship [REL] table code.

If received code does not match table, then display warning message 'Guarantor RELATION CODE is not valid!' and field is not updated.

Update if valid and different.

GT1.12   **Guarantor SSN**

Soc Sec Number (Guarantor's)

If SS# is not in valid HL7 format a warning messages is generated: 'Guarantor SOCIAL SECURITY NUMBER is not valid!'.

If data received is in valid format and different then existing social security number for guarantor, STAR stores number. (STAR social security numbers stored formatted as XXX-XX-XXXX.)

GT1.13   **Guarantor Date - Begin**

Not supported inbound.

GT1.14   **Guarantor Date - End**

Not supported inbound.

GT1.15   **Guarantor Priority**

STAR accepts only one Guarantor. STAR will find the first priority based on this field and accept it.

If null, STAR takes the lowest Set ID.

GT1.16   **Guarantor Employer Name**

Employer/School (Guarantor's)

Must match Employers [EMP] table code.

This table allows overrides. If no code is sent or code sent does not match STAR's table, the description is processed as an override.

If the description matches an entry exactly, the table code for that entry is used. This is STAR's standard table processing.

If only code sent and it is not found, STAR generates a warning message 'Guarantor EMPLOYER CODE is not valid!'

GT1.16.1   **Identifier**

Code

Must match Employers [EMP] table code

GT1.16.2   **Text**

Description

Only the first 21 characters of the description are used

GT1.16.3   **Coding system**

Not supported inbound.

STAR assumes coding system to match Employer table codes of STAR.

GT1.16.4   **Alternate identifier**

Not supported inbound.

GT1.16.5   **Alternate text**

Not supported inbound.

GT1.16.6   **Alternate coding system**

Not supported inbound.

GT1.17   **Guarantor Employer Address**

Guarantor Employer's

STAR always takes the inbound address; no defaults are used.

GT1.17.1   **Street address**
                Address Line 1

GT1.17.2   **Other designation**
                Address Line 2

GT1.17.3   **City**
                City

GT1.17.4   **State/province**
                State

GT1.17.5   **Zip/postal code**
                ZIP Code

GT1.17.6   **Country**
                Country

GT1.17.8   **Other geographic designation**

County

GT1.18   **Guarantor Employer Ph Num**

Guarantor Employer's

STAR supports the phone number and the extension to the phone number.

- Phone (13)

- Ext. (4)

STAR processes only the first occurrence of this field.

GT1.19   **Guarantor Employee ID Num**

Employee ID (Guarantor's)

GT1.20   **Guarantor Employment Status**

Employment Status (Guarantor's)

This field must match Employment Status [ESC] table codes.

If code does not match, a warning message is generated: 'Guarantor EMPLOYMENT STATUS is not valid!'

GT1.21   **Guarantor Organization**

Not supported inbound.

GT1.22   **Guarantor Billing Hold Flag**

Not supported inbound.

GT1.23   **Guarantor Credit Rating Code**

Not supported inbound.

GT1.26   **Guarantor Change Adjustment Code**

Not supported inbound.

GT1.27   **Guarantor Household Annual Income**

Not supported inbound.

GT1.28   **Guarantor Household Size**

Not supported inbound.

GT1.29   **Guarantor Employee ID**

Not supported inbound.

GT1.33   **Guarantor Living Dependency**

Not supported inbound.

GT1.34   **Guarantor Ambulatory Status**

Not supported inbound.

GT1.35   **Guarantor Citizenship**

Not supported inbound.

GT1.38   **Guarantor Publicity Indicator**

Not supported inbound.

GT1.39   **Guarantor Protection Indicator**

Not supported inbound.

GT1.40   **Guarantor Student Indicator**

Not supported inbound.

GT1.41   **Guarantor Religion**

Not supported inbound.

GT1.44   **Guarantor Ethnic Group**

Not supported inbound.

GT1.46   **Guarantor Contact Person Phone Number**

Not supported inbound.

GT1.47   **Guarantor Contact Reason**

Not supported inbound.

GT1.49   **Guarantor Job Title**

Not supported inbound.

GT1.52   **Guarantor Handicap**

Not supported inbound.

GT1.53   **Guarantor Job Status**

Not supported inbound.

GT1.54   **Guarantor Financial Class**

Not supported inbound.

IAM - Patient adverse reaction information

Seq	Len	Data type	R/O/C	RP/#	Element name
1	2	SI	R		Set ID - IAM
2	7	CE	O		Allergen Type Code
2.1	2	ID	O		Identifier
2.2					Text
2.3					Name of coding system
2.4					Alternate identifier
2.5					Alternate text
2.6					Name of alternate coding system
3	120	CE	R		Allergen Code / Mnemonic / Description
3.1	11	ID	O		Identifier
3.2	41	ST	O		Text
3.3	8	ST	O		Name of coding system
3.4	11	ID	O		Alternate identifier
3.5	41	ST	O		Alternate text
3.6	8	ST	O		Name of alternate coding system
4	17	CE	O		Allergy Severity Code
4.1	2	ID	O		Identifier
4.2	9	ST	O		Text
4.3	4	ST	O		Name of coding system
4.4					Alternate identifier
4.5					Alternate text
4.6					Name of alternate coding system
5	15	ST	O	Y	Allergy Reaction Code
6	7	CNE	R		Allergy Action Code

Seq	Len	Data type	R/O/C	RP/#	Element name
6.1	1	ID	R		Identifier
6.2					Text
6.3					Name of coding system
6.4					Alternate identifier
6.5					Alternate text
6.6					Name of alternate coding system
7	80	EI	R		Allergy Unique Identifier
7.1	20	ST	R		Entity ID
7.2	6	IS	R		Namespace ID
8	60	ST			Action Reason
9	7	CE	O		Sensitivity to Causative Agent Code.
9.1	2	ID	R		Identifier
9.2					Text
9.3					Name of coding system
9.4					Alternate identifier
9.5					Alternate text
9.6					Name of alternate coding system
10					Allergen Group Code / Mnemonic / Description
11					Onset Date
12	25	ST	O		Onset Date Text
13	8	TS	O		Reported Date/Time
14	37	XPN	O		Reported By
14.1	35	ST	O		Family Name
14.2	35	ST	O		Given Name
14.3	35	ST	O		Middle Name
15	7	CE	O		Relationship to Patient Code
15.1	1	ID	C		Identifier
15.2					Text
15.3					Name of coding system
15.4					Alternate identifier
15.5					Alternate text
15.6					Name of alternate coding system
16					Alert Device Code
17	7	CE	O		Allergy Clinical Status Code
17.1	1	ID	R		Identifier
17.2					Text
17.3					Name of coding system
17.4					Alternate identifier
17.5					Alternate text
17.6					Name of alternate coding system
18	?	XCN	O		Statused by Person

Seq	Len	Data type	R/O/C	RP/#	Element name
18.1	30	ST	O		ID number
18.2	35	ST	O		Family Name
18.3	35	ST	O		Given Name
18.4	35	ST	O		Middle Name
19		XON			Statused by Organization
20	8	TS	O		Statused at Date/Time

Field notes

IAM.1   **Set ID - IAM**

System defined for each allergy entered on a patient.

IAM.2   **Allergen Type Code**

Allergen Type

IAM.2.1   **Identifier**

Allergen Type

STAR supports these Allergen Type Codes:

Value	Description
DA	Drug
MA	Miscellaneous
FA	Food
EA	Environmental

If we cannot figure out the supported code it is defaulted to "MA" and populate all fields provided

STAR will accept IB a known code without the coding system for this field.

Data stored on STAR in V(„ALTP"„CODE)

IAM.2.2   **Text**

Not supported inbound.

IAM.2.3   **Name of coding system**

Not supported inbound.

IAM.2.4   **Alternate identifier**

Not supported inbound.

IAM.2.5   **Alternate text**

Not supported inbound.

IAM.2.6   **Name of alternate coding system**

Not supported inbound.

IAM.3   **Allergen Code / Mnemonic / Description**

Allergen

IAM.3.1   **Identifier**

Allergen Code

STAR supports these Allergen Codes supported by one of seven different coding systems.

STAR looks at both sets of triplicates to find a valid coding system. STAR takes the first one recognized.

IAM.3.3   **Name of coding system**

STAR supports the following coding systems:

Value	Description
CHEMNO	Chemical Number
HIC	HIC Sequence Number
AGID	DAM Allergen ID
HICL	HICL Sequence Number
DNID	DNID Number
PADC	PIF Allergen ID
NDC	NDC Number
HC	HC seeded data

IAM.4   **Allergy Severity Code**

If no match the default is U, Unknown.

IAM.4.1   **Identifier**

Allergy Severity

STAR supports four codes as follows.

SV - Severe

MO - Moderate

MI - Mild

U - Unknown

If a severity is received IB without a coding system, STAR will check to see if the code is supported and then go to the table and display the description in the application. If a code is received that is not supported, STAR will display Unknown in the application.

IAM.4.2   **Text**

If one the four is not sent or the coding system does not match, the text is matched to the Allergy Severity Table [PASV].

IAM.4.3   **Name of coding system**

STAR supports PASV for coding system.

IAM.4.4   **Alternate identifier**

Not supported inbound.

IAM.4.5   **Alternate text**

Not supported inbound.

IAM.4.6   **Name of alternate coding system**

Not supported inbound.

IAM.5   **Allergy Reaction Code**

Allergy Reaction

Horizon Clinicals & HMM have decided to send only one allergy reaction. If other systems decide to send more, the data will be stored in the STAR database but will not be displayed with this phase of the project. Since this is a repeating field, we will store all data in the database and send the information outbound. With this phase of the project the STAR application will not support display of more than one reaction per allergen.

IAM.6   **Allergy Action Code**

A STAR table is set up for this field and a STAR-HL7 Table Cross Reference is also in place for this field. HL7 Table 0323

IAM.6.1   **Identifier**

Allergy Action Code

IAM.6.2   **Text**

Not supported inbound.

IAM.6.3   **Name of coding system**

Not supported inbound.

IAM.6.4   **Alternate identifier**

Not supported inbound.

IAM.6.5   **Alternate text**

Not supported inbound.

IAM.6.6   **Name of alternate coding system**

Not supported inbound.

IAM.7   **Allergy Unique Identifier**

This field will be used as the unique identifier for the individual allergy on a patient. This field is conditionally required but the McKesson products will ALWAYS have this field as required regardless of data sent in IAM-3.

The format of the data will be a unique number with an indicator of the application that entered the allergy. The originating product will be indicated with the use of the assigning authority.

Example of STAR outbound unique identifier for an allergen added on STAR: 1234^ST01

IAM.7.1   **Entity ID**

System Generated Counter

IAM.7.2   **Namespace ID**

Unique System Identifier

IAM.8   **Action Reason**

Not supported inbound.

IAM.9   **Sensitivity to Causative Agent Code**

Category

The information sent outbound in this field is captured from the Allergy Detail screen (Field 5 - Category).

STAR name of coding system for this data is ^V(,"ALCT",,CODE)

IAM.9.1   **Identifier**

Allergy Sensitivity Type

STAR supports the following codes:

Value	Description
AD	Adverse Reaction (Not otherwise classified)
AL	Allergy
CT	Contraindication
IN	Intolerance

IAM.9.2   **Text**

Not supported inbound.

IAM.9.3   **Name of coding system**

Not supported inbound.

IAM.9.4   **Alternate identifier**

Not supported inbound.

IAM.9.5   **Alternate text**

Not supported inbound.

IAM.9.6   **Name of alternate coding system**

Not supported inbound.

IAM.10   **Allergen Group Code / Mnemonic / Description**

Not supported inbound.

IAM.11   **Onset Date**

Not supported inbound.

IAM.12   **Onset Date Text**

Onset Date

This allows us to get information in the system if the exact onset date is unknown.

IAM.13   **Reported Date/Time**

Created By

This field contains the date/time the allergy was reported to the caregiver.

IAM.14   **Reported By**

This field contains the name of the person reporting the allergy to a caregiver at the time reported in IAM-13.

Initially, HC and HMM will not populate this field. IM mapping will be used to identify which application entered/edited the allergen information. HC = STAFF,HC; HMM= STAFF,HMM.

IAM.15   **Relationship to Patient Code**

Relationship

IAM.15.1   **Identifier**

Relationship

STAR compares code to the relationship [REL] table.

IAM.15.2   **Text**

Not supported inbound.

IAM.15.3   **Name of coding system**

Not supported inbound.

IAM.15.4   **Alternate identifier**

Not supported inbound.

IAM.15.5   **Alternate text**

Not supported inbound.

IAM.15.6   **Name of alternate coding system**

Not supported inbound.

IAM.16   **Alert Device Code**

Not supported inbound.

IAM.17   **Allergy Clinical Status Code**

The "Allergy Trusted Source" parameter has an impact on the way this field information is stored when received inbound to STAR. If this parameter is set to "Yes", the sending application is considered a trusted source and the allergy clinical status code in all IAM.17 fields will be accepted as sent. If the parameter is set to "No", the sending application is not considered as a trustworthy source for allergy information. Regardless of the Allergy Action code value, IAM 6 field (add, edit or delete), the Clinical Status code in IAM.17 will be processed as "Unconfirmed".

IAM.17.1   **Identifier**

Clinical Status

STAR supports the following statuses [ALCS]:

Value	Description
C	Confirmed
U	Unconfirmed

IAM.17.2   **Text**

Not supported inbound.

IAM.17.3   **Name of coding system**

Not supported inbound.

IAM.17.4   **Alternate identifier**

Not supported inbound.

IAM.17.5   **Alternate text**

Not supported inbound.

IAM.17.6   **Name of alternate coding system**

Not supported inbound.

IAM.18   **Statused by Person**

All systems will send only a name in this segment if the allergy has been verified/confirmed. This is not be confused with the person who may have made other changes to the allergen information. The person making changes to other allergen information for the current activity will be tracked in the EVN segment of the A60 message. This field identifies the provider who assigned the *clinical status (IAM-17)* to the allergy. Since we are not populating the IAM-19, can we populate the assigning authority for this field so that we can identify which system entered the status change? TBD

This field will be populated only when a status is changed.

IAM.18.1   **ID number**

ID code (not displayed in common tool) if system sends only 18.1 with 18.2-18.4 null, no information will be displayed in the common allergy tool.

IAM.18.2   **Family Name**

Last Name

IAM.18.3   **Given Name**

First Name

IAM.18.4   **Middle Name**

Middle Name

IAM.19   **Statused by Organization**

Not supported inbound.

IAM.20   **Statused at Date/Time**

This field contains the date/time that this allergy was last statused by the IAM-18 person in the IAM-19 organization.

Insurance information segments

IN1 - Insurance information

McKesson has adopted IN1 segment fields 47-49 from HL7 2.3 in their internal HBOCHI 2.2 standard. STAR field names, indicated in the "Comments" column, are found on the following screens: Blue Cross, Commercial, CHAMPUS, Medicaid, Medicare, 1500 insurance and their respective approval screens.

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID - Insurance
2	6	ID	R		Insurance Plan ID
3	6	ST	R		Insurance Company ID
4	33	ST	O	Y	Insurance Company Name
5	90	AD	O		Insurance Company Address
5.1	29	ST	O		Street address
5.2	29	ST	O		Other designation
5.3	18	ST	O		City
5.4	2	ST	O		State/province
5.5	9	ST	O		Zip/postal code
5.6	2	ST	O		Country
5.7	1	ID	O		Type
5.8	5	ST	O		Other geographic designation
6	36	PN	O		Ins Company Contact Person
6.1					Family name
6.2					Given name
6.3					Middle name or initial
6.4					Suffix
6.5					Prefix
6.6					Degree
7	18	TN	O		Ins Company Phone Number
8	17	ST	O		Group Number
9	30	ST	O		Group Name
10					Insured's Group Employer ID
11	34	CE	C		Insured's Group Emp Name
11.1	6	ID	O		Identifier
11.2	30	ST	O		Text
11.3					Coding system
11.4					Alternate identifier
11.4.1					Alternate identifier

Seq	Len	Data type	R/O/C	RP/#	Element name
11.4.2					Alternate application ID
11.5					Alternate text
11.6					Name of alternate coding system
12	8	DT	O		Plan Effective Date CCYYMMDD
13	8	DT	O		Plan Expiration Date
14	55	CM	O		Authorization Information
14.1	15				Authorization number
14.2					Date
14.3					Source
15					Plan Type
16	28	PN	C		Name of Insured
16.1					Family name
16.2					Given name
16.3					Middle name or initial
16.4					Suffix
16.5					Prefix
16.6					Degree
17	???	CD	O		Relationship to Patient
18	8	DT	C		Insured's Date of Birth
19	106	AD	O		Insured's Address
19.1	29	ST	O		Street address
19.2	29	ST	O		Other designation
19.3	18	ST	O		City
19.4	2	ST	O		State/province
19.5	9	ST	O		Zip/postal code
19.6	2	ST	O		Country
19.7	1	ID	O		Type
19.8	5	ST	O		Other geographic designation
20					Assignment of Benefits
21					Coordination of Benefits
22	2	ST	O		Coord of Benefits Priority
23					Notice of Admission Code
24	8	DT	O		Notice of Admission Date
25					Report of Eligibility Code
26					Report of Eligibility Date
27					Release Information Code
28	15	ST	O		Pre-Admit Cert (PAC)
29	12	TS	O		Verification Date/Time
30	30	CN	O		Verification By
30.1					ID number
30.2					Family name

Seq	Len	Data type	R/O/C	RP/#	Element name
30.3					Given name
30.4					Middle name or initial
30.5					Suffix
30.6					Prefix
30.7					Degree
30.8					Source table
31					Type of Agreement Code
32					Billing Status
33					Lifetime Reserve Days
34					Delay Before Life Reserve Day
35	???	IS	O		Company Plan Code
36	20	ST	C		Policy Number
37					Policy Deductible
38					Policy Limit - Amount
39	3	NM	O		Policy Limit - Days
40					Room Rate - Semi-Private
41					Room Rate - Private
42	21	CE	C		Insured's Employment Status
42.1	6	ID	R		Identifier
42.2	30	ST	O		Text
42.3					Coding system
42.4					Alternate identifier
42.5					Alternate text
42.6					Name of alternate coding system
43	1	ID	C		Insured's Sex
44	90	AD	O		Insured's Employer Address
44.1	29	ST	O		Street address
44.2	29	ST	O		Other designation
44.3	18	ST	O		City
44.4	2	ST	O		State/province
44.5	9	ST	O		Zip/postal code
44.6	2	ST	O		Country
44.7	1	ID	O		Type
44.8	5	ST	O		Other geographic designation
45					Verification Status
46					Prior Insurance Plan ID
47					Coverage Type
48					Handicap
49					Insured's Identifier

Field notes

IN1.1   **Set ID - Insurance**

The Set ID is used as a default value for sorting insurance if no COB field value is defined.

IN1.2   **Insurance Plan ID**

Insurance Plans

If found, additional details are taken from STAR's Insurance Carrier/Plan table [CPLN].

IN1.3   **Insurance Company ID**

Insurance Carrier

Code received must match STAR's Insurance Carrier table [INS].

Note:	The Insurance Carrier and Plan codes combined may be up to 6 digits. The base is sent out as 3 digits for Carrier code and digits for Plan, but it can be changed at time of installation.

If code does not match or the code is marked as deleted, a warning message is generated: 'Invalid Insurance Carrier Code'. The insurance is not processed.

If found, additional details are taken from STAR's Insurance Carrier table [INS].

IN1.4   **Insurance Company Name**

Insurance Carrier Name

The name received in this field is stored on STAR at the patient account level. If not sent, the description associated with the Insurance Carrier/plan code received IN1:3 is stored.

IN1.5   **Insurance Company Address**

Insurance Carrier's address

Stored as received at the patient account level.

If null, the address in STAR's Insurance Carrier/Plan Table for codes received (IN1:3,2) is stored.

IN1.5.1   **Street address**

Address Line 1

IN1.5.2 **Other designation**

     Address Line 2

IN1.5.3 **City**

     City

IN1.5.4 **State/province**

     State

IN1.5.5 **Zip/postal code**

     ZIP Code

IN1.5.6 **Country**

     Country

IN1.5.8 **Other geographic designation**

     County

IN1.6 **Ins Company Contact Person**

     Insurance Carrier Contact's Name

     STAR stores as received at the patient account level. If null, the Contact Name in STAR's Insurance Carrier/Plan Table for codes received in IN1:3,2 are stored.

IN1.6.1 **Family name**

     Last Name

IN1.6.2 **Given name**

     First Name

IN1.6.3 **Middle name or initial**

     Middle Name

IN1.6.4 **Suffix**

     Not supported inbound.

IN1.6.5 **Prefix**

Not supported inbound.

IN1.6.6 **Degree**

Not supported inbound.

IN1.7 **Ins Company Phone Number**

Insurance Carrier Group Phone & Ext.

Group Phone (13)
Ext. (4)

IN1.8 **Group Number**

Group Number

The Group Number is required for billing and needs to be present before insurance verification is complete.

If length is greater then 17 characters a warning message is generated: 'Insurance Group # too long!' No update is made.

IN1.9 **Group Name**

Group Name

The Group Name is required for billing and needs to be present before insurance verification is complete.

If more than 30 characters are received, STAR truncates the name to the first 30 characters.

IN1.10 **Insured's Group Employer ID**

Not supported inbound.

IN1.11 **Insured's Group Emp Name**

Employer (Insured's)

Code (6)

Description (30)

Code must match STAR's Employers table [EMP]. This table allows override. If code is not sent or it does not match STAR's table, the description is used.

If the description received exactly matches a description in STAR's table, the code for that table entry will be used.

If double quotes received, the information is deleted.

IN1.11.3 **Coding system**

Not supported inbound.

IN1.11.4 **Alternate identifier**

Not supported inbound.

IN1.11.4.1 **Alternate identifier**

Not supported inbound.

IN1.11.4.2 **Alternate application ID**

Not supported inbound.

IN1.11.5 **Alternate text**

Not supported inbound.

IN1.11.6 **Name of alternate coding system**

Not supported inbound.

IN1.14.1 **Authorization number**

Approval #

IN1.14.2 **Date**

Appr Date

IN1.14.3 **Source**

Approval Name

IN1.15 **Plan Type**

Not supported inbound.

STAR uses the Insurance Type associated with the Insurance Carrier as defined in STAR's Insurance Carrier Table.

Please refer to IN1.2 field logic on how the STAR Plan Type is populated.

IN1.16   **Name of Insured**

Insured Name

If nothing is sent, a warning message is generated: 'Missing Insured's name!'

IN1.16.1   **Family name**

Last Name

IN1.16.2   **Given name**

First Name

IN1.16.3   **Middle name or initial**

Middle Name

IN1.16.4   **Suffix**

Not supported inbound.

IN1.16.5   **Prefix**

Not supported inbound.

IN1.16.6   **Degree**

Not supported inbound.

IN1.17   **Relationship to Patient**

See IN2.72 HCFA Patient's Relationship to Insured for more details.

IN1.18   **Insured's Date of Birth**

Insured's Birthdate

IN1.19   **Insured's Address**

Insured's Address

IN1.19.1   **Street address**

Address Line 1

IN1.19.2   **Other designation**

Address Line 2

IN1.19.3   **City**

City

IN1.19.4   **State/province**

State

IN1.19.5   **Zip/postal code**

ZIP Code

IN1.19.6   **Country**

Country

IN1.19.8   **Other geographic designation**

County

IN1.20   **Assignment of Benefits**

Not supported inbound.

IN1.21   **Coordination of Benefits**

Not supported inbound.

IN1.22   **Coord of Benefits Priority**

If sent on all IN1 segments, this will determine order of Insurance. If not, the sequence (COB) will be determined by IN1.1 Set ID.

IN1.23   **Notice of Admission Code**

Not supported inbound.

IN1.24   **Notice of Admission Date**

Notified Date

IN1.25   **Report of Eligibility Code**

Not supported inbound.

IN1.26   **Report of Eligibility Date**

Not supported inbound.

IN1.27   **Release Information Code**

Not supported inbound.

IN1.28   **Pre-Admit Cert (PAC)**

Pre-Notification?

IN1.29   **Verification Date/Time**

Verified Date

IN1.30   **Verification By**

Verified Name

IN1.30.2   **Family name**

Last Name

IN1.30.3   **Given name**

First Name

IN1.30.4   **Middle name or initial**

Middle Name

IN1.30.5   **Suffix**

?

IN1.30.6   **Prefix**

Not supported inbound.

IN1.30.7   **Degree**

Not supported inbound.

IN1.30.8 **Source table**

Not supported inbound.

IN1.31 **Type of Agreement Code**

Not supported inbound.

IN1.32 **Billing Status**

Not supported inbound.

IN1.33 **Lifetime Reserve Days**

Not supported inbound.

IN1.34 **Delay Before Life Reserve Day**

Not supported inbound.

IN1.36 **Policy Number**

Policy Number

IN1.37 **Policy Deductible**

Not supported inbound.

IN1.38 **Policy Limit - Amount**

Not supported inbound.

IN1.39 **Policy Limit - Days**

Appr LOS (Approval Length of Stay)

STAR allows a value of 1 to 999.

If less then 1 or greater then 999 a warning message is generated: 'Invalid Insurance Approved LOS!'

IN1.40 **Room Rate - Semi-Private**

Not supported inbound.

IN1.41 **Room Rate - Private**

Not supported inbound.

IN1.42   **Insured's Employment Status**

Employment Status

The code must match STAR's Employment Status table [ESC].

If the code does not match STAR's table, a warning message is generated:

'Invalid Insured's Employment Status Code!'.

IN1.42.1   **Identifier**

Code

IN1.42.2   **Text**

Description

IN1.42.3   **Coding system**

Not supported inbound.

IN1.42.4   **Alternate identifier**

Not supported inbound.

IN1.42.5   **Alternate text**

Not supported inbound.

IN1.42.6   **Name of alternate coding system**

Not supported inbound.

IN1.43   **Insured's Sex**

Sex of Insured

STAR accepts "M" or "F".

If it valid sex code is not sent, a warning message is generated: 'Invalid Insured's Sex!'.

IN1.44   **Insured's Employer Address**

Employer's Address

IN1.44.1 **Street address**

Address Line 1

IN1.44.2 **Other designation**

Address Line 2

IN1.44.3 **City**

City

IN1.44.4 **State/province**

State

IN1.44.5 **Zip/postal code**

ZIP Code

IN1.44.6 **Country**

Country

IN1.44.8 **Other geographic designation**

County

IN1.45 **Verification Status**

Not supported inbound.

IN1.46 **Prior Insurance Plan ID**

Not supported inbound.

IN1.47 **Coverage Type**

Not supported inbound.

IN1.48 **Handicap**

Not supported inbound.

IN1.49 **Insured's Identifier**

Not supported inbound.

IN2 - Insurance information - additional information

McKesson has adopted Elements 31-72 from HL7 2.3 in their internal HBOCHI 2.2 standard.

Examples of the fields indicated in the Notes column can be seen on the following screens:

Blue Cross, Commercial, CHAMPUS, Medicaid, Medicare, 1500 insurances and their respective approval screens.

Seq	Len	Data type	R/O/C	RP/#	Element name
1	15	ST	O		Insured's Employee ID
2	11	NM	C		Insured's SSN
3					Insured's Employer Name
4	1	ID	O		Employer Information Data
5	1	ID	O		Mail Claim Party
6	20	ST	C		Medicare Health Insurance Card Number
7	35	PN	C		Medicaid Case Name
7.1					Family name
7.2					Given name
7.3					Middle name or initial
7.4					Suffix
7.5					Prefix
7.6					Degree
8	17	ST	C		Medicaid Case Number
9	37	PN	C		Champus Sponsor Name
9.1					Family name
9.2					Given name
9.3					Middle name or initial
9.4					Suffix
9.5					Prefix
9.6					Degree
10	20	ST	C		Champus ID Number
11	1	ID	C		Dependent of Champus Recipient
12	25	ST	O		Champus Organization
13					Champus Station
14	5	ID	C		Champus Service
15	4	ID	C		Champus Rank/Grade
16	1	ID	C		Champus Status
17					Champus Retire Date
18					Champus Non-Avail Cert on File
19					Baby Coverage

Seq	Len	Data type	R/O/C	RP/#	Element name
20	???	ID	O		Combine Baby Bill
21					Blood Deductible
22					Spec Coverage Approval Name
23					Spec Coverage Approval Title
24					Non-Covered Insurance Code
25					Payor ID
26					Payor Subscriber ID
27					Eligibility Source
28					Room Coverage Type/Amount
29					Policy Type/Amount
30					Daily Deductible
31					Living Dependency
32					Ambulatory Status
33					Citizenship
34					Primary Language
35					Living Arrangement
36					Publicity Indicator
37					Protection Indicator
38					Student Indicator
39					Religion
40					Mother's Maiden Name
41					Nationality
42					Ethnic Group
43					Marital Status
44					Insured's Employment Start Date
45					Insured's Employment Stop Date
46					Job Title
47					Job Code/Class
48					Job Status
49					Employer Contact Person's Name
50					Employer Contact Person's Phone Number
51					Employer Contact Reason
52					Insured's Contact Person's Name
53					Insured's Contact Person's Telephone Number
54					Insured's Contact Person Reason
55					Relationship to the Patient Start Date
56					Relationship to the Patient Stop Date
57					Insurance Co. Contact Reason
58					Insurance Co. Contact Phone Number
59					Policy Scope
60					Policy Source

Seq	Len	Data type	R/O/C	RP/#	Element name
61					Patient Member Number
62					Guarantor's Relationship to the Insured
63					Insured's Telephone Number - Home
64	40	TN	O		Insured's Employer Telephone Number
65					Military Handicapped Program
66					Suspend Flag
67					Copay Limit Flag
68					Stoploss Limit Flag
69					Insured Organization Name and ID
70					Insured Employer Organization Name and ID
71					Race
72	2	CE	O		HCFA Patient Relationship to Insured
72.1	???	???	???		Identifier
72.1.1	???	???	???		Identifier
72.1.2	???	???	???		Application ID
72.2	???	???	???		Text
72.3	???	???	???		Name of coding system
72.4	???	???	???		Alternate identifier
72.4.1	???	???	???		Alternate identifier
72.4.2	???	???	???		Alternate application ID
72.5	???	???	???		Alternate text
72.6	???	???	???		Name of alternate coding system

Field notes

IN2.1   **Insured's Employee ID**

Employee ID (Insured's)

IN2.2   **Insured's SSN**

Soc Sec # (Insured's)

If an invalid HL7 format received, a warning message is generated: 'Invalid insured's SSN.'

IN2.3   **Insured's Employer Name**

Not supported inbound.

(See field IN1.11.)

IN2.4   **Employer Information Data**

Employment Info. (Insured's)

Code (1)

Description (19)

The code must match STAR's Employers table [EID].

If not found in the EID table, a warning message is generated: 'Invalid insured's EID Code'

IN2.6   **Medicare Health Insurance Card Number**

Claim Number (Medicare screen)

IN2.7   **Medicaid Case Name**

Case Name (Medicaid screen)

IN2.8   **Medicaid Case Number**

Case ID Number (Medicaid screen)

IN2.9   **Champus Sponsor Name**

Insured Name (Champus screen)

IN2.10   **Champus ID Number**

ID Card Number (Champus screen)

IN2.11   **Dependent of Champus Recipient**

Dependent (Champus screen)

IN2.12   **Champus Organization**

Champus Organization

IN2.13   **Champus Station**

Not supported inbound.

IN2.14   **Champus Service**

Branch of Service

IN2.15   **Champus Rank/Grade**

              Pay Grade

IN2.16   **Champus Status**

              Military Status

IN2.17   **Champus Retire Date**

              Not supported inbound.

IN2.18   **Champus Non-Avail Cert on File**

              Not supported inbound.

IN2.19   **Baby Coverage**

              Not supported inbound.

IN2.20   **Combine Baby Bill**

              Not supported inbound.

IN2.21   **Blood Deductible**

              Not supported inbound.

IN2.22   **Spec Coverage Approval Name**

              Not supported inbound.

IN2.23   **Spec Coverage Approval Title**

              Not supported inbound.

IN2.24   **Non-Covered Insurance Code**

              Not supported inbound.

IN2.25   **Payor ID**

              Not supported inbound.

IN2.26   **Payor Subscriber ID**

              Not supported inbound.

IN2.27   **Eligibility Source**

Not supported inbound.

IN2.28   **Room Coverage Type/Amount**

Not supported inbound.

IN2.29   **Policy Type/Amount**

Not supported inbound.

IN2.30   **Daily Deductible**

Not supported inbound.

IN2.31   **Living Dependency**

Not supported inbound.

IN2.32   **Ambulatory Status**

Not supported inbound.

IN2.33   **Citizenship**

Not supported inbound.

IN2.34   **Primary Language**

Not supported inbound.

IN2.35   **Living Arrangement**

Not supported inbound.

IN2.36   **Publicity Indicator**

Not supported inbound.

IN2.37   **Protection Indicator**

Not supported inbound.

IN2.38   **Student Indicator**

Not supported inbound.

IN2.39   **Religion**

Not supported inbound.

IN2.40   **Mother's Maiden Name**

Not supported inbound.

IN2.41   **Nationality**

Not supported inbound.

IN2.42   **Ethnic Group**

Not supported inbound.

IN2.43   **Marital Status**

Not supported inbound.

IN2.44   **Insured's Employment Start Date**

Not supported inbound.

IN2.45   **Insured's Employment Stop Date**

Not supported inbound.

IN2.46   **Job Title**

Not supported inbound.

IN2.47   **Job Code/Class**

Not supported inbound.

IN2.48   **Job Status**

Not supported inbound.

IN2.49   **Employer Contact Person's Name**

Not supported inbound.

IN2.50   **Employer Contact Person's Phone Number**

Not supported inbound.

IN2.51   **Employer Contact Reason**

Not supported inbound.

IN2.52   **Insured's Contact Person's Name**

Not supported inbound.

IN2.53   **Insured's Contact Person's Telephone Number**

Not supported inbound.

IN2.54   **Insured's Contact Person Reason**

Not supported inbound.

IN2.55   **Relationship to the Patient Start Date**

Not supported inbound.

IN2.56   **Relationship to the Patient Stop Date**

Not supported inbound.

IN2.57   **Insurance Co. Contact Reason**

Not supported inbound.

IN2.58   **Insurance Co. Contact Phone Number**

Not supported inbound.

IN2.59   **Policy Scope**

Not supported inbound.

IN2.60   **Policy Source**

Not supported inbound.

IN2.61   **Patient Member Number**

Not supported inbound.

IN2.62   **Guarantor's Relationship to the Insured**

Not supported inbound.

IN2.63 **Insured's Telephone Number - Home**

Not supported inbound.

IN2.64 **Insured's Employer Telephone Number**

Employer Phone

IN2.65 **Military Handicapped Program**

Not supported inbound.

IN2.66 **Suspend Flag**

Not supported inbound.

IN2.67 **Copay Limit Flag**

Not supported inbound.

IN2.68 **Stoploss Limit Flag**

Not supported inbound.

IN2.69 **Insured Organization Name and ID**

Not supported inbound.

IN2.70 **Insured Employer Organization Name and ID**

Not supported inbound.

IN2.71 **Race**

Not supported inbound.

IN2.72 **HCFA Patient Relationship to Insured**

HCFA Requires the Relation of Patient to Insured.

[IRE] Table in STAR .

If the code exists in the table, load the code and the description from the table entry.

If not in table then display warning message 'Invalid insured's relation code!'

IN3 - Insurance information - certification

Examples of the fields indicated in the Notes column can be seen on the following screens:

Blue Cross, Commercial, CHAMPUS, Medicaid, Medicare, 1500 insurance's approval screens.

Seq	Len	Data type	R/O/C	RP/#	Element name
1	???	SI	C		Set ID - Insurance Certification
2	???	???	NS		Certification Number
3	???	???	NS		Certified By
3.1	???	???			ID number
3.2	???	???			Family name
3.3	???	???			Given name
3.4	???	???			Middle name or initial
3.5	???	???			Suffix
3.6	???	???			Prefix
3.7	???	???			Degree
3.8	???	???			Source table
4	???	???	NS		Certification Required
5	???	???	NS		Penalty
5.1	???	???			Penalty type
5.2	???	???			Penalty amount
6	???	???	NS		Certification Date/Time
7	???	???	NS		Certification Modify Date/Time
8	???	???	NS		Operator
8.1	???	???			ID number
8.2	???	???			Family name
8.3	???	???			Given name
8.4	???	???			Middle name or initial
8.5	???	???			Suffix
8.6	???	???			Prefix
8.7	???	???			Degree
8.8	???	???			Source table
9	???	???	NS		Certification Begin Date
10	???	???	NS		Certification End Date
11	???	???	NS		Days
11.1	???	???			Day type
11.2	???	???			Number of days
12	???	???	NS		Non-Concur Code/Description
12.1	???	???			Identifier

Seq	Len	Data type	R/O/C	RP/#	Element name
12.1.1	???	???			Identifier
12.1.2	???	???			Application ID
12.2	???	???			Text
12.3	???	???			Name of coding system
12.4	???	???			Alternate identifier
12.4.1	???	???			Alternate identifier
12.4.2	???	???			Alternate application ID
12.5	???	???			Alternate text
12.6	???	???			Name of alternate coding system
13	???	???	NS		Non-Concur Eff Date/Time
14	???	???	NS		Physician Reviewer
14.1	???	???			Physician ID
14.2	???	???			Family name
14.3	???	???			Given name
14.4	???	???			Middle name or initial
14.5	???	???			Suffix
14.6	???	???			Prefix
14.7	???	???			Degree
14.8	???	???			Source table
15	???	???	NS		Certification Contact
16	???	???	NS		Certification Contact Ph Num
17	???	???	NS		Appeal Reason
17.1	???	???			Identifier
17.1.1	???	???			Identifier
17.1.2	???	???			Application ID
17.2	???	???			Text
17.3	???	???			Name of coding system
17.4	???	???			Alternate identifier
17.4.1	???	???			Alternate identifier
17.4.2	???	???			Alternate application ID
17.5	???	???			Alternate text
17.6	???	???			Name of alternate coding system
18	???	???	NS		Certification Agency
18.1	???	???			Identifier
18.1.1	???	???			Identifier
18.1.2	???	???			Application ID
18.2	???	???			Text
18.3	???	???			Name of coding system
18.4	???	???			Alternate identifier
18.4.1	???	???			Alternate identifier
18.4.2	???	???			Alternate application ID

Seq	Len	Data type	R/O/C	RP/#	Element name
18.5	???	???			Alternate text
18.6	???	???			Name of alternate coding system
19	???	???	NS		Certification Agency Ph Num
20	???	???	NS		Pre-Certification Req/Window
20.1	???	???			Pre-certification patient type
20.2	???	???			Pre-certification required
20.3	???	???			Pre-certification window
21	???	???			Case Manager
22	???	???			Second Opinion Date
23	1	ID	O		Second Opinion Status
24	???	???	NS		Second Opinion Doc Received
25	???	???	NS		Second Opinion Practitioner
25.1	???	???			ID number
25.2	???	???			Family name
25.3	???	???			Given name
25.4	???	???			Middle name or initial
25.5	???	???			Suffix
25.6	???	???			Prefix
25.7	???	???			Degree
25.8	???	???			Source table

MSH - Message segment header

Seq	Len	Data type	R/O/C	RP/#	Element name
1	1	ST	R		Field Separator
2	4	ST	R		Encoding Characters
3	15	CM	C		Sending Application
4	1	ST	C		Sending Facility
5	15	ST	C		Receiving Application
6	1	ST	O		Receiving Facility
7	14	TS	C		Date/Time of Message
8	40	ST	O		Security
9	7	CM	R		Message Type
9.1	3	ID	R		Message Type
9.2	3	ID	R		Trigger Event
10	20	ST	R		Message Control ID
11	1	ID	R		Processing ID
12	3	ID	R		Version ID
13	15	CM	O		Sequence Number
14			NS		Continuation Pointer

Seq	Len	Data type	R/O/C	RP/#	Element name
15	2	ID	R		Accept Acknowledge Type
16			NS		Application Acknowledge Type
17			NS		Country Code
18			NS		Character Set ID
19			NS		Principle Language of Message
20		CE	NS		Organization
21			NS		Plant
22	4	ID	R		HBOCHI Version ID

Field notes

MSH.1   **Field Separator**

STAR honors whatever field separator the sending system selects.

MSH.2   **Encoding Characters**

STAR honors whatever encoding characters the sending system selects.

MSH.3   **Sending Application**

Sending Application

Conditionality rule: Required when STAR is trying to filter messages to process only if specific applications. We also use this to echo outbound (ACK). This should be the logical MPI rather than an application as defined by HBOCHI.

MSH.4   **Sending Facility**

Facility

If invalid facility (~CF) is sent, message is rejected.

Conditionality rule:
Not required on A24, A28, A31, Z39, Z46.

On other messages, facility can be determined from other fields, such as, PV1.3.4 or PV1.39.1

If facility no is sent in PID.3, this field is used to determine the appropriate facility for identification numbers.

If invalid facility (~CF), message is rejected.

MSH.10 **Message Control ID**

If received, it is sent outbound in the MSA of the ACK. It can also be used in the HL7 Audit Report function as a search parameter and displays in the HL7 Inquiry Function.

MSH.11 **Processing ID**

If not received, the message goes "Unprocessed". That is, the message will not be handed off from the interface to the application.

MSH.14 **Continuation Pointer**

Not supported inbound.

MSH.15 **Accept Acknowledge Type**

STAR always responds with a communication level acknowledgment

MSH.16 **Application Acknowledge Type**

Not supported inbound.

MSH.17 **Country Code**

Not supported inbound.

MSH.18 **Character Set ID**

Not supported inbound.

MSH.19 **Principle Language of Message**

Not supported inbound.

MSH.20 **Organization**

Not supported inbound.

MSH.21 **Plant**

Not supported inbound.

MSH.22 **HBOCHI Version ID**

Required field

NK1 - Next of kin segment

Next of Kin information is processed in a repeating segment. STAR processes the NK1 in "snapshot" mode. In STAR this indicates that STAR will "toss" existing data related to these segments and then replace the data with the new data in the repeating NK1 segments. This replacement is selective in that if there is an error on one of the segments, a warning is produced for that segment type, but all information from other valid (non NK1) segments is accepted.

McKesson has adopted Elements 14-37 from HL7 2.3 in their internal HBOCHI 2.2 standard.

Examples of the fields indicated in the Notes column can be seen on the following screens:

Relative 1, *Rel 1 Employer*, and *Relative 2* screens.

STAR accepts only two relatives: the first is frequently a Next of Kin relationship, while the second is frequently an emergency contact. In STAR, Employment Information is not stored on Relative 2. This is a choice exercised by the hospital. The current procedures should be reviewed, and it should be determined whether the Emergency Contact is entered on the Relative 1 or 2 screens (REL1 or REL2 respectively), and confirm that the nearest relative is always entered in the other.

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	C		Set ID - Next of Kin
2	37	PN	C		Name
2.1	33	ST	C		Family name
2.2	33	ST	C		Given name
2.3	33	ST	O		Middle name or initial
2.4					Suffix
2.5					Prefix
2.6					Degree
3	21	CE	C		Relationship
3.1	1	ST	O		Identifier
3.2	19	ST	O		Text
3.3					Name of coding system
3.4					Alternate identifier
3.5					Alternate text
3.6					Name of alternate coding system
4	25	AD	C		Address
4.1	29	ST	O		Street address
4.2	29	ST	O		Other designation
4.3	18	ST	O		City

Seq	Len	Data type	R/O/C	RP/#	Element name
4.4	2	ST	O		State or province
4.5	10	ST	O		Zip or postal code
4.6	3	ST	O		Country
4.7	1	ID	O		Type
4.8	5	ST	O		Other geographic designation
5	18	TN	O	Y/3	Phone Number
6	13	TN	O		Business Phone Number
7	4	CE	O		Contact Role
7.1	4	ID	O		Identifier
7.2					Text
7.3					Name of coding system
7.4					Alternate identifier
7.5					Alternate text
7.6					Name of alternate coding system
8	8	DT	O		Start Date
9	8	DT	O		End Date
10			NS		Next of Kin Job Title
11	25	JCC	O		Next of Kin Job Code/Class
11.1	3	ID	O		Job code
11.2	19	ST	O		Employee classification
12	15	ST	O		Next of Kin Employee Number
13	37	CE	C		Organization Name
13.1	6		O		Identifier
13.2	20		O		Text
13.3					Coding system
13.4					Alternate identifier
13.5					Alternate text
13.6					Alternate coding system
14			NS		Marital Status
15	1	ID	O		Sex
16	26	TS	O		Date/Time of Birth
17			NS		Living Dependency
18			NS		Ambulatory Status
19			NS		Citizenship
20			NS		Primary Language
21			NS		Living Arrangement
22			NS		Publicity Indicator
23			NS		Protection Indicator
24			NS		Student Indicator
25			NS		Religion
26			NS		Mother's Maiden Name

Seq	Len	Data type	R/O/C	RP/#	Element name
27			NS		Nationality
28			NS		Ethnic Group
29			NS		Contact Reason
30			NS		Contact Person's Name
31			NS		Contact Person's Telephone Number
32			NS		Contact Person's Address
33	16	ST	O		Next of Kin/Associated Party's Identifiers
34	2	IS	O		Job Status
35			NS		Race
36			NS		Handicap
37	16	ST	O		Contact Person's Social Security Number

Field notes

NK1.1   Set ID - Next of Kin

The set ID is used to define the relationship if the contact role is not defined. Refer to notes in NK1.7.

NK1.2   Name

Name (Relative's) (28)

<Last,First Middle> (37 includes comma and space formatting characters)

Perform the standard name validation routine. Please refer to Patient Name (PID.5 or GT1.3 Guarantor name for details. If name has been adjusted then display warning message 'Relative name has been adjusted!' and an A08 is sent outbound to communicate the adjustment.

A valid name is required if the segment is creating the relative information. If so, and name is still invalid, then display warning message 'Valid relative name is required!'. The field is not updated and the segment will not be processed.

If it is determined that the financial system is Medipac or Healthquest, then only the first 25 characters of the name will be used.

NK1.2.1   Family name

Last Name

Required if creating a relative, must be at least two characters. Validation check against defined name format, any invalid characters and/or spaces will be stripped as necessary. If adjusted an update is sent outbound.

NK1.2.2   **Given name**

                    First Name

Required if creating a relative. Must be at least one character. Validation checks against name format. Any special characters (as appropriate) and/or spaces will be stripped and an update sent outbound notifying other systems of the name change. First names can never include spaces in STAR.

NK1.2.3   **Middle name or initial**

                    Middle Name

Validated against defined name format, any changes due to the validation will cause an update message sent outbound.

NK1.2.4   **Suffix**

Not supported inbound.

NK1.2.5   **Prefix**

Not supported inbound.

NK1.2.6   **Degree**

Not supported inbound.

NK1.3   **Relationship**

                    Relation

Relationships table [REL] codes must match.

If a new relative is being created and NK1.3 is blank then display warning message 'Relationship is required!'. Do not update this field." STOP processing of this Segment

Validate the code against the Relative table (REL), using the standard table validation routine.

If NK1.3 is blank then display warning message 'Relationship is required!'. Do not update this field. STOP processing of this Segment!

NK1.3.1   **Identifier**

Code If NK1.3 code is not found and NK1.3 Description is blank then display warning message 'Invalid Relationship code!'.

If NK1.3 ID not found and NK1.3 Description not found in the REL table then default the NK1.3 Relationship ID to code of Other from the REL table.

NK1.3.2   **Text**

Description

NK1.3.3   **Name of coding system**

Not supported inbound.

NK1.3.4   **Alternate identifier**

Not supported inbound.

NK1.3.5   **Alternate text**

Not supported inbound.

NK1.3.6   **Name of alternate coding system**

Not supported inbound.

NK1.4   **Address**

Relative's Address

Since this field is not repeating (HL7 2.2), STAR will not look at the address type sub-component. If it is sent as repeating, STAR will process only the first address. The address will be validated using the standard address validation routine.

This field is also supported for Patient Employer.

NK1.4.1   **Street address**

Address Line 1

NK1.4.2   **Other designation**

Address Line 2

NK1.4.3   **City**

City

NK1.4.4   **State or province**

State

NK1.4.5   **Zip or postal code**

ZIP Code (99999-9999) format

NK1.4.6   **Country**

Country

Value received must match Country Table [HCT] conversion code if three character country code if found. If not found do not update. If two characters, update.

NK1.4.8   **Other geographic designation**

County

Value received must match County [CYC] table code. If not, and no double quotes, no update made.

NK1.5   **Phone Number**

Relative's phone

Relative Phone (13)

Relative Phone Ext. (4)

STAR reads only the first repetition of this field.

NK1.6   **Business Phone Number**

Relative's Employer Work phone

Relative Employer Work Phone (13)

Relative Employer Work Ph. Ext. (4)

This field is also supported for Patient Employer.

NK1.7   **Contact Role**

STAR accepted values for this field include: REL1, REL2, EMP or blanks

REL1 - STAR stores as Relative 1
REL2 - STAR stores as Relative 2.

EMP – Patient Employer information

If the field is blank, STAR uses the set ID to identify which NK1 is used as Relative 1 and Relative 2. If one has REL1 and the other has blanks, then one may overwrite the other if the blank NK1.7 happens to be set ID 1.

NK1.7.2   **Text**

Not supported inbound.

NK1.7.3   **Name of coding system**

Not supported inbound.

NK1.7.4   **Alternate identifier**

Not supported inbound.

NK1.7.5   **Alternate text**

Not supported inbound.

NK1.7.6   **Name of alternate coding system**

Not supported inbound.

NK1.8   **Start Date**

Optional

This field is also supported for Patient Employer.

NK1.9   **End Date**

Not supported inbound for relative 1 and relative 2.

This field is also supported for Patient Employer.

NK1.10   **Next of Kin Job Title**

Not supported inbound.

NK1.11   **Next of Kin Job Code/Class**

Relative Occupation

Perform the standard table validation check against the occupation code table (OCU).

Overrides are allowed.

Process only the Relative 1 Occurrence of this field.

If the occupation code is not found then display warning message 'Invalid Occupation code!'

Only the first 19 characters of the job description will be used if code is not valid or not present.

Supported by Relative One and Patient Employer.

NK1.11.1   **Job code**

Relative Employer **Occupation Code**

This field is also supported for Patient Employer.

NK1.11.2   **Employee classification**

Relative Employer **Occupation Desc**

This field is also supported for Patient Employer.

NK1.12   **Next of Kin Employee Number**

Employee ID

Supported for Relative 1 and Patient Employer.

If more than 15 characters is received, a warning message is generated: 'Relative Employee number too long, could not accept!' This field is not updated on STAR.

NK1.13   **Organization Name**

Employer/School

Supported on Relative 1 and Patient Employer (EMP)

Overrides allowed.

Employer table [EMP] codes must match

Perform the standard table validation routine against the Employee Code table (EMP).

If NK1.13 organization name not found and organization name type code is blank then display the warning message 'Invalid Relative Employer code!', and load the description as an override.

NK1.13.1   Identifier

   Code

   Code received must match STAR's Employee Code table [EMP], or description will be used as an override.

NK1.13.2   Text

   Description

NK1.13.3   Coding system

   Not supported inbound.

NK1.13.4   Alternate identifier

   Not supported inbound.

NK1.13.5   Alternate text

   Not supported inbound.

NK1.13.6   Alternate coding system

   Not supported inbound.

NK1.14   Marital Status

   Not supported inbound.

NK1.15   Sex

   Relative Sex

   STAR accepts only "M" and "F" for Male and Female valid values.

   If NK1.15 not equal to either 'F' or 'M' a warning message is generated: 'Relative Sex is not valid !' The Sex is not updated on STAR.

NK1.16   Date/Time of Birth

   Birthdate

   STAR accepts only a valid date.

   If it is greater then current system date then display warning message 'Relative Birthdate is not valid !', and do not update the field.

NK1.17   **Living Dependency**

Not supported inbound.

NK1.18   **Ambulatory Status**

Not supported inbound.

NK1.19   **Citizenship**

Not supported inbound.

NK1.20   **Primary Language**

Not supported inbound.

NK1.21   **Living Arrangement**

Not supported inbound.

NK1.22   **Publicity Indicator**

Not supported inbound.

NK1.23   **Protection Indicator**

Not supported inbound.

NK1.24   **Student Indicator**

Not supported inbound.

NK1.25   **Religion**

Not supported inbound.

NK1.26   **Mother's Maiden Name**

Not supported inbound.

NK1.27   **Nationality**

Not supported inbound.

NK1.28   **Ethnic Group**

Not supported inbound.

NK1.29   **Contact Reason**

Not supported inbound.

NK1.30   **Contact Person's Name**

Not supported inbound.

NK1.31   **Contact Person's Telephone Number**

Not supported inbound.

NK1.32   **Contact Person's Address**

Not supported inbound.

NK1.33   **Next of Kin/Associated Party's Identifiers**

This is the most appropriate place but we have used NK1:37 previously

NK1.34   **Job Status**

Supported on REL 1 and Patient Employer

STAR processes only the Relative 1 segment repetition of this field.

Perform the standard table validation check against the Employment Status Code table (ESC). Check as code only.

If not found then display warning message 'Invalid relative employment status !' and do not update the field.

NK1.35   **Race**

Not supported inbound.

NK1.36   **Handicap**

Not supported inbound.

NK1.37   **Contact Person's Social Security Number**

Supported only on REL 1

STAR processes only the Relative 1 segment repetition of this field.

If NK1.37 does not pattern 9 numeric then display warning message 'Relative Social Security number is not valid !'.

NTE - Notes and comments segment

STAR supports this segment on the inbound on the following messages.

- Query Request message (R04)

- On ORC/OBR segments on Order Messages (ORM)

- On ORC/OBR and OBX segments on Result Messages (ORU)

NTE in R01 message

NTE field inbound after ORC/OBR/OBX

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	C		Set-ID - NTE
2	1	ID	NS		Source Comment
3	72	ST	O	N	Comment
4			NS		Comment Type

Field notes

NTE.R01.3   **Comment**

Comment for STAR Lab must not be greater than 72 characters or it will be truncated in the SoftKey Editor.

NTE in R04 message

NTE field inbound after ORC/OBR/OBX

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	C		Set-ID - NTE
2			NS		Source Comment
3	76	ST	O	N	Comment
4			NS		Comment Type

Field notes

NTE.R04.2   **Source Comment**

Not supported inbound.

NTE.R04.3   **Comment**

Comment for previous segment.

NTE.R04.4   **Comment Type**

Not supported inbound.

NTE in ORM message

NTE field inbound after ORC/OBR

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID - NTE
2			NS		Source of comment
3	36	FT	O	Y	Comments

Field notes

NTE.ORM.1   **Set ID - NTE**

The Set ID is used to determine Order Comments from Instructions if there are multiple NTEs following the ORC/OBR and the NTE.3 is less than 144 characters.

NTE.ORM.2   **Source of comment**

Not supported inbound.

NTE.ORM.3   **Comments**

Order Comments/Instructions

- Comments are first, then instructions.

- 36 characters of text per line up to 4 lines.

- If multiple lines of text are send, then each line will have it's own NTE.

- Formatted text is not supported, only string.

- Informational error message is generated when more than 36 characters

OBR - Observation request

STAR supports this segment on the inbound on the following messages.

- Query Request message (R04)

- Order Messages (ORM)

- Unsolicited Result Messages (ORU)

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	O		Set ID - OBR
2	21	CM	C		Placer Order Number
2.1	15	ST	R		Unique placer ID
2.2	5	ST	R		Placer application ID
3	36	CM	C		Filler Order Number
4	42	CE	R		Universal Service ID
4.1.1	???	ST	R		Identifier
4.1.1.1	???	ST	R		`Identifier SIM Department Code`
4.1.2	???	ST	R		Description
5	???	ID	O		Priority
6	???	TS	O		Requested Date/Time
7	12	TS	O		Observation Date/Time
8			NS		Observation End Date/Time
9			NS		Collection Volume
10			NS		Collection Identifier
11	???	ID	O		Specimen Action Code
12	???	CE	O		Danger Code
13	???	ST	O		Relevant Clinical Info
14	???	TS	O		Specimen Received Date/Time
15	91	CM	C		Specimen Source
15.1	67	CE	C		Specimen source name or code
15.1.1	3	ID			Identifier
15.1.2	20	ST			Text
16	56	CN	O	Y	Ordering Provider
17			NS		Order Call Back Phone Number
18	???	ST	O		Placer Field 1
19			NS		Placer Filed 2
20			NS		Filler Field 1
21			NS		Filler Field 2
22	12	TS	C		Result Rpt/Status Change - Date/Time
23	???	???	O		Charge to Practice

Seq	Len	Data type	R/O/C	RP/#	Element name
24			NS		Diagnostic Service Section ID
25	1	ID	C		Result Status
26			NS		Parent Result
27	???	TQ	O	Y	Quantity/Timing
28		CN	NS		Result Copies To
29	21	CM	O		Parent Number
30	10	CE	C		Transport Mode
31	45	CE	C	Y	Reason for Study
32	60	CM	O	Y	Principle Result Interpreter
33			NS		Assistant Result Interpreter
34			NS		Technician
35			NS		Transcriptionist
36			NS		Scheduled Date/Time
37			NS		Number of Sample Containers
38			NS		Trans Logistics-Collected Sample
39			NS		Collector's Comment
40			NS		Trans Arrangement Responsibility
41			NS		Transport Arranged
42			NS		Escort Required
43			NS		Planned Patient Trans Comment
44	250	CE	O		Procedure Code
45	250	CE	O	Y	Procedure Code Modifier
46			NS		Placer Supplemental Service Info
47			NS		Filler Supplemental Service Info
48	80	CE	O		Medically Necessary Dupl Proc Reason

Field notes

OBR.2   **Placer Order Number**

Order message Notes: If not in ORC.2, STAR looks for the Placer number here.

```
Conditionality rule: Required if not sent in ORC.2. If null, STAR
will assign the placer order number and send it back in an ORM.
ORC.1 will be "NA", Number Assignment.
```

Query Message Notes: STAR checks to see if valid Placer Order Number on STAR. If not, an error is logged unless Query Response is Check Previous.

Conditionality rule: Field is required except for Query Responses for Check Previous type query.

OBR.2.1   **Unique placer ID**

Placer #

OBR.2.2   **Placer application ID**

Placer Application

OBR.4   **Universal Service ID**

Test Code and description displays in Header

OBR.4.1.1   **Identifier**

Test Code

Displays in header of result screen for queried result.

OBR.4.1.1.1   **Identifier**

SIM Department Code

`Required for inbound order (ORM) and result (ORU) messages.`

OBR.4.1.2   **Description**

Test Description

Displays in header of result screen for queried result.

OBR.7   **Observation Date/Time**

Collect date and time

Query Message Notes: Collection time does not display if this field is not populated. Collection Time displays in ~CZ format except for Check Previous type query responses. Collection Time displays using ~CD and ~CC format if for a Check Previous type query. Only first 11 characters for display for Check Previous type query response.

OBR.8   **Observation End Date/Time**

Not supported inbound.

OBR.9   **Collection Volume**

Not supported inbound.

OBR.10   **Collection Identifier**

Not supported inbound.

OBR.15   **Specimen Source**

Order Message Notes: Conditionality rule:
Required for a Lab order and Lab results (STAR Patient Care ORU only). Also used for the "Left/Right" indicator on Rad orders.

Query Message Notes: Description displays only the first 15 characters. No description is displayed if empty.

OBR.15.1   **Specimen source name or code**

Specimen Source

OBR.15.1.1   **Identifier**

Specimen Source code

OBR.15.1.2   **Text**

Specimen Source text

Query Message Notes: Description displays only the first 15 characters. No description is displayed if empty.

OBR.16   **Ordering Provider**

Only used if ORC.12 = null. The only thing STAR needs is a valid physician code in either ORC.12.1, or OBR.16.1. STAR then tries to lookup the code in the physician file and will error if not on file.

OBR.17   **Order Call Back Phone Number**

Not supported inbound.

OBR.19   **Placer Filed 2**

Not supported inbound.

OBR.20   **Filler Field 1**

Not supported inbound.

OBR.21   **Filler Field 2**

Not supported inbound.

OBR.22   **Result Rpt/Status Change – Date/Time**

Required for Lab Results (STAR Patient Care ORU only).

OBR.24   **Diagnostic Service Section ID**

Not supported inbound.

OBR.25   **Result Status**

The HL7 Status code is displayed on the query response.

Required for Lab Results (STAR Patient Care ORU only).

OBR.26   **Parent Result**

Not supported inbound.

OBR.27   **Quantity/Timming**

Quanity – Start D/T – Priority Code

Example use for clinical inbound orders:

Quantity is a numeric value, usually "1".

Start D/T is YYYYMMDDHHMMSS format and is order start d/t, or for a lab example, the requested collect date/time.

Priority is only field that must match the STAR Priority table for the SIM department in OBR.4.1.2 or an error will occur.

OBR.27.2 Frequency is Optional. If sent, must be the frequency code for the SIM department in OBR.4.1.2. No error produces if it is not a code in STAR Frequency table.

OBR.27.3 Duration is Optional. No error produces if not in correct format-STAR stores last character then first character).

OBR.27.5 End Time is Optional. If sent, send in HL7 standards (YYYYMMDDHHMMSS format), and STAR just stores with order. No error produces if not in correct format.

OBR.28   **Result Copies To**

Not supported inbound.

OBR.33   **Assistant Result Interpreter**

Not supported inbound.

OBR.34   **Technician**

Not supported inbound.

OBR.35   **Transcriptionist**

Not supported inbound.

OBR.36   **Scheduled Date/Time**

Not supported inbound.

OBR.37   **Number of Sample Containers**

Not supported inbound.

OBR.38   **Trans Logistics-Collected Sample**

Not supported inbound.

OBR.39   **Collector's Comment**

Not supported inbound.

OBR.40   **Trans Arrangement Responsibility**

Not supported inbound.

OBR.41   **Transport Arranged**

Not supported inbound.

OBR.42   **Escort Required**

Not supported inbound.

OBR.43   **Planned Patient Trans Comment**

Not supported inbound.

OBR.46   **Placer Supplemental Service Info**

Not supported inbound.

OBR.47   **Filler Supplemental Service Info**

Not supported inbound.

OBR in R04 message

Seq	Len	Data type	R/O/C	RP/#	Element name
1			NS		Set ID - OBR
2	21	CM	C		Placer Order Number
2.1	15	ST	R		Unique placer ID
2.2	5	ST	R		Placer application ID
3			NS		Filler Order Number
4	2	CE	R		Universal Service ID
4.1.1	???	ST	R		Identifier
4.1.2	???	ST	R		Description
5			NS		Priority
6			NS		Requested Date/Time
7	26	TS	O		Observation Date/Time
8			NS		Observation End Date/Time
9			NS		Collection Volume
10			NS		Collection Identifier
11			NS		Specimen Action Code
12			NS		Danger Code
13			NS		Relevant Clinical Info
14			NS		Specimen Received Date/Time
15	30	CM	O		Specimen Source
15.1	18	CE			Specimen source name or code
15.1.1	3	ID			Identifier
15.1.2	15	ST			Text
16			NS		Ordering Provider
17			NS		Order Call Back Phone Number
18			NS		Placer Field 1
19			NS		Placer Filed 2
20			NS		Filler Field 1
21			NS		Filler Field 2
22			NS		Result Rpt/Status Change - Date/Time
23			NS		Charge to Practice
24			NS		Diagnostic Service Section ID
25	1	ID	O		Result Status

Seq	Len	Data type	R/O/C	RP/#	Element name
26			NS		Parent Result
27			NS		Quantity/Timing
28			NS		Result Copies To
29			NS		Parent Number
30			NS		Transport Mode
31			NS		Reason for Study
32			NS		Principle Result Interpreter
33			NS		Assistant Result Interpreter
34			NS		Technician
35			NS		Transcriptionist
36			NS		Scheduled Date/Time

Field notes

OBR.R04.1   **Set ID - OBR**

Not supported inbound.

OBR.R04.2   **Placer Order Number**

STAR checks to see if valid Placer Order Number on STAR. If not, an error is logged unless Query Response is Check Previous.

Conditionality rule: Field is required <u>except</u> for Query Responses for Check Previous type query.

OBR.R04.2.1   **Unique placer ID**

Placer #

OBR.R04.2.2   **Placer application ID**

Placer Application

OBR.R04.3   **Filler Order Number**

Not supported inbound.

OBR.R04.4   **Universal Service ID**

Test Code and description displays in Header

OBR.R04.4.1.1   **Identifier**

Test Code

Displays in header of result screen for queried result.

OBR.R04.4.1.2 **Description**

Test Description

Displays in header of result screen for queried result.

OBR.R04.5 **Priority**

Not supported inbound.

OBR.R04.6 **Requested Date/Time**

Not supported inbound.

OBR.R04.7 **Observation Date/Time**

Collect date and time

Collection time does not display if this field is not populated. Collection Time displays in ~CZ format <u>except</u> for Check Previous type query responses. Collection Time displays using ~CD and ~CC format if for a Check Previous type query. Only first 11 characters for display for Check Previous type query response.

OBR.R04.8 **Observation End Date/Time**

Not supported inbound.

OBR.R04.9 **Collection Volume**

Not supported inbound.

OBR.R04.10 **Collection Identifier**

Not supported inbound.

OBR.R04.11 **Specimen Action Code**

Not supported inbound.

OBR.R04.12 **Danger Code**

Not supported inbound.

OBR.R04.13 **Relevant Clinical Info**

Not supported inbound.

OBR.R04.14   Specimen Received Date/Time

Not supported inbound.

OBR.R04.15   Specimen Source

Description displays only the first 15 characters. No description is displayed if empty.

OBR.R04.15.1   Specimen source name or code

Specimen Source

OBR.R04.15.1.1 Identifier

Specimen Source code

OBR.R04.15.1.2 Text

Specimen Source text

Description displays only the first 15 characters. No description is displayed if empty.

OBR.R04.16   Ordering Provider

Not supported inbound.

OBR.R04.17   Order Call Back Phone Number

Not supported inbound.

OBR.R04.18   Placer Field 1

Not supported inbound.

OBR.R04.19   Placer Filed 2

Not supported inbound.

OBR.R04.20   Filler Field 1

Not supported inbound.

OBR.R04.21   Filler Field 2

Not supported inbound.

OBR.R04.22   Result Rpt/Status Change - Date/Time

Not supported inbound.

OBR.R04.23   Charge to Practice

Not supported inbound.

OBR.R04.24   Diagnostic Service Section ID

Not supported inbound.

OBR.R04.25   Result Status

The HL7 Status code is displayed on the query response.

OBR.R04.26   Parent Result

Not supported inbound.

OBR.R04.27   Quantity/Timing

Not supported inbound.

OBR.R04.28   Result Copies To

Not supported inbound.

OBR.R04.29   Parent Number

Not supported inbound.

OBR.R04.30   Transport Mode

Not supported inbound.

OBR.R04.31   Reason for Study

Not supported inbound.

OBR.R04.32   Principle Result Interpreter

Not supported inbound.

OBR.R04.33   Assistant Result Interpreter

Not supported inbound.

OBR.R04.34   **Technician**

Not supported inbound.

OBR.R04.35   **Transcriptionist**

Not supported inbound.

OBR.R04.36   **Scheduled Date/Time**

Not supported inbound.

OBX - Observation/result

STAR supports this segment on the inbound on the following messages.

- Query Request message (R04)

- Order Messages (ORM) for Clinical Ordering Detail, Dietary Send Tray, and SIM prompt/responses.

- Unsolicited Result Message (ORU) for Abnormal Flags for Clinical Browser display.

- Unsolicited Result Message (ORU) for STAR Lab Blood Bank Results (R01).

OBX in R01 message

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	O		Set-ID - OBX
2	2	ID	R		Value Type
3	30	CE	R		Observation ID
4	20	ST	O		Observation Sub-ID
5	210	ST	R		Observation Value
6	20	CE	O		Units
7	135	ST	O		Reference Ranges
8	10	ID	O		Abnormal Flags
9			NS		Probability
10			NS		Nature of Abnormal Test
11	2	ID	O		Observ Result Status
12			NS		Date Last Obs Normal Values
13			NS		User Defined Access Checks
14			NS		Date / Time of Observation

Seq	Len	Data type	R/O/C	RP/#	Element name
15	60	CE	O		Producer's ID
16			NS		Responsible Observer

Field notes

OBX.R01.3   Observation ID

OBX.R01.3.1   Observation Code

This field is mapped to a STAR Lab component code.

OBX.R01.3.2   Observation Description

Uses the STAR Lab component code's description.

OBX.R01.5   Observation Value

This field is usually treated as an ST data type, but can also be used as a repeating field by use of the repetition separator encoding character. The STAR Lab blood bank results interface will string together (comma separated) all repeating observation values.

OBX.R01.6   Units

Ignored by the STAR Lab blood bank results interface. Must be built on the component defined in STAR Lab used by the test code.

OBX.R01.7   Reference Ranges

The STAR Lab results interface to store the reference ranges sent by the blood bank system, if used.

OBX.R01.8   Abnormal Flags

This field is conditional. If present, is used for Clinical Browser display. Must use the HL7 table values in this field.

OBX.R01.11   Observation Result Status

This field is no longer required for all lab results (ORU).

OBX in R04 message

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	O		Set-ID - OBX
2	2	ID	R		Value Type

Seq	Len	Data type	R/O/C	RP/#	Element name
3	80	CE	R		Observation ID
4	20	ST	O		Observation Sub-ID
5	210	ST	R		Observation Value
6	60	CE	O		Units
7	60	ST	O		Reference Ranges
8	10	ID	O		Abnormal Flags
9			NS		Probability
10			NS		Nature of Abnormal Test
11	2	ID	O		Observ Result Status
12			NS		Date Last Obs Normal Values
13			NS		User Defined Access Checks
14			NS		Date / Time of Observation
15	60	CE	O		Producer's ID
16			NS		Responsible Observer

Field notes

OBX.R04.2   **Value Type**

This field is used to determine if check previous can be done. If = TX then Check previous is not available. The supported values on an R04 are NM, ST, and TX.

OBX.R04.3   **Observation ID**

Only the first 20 characters of the description displays.

OBX.R04.4   **Observation Sub-ID**

Not supported inbound.

OBX.R04.5   **Observation Value**

This field is always treated as a ST. If check previous only the first 11 Characters will display and a "^" will indicated there is more data to view using query other than check previous.

OBX.R04.6   **Units**

Units will display if this field populated for other than TX value type OBX.2

OBX.R04.7   **Reference Ranges**

Range will display if populated for other than TX value type OBX.2.

OBX.R04.8   **Abnormal Flags**

Only the HL7 table value in this field will display on the screen for other than TX value type OBX.2.

OBX.R04.9   **Probability**

Not supported inbound.

OBX.R04.10   **Nature of Abnormal Test**

Not supported inbound.

OBX.R04.12   **Date Last Obs Normal Values**

Not supported inbound.

OBX.R04.13   **User Defined Access Checks**

Not supported inbound.

OBX.R04.14   **Date / Time of Observation**

Not supported inbound.

OBX.R04.15   **Producer's ID**

Optional

OBX.R04.16   **Responsible Observer**

Not supported inbound.

ORC - Common order (order)

Seq	Len	Data type	R/O/C	RP/#	Element name
1	2	ID	R		Order control code
2	21	CM	R		Placer order number
3	36	CM	O		Filler order number
4	21	CM	O		Placer group number
5	2	ID	R		Order status
6	1	ID	O		Response flag
7	444	TQ	O		Quantity/timing
8	21	CM	O		Parent order number
9	12	TS	O		Date/time of transaction

Seq	Len	Data type	R/O/C	RP/#	Element name
10	50	CN	O		Entered by
11	50	CN	O		Verified by
12	54	CN	O		Ordering provider
13	71	CE	O		Enterer's location
14	15	TN	O		Call back phone number
15	12	TS	O		Order effective date/time
16	41	CE	O		Order control code reason
17			NS		Entering organization
18	71	CE	O		Entering device
19	50	CN	O		Action by
20	40	CE	O		ADV Beneficiary Notice Code
21			NS		Ordering Facility Name
22			NS		Ordering Facility Address
23			NS		Ordering Facility Phone Number
24			NS		Ordering Provider Address
25			NS		Reserved
26	80	CE	O		ADV Beneficiary Notice Override Reason

Field notes

ORC.12   **Ordering Provider**

The information must match the codes that STAR has present in the Physician/NSCG table.

ORC.20   **ADV Beneficiary Notice Code**

The data in this field must be 1-4.

PD1 - Patient additional demographic segment

Seq	Len	Data type	R/O/C	RP/#	Element name
1	2	IS	NS		Living Dependency
2	2	CE	O		Living Arrangement
3	90	XON	NS		Patient Primary Facility
4	25	CN	C		Patient Primary Care Provider Name and ID #
5	2	ID	NS		Student Indicator
6	2	ID	NS		Handicap
7	2	ID	NS		Living Will
8	2	IS	O		Organ Donor
9	2	ID	NS		Separate Bill

Seq	Len	Data type	R/O/C	RP/#	Element name
10	2	CX	NS		Duplicate Patient
11	1	CE	O		Publicity Indicator
12	1	ID	NS		Protection Indicator
13	1	ID	NS		Protection Indicator Effective Date
14	37	CE	O		Church Code

Field notes

PD1.1   **Living Dependency**

Not supported inbound at this time

PD1.3   **Patient Primary Facility**

Not supported inbound

PD1.4   **Patient Primary Care Provider Name and ID #**

Account Primary Care Physician

MPI Primary Care Physician

If the HL7 message is an A28 or A31, update only the Master PCP. If it is an A08 without a PID.18 or PV1.50, update only the Master PCP. If it is an A14 or an A08 with a PID.18 or PV1.50, then update the account specific PCP.

Match the code (minus any facility identifiers) to the Physician table for the correct facility. When checking the physician table, table code match first, then exact Physician name. If an exact match on the name is found then use it. If the physician is preceded with a semi-colon, perform a free form name check.

If error looking up in the table or checking it as a freeform name then display informational message 'Invalid Primary Care Physician code!' and do not update this field.

PD1.5   **Student Indicator**

Not supported inbound at this Time.

PD1.6   **Handicap**

Not supported inbound at this Time.

PD1.7   **Living Will**

Not supported inbound at this Time.

PD1.8   **Organ Donor**

Account Organ Donor

Check ZPI.4 against the Organ Donor Table (COD) using the standard table validation routine. If it doesn't exist in the table, warning "Invalid organ donor code!" . If valid table entry and different from current value, update. If blank read ZPI.4.

PD1.9   **Separate Bill**

Not supported inbound at this Time.

PD1.10   **Duplicate Patient**

Not supported inbound at this Time.

PD1.11   **Publicity Indicator**

Check to see if code exists in the CPUB table using the standard table validation routines.

If it doesn't exist - Warning "Invalid Publicity Code!"

If different from current code, update both the patient record and the bed record.

PD1.12   **Protection Indicator**

Not supported inbound at this Time.

PD1.13   **Protection Indicator Effective Date**

Not supported inbound at this Time

PID - Patient ID segment

McKesson has adopted Elements 28-30 from HL7 2.3 in their internal HBOCHI 2.2 standard.

STAR updates information from the PID segment only under the following conditions.

- PID is received on an A01, A04, A05 or A14 with an account number or temporary account numbers (PID.18 and/or PV1.50).

- Account number on A14 does not already exist in STAR.

If the patient's name is changed from the interface, the Previous Patient Name is always retained in the MPI. If a name type is not defined, "P" for previous will be used.

A Pseudo Name check is always performed if the patient's name is change.

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	C		Set ID - Patient ID
2	30	CK	C		Patient ID (External ID)
2.1	20	CK	C		ID Number
2.2					Check Digit
2.3					Check Digit Scheme
2.4	6	ST	C		Assigning Authority
3	24	CM	C		Patient ID (Internal ID)
3.1	12	ST	C		Patient ID
3.2	1	1	O		Check digit
3.3					Check digit scheme
3.4	6	ID	C		Assigning authority/facility ID
3.5	2	ID	C		Type
4	22	ST	C		Alternate Patient ID
4.1	12	ST	C		ID Number
4.2	1	NM	O		Check Digit
4.3					Check Digit Scheme
4.4	6	ST	O		Assigning Authority
5	43	PN	C		Patient's Name
5.1	33	ST	C		Family name
5.2	33	ST	C		Given name
5.3	33	ST	O		Middle name or initial
5.4	5	ST	O		Suffix
6	25	ST	O		Mother's Maiden Name
7	8	DT	O		Date of Birth
8	1	ID	O		Sex
9	43	PN	O	Y/17	Patient Alias
9.1	35	ST	O		Family name
9.2	35	ST	O		Given name
9.3	35	ST	O		Middle name or initial
9.4	5	ST	O		Suffix
10	1	ID	O		Race
11	97	AD	O	Y/2	Patient address
11.1	25	ST	O		Street address
11.2	25	ST	O		Other designation
11.3	18	ST	O		City
11.4	2	ST	O		State or province
11.5	10	ST	O		Zip or postal code
11.6	3	ID	O		Country
11.7	1	ID	O		Type
11.8	5	ST	O		Other geographic designation

Seq	Len	Data type	R/O/C	RP/#	Element name
12					County Code
13	18	TN	O	Y/2	Phone Number - Home, internet, fax number
14	18	TN	O		Phone Number - Business, internet, fax number.
15	20?	CE	O		Language - Patient
15.1	3?	ID	O		Identifier
15.2					Text
15.3					Name of coding system
16	1	ID	O		Marital Status
16.1	3	ID	O		Identifier
16.2					Text
16.3					Name of coding system
17	3	CE	O		Religion
17.1	3	ID	O		Identifier
17.2	19	ST	O		Text
17.3					Name of coding system
18	23	CK	C		Patient Account Number
18.1	12	ST	C		Patient ID
18.2	1	ST	O		Check digit
18.3					Check digit scheme
18.4	6	ID	C		Assigning facility ID
19	17	ST	O		SSN Number - Patient
20					Driver's License Number - Patient
21					Mother's Identifier
22					Ethnic Group
23	25	ST	O		Birth Place
24					Multiple Birth Indicator
25					Birth Order
26					Citizenship
27	1	CE	O	Y/1	Veteran's Military Status
28	3	CE	O		Nationality
29	17	TD	O		Patient Death Date and Time
30	1	ID	O		Patient Death Indicator
31	1	ID	O		Identity Unknown Indicator
32					Reserved -HL7 Expansion
33					Reserved -HL7 Expansion
34					Reserved -HL7 Expansion
35					Reserved -HL7 Expansion
36					Reserved -HL7 Expansion
37					Reserved -HL7 Expansion
39					Reserved -HL7 Expansion
40					Reserved -HL7 Expansion

Seq	Len	Data type	R/O/C	RP/#	Element name
41					Reserved -HL7 Expansion
42					Reserved -HL7 Expansion
43					Reserved -HL7 Expansion
44					Reserved -HL7 Expansion
45					Reserved -HL7 Expansion
46					Reserved -HL7 Expansion
47					Reserved -HL7 Expansion
48					Reserved -HL7 Expansion
49					Reserved -HL7 Expansion
50	1	ID	O		Identity Unknown Indicator

Field notes

PID.2   **Patient ID (External ID)**

Enterprise Number and Assigning Authority:

HBOCHI reserves this field for the Enterprise Number.

STAR stores this number internally, provides an index, and displays this information on the Patient Identification Number screen as well as the EMPI MPI Search display formats, and in GUI MPI Search. STAR supports up to 20 characters for Enterprise Number (EPN) and up to 6 for Assigning Authority. STAR accepts only those EPNs that have assigning authorities. STAR allows only one number to be assigned to one person and only one is allowed per person. STAR will create/update the PID,2 with a Z46 or A28. We will also add an EPN because of an A14.

If EPN is blank in STAR it will update the EPN based on any message type. If not blank, then the EPN is not updated in STAR except for Z46s.

When an A24 (or the second PID with a Z46) is processed, if the PID.2 currently exists in STAR then an error message "Enterprise Number XXXX already on file!" will print on the console log, and the message is rejected.

If the PID Segment of the A24 (or the second PID with a Z46) does have an EPN and/or associated Assigning Authority, and not the other number, the system will error a message "Missing required Enterprise Number", and the message is rejected.

If the HL7 message being processed will create a person on STAR, and POS is turned on, if this field is not present, the message will not be processed. An error message "Enterprise validation not performed, addition not processed" will appear and the message will not process.

Conditionality rule: Required on A28, A14 (and second PID of a Z46) or any message that will add a person to STAR if point of service activated with HNE or Passport

PID.2.1   ID Number

Enterprise Person Number (EPN)

Both an EPN and Assigning Authority is required to process EPN updates. One without the other is not valid.

PID.2.2   Check Digit

Not supported inbound.

PID.2.3   Check Digit Scheme

Not supported inbound.

PID.2.4   Assigning Authority

Assigning Authority

If PID.2 sent, this field is required. Passport usually uses NE. Both an EPN and Assigning Authority is required to process EPN updates. One without the other is not valid.

PID.3   Patient ID (Internal ID)

Unit # and Corporate #

Value	Description
Unit #	MR type
Corporate #	PI type

hidden paragraph below

The MR length parameter will be checked, if PID.3 MR is longer than the parameter a message will display "MR# Length invalid." The same will be done for the PI, or corporate number.

Conditionality rule: Not required on person level events (explanation on what is a person level event? PID.3.1, PID.3.4, & PID.3.5 are all required on an inbound order or result, otherwise you get an error)or on A14, Pending Admits. An A14 can be processed from PHS with the PID.4 present or from Horizon^{wp} Passport with the PID.2 present. On all PIDs, either a PID.2, PID.3 or PID.4 must be present to identify the patient.

PID.3.1 **Patient ID**

     If PID.3 sent, this field is required.

PID.3.3 **Check digit scheme**

     Not supported inbound.

PID.3.4 **Assigning authority/facility ID**

     Assigning Authority+Facility ID

     `If PID.3 sent, this field is required.`

PID.3.5 **Type**

Value	Description
Unit #	MR type
Corporate #	PI type

     If PID.3 sent, this field is required.

PID.4 **Alternate Patient ID**

     If an A14 is sent inbound and the PID.2 or PID.3 is not present, PID.4 is required. Currently this is used only by PHS as their Person Level identifier for patients who originate in PHS,

PID.4.3 **Check Digit Scheme**

     Not supported inbound.

PID.5 **Patient's Name**

     Patient Name & Entitle

     STAR formats patient name as follows:

     Name <Last,First Middle> (37 includes comma and space formatting characters)

     Interface honors the Name pattern match found in HBO Parameter Settings for ~A1.

     STAR formats the name received as follow:
     Family name "," Given name " " Middle name
     ex: Albertson,Clair Jean

If the total length of the patient name exceeds 37 characters including the comma and the space, STAR truncates the name. A warning error is generated: 'Patient Name has been Adjusted'.

If the name received does not fit the pattern match defined in ~A parameter, STAR strips the additional characters from the name.

If the name still does not make a valid name on STAR, the following error is generated: 'Patient name is not valid.'

If STAR already has a valid patient name in its database, the name change is ignored.

If the patient's name is changed by STAR, STAR sends out a new update message.

If the patient is new and the name is invalid, then a fatal error occurs and the message is not processed.

If the name is valid and different from STAR, the name is updated. The previous name is retained in the MPI and a check is made to see if this is a change from a Pseudo person name. If the previous name was the Pseudo Person name, the patient is promoted to a full person. The previous name will be defaulted as "

Conditionality rule:
If this is person/patient is new to STAR, a valid name must be sent. Otherwise, if a name already exists in STAR, STAR ignores this field if not present.

If middle name is equal to "" it will be deleted from STAR. If name is not double quotes, checks against the~A1 format for the name.

PID.5.1   **Family name**

Last Name

Required if creating a person in STAR (at least two characters).

PID.5.2   **Given name**

First Name

Required if creating a person in STAR (at least one character).

PID.5.3   **Middle name or initial**

Middle Name

PID.5.4   **Suffix**

        Entitle

PID.6   **Mother's Maiden Name**

        Mother's Name

STAR strips all control characters and truncates length to 25.

PID.7   **Date of Birth**

        Birthdate

Required in STAR for any MPI entry (including guarantors). If the birthdate is not present or invalid, and STAR is creating the person, STAR defaults the birthdate from the Hospital Facility Options. STAR does not allow a future date. If an invalid date is received while creating a person, a warning is generated: "Error: Date of birth is invalid, using default or system date." In this case, STAR will use, and send an outbound update message with the default birthdate.

If STAR receives double quotes, a zero, or a future date, an error is generated: "Invalid Date of Birth." If this is a new patient, the default birthdate will be used. If it is not a new patient, then the birthdate will not be updated.

PID.8   **Sex**

        Sex

STAR supports only:

Value	Description
M	Male
F	Female

Since STAR requires a sex on all MPI entries (including Guarantors), if not sent, and a person is being created, the system default is taken.

STAR defaults to "F" if STAR receives a null or unrecognized sex code on a new person/patient. A warning message is generated: "Warning: Patient sex default to Female."

If the person/patient currently has a valid sex code in their record and an invalid code or double quotes are received, a warning message is generated: "Warning: Patient Sex not Valid." and it is not updated.

If STAR receives a valid but different sex code for a person/patient, the sex update is made.

PID.9   **Patient Alias**

     Previous Names

     This is a function in MPI Inquiry/Revision.

     Formatting rules for Patient Name applies to this field as well.

     If the Previous Alias repetitions are greater than 1023bites, STAR generates a warning: "Warning: Maximum number of 'Other Names' has been exceeded."

     STAR reviews the Alias'. If they are not the same as the current patient name, or any other previous aliases, STAR will add the aliases if there is room in the database. If there is not name type associated with the name, they will be added with a name type of "P", Previous.

PID.9.1   **Family name**

     Last Name

PID.9.2   **Given name**

     First Name

PID.9.3   **Middle name or initial**

     Middle Name

PID.9.4   **Suffix**

     Entitle Not supported inbound.

PID.10   **Race**

     Race

     Race table [RAC] codes must match.
     If STAR receives a Race code not matching a code in STAR's Race table, a warning is generated: "Warning: Invalid Race code."

     If ""' are received, STAR deletes the race code.

PID.11   **Patient address**

     Patient's Address (Patient page):

     If the type field is "P", STAR populates the Permanent address fields.

If the type is "C", then the Alt field (for alternate address) is set to Yes and the address fields for the alternate address is populated. STAR stores only two patient addresses. If P and C are not defined, the first will be "P", second one "C".

If any field is longer than specified in this specification, STAR truncates to the length specified. (See component fields.)

STAR has a county [CVC] table and codes will perform standard table validation, as will the country and state codes. If invalid, then Warning: Invalid State Code (or country or county). If the Country code has a translation or conversion code entered, these codes will be used to translate the three-character country code coming inbound to STAR's two character country codes.

Zip/Postal code - removes punctuation except for double quotes. If it is not null, not double quotes, and is not 5 or 9 numeric, or 3 sets of AN (A1A1A1) assume invalid - blank it out, warning: Invalid Zip Code.

Checks all component to see if not equal to null, or double quotes or are changed from the existing patient record.

If all of the patient Alternate information:

(Alt Address, Alt Address line 2, Alt City, Alt, State, Alt ZIP/Post Code, Alt County, Alt Phone #, Alt County)

are blank, then set the Alternate Address indicator to blank.

PID.11.1   **Street address**

                Address Line 1

PID.11.2   **Other designation**

                Address Line 2

PID.11.3   **City**

                City

PID.11.4   **State or province**

                State

PID.11.5   **Zip or postal code**

                ZIP Code (99999-9999) format

PID.11.6   **Country**

Country

Value received must match Country Table [HCT] conversion code if three character country code if found. If two characters and found, update. If not found do not update.

PID.11.7   **Type**

STAR supports:

Value	Description
P	Permanent Patient Address
C	Current Patient's Alt Address

If neither P nor C is received, STAR uses the first address as the Patient's Address (P) and the second as the Alternate Address (C).

PID.11.8   **Other geographic designation**

County

Value received must match County [CYC] table code. If not, and no double quotes, no update made.

PID.12   **County Code**

Not supported inbound.

PID.13   **Phone Number - Home, internet, fax number**

Patient's Page

Phone (13)

Ext. (4)

Repetition:
1st   stored as Patient's Primary phone.
2nd   stored as Patient Alternate phone.

STAR does not accept the country code on the beginning of the phone number.

STAR accepts a 10 or 7 digit numeric.

If the area code is not sent (7 digits without area code), STAR accepts the number and defaults the area code from the Hospital Facility Default Area Code.

The extension is optional. If provided and a valid number up to 4 digits, STAR accepts.

If double quotes are received, the specified phone number/extension within STAR will be deleted. If the phone number does not meet the above criteria, then a warning message is generated: 'Invalid phone number!'

In detail:

- Number is UPPERCASED

- If number contains UPPERCASE characters then set number-to-number upper case but not including the 1st UPPERCASE character.

- Set extension equal to all characters of the number after the 'X' character.

- If number patterns JUST 10 numeric's, then format the number to '(###)###-####'

- If extension is something other than blanks, ""(delete indicator), OR 1 to 5 numeric's then it will not be updated, and a warning message is generated: *Invalid phone extension!*

- If number not blank & number not equal to current number then update

- If extension not blank & extension not equal to current extension then update

PID.14   **Phone Number - Business, internet, fax number.**

Patients Employer page

Work Phone (13)

Ext. (4)

STAR supports only one work number.

1st repetition is stored as business phone. Other repetitions are not read.

Refer to PID.13 for detail formatting rules.

PID.15   **Language - Patient**

Language **(Patient page)**

STAR looks to see if the code sent matches a code in STAR's Language table [CLAN].

If there is no match, then a warning message is generated, and no update is made.

'Invalid language code!'

PID.15.1   **Identifier**

Code

The code must match a code in STAR's Language table [CLAN]. If it matches the associated description is used and not the description sent.

PID.15.2   **Text**

Not supported inbound.

PID.15.3   **Name of coding system**

Not supported inbound.

STAR assumes table matches STAR's Language table.

PID.16   **Marital Status**

Marital Status (Patient page)

Marital Status table [MST] codes must match.

If not found then warning message 'Invalid marital status code!' is generated.

PID.16.1   **Identifier**

Code

The code must match a code in STAR's Marital Status table [MST]. If it matches the associated description is used and not the description sent.

PID.16.2   **Text**

Not supported inbound.

PID.16.3   **Name of coding system**

Not supported inbound.

PID.17   **Religion**

Denomination (3)

Denomination table [DEN] codes must match.

STAR looks for a matching code first. If found then description is taken from STAR Denomination table.

If code is not matched, STAR tries to match Denomination description to STAR table.

If neither found then warning message.

'Invalid denomination code!'

If found update patient record and location file.

PID.17.1   **Identifier**

Code

The code must match a code in STAR's Denomination table [DEN].

PID.17.2   **Text**

Description

STAR will use only the first 19 characters of the denomination description to try and find a match in the STAR denomination table descriptions, if the code sent did not have a match. If a match on the description is found, then the associated STAR code will be used.

PID.17.3   **Name of coding system**

Not supported inbound.

STAR assumes table matches STAR's Denomination table.

PID.18   **Patient Account Number**

Account Number

Account number, if present, must match an existing account number in STAR, or it must be within the Reserved Account Number Range (see Implementation).

Conditionality rule:
Required on P03, O01, and R01 messages.

If this field (or PV1.50) is not present on A08s, they will be treated as A31s. This field, or PV1.50 must be present for any message to update account level information.

Field is not required on an A14, A31 or A28.

PID.18.3   **Check digit scheme**

Not supported inbound.

PID.18.4   **Assigning facility ID**

Assigning Authority

PID.19   **SSN Number - Patient**

Soc Sec Number

The Social Security Number (SSN) must be 9 numeric (or blanks or double quotes), else the following warning message is generated: 'Invalid social security number!'

If double quotes are sent on the SSN, the number is deleted on STAR.

PID.20   **Driver's License Number - Patient**

Not supported inbound.

PID.21   **Mother's Identifier**

Not supported inbound.

PID.22   **Ethnic Group**

Not supported inbound.

PID.23   **Birth Place**

Birthplace

STAR takes the first 25 characters sent as the Birthplace.

If double quotes are received, STAR deletes the Birthplace.

PID.24   **Multiple Birth Indicator**

Not supported inbound.

PID.25   **Birth Order**

Not supported inbound.

PID.26   **Citizenship**

Not supported inbound.

PID.28   **Nationality**

Nationality

Nationality table [NAT] codes must match.

If not found in NAT table then warning message 'Invalid Nationality!' is generated.

If = double quotes then set to blank.

PID.29   **Patient Death Date and Time**

Date of Death

If date is greater than current system date or less than patient's birthdate a warning message is generated: 'Invalid date of death!' No updates are made in STAR.

STAR does not accept this field on ***hidden text here*** A14 messages. If received a warning is generated: 'Not valid record, date of death present!' No updates are made in STAR.

If message type of ***hidden text here*** A08, A31 and account/visit has a Discharge Date, or there is no associated visit, and patient death date is not greater then current system date then update.

If message type of A28 and patient death date is equal to or less than current system date then update.

PID.30   **Patient Death Indicator**

Date of Death

If patient death indicator contains "Y" and message type of ***hidden text here*** A08 or A31 and patient death date is blank then set Date of Death = current system date and display a warning message: 'Date of Death defaulted to today.'

If indicator contains a "N" and date of death is present in patient's account, delete date of death and adjust indicator to No.

PID.32   **Reserved -HL7 Expansion**

Not supported inbound.

PID.33   **Reserved -HL7 Expansion**

Not supported inbound.

PID.34   **Reserved -HL7 Expansion**

Not supported inbound.

PID.35 **Reserved -HL7 Expansion**

Not supported inbound.

PID.36 **Reserved -HL7 Expansion**

Not supported inbound.

PID.37 **Reserved -HL7 Expansion**

Not supported inbound.

PID.39 **Reserved -HL7 Expansion**

Not supported inbound.

PID.40 **Reserved -HL7 Expansion**

Not supported inbound.

PID.41 **Reserved -HL7 Expansion**

Not supported inbound.

PID.42 **Reserved -HL7 Expansion**

Not supported inbound.

PID.43 **Reserved -HL7 Expansion**

Not supported inbound.

PID.44 **Reserved -HL7 Expansion**

Not supported inbound.

PID.45 **Reserved -HL7 Expansion**

Not supported inbound.

PID.46 **Reserved -HL7 Expansion**

Not supported inbound.

PID.47 **Reserved -HL7 Expansion**

Not supported inbound.

PID.48   **Reserved -HL7 Expansion**

Not supported inbound.

PID.49   **Reserved -HL7 Expansion**

Not supported inbound.

PID.50   **Identity Unknown Indicator**

Pseudo Person Indicator

This HL7 field will not be processed if the patient already exists and it is NOT a Pseudo Person.

Valid entries are double quotes, blanks, Y or N.

If PID.50 is not Null and it is equal to either double quotes OR 'N' and the person is currently a Pseudo person, then the pseudo person flag in STAR is removed, promoting the patient.

If PID.50 equal to 'Y' and it is a new person, then set to Facility letter in the pseudo field of the patient record.

If the existing person is a pseudo person, but PID.50 is null, the pseudo person will be promoted.

If the person is a pseudo person currently, and Yes is sent, then no promotion of the patient will occur.

PV1 - Patient visit information

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	C		Set ID - Patient Visit
2					Patient Class
3	23	CM	O		Assigned Patient Location
4	2	ID	O		Admission Type
5					Pre-Admit Number
6	23	CM	O		Prior Patient Location
7	56	CN	O		Attending Doctor
7.1					ID number
7.2					Family name
7.3					Given name
7.4					Middle name or initial

Seq	Len	Data type	R/O/C	RP/#	Element name
7.5					Suffix
7.6					Prefix
7.7					Degree
7.8					Source table
8	56	CN	O		Referring Doctor
8.1					ID number
8.2					Family name
8.3					Given name
8.4					Middle name or initial
8.5					Suffix
8.6					Prefix
8.7					Degree
8.8					Source table
9	9	CN	C	Y	Consulting Doctor
9.1					ID number
9.2					Family name
9.3					Given name
9.4					Middle name or initial
9.5					Suffix
9.6					Prefix
9.7					Degree
9.8					Source table
10	3	ID	O		Hospital Service
11	12	CM			Temporary Location
12					Pre-Admit Test Indicator
13	1	IS			Readmission Indicator
14	2	ID	O		Admit Source
15					Ambulatory Status
16	3	ID	O		VIP Indicator
17	56	CN	C		Admitting Doctor
17.1					ID number
17.2					Family name
17.3					Given name
17.4					Middle name or initial
17.5					Suffix
17.6					Prefix
17.7					Degree
17.8					Source table
18	3	ID	O		Patient Type
19	15	CK			Visit Number
20	2	CM	O		Financial Class

Seq	Len	Data type	R/O/C	RP/#	Element name
21					Charge Price Indicator
22	2	ID	O		Courtesy Code
23					Credit Rating
24					Contract Code
25					Contract Effective Date
26					Contract Amount
27					Contract Period
28					Interest Code
29					Transfer to Bad Debt Code
30					Transfer to Bad Debt Date
31					Bad Debt Agency Code
32					Bad Debt Transfer Amount
33					Bad Debt Recovery Amount
34					Delete Account Indicator
35					Delete Account Date
36	3	ID	O		Discharge Disposition
37					Discharged to Location
38					Diet Type
39	I	ID	O		Servicing Facility
40					Bed Status
41					Account Status
42					Pending Location
43					Prior Temporary Location
44	12?	TS?			Admit Date/Time
45	12	TS	O		Discharge Date/Time
46					Current Patient Balance
47					Total Charges
48					Total Adjustments
49					Total Payments
50	24	CM	C		Alternate Visit ID
50.1					Patient ID
50.2					Check digit
50.3					Check digit scheme
50.4					Assigning facility ID
50.5					Visit ID type
51					Visit Indicator
52					Other Healthcare Provider

Field notes

PV1.2   **Patient Class**

      Not supported inbound.

PV1.4   **Admission Type**

      Admission Type

      Code received must match STAR's Admission Types table [ADT].

PV1.5   **Pre-Admit Number**

      Not supported inbound.

PV1.7   **Attending Doctor**

      Attending Physician

      The physician code and name received are checked against STAR's physician table [DOC]. If the code matches a physician, then the patient record and the location file is updated.

      If the physician exists as a Group (*), no update is made and the following warning is generated: 'Physician group entry not allowed!'

      If double quotes are received in the PV1.7 field and the patient is a "Pre" admission in STAR (in HL7 terms this is a Pending Admission), the Attending physician is deleted. If the patient status is <u>not</u> "Pre", STAR retains the physician and generates the following warning: 'Invalid Attending physician code!'

      If doctors have multiple addresses, STAR will use Primary Address for physician. HL7 standards do not accommodate physician's address in ADT messages.

PV1.7.1   **ID number**

      Code

PV1.7.2   **Family name**

      Last Name

PV1.7.3   **Given name**

      First Name

PV1.7.4   **Middle name or initial**

Middle Name

PV1.7.5   **Suffix**

Not supported inbound.

PV1.7.6   **Prefix**

Not supported inbound.

PV1.7.7   **Degree**

Not supported inbound.

PV1.7.8   **Source table**

Not supported inbound.

PV1.8   **Referring Doctor**

Referring Physician

PV1.8.1   **ID number**

Code

PV1.8.2   **Family name**

Last Name

PV1.8.3   **Given name**

First Name

PV1.8.4   **Middle name or initial**

Middle Name

PV1.8.5   **Suffix**

Not supported inbound.

PV1.8.6   **Prefix**

Not supported inbound.

PV1.8.7   **Degree**

Not supported inbound.

PV1.8.8   **Source table**

Not supported inbound.

PV1.9   **Consulting Doctor**

Consulting Physician

PV1.9.1   **ID number**

Code

PV1.9.2   **Family name**

Last Name

PV1.9.3   **Given name**

First Name

PV1.9.4   **Middle name or initial**

Middle Name

PV1.9.5   **Suffix**

Not supported inbound.

PV1.9.6   **Prefix**

Not supported inbound.

PV1.9.7   **Degree**

Not supported inbound.

PV1.9.8   **Source table**

Not supported inbound.

PV1.10   **Hospital Service**

Medical Service

Code received must match STAR's Service Table [SER].

If Service received is null or does not match a code in STAR's table, a warning message is generated: 'Invalid hospital service!'

PV1.11   **Temporary Location**

Not supported inbound.

PV1.12   **Pre-Admit Test Indicator**

Not supported inbound.

PV1.13   **Readmission Indicator**

Not supported inbound.

PV1.14   **Admit Source**

Admission Source

Code received is checked against STAR's Admission Sources table [ADS].

If code does not match STAR's table, a warning message is generated: 'Admission source not on file!'

PV1.15   **Ambulatory Status**

Not supported inbound.

PV1.16   **VIP Indicator**

Patient Classification

Code received must match STAR's Classification table [CPCL].

If code does not match STAR's table, a warning message is generated: 'VIP indicator not on file!'

PV1.17   **Admitting Doctor**

Admitting Physician

This field is handled the same as the Attending physician.

If the name is adjusted a warning message is generated: 'Admitting Physician's name has been adjusted!' A patient update is sent outbound with the Admitting physician name change.

PV1.17.1   **ID number**

Code

PV1.17.2   **Family name**

Last Name

PV1.17.3   **Given name**

First Name

PV1.17.4   **Middle name or initial**

Middle Name

PV1.17.5   **Suffix**

Not supported inbound.

PV1.17.6   **Prefix**

Not supported inbound.

PV1.17.7   **Degree**

Not supported inbound.

PV1.17.8   **Source table**

Not supported inbound.

PV1.18   **Patient Type**

Patient Type

STAR processes this field only if the current account/visit does not have a patient type defined.

Code must match one in STAR's Patient Type table [PT].

If code does not match STAR's table, a warning message is generated: 'New patient type is not defined!'

PV1.19 **Visit Number**

Not supported inbound.

PV1.20 **Financial Class**

This is either defaulted on STAR at the time the account number is assigned or is gathered from the insurance table in STAR.

PV1.21 **Charge Price Indicator**

Not supported inbound.

PV1.22 **Courtesy Code**

Courtesy Discharge

PV1.23 **Credit Rating**

Not supported inbound.

PV1.24 **Contract Code**

Not supported inbound.

PV1.25 **Contract Effective Date**

Not supported inbound.

PV1.26 **Contract Amount**

Not supported inbound.

PV1.27 **Contract Period**

Not supported inbound.

PV1.28 **Interest Code**

Not supported inbound.

PV1.29 **Transfer to Bad Debt Code**

Not supported inbound.

PV1.30 **Transfer to Bad Debt Date**

Not supported inbound.

PV1.31   **Bad Debt Agency Code**

Not supported inbound.

PV1.32   **Bad Debt Transfer Amount**

Not supported inbound.

PV1.33   **Bad Debt Recovery Amount**

Not supported inbound.

PV1.34   **Delete Account Indicator**

Not supported inbound.

PV1.35   **Delete Account Date**

Not supported inbound.

PV1.36   **Discharge Disposition**

Not supported inbound.

PV1.37   **Discharged to Location**

Not supported inbound.

PV1.39   **Servicing Facility**

Not supported inbound.

PV1.40   **Bed Status**

Not supported inbound.

PV1.41   **Account Status**

Not supported inbound.

PV1.42   **Pending Location**

Not supported inbound.

PV1.43   **Prior Temporary Location**

Admission Date/Time

STAR allows backdating of the admission date/time.

PV1.46   **Current Patient Balance**

Not supported inbound.

PV1.47   **Total Charges**

Not supported inbound.

PV1.48   **Total Adjustments**

Not supported inbound.

PV1.49   **Total Payments**

Not supported inbound.

PV1.50   **Alternate Visit ID**

Please refer to the A14 message description for additional information regarding the processing of this field.

PV1.51   **Visit Indicator**

Not supported inbound.

PV1.52   **Other Healthcare Provider**

Not supported inbound.

PV2 - Patient visit - additional information

McKesson has adopted PV1.2 segment fields 10-37 from HL7 2.3 in their internal HBOCHI 2.2b standard.

Seq	Len	Data type	R/O/C	RP/#	Element name
1					Prior Pending Location
2	63	CE	O		Accommodation Code
3					Admit Reason
4					Transfer Reason
5	1	ST	O		Patient Valuables
6	25	ST	O		Patient Valuables Location
7					Visit User Code

Seq	Len	Data type	R/O/C	RP/#	Element name
8	8	DT	C		Expected Admit Date
9	8	DT	C		Expected Discharge Date
10	2	NM	O		Estimated Length of Inpatient Stay
11					Actual Length of Inpatient Stay
12	36	ST	O		Visit Description
13					Referral Source Code
14					Previous Service Date
15					Employment Illness Related Indicator
16					Purge Status Code
17					Purge Status Date
18					Special Program Code
19					Retention Indicator
20					Expected Number of Insurance Plans
21	1	CE	O	Y/1	Visit Publicity Code
22	1	ID	O		Visit Protection Indicator
23	?	XON	O	Y	Clinic Organization Name
24					Patient Status Code
25					Visit Priority Code
26					Previous Treatment Date
27	???	TS	O		Expected Discharge Disposition
28					Signature on File Date
29					First Similar Illness Date
30					Patient Charge Adjustment Code
31					Recurring Service Code
32					Billing Media Code
33	???	TS	O		Expected Surgery Date & Time
34					Military Partnership Code
35					Military Non-Availability Code
36					Newborn Baby Indicator
37					Baby Detained Indicator
38					Mode of Arrival Code
39					Recreational Drug Use Code
40					Admission Level of Care Code
41					Precaution Code
42					Patient Condition Code
43					Living Will Code
44	23	CE	O		Organ Donor
45	23	CE	O		Advanced Directive
46					Patient Status Effective Date
47					Expected LOA Return Date/Time
48	12	TS	O		Expected Testing Date/Time

Seq	Len	Data type	R/O/C	RP/#	Element name
49					Visit Clergy Notify

Field notes

PV2.1 **Prior Pending Location**

Not supported inbound.

PV2.2 **Accommodation Code**

Not supported inbound.

PV2.3 **Admit Reason**

Not supported inbound.

PV2.4 **Transfer Reason**

Not supported inbound.

PV2.7 **Visit User Code**

Not supported inbound.

PV2.8 **Expected Admit Date**

Expected Admit Date/Time

PV2.11 **Actual Length of Inpatient Stay**

Not supported inbound.

PV2.13 **Referral Source Code**

Not supported inbound.

PV2.14 **Previous Service Date**

Not supported inbound.

PV2.15 **Employment Illness Related Indicator**

Not supported inbound.

PV2.16 **Purge Status Code**

Not supported inbound.

PV2.17 **Purge Status Date**

Not supported inbound.

PV2.18 **Special Program Code**

Not supported inbound.

PV2.19 **Retention Indicator**

Not supported inbound.

PV2.20 **Expected Number of Insurance Plans**

Not supported inbound.

PV2.24 **Patient Status Code**

Not supported inbound.

PV2.25 **Visit Priority Code**

Not supported inbound.

PV2.26 **Previous Treatment Date**

Not supported inbound.

PV2.28 **Signature on File Date**

Not supported inbound.

PV2.29 **First Similar Illness Date**

Not supported inbound.

PV2.30 **Patient Charge Adjustment Code**

Not supported inbound.

PV2.31 **Recurring Service Code**

Not supported inbound.

PV2.32 **Billing Media Code**

Not supported inbound.

PV2.34   **Military Partnership Code**

Not supported inbound.

PV2.35   **Military Non-Availability Code**

Not supported inbound.

PV2.36   **Newborn Baby Indicator**

Not supported inbound.

PV2.37   **Baby Detained Indicator**

Not supported inbound.

PV2.38   **Mode of Arrival Code**

Not supported inbound.

PV2.39   **Recreational Drug Use Code**

Not supported inbound.

PV2.40   **Admission Level of Care Code**

Not supported inbound.

PV2.41   **Precaution Code**

Not supported inbound.

PV2.42   **Patient Condition Code**

Not supported inbound.

PV2.43   **Living Will Code**

Not supported inbound.

PV2.46   **Patient Status Effective Date**

Not supported inbound.

PV2.47   **Expected LOA Return Date/Time**

Not supported inbound.

PV2.49   **Visit Clergy Notify**

Not supported inbound.

QPD - Query Parameter Definition

The QPD segment defines the parameters of the query.

HL7 Attribute Table – QPD – Query Parameter Definition

Seq	Len	Data type	R/O/C	RP/#	Element name
1	250	CE	R		Message Query Name
2	32	ST	O		Query Tag
3-n	256	varies	O		User Parameters (in successive fields)

QPD-1   Message Query Name

QPD-2   Query Tag

This field can be used to match response message with the original query message.

QPD-3   User Parameters

The following are examples of inbound QPD segments in the Q22 (Find Candidate) message and the Q24 (Allocate Identifier(s)) message

MSH|^~\&||A|||200508091003||QBP^Q22|200508090354000004|P|2.2
QPD|Q22^FindCandidate|200508090354000004|@PID.5.1^TEST~@PID.5.2^SHER
RY~@PID.7^198202020000~@PID.8^F
RCP|D

MSH|^~\&||A|||200508091003||QBP^Q24|200508090354000005|P|2.2
QPD|Q24^Allocate Identifier(s)|200508090354000005|^^^^PI~^^^^MR
RCP|D

QRD - Query definition

Seq	Len	Data type	R/O/C	RP/#	Element name
1	26	TS	R		Query Date/Time
2	1	ID	R		Query Format Code
3	1	ID	R		Query Priority
4	10	ST	R		Query ID
5					Deferred Response Type
6					Deferred Response Date/Time
7	10	CQ	O		Quantity Limited Request
8	20	ST	O	Y	Who Subject Filter
9	3	ID	O	Y	What Subject Filter
10					What Department Data Code
11	20	ST	O	Y	What Data Code Value Qualifier
12					Query Results Level

Field notes

QRD.4　　　**Query ID**

Unique identifier for query assigned by requesting system and returned in response.
Retrieved from variable UQID%

QRD.5　　　**Deferred Response Type**

Not supported inbound.

QRD.6　　　**Deferred Response Date/Time**

Not supported inbound.

QRD.7　　　**Quantity Limited Request**

Default is ZO^72. 72 characters per line.

QRD.8　　　**Who Subject Filter**

XCN Data Type will be the format of this string. See HL7 requirements section of this
document. Will be used for Check Previous requests or requests involving a date range.

QRD.9　　　**What Subject Filter**

RES - Result

HL7 Table 048 defines codes that define the type of information required.

QRD.10   **What Department Data Code**

Not supported inbound.

QRD.11   **What Data Code Value Qualifier**

Placer ID for a single test request or a Check Previous request. NNN^ApID ~ NNN^ApID ~ NNN^ApID

A Check Previous request will have only a single placer. NNN^AID

For a date range request this field will be empty.

Conditionality rule: If QRF.5 is QPLCR, QCPOBV or QCTEST

Otherwise must be null

QRF - Query filter

Seq	Len	Data type	R/O/C	RP/#	Element name
1					Where Subject Filter
2	26	TS	C		When Data Start Date/Time
3	26	TS	C		When Data End Date/Time
4	20	ST	C	Y	What User Qualifier
5	10	ST	R	Y	Other QRY Subject Filter
6	12	ID	O	Y	Which Date/Time Qualifier
7	12	ID	O	Y	Which Date/Time Status Qualifier
8	12	ID	O	Y	Date/Time Selection Qualifier

Field notes

QRF.1   **Where Subject Filter**

Not supported inbound.

QRF.2   **When Data Start Date/Time**

Data representing dates equal or after this value should be included. Assumes Calendar day. If present, QRD.11 must be empty.

Conditionality rule: Query by Date

QRF.5 = QDATE

QRF.3   **When Data End Date/Time**

Data representing dates the same or before this date should be included. Assumes Calendar day. If present, QRD.11 must be empty.

Conditionality rule: Query by Date

QRF.5 = QDATE

QRF.4   **What User Qualifier**

An identifier to further define characteristics of the data of interest. Used with Check Previous by result. Will contain the analyte code or codes for Check Previous. This will be a repeating field String Format: Code^Description Clinical Browser will send repeating Observation Ids

Format: Code^Description~Code^Description~Code ^Description

Conditionality rule: Query Check Previous

QRF.5 =

QCPTEST or

QCPOBV

QRF.5   **Other QRY Subject Filter**

A filter defined locally for use between two systems.

Query: QPLCR

Query by Date: QDATE

Check Previous by Test:

QCPTEST

Check Previous by Observation Code:

QCPOBV

QRF.6   **Which Date/Time Qualifier**

Not supported inbound.

QRF.7   **Which Date/Time Status Qualifier**

Not supported inbound.

QRF.8   **Date/Time Selection Qualifier**

Not supported inbound.

RCP – response Control Parameter

The RCP segment is used to restrict the amount of data returned in response to a query.

Seq	Len	Data type	R/O/C/N	RP/#	Element name
1	1	ID	O		Query Priority
2	10	CQ	O		Quantity Limited Request
3	250	CE	N		Response Modality
4	26	TS	N		Execution and Delivery Time
5	1	ID	N		Modify Indicator
6	512	SRT	N	Y	Sort-by Field
7	256	ID	N	Y	Segment group inclusion

All segments are optional but STAR-HL integration will use the following:

RCP.1 – Query Priority

STAR-HLO will always us 'D' for Deferred.

RCP.2 – Quantity Limited Request

HLO will be requesting in an RD format. The max of a request will be 50.

SCH - Schedule activity information segment

The SCH segment contains general information about the scheduled appointment.

SEQ	LEN	DT	R/O/C/N	RP/#	ELEMENT NAME
1	75	EI	N		Placer Appointment ID

SEQ	LEN	DT	R/O/C/N	RP/#	ELEMENT NAME
2	75	EI	O		Filler Appointment ID
3	5	NM	N		Occurrence Number
4	22	EI	N		Placer Group Number
5	250	CE	N		Schedule ID
6	250	CE	N		Event Reason
7	250	CE	N		Appointment Reason
8	250	CE	N		Appointment Type
9	20	NM	N		Appointment Duration
10	250	CE	N		Appointment Duration Units
11	200	TQ	N	Y	Appointment Timing Quantity
12	250	XCN	N	Y	Placer Contact Person
13	250	XTN	N		Placer Contact Phone Number
14	250	XAD	N	Y	Placer Contact Address
15	80	PL	N		Placer Contact Location
16	250	XCN	N	Y	Filler Contact Person
17	250	XTN	N		Filler Contact Phone Number
18	250	XAD	N	Y	Filler Contact Address
19	80	PL	N		Filler Contact Location
20	250	XCN	N	Y	Entered by Person
21	250	XTN	N	Y	Entered by Phone Number
22	80	PL	N		Entered by Location
23	75	EI	N		Parent Placer Appointment ID
24	75	EI	N		Parent Filler Appointment ID
25	250	CE	N		Filler Status Code
26	22	EI	N	Y	Placer Order Number
27	22	EI	N	Y	Filler Order Number

ZCA - Contract administration

Seq	Len	Data type	R/O/C	RP/#	Element name
1	6	ST	O		External Room/Bed
2	10	ST	O		External Chart Number
3	60	CE	C		Contract Code/Description

Field notes

ZCA.1   **External Room/Bed**

Not supported inbound.

ZCA.2   **External Chart Number**

Not supported inbound.

ZCI – Compliance Check Information

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	O		Set ID
2	9	ST	O		Compliance Check Reference Number
3	?	TS	N		Compliance Check Date/Time
4	1	ID	N		Compliance Check Approval Indicator

ZIN - Additional insurance segment

This Segment is processed along with the Insurance Segments IN1, IN2 & IN3 in their COB order. See IN1 Segment for details.

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID - Insurance
2	33	ST	C		Insurance Plan Name
3	1	ID	O		Blue Shield Coverage Indicator
4	72	ST	O		Insurance Comment
5					Default Copay
6					Referral Required
7					Benefits
8	72	ST	O		Blue Shield Plan Number
9					Primary/Secondary Indicator

Field notes

ZIN.1   **Set ID - Insurance**

Used to identify the ZIN with its corresponding IN1.

ZIN.2 **Insurance Plan Name**

Plan Description

ZIN.3 **Blue Shield Coverage Indicator**

Blue-Shield Coverage

STAR supports the following values:

Value	Description
1	Yes
0	No

ZIN.4 **Insurance Comment**

Comment (72)

Take only the 1st 72 characters of ZIN.4.

ZIN.5 **Default Copay**

Not supported inbound.

ZIN.6 **Referral Required**

Not supported inbound.

ZIN.7 **Benefits**

Not supported inbound.

ZIN.8 **Blue Sheild Plan Number**

Blue Sheild Plan number.

ZIN.9 **Primary/Secondary Indicator**

Not supported inbound.

ZMQ - Additional financial transaction information

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	O		Set ID
2	4	NM	C		Medicare Quantity

Field notes

ZMQ.1   **Set ID**

Used to identify the ZMQ with its corresponding FT1.

ZMQ.2   **Medicare Quantity**

The Medicare Quantity/Unit associated with the HCPC code in the FT1.25 on a Pharmacy charge.

ZMM - Meds Manager Pharmacy Financial Segment

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID
2	250	CE	O		Alternate Item Number
3	10	NM	O		Factor
4	50	ST	O		Strength
5	10	ST	O	Y	Form
6	10	ST	O		Stock Area
7	5	ST	O		Cost Center
8	10	ST	O		Retail
9	10	NM	O		Units Per Dose
10	10	NM	O		Dose Quantity
11	10	NM	O		Dispense Quantity
12	26	TS	O		Date of Charge
13	1	ID	O		Item Type
14	2	NM	O		Suffix
15	10	NM	O		Dispense Size
16	250	CE	O		Base Item Number
17	10	NM	O		Base Charge
18	12	CP	O		Base Charge Fee
19	10	NM	O		Base Quantity
20	12	CP	O		Patient Charge
21	45	ST	O		Prescribed Dose
22	5	ST	O		Therapy Profile
23	5	ST	O		Therapy Type

Field notes:

ZMM.1   **Set ID**

Not supported inbound.

Used to identify the ZMM with its corresponding FT1.

ZMM.2   **Alternate Item Number**

Not supported inbound.

The charge number for the item. If alternate item number billing is used, this field stores the alternate item number.

ZMM.3   **Factor**

Not supported inbound.

The factor used to calculate the charge, based upon the cost.

ZMM.4   **Strength**

Not supported inbound.

The strength of the item.

ZMM.5   **Form**

Not supported inbound.

The medication form; for example, TAB, CAP, EA.

ZMM.6   **Stock Area**

Not supported inbound.

The stock area from which the item was dispensed; for example, the central stock area or a Pyxis device.

ZMM.7   **Cost Center**

Not supported inbound.

The cost center to which this item is assigned (if the pharmacy has different cost centers).

ZMM.8   **Retail**

Not supported inbound.

The therapy mode: retail or non-retail.

ZMM.9   **Units per Dose**

Not supported inbound.

The number of units of the dispense size that are needed to deliver the ordered dose.

ZMM.10   **Dose Quantity**

Not supported inbound.

The number of doses charged.

ZMM.11   **Dispense Quantity**

Not supported inbound.

The quantity of doses dispensed at order entry.

ZMM.12   **Date of Charge**

Not supported inbound.

The date of the charge or credit.

ZMM.13   **Item Type**

Not supported inbound.

The type of item: A (additive) or F (fluid).

ZMM.14   **Suffix**

Not supported inbound.

The suffix added (used to determine the sequence of additives or fluids).

ZMM.15   **Dispense Size**

Not supported inbound.

The size of one unit of medication supplied from the pharmacy. In the case of tablets and capsules, the value is 1. In the case of ointments and creams, the value is the size of one tube (for example, 15 gm, 30 gm). With liquids, the value is the volume of the unit dispensed.

ZMM.16   **Base Item Number**

Not supported inbound.

The item number associated with the dispense size.

ZMM.17   **Base Charge**

Not supported inbound.

The base charge for one unit of an item. For example, the charge for one tablet, dose, or prescription.

ZMM.18   **Base Charge Fee**

Not supported inbound.

The charge fee that is added to the base charge.

ZMM.19   **Base Quantity**

Not supported inbound

The number of dispense sizes for the total charge.

ZMM.20   **Patient Charge**

Not supported inbound

The total charge to the patient.

ZMM.21   **Prescribed Dose**

Not supported inbound.

The dose that was prescribed by the physician.

ZMM.22   **Therapy Profile**

Not supported inbound.

The therapy profile (MEDS, IV, TPN, IV, etc.)

ZMM.23   **Therapy Type**

Not supported inbound.

The therapy type assigned at order entry time. (standard, Peds, Chemo, etc.)

ZPI - Additional patient ID segment

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID - Patient ID
2					Person Expired Indicator
3	37	CE	O		Church Code & Description
3.1					Identifier
3.2					Text
3.3					Name of coding system
3.4					Alternate identifier
3.5					Alternate text
3.6					Name of alternate coding system
4	23	CE	O		Organ Donor Code & Description
4.1					Identifier
4.2					Text
4.3					Name of coding system
4.4					Alternate identifier
4.5					Alternate text
4.6					Name of alternate coding system
5	25	CN	C		Primary Care Provider
5.1					ID number
5.2					Family name
5.3					Given name
5.4					Middle name or initial
5.5					Suffix
5.6					Prefix
5.7					Degree
5.8					Source table
6	25	ST	O		Mother's Name
7	25	ST	O		Father's Name
8	26	CE	O		Census Tract Code & Description
8.1					Identifier
8.2					Text
8.3					Name of coding system
8.4					Alternate identifier
8.5					Alternate text
8.6					Name of alternate coding system
9	8	DT	O		Current Address Since
10	15	ST	O		Employee ID
11	8	DT	C		Employment Date
12	21	CE	C		Employment Status Code
12.1					Identifier

Seq	Len	Data type	R/O/C	RP/#	Element name
12.2					Text
12.3					Name of coding system
12.4					Alternate identifier
12.5					Alternate text
12.7					Name of coding system
13	21	CE	O		Employment Data Code & Description
13.1					Identifier
13.2					Text
13.3					Name of coding system
13.4					Alternate identifier
13.5					Alternate text
13.6					Name of alternate coding system
14	23	CE	O		Occupation Code/Description
14.1	3				Identifier
14.2	25				Text
14.3					Name of coding system
14.4					Alternate identifier
14.5					Alternate text
14.6					Name of alternate coding system
15	27	CE	C		Employer Code & Description
15.1	6	ID	?		Identifier
15.2	30	ST	?		Text
15.3					Name of coding system
15.5					Alternate text
15.6					Name of alternate coding system
16	95	AD	C		Employer Address
16.1	25	ST	O		Street address
16.2	25	ST	O		Other designation
16.3	18	ST	O		City
16.4	2	ST	O		State/province
16.5	9	ST	O		Zip/postal code
16.6	2	ID	O		Country
16.7					Type
16.8	5	ST	O		Other geographic designation
17					Free Text Religion

Field notes

ZPI.2 **Person Expired Indicator**

Not supported inbound.

ZPI.3   **Church Code & Description**

MPI Church

ZPI.3.4   **Alternate identifier**

Not supported inbound.

ZPI.3.5   **Alternate text**

Not supported inbound.

ZPI.3.6   **Name of alternate coding system**

Not supported inbound.

ZPI.4   **Organ Donor Code & Description**

Account Organ Donor

ZPI.5   **Primary Care Provider**

Primary Care Physician

ZPI.6   **Mother's Name**

Mother's Name

ZPI.7   **Father's Name**

Father's Name

STAR uses only first 25 characters of ZPI.6. If double quotes, then blank out existing information. Update if different.

ZPI.8   **Census Tract Code & Description**

Geo.Code/Census Tract (6)

Perform the standard table validation check for the code against the Geographic Table(GGC).

If not found then display warning message 'Invalid geographic code!'.

If ZPI.8 equal double quotes then blank out the Geographic/Census Tract.

If Geographic Code is different then update it.

ZPI.8.4   **Alternate identifier**

Not supported inbound.

ZPI.8.5   **Alternate text**

Not supported inbound.

ZPI.8.6   **Name of alternate coding system**

Not supported inbound.

ZPI.9   **Current Address Since**

Resident Since (5)

ZPI.10   **Employee ID**

Employee ID Number

ZPI.12   **Employment Status Code**

Employment Status (1)

ZPI.12.4   **Alternate identifier**

Not supported inbound.

ZPI.12.5   **Alternate text**

Not supported inbound.

ZPI.12.7   **Name of coding system**

Not supported inbound.

ZPI.13   **Employment Data Code & Description**

Employment Info.

ZPI.13.3   **Name of coding system**

?

ZPI.13.4   **Alternate identifier**

Not supported inbound.

ZPI.13.5 **Alternate text**

Not supported inbound.

ZPI.13.6 **Name of alternate coding system**

Not supported inbound.

ZPI.14.1 **Identifier**

Occupation Code

ZPI.14.2 **Text**

Occupation

ZPI.15.1 **Identifier**

Employer Code

ZPI.15.2 **Text**

Employer Name

ZPI.15.5 **Alternate text**

Not supported inbound.

ZPI.15.6 **Name of alternate coding system**

Not supported inbound.

ZPI.16 **Employer Address**

Employer

ZPI.16.1 **Street address**

Address Line 1

ZPI.16.2 **Other designation**

Address Line 2

ZPI.16.3 **City**

City

ZPI.16.4   **State/province**

                                   State

ZPI.16.5   **Zip/postal code**

                                   ZIP Code

ZPI.16.6   **Country**

                                   Country

ZPI.16.8   **Other geographic designation**

                                   County

ZPI.17   **Free Text Religion**

Not supported inbound.

ZPV - Additional patient visit information

Seq	Len	Data type	R/O/C	RP/#	Element name
1	4	SI	R		Set ID - Patient Visit
2	23	CE	C		Mode of Arrival Code & Description
2.1					Identifier
2.2					Text
2.3					Name of coding system
2.4					Alternate identifier
2.5					Alternate text
2.6					Name of alternate coding system
3	20	ST	C		Referring Hospital
4					Final Discharge Indicator
5					Discharge Condition
6	21	CE	C		Isolation Code & Description
6.1					Identifier
6.2					Text
6.3					Name of coding system
6.4					Alternate identifier
6.5					Alternate text
6.6					Name of alternate coding system
7	23	CE	C		IV Therapy Code & Description
7.1					Identifier
7.2					Text

Seq	Len	Data type	R/O/C	RP/#	Element name
7.3					Name of coding system
7.4					Alternate identifier
7.5					Alternate text
7.6					Name of alternate coding system
8	75	ST	O		Medical Comments
9	23	CE	C		Oxygen Therapy Code & Description
9.1					Identifier
9.2					Text
9.3					Name of coding system
9.4					Alternate identifier
9.5					Alternate text
9.6					Name of alternate coding system
10	21	CE	C		Publicity Code & Description
10.1					Identifier
10.2					Text
10.3					Name of coding system
10.4					Alternate identifier
10.5					Alternate text
10.6					Name of alternate coding system
11	1	ID	O		Smoker Indicator
12	20	CE	O		Admission Level of Care
12.1					Identifier
12.2					Text
12.3					Name of coding system
12.4					Alternate identifier
12.5					Alternate text
12.6					Name of alternate coding system
13	23	CE	C	Y	Precaution Code & Description
13.1					Identifier
13.2					Text
13.3					Name of coding system
13.4					Alternate identifier
13.5					Alternate text
13.6					Name of alternate coding system
14	21	CE	C	Y/5	Condition Code & Description
14.1					Identifier
14.2					Text
14.3					Name of coding system
14.4					Alternate identifier
14.5					Alternate text
14.6					Name of alternate coding system

Seq	Len	Data type	R/O/C	RP/#	Element name
15	23	CE	C		Advance Directive Code & Description
15.1					Identifier
15.2					Text
15.3					Name of coding system
15.4					Alternate identifier
15.5					Alternate text
15.6					Name of alternate coding system
16					Consultation Information
17	21	CE	O		Admission Cancellation Reason
17.1					Identifier
17.2					Text
17.3					Name of coding system
17.4					Alternate identifier
17.5					Alternate text
17.6					Name of alternate coding system
18					Shared Care Physician
18.1					ID number
18.2					Family name
18.3					Given name
18.4					Middle initial or name
18.5					Suffix
18.6					Prefix
18.7					Degree
18.8					Source table
19					ER Physician
19.1					ID number
19.2					Family name
19.3					Given name
19.4					Middle initial or name
19.5					Suffix
19.6					Prefix
19.7					Degree
19.8					Source table
20					Phone Charge Indicator
21	1	ID	O	Y/1	TV Charge Indicator
22					Orders Indicator
23					Balance Indicator
24	50	CM	O	Y	Advance Directive Information
24.1					Advance directive code
24.2					Last verified date
25					Appointment ID

Seq	Len	Data type	R/O/C	RP/#	Element name
25.1					Entity Identifier
25.2					Namespace ID
25.3					Universal ID
25.4					Universal ID Type

Field notes

ZPV.2 **Mode of Arrival Code & Description**

Account Level Arrival Mode (12)

ZPV.3 **Referring Hospital**

Account Level Referring Facility (25)

ZPV.4 **Final Discharge Indicator**

Not supported inbound.

ZPV.5 **Discharge Condition**

Not supported inbound.

ZPV.6 **Isolation Code & Description**

Account Level Isolation (3)

Location Isolation (3)

ZPV.7 **IV Therapy Code & Description**

Account Level IV Therapy (3)

ZPV.8 **Medical Comments**

Account Level Medical Comment

ZPV.9 **Oxygen Therapy Code & Description**

Account Level Oxygen Therapy (3)

ZPV.10 **Publicity Code & Description**

Account Level Publicity (1)

Location Publicity (1)

ZPV.11   **Smoker Indicator**

Account Level Smoker

Location Level Smoker

ZPV.12   **Admission Level of Care**

Account Level Level of Care (1)

Location Level Level of Care (1)

ZPV.13   **Precaution Code & Description**

Account Level Precaution (11)

ZPV.14   **Condition Code & Description**

Account Level Condition (1)

Location Level Condition (1)

ZPV.15   **Advance Directive Code & Description**

Patient Level Advanced Directives (1)

Account Level ADs Verified Date (5)

ZPV.16   **Consultation Information**

Not supported inbound.

ZPV.17   **Admission Cancellation Reason**

Account Level Discharge Condition (3)

ZPV.24   **Advance Directive Information**

Account Level ADs Verified Date (5)