



## **RIAYATI Program** **Interface Control Document (HL7 OMP Inbound)**

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Version and Distribution History			
Version #	Date	Brief Comments on Change	Author
1.1	10-May-2020	Draft Specification	MOHAP
2.0	25-Oct-2020	Initial version for distribution	MOHAP
3.0	03-Nov-2020	Baselined version for Phase 1A	MOHAP
3.1	07-Apr-2021	Trivial changes for Phase 1B	MOHAP
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3.3	15-Sep-2021	Changes based on Integration Testing <ul style="list-style-type: none"> <li>Added TQ1 Segment.</li> <li>Updated RXO-6 as Optional</li> </ul> Updated RXO-7.1 and RXO-7.2 notes with Routes reference.	MOHAP
3.3	20-Sep-2021	Added comments to all HL7 Coded (CE) fields to provide both code and description based on the code table specified for the respective field.	MOHAP
3.3	22-Sep-2021	Changed optionality for fields RXO-4, RXO-7, RXO-20, ORC-7-3, ORC-7-6, ORC-7-7 and ORC-7-8.	MOHAP
3.3	22-Sep-2021	Added note in document section 4 for 'When to Trigger OMP Message to Riayati HIE'.	MOHAP
4.0	22-Sep-2021	Reviewed and Approved changes and baselined Version	MOHAP
4.1	16-May-2022	TQ1-3 - Repeat Pattern changed code type requirement.	
		TQ1-3.1.2 changed to optional.	
		RXO-7 changed to optional	
		RXO-20 changed to optional	
		NTE-1 changed to optional	
		RXR-2.1 changed code type	
4,2	17-Nov-2025	Updated PID-4 and PID-19 as Not required Updated RXO-6 as Not required	MOHAP

Table 1: Version History



Document Acceptance and Sign-Off		
Name	Signature	Date
MOHAP		25-Dec-2025

Table 2: Document Acceptance and Sign-off

# 1 About this document

## 1.1 Purpose of this Document

The interfaces addressed in this document are designed to allow bi-directional communications using the health care industry's Health Level 7 (HL7) version 2.5.1 standards for the exchange of electronic health data between information systems. The interfaces are designed to:

- Process transcriptions communicated electronically from a sending system (such as an electronic medical record or practice management system) into the Riayati HIE receiving system.

This document describes the interface, addresses the data structure and available communication options, and provides other coordination information for implementing the interface. To assist the parties involved in planning, installing, and using the interface, applicable message segments are included.

We will commonly refer to the above as "providers", i.e. those who are participating in Riayati HIE program.

This document covers the following:

- a) The protocols and handshake supported for exchange of messages
- b) Message Segment descriptions of different event type supported by Riayati HIE

References to the HL7 standard are made throughout this document. The web site for HL7 specifications can be found at <http://www.hl7.org/>.

## 1.2 Audience

This document is intended for the Technical Team from the Provider Organizations from the Northern Emirates and EMR vendors.

## 1.3 Abbreviations and Terms

Abbreviation	Term
API	Application Programming Interface
ESB	Enterprise Service Bus
FHIR	Fast Healthcare Interoperability Resources
HIE	Health Information Exchange
HTTP	Hyper Text Transport Protocol
MOHAP	Ministry of Health and Prevention
SOAP	Simple Object Access Protocol
UAE	United Arab Emirates

Table 3: Abbreviations and Terms

## 2 Introduction

### 2.1 RIAYATI Program

His Highness Sheikh Mohammed bin Rashid Al Maktoum announced in 2015 the initiative to establish a Health Information Exchange system – “RIAYATI” for patients in the Northern Emirates, UAE. In order to facilitate the movement of patients across healthcare providers, as well as connect public and private hospitals and clinics to share and exchange Health Records.

The RIAYATI Service will be the primary force driving an integrated, sustainable modern digital health platform that improves the safety of the patients, healthcare quality and population health in general through the safe sharing of medical data and information of all healthcare system beneficiaries across the Northern Emirates.

### 2.2 Health Information Exchange

RIAYATI Health Information Exchange will make quality healthcare data available for improvement of the patient care and support the futuristic innovative services like Clinical Decision Support, UAE specific clinical pathways, advanced analytics and Artificial Intelligence.

The RIAYATI HIE has various components as mentioned below to support the above-mentioned objectives.

- Enterprise Service Bus
- Registries
  - Patient Registry
  - Provider Registry
  - Organization Registry
  - Document Registry
  - Terminology Registry
- Repositories
  - Clinical Data
  - Documents

### 2.3 HL7 Concepts

#### 2.3.1 HL7 Definitions

- i. **Message:** A message is the atomic unit of data transferred between systems. It is comprised of a group of segments in a defined sequence. Each message has a message type that defines its purpose and a trigger event. For example, the ADT is a message type and A01 is a trigger event. Between text messages in a batch, two carriage returns/line feeds (hex characters 0D0A0D0A) represent the end of each message.
- ii. **Segment:** A segment is a logical grouping of data fields. Segments within a defined message may be required or optional, may occur only once, or may be allowed to repeat. Each segment is named and is identified by a segment ID, a unique 3-character code. The hex characters ‘0D0A’ that act as a Segment Terminator (equivalent to a Carriage Return and Line Feed) denote the end of each segment.
- iii. **Field:** A field is a string of characters. The segment it is in and the position within the segment identify each field; e.g., PID-5 is the fifth field of the PID segment. Optional data fields need not be valued. Whether a field is required, optional, or conditional in a segment is specified in the segment attribute tables.

A maximum length of the field is stated as normative information. Exceeding the listed length should be considered an error.

In segments attribute table Required/Mandatory data is designated as “**R**” and Optional field data is designated as “**O**”.



- iv. **Component:** A component is one of a logical grouping of items that comprise the contents of a coded or composite field. Within a field having several components, not all components are required to be valued. Examples in this document demonstrate both fully valued and partially valued coded and composite fields.
- v. **Item number:** Each field is assigned a unique item number. Fields that is used in more than one segment will retain their unique item number across segments.
- vi. **Null and empty fields:** The null value is transmitted as two double quote marks (""). A null-valued field differs from an empty field. An empty field should not overwrite previously entered data in the field. The null value means that any previous value in this field should be overwritten.
- vii. **Data Type:** A data type restricts the contents and format of the data field. Data types are given a 2- or 3-letter code. Some data types are coded or composite types with several components. The applicable data type is listed and defined in each field definition. Refer <http://www.hl7.org/> for complete listing of data types used in this document and their definitions.
- viii. **Delimiters:** The delimiter values are given in MSH-1 and MSH-2 and used throughout the message. Applications must use agreed upon delimiters to parse the message.

Following are the recommended delimiters for laboratory messages:

Delimiter	Suggested Value	Usage
Segment Terminator	<CR> ((hex 0D0A)	Terminates a segment record. This value cannot be changed by implementers.
Field Separator		Separates two adjacent data fields within a segment. It also separates the segment ID from the first data field in each segment.
Component Separator	^	Separates adjacent components of data fields where allowed.
Subcomponent Separator	&	Separates adjacent subcomponents of data fields where allowed. If there are no subcomponents, this character may be omitted.
Repetition Separator	~	Separates multiple occurrences of a field where allowed.
Escape Character	\	Escape character for use with any field represented by an ST, TX or FT data type, or for use with the data (fourth) component of the ED data type. If no escape characters are used in a message, this character may be omitted. However, it must be present if subcomponents are used in the message.

- ix. **Message Syntax:** Each abstract message is defined in special notation that lists the 3-letter segment identifiers in the order they will appear in the message. The general rule is as follows: No brackets around it - Required - [ ] - Optional - { } - Repeating - { } - Optional Repeating.

- x. **Trigger Events:** The HL7 Standard is written from the assumption that an event in the real world of healthcare creates the need for data to flow among systems. The real-world event is called the trigger event. For example, the trigger event, an observation (e.g., a CBC result) for a patient is available, may cause the need for that observation to be sent to several other systems. When the transfer of information is initiated by the application system that deals with the triggering event, the transaction is termed an unsolicited update.
- xi. **Z segments:** All message types trigger event codes, and segment ID codes beginning with Z are reserved for locally defined messages. No Z segments codes have been defined in the HL7 v2.4 Standard for the OML^O21 message; this document does not contain customized Z segments for the OML^O21 message.

### 2.3.2 HL7 Standards – Exceptions

Some exceptions to the HL7 conventions are noted herein. Data is added, updated and removed at the segment level. Messages should contain ALL current data. It is recommended that all segments for demographic interfaces contain fully populated fields appropriate for the message type. It is also recommended that all messages contain all segments. This should be observed even if the data has not changed.

Message segment maps indicate fields not directly used by the Riayati HIE as shaded entries. Unused fields are shown up to the last segment field that is processed by the Riayati HIE.

### 2.3.3 Robust Port Connectivity

If the sending system communicates to the Riayati HIE via a TCP/IP port number, it must be able to dynamically determine the status of the port to which it sends. In the event the client interface server has been rebooted or restarted for any reason, the sending system must be able to detect that the port was offline and reopen the port without user support.

### 2.3.4 Communications Options

Riayati HIE can configure an interface to function using TCP/ IP over Secure site-to-site Virtual Private Network (VPN) or File transfer using SFTP.

#### VPN (Virtual Private Network)

A Secure site-to-site Virtual Private Network (VPN) between Riayati HIE Servers and participants (Sending Systems) shall be implemented.

#### TCP/IP

TCP/IP is the preferred communications protocol for exchanging HL7 messages. The following is a list of the major guidelines for the establishment of TCP/IP communications:

1. A Site to site Secure VPN Tunnel will need to be established between the Participant and the Riayati HIE host system vendor prior to establishing the TCP/IP port and socket connection.
2. Unique TCP/IP port addresses and socket numbers must be determined by the client, Riayati HIE, and the host system vendor prior to installation. Suggested ports are:
3. The sending system will act as a TCP/IP client and is responsible for opening the port prior to sending data. The receiving system will act as a TCP/IP server.

**IMPORTANT NOTE:** The sending system must be able to monitor the status of the port and must be able to reconnect to the port without user support if it has been disconnected.

4. The HL7 minimal lower layer protocol recommendations are observed.
5. The leading character for each transmission can be configured for each interface and is represented here as <VT> (ASCII 11).
6. Up to three ending characters for each transmission can be configured for each interface. They are represented here as <FS> (ASCII 28) and <CR> (ASCII 13).
7. Each segment is followed by a <CR> (ASCII 13).

8. The exchange of messages will be as follows:

At the execution of the trigger event in the host system, the host sends a message to Riayati HIE:

Host System		Riayati HIE
<VT> MSH segment<CR> followed by first segment<CR> followed by next segment<CR> ... last segment<CR> <FS><CR> <CR>	➔	Received by the product TCP/IP Receiver and placed in a directory on the file system. Predetermined identifiers in the message are validated by the Receiver script, if valid. The product takes the message and file to a SQL Message Queue, parser process it into the Data Store.

After receipt of each message, the product sends an ACK Message to Host on the same port number:

Host System		Riayati HIE
Received by Host	←	<VT> MSH segment<CR> MSA segment<CR> ERR segment<CR> <FS><CR> <CR>

If the MSA indicates that the message was received, then the host is free to send the next message. This is repeated until all messages are sent. If the MSA indicates that the message contained an error, the host must resend the message until either the MSA indicates the message was received, or the interface times out.

The simple general acknowledgment (ACK) should be sent by the receiving system to respond to the receipt of the messages.

The product TCP/IP Receiver script processes the MSH segment and the Message Control ID (MSH-10) is used to construct the outbound HL7 ACK. The ACK message only indicates that the message was received. Errors in processing usually result in HIE Event log messages. If the MSH segment is not found or cannot be processed, a HL7 NAK is sent. In the case of a low-level error, a TCP/IP NAK is returned.

MSA Example with MSH Message Header:

```
MSH|^~\&|ORHIE|CARA|HIS|hostSystem|20030917141001||ACK|4690|P|2.5
MSA|AA|dfx20030917141003|message text
ERR||ERR^1^1|ValErrors^Field PV2 is required because PV1/PatientClass has this value: I
```



## 3 Basic Message Construction Rules

### 3.1 Encoding Rules for Sending

- a) Encode each segment in the order specified in the abstract message format.
- b) Place the Segment ID first in the segment.
- c) Precede each data field with the field separator.
- d) Encode the data fields in the order and data type specified in the segment definition table.
- e) End each segment with the segment terminator.
- f) Component separators need not be represented for components, subcomponents, or repetitions that come at the end of a field. The data fields below, for example, are equivalent:

`^XXX&YYY&&^` is equal to `^XXX&YYY^`

`|ABC^DEF^^|` is equal to `|ABC^DEF|`

### 3.2 Encoding Rules for Receiving

The following rules apply to receiving HL7 messages and converting their contents to data values:

- a) Ignore segments, fields, components, subcomponents, and extra repetitions of a field that are present but were not expected.
- b) Treat segments that were expected but are not present as consisting entirely of fields that are not present.
- c) Treat fields and components that are expected but were not included in a segment as not present.



## 4 HL7 OMP^O09 (Pharmacy/treatment order)

Pharmacy/Treatment Orders can use the OMP^O09 message with the RXO and RXR segments for the detail segment as described below. This message can be used for any type of pharmacy order, including inpatient (unit dose and compound unit dose), outpatient, IVs, and hyperalimentation IVs (nutritional IVs), as well as other non-pharmacy treatments, e.g., respiratory therapy, oxygen, and many nursing treatments.

**IMPORTANT NOTE:** When to Trigger OMP Message to Riayati HIE:

**Outpatient – Send OMP Message when prescription orders has been authorized by Physician.**

**Emergency and Inpatient – Administered medication orders only after medication is administered, Discharge medication after prescription orders has been authorized by Physician.**

**IMPORTANT NOTE:** The Riayati HIE is a visit base system; therefore PV1 19(Patient Visit Number) is required in all messages. Messages with a blank Patient Visit number will be flag as a bad message and ignored.

**IMPORTANT NOTE:** DSC segments, ADD segments, and any continuation pointer functionality derived from these segments are not supported.

**IMPORTANT NOTE:** All coded fields use standard HL7 field codes unless otherwise specified. Any deviations from the standard HL7 field code tables must be reported to the Riayati HIE.

**All messages must be sent in Snapshot mode -** Riayati HIE expects all data to present in all the messages, for example every message for the Result must have all active part of the report. If any corrected report is sent after original report Riayati HIE application expects all OBR and OBX segment is sent for the report, if partial report is sent in latest message, Riayati HIE application will not retain part of the report sent in earlier messages.

HL7 OMP^O09 messages uses the segments listed below:

Message Segments	Segment Name	Comments
MSH	Message Header	Required
[ PID	Patient identification	Required
[ PV1 ]	Patient visit	Required
{ ORC	Common Order	Required
[ { TQ1 } ]	Timing/Quantity	Required
RXO	Pharmacy/Treatment Order	Required
[ { NTE } ]	Notes and Comments	Optional
{ RXR } }	Pharmacy/Treatment Route	Required

**Note:** Fields which are used in the integration, only those fields are mentioned in the segment specification.



## Definitions

Term	Definition
R	Required
O	Optional
C	Conditional
RA	Required If applicable

Type	Description	Trigger To be fired when?
OMP 009	Pharmacy/treatment order	When Discharge & OP pharmacy order in Placed by physician
RDS 013	Pharmacy/treatment dispense	When Discharge & OP pharmacy order is dispensed by Pharmacy for an existing order
RAS 017	Pharmacy/treatment administration	When in house administration for an existing order



## 4.1 MSH – Message Header

The following fields may be required from Attribute Table:

Seg/Field	Req	HL7 Name	Data Type	Max Len	Comments
MSH-1	R	Field Separator	ST	1	This field contains the HL7 field separator " " and is located between the segment ID "MSH" and the MSH 2 field. This dictates that " " will act as the field separator for the rest of the HL7 message.  ' ' (ASCII 124)
MSH-2	R	Encoding Characters	ST	4	'^~\&' where '^' is the component delimiter (ASCII 94) '~' is the repeat delimiter (ASCII 126) '\' is the escape delimiter (ASCII 92) '&' is the subcomponent delimiter (ASCII 38)
MSH-3	O	Sending Application Namespace ID	HD	227	This field identifies the Sending Application as defined in the internal. This Application code will be assigned by Riayati. Table No: To be discussed during onboarding.
MSH-4	R	Sending Facility Namespace ID	HD	227	Facility License Number.
MSH-5	O	Receiving Application Namespace ID	HD	227	
MSH-6	O	Receiving Facility Namespace ID	HD	227	
MSH-7	R	Date/Time of Message	TS	26	Format: YYYYMMDDTTTT
MSH-8	O	Security	ST	40	
MSH-9	R	Message Type	MSG	15	
MSH-9.1	R	Message Code	ID	3	OMP
MSH-9.2	R	Trigger Event	ID	3	MSH 9.2 - Contains the Event Trigger Table No:0003
MSH-9.3	R	Message Structure	ID	7	OMP_O09
MSH-10	R	Message Control ID	ST	20	Unique message number



					Note: If a message is received with the same Message Control ID as the immediately previous message, it will be treated as an error.
MSH-11	O	Processing ID	PT	3	P (Production) or T (Testing) or D (Development)
MSH-12	R	Version ID	VID	60	HL7 version 2.5.1
MSH-13	O	Sequence Number	NM	15	
MSH-14	O	Continuation Pointer	ST	180	
MSH-15	O	Accept Acknowledgment Type	ID	2	
MSH-16	O	Application Acknowledgment Type	ID	2	
MSH-17	O	Country Code	ID	3	
MSH-18	O	Character Set	ID	16	
MSH-19	O	Principal Language of Message	CE	250	
MSH-20	O	Alternate Character Set Handling Scheme	ID	20	
MSH-21	O	Message Profile Identifier	EI	427	

**Sample MSH segment:**

```
MSH|^~\&|SENDING_APP|SENDING_FACILITY|RECEIVING_APP|RECEIVING_FACILITY|202008181126|SECURITY|
OMP^O09^OMP_O09|MSG00001|P|2.5|||AL|NE|THA|UNICODE UTF-8|||
```



## 4.2 PID – Patient Identification

The following fields may be required from Attribute Table:

Seg/Field	Req	HL7 Name	Data Type	Max Len	Comments
PID-1	RA	Set ID	SI	4	There will only be one patient being sent at a time. Therefore, this will always be set to the value of "1".
PID-2	O	Patient ID – External	CX	20	
PID-3	R	Patient Identifier	CX	250	<p>Number types SSN/EID, DL, or MRN here will override any SSN/EID, DL, or MRN in PID-4, PID-19, and PID-20.</p> <p>Every instance of PID-3 will be parsed. Number is parsed from "subfield 1" and Number Type is parsed from "subfield 5". Number Type should have value "EID", "MRN", "OMRN", "PPN", "GCCID" only.</p> <p>Component 1: Medical Record Number, Organization level Medical Record Number, Emirates Id, GCC Id, Passport Number</p> <p>Component 5: ID Domain</p> <p>Component 6: Facility Mnemonic</p>
PID-3.1	R	Patient ID – Internal	ST	15	<p>Note 1: ID must be unique. Failure to ensure uniqueness can result in patient record mismatches.</p> <p>Note 2:</p> <ul style="list-style-type: none"> <li>There can be only one primary patient identifier (MRN) and multiple secondary identifiers per patient and facility in PID_3_1.</li> <li>Secondary identifier can be Emirates Id (with no hyphens), GCC Id or Passport Number</li> <li>The PID_3_5 should have MRN for primary identifier.</li> <li>The PID_3_5 should have OMRN for Organisation level Medical Record Number.</li> <li>The PID_3_5 should have EID for Emirates Id identifier.</li> <li>The PID_3_5 should have GCCID for GCC Id identifier.</li> <li>The PID_3_5 should have PPN for Passport Number identifier.</li> <li>There can be only one combination of MRN with Facility number.</li> <li>Along with MRN either of three secondary valid identifiers is mandatory each message.</li> </ul>



					<ul style="list-style-type: none"> <li>Facility id in PID_3_6 for primary local identifier for the message sending facility, must Match with facility Id in MSH.4.</li> </ul> <p>Note 3: For the Emirates ID, use the below when ID is not available.</p> <ul style="list-style-type: none"> <li>All 0's – Visitors (Tourists), Non-Residents who have no Emirates ID.</li> <li>All 1's – New-borns and other Residents for whom the Emirates ID will be obtained later.</li> <li>All 2's – Special category where the Patient will not have Emirates ID forever.</li> <li>All 9's – Emergency / Unconscious Patients for whom the Emirates ID is not known.</li> </ul> <p>Format:</p> <p>MR001^^F12345^MRN~OMR001^^APPCODE^OMRN~789123412345671^^ICA^EID~1046403927^^GCC^GCCID~PASS001^^INTNL^PPN</p>
PID-3.4	R	Assigning Authority	HD	227	
PID-3.4.1	R	Assigning Authority: Namespace Identifier	IS	20	<p>Facility License Number for MRN.</p> <p>Application / Organisation code assigned by Riayati for OMRN.</p> <p>"ICA" for EID.</p> <p>"GCC" for GCC ID.</p> <p>"INTNL" for Passport Number.</p>
PID-3.5	R	Identifier Type Code	ID	5	Identifier Type should have the value either "EID", "MRN", "OMRN", "PPN" or "GCCID".
PID-3.6.1	O	Assigning Facility: Namespace Identifier	IS	20	
PID-3.6.2	O	Assigning Facility: Universal Identifier	ST	199	
PID-3.6.3	O	Assigning Facility: Universal Identifier Type	ID	6	
PID-3.7	O	Effective Date	DT	8	Format: YYYYMMDD[HHMM]
PID-3.8	O	Expiration Date	DT	8	Format: YYYYMMDD[HHMM]
PID-4	O	Alternate Patient ID	CX	20	Not required. Identifiers are to be sent only in PID-3.
PID-5	R	Patient Name	XPN	100	<p>Only the first instance of this field is used.</p> <p>Component 1: Last Name</p> <p>Component 2: First Name</p>



					Component 3: Middle Initial Component 4: Suffix Component 5: Title Component 6: Degree
PID-5.1	R	Patient Family name	FN	194	
PID-5.2	R	Patient Given name	ST	30	
PID-5.3	O	Patient Middle Initial or Name	ST	30	
PID-5.4	O	Patient Name Suffix	ST	20	
PID-5.5	O	Patient Name Prefix	ST	20	
PID-5.14	O	Patient Name Professional Suffix	ST	199	
PID-6	RA	Mother's Maiden Name	XPN	250	This field contains the mother's maiden name. Required if Emirates or Passport is not captured for the patient record.
PID-6.1	O	Mother's Maiden Name: Family Name	FN	194	
PID-6.2	O	Mother's Maiden Name: Given Name	ST	30	
PID-6.3	O	Mother's Maiden Name: Middle initial	ST	30	
PID-6.4	O	Mother's Maiden Name: Suffix	ST	20	
PID-6.5	O	Mother's Maiden Name: Prefix	ST	20	
PID-7	R	Date/time of Birth	TS	26	Only the date part of BirthTime is stored. Format: YYYYMMDD
PID-8	R	Sex	IS	1	HL7 Table 0001 If demographics contain no gender, the patient's gender will appear in the Clinical Viewer as "NS" for "Not Specified".
PID-9	O	Patient Alias	XPN	250	Component 1: Last Name Component 2: First Name Component 3: Middle Initial Component 4: Suffix Component 5: Title Component 6: Degree



PID-9-1	O	Patient Name	Alias	Family	FN	194	
PID-9-2	O	Patient Name	Alias	Given	ST	30	
PID-9-3	O	Patient Name	Alias	Middle	ST	30	
PID-9-4	O	Patient Alias Suffix			ST	20	
PID-9-5	O	Patient Alias Prefix			ST	20	
PID-10	O	Race Code			CE	250	Race If this field is valued, both code and description to be sent in the first two components as per the code table. PID.10.1 and PID.10.2
PID-10.1	O	Race Identifier Code			ST	20	HL7 Table 0005
PID-10.2	O	Race Description Text	Identifier		ST	199	
PID-10.3	O	Race System	Identifier	Code	ID	20	
PID-10.6	O	Race System Version	Identifier	Code	ID	20	
PID-11	R	Address			XAD	250	Every non-null instance of PID-11 will be parsed. Component 1: Street Component 2: Street (Secondary, i.e., APT) Component 3: City Component 4: State Component 5: Zip Code
PID-11.1	R	Street Address			SAD	184	
PID-11.2	O	Other Designation			ST	120	
PID-11.3	R	City			ST	50	
PID-11.4	R	State or Province			ST	50	HL7 table 0347: Please use the description from the code table.
PID-11.5	O	Zip or Postal Code			ST	12	
PID-11.6	R	Country			ID	3	
PID-11.7	RA	Address Type			ID	3	HL7 table 0190
PID-11.8	O	Other Designation	Geographic		ST	50	



PID-11.9	RA	County/Parish	IS	20	
PID-12	RA	County Code	IS	4	Three-digit ISO code
PID-13	R	Phone Number – Home	XTN	250	The TelecommunicationUseCode and TelecommunicationEquipmentTy are used to determine if the phone is a home phone or a mobile phone.  Repeating field. Each instance can represent one of the Telecommunication information (Cell Phone, Phone Number and Email Address).
PID-13.1	O	Phone Number – Home Telephone Number	ID	199	Patient home phone number. Only parsed when the PID-13.3 is “CP” or “PH”  Formatted as 009715xxxxxxx
PID-13.2	R	Phone Number – Home Telecommunication Use Code	ID	3	“EMR” – Emergency Number (for Cell Phone). “PRN” – Primary Residence Number (for Home Phone Number). “NET” – Network (email) Address (for Email Address).
PID-13.3	R	Phone Number – Home Telecommunication Equipment Type	ST	8	“CP” – Cell Phone. “PH” – Home Phone Number. “Internet” – Email Address.
PID-13.4	O	Phone Number – Home Email Address	ST	199	Patient E-mail address. Only parsed when the PID-13.3 is “Internet”
PID-14	O	Phone Number – Business	XTN	100	The TelecommunicationUseCode and TelecommunicationEquipmentTy are used to determine if the phone is a business phone or a mobile phone.  Only one instance is expected with Work Phone Number.
PID-14.1	O	Phone Number – Business Telephone Number	ST	250	Formatted as 009714xxxxxxx
PID-14.2	O	Phone Number – Business Telecommunication Use Code	ID	3	“WPN” – Work Primary Number.
PID-14.3	O	Phone Number – Business Telecommunication Equipment Type	ST	8	“EMP” – Employer
PID-14.4	O	Phone Number – Business Email Address	ST	199	
PID-15	R	Primary Language	CE	250	Patient's primary language.  If this field is valued, both code and description to be sent in the first two components as per the code table, PID.15.1 and PID.15.2



PID-15.1	RA	Primary Language Code	ST	20	HL7 table 0296.
PID-15.2	O	Primary Language Description Text	ST	199	
PID-15.3	O	Primary Language Code System	ID	20	
PID-15.6	O	Primary Language Code System Version	ID	20	
PID-16	RA	Marital Status	CE	250	If this field is valued, both code and description to be sent in the first two components as per the code table. PID.16.1 and PID.16.2
PID-16.1	RA	Marital Status Code	ST	20	HL7 table 0002
PID-16.2	O	Marital Status Description Text	ST	199	
PID-16.3	O	Marital Status Code System	ID	20	
PID-16.6	O	Marital Status Code System Version	ST	20	
PID-17	O	Religion	CE	250	If this field is valued, both code and description to be sent in the first two components as per the code table. PID.17.1 and PID.17.2
PID-17.1	R	Religion Code	ST	20	HL7 table 0006
PID-17.2	O	Religion Description Text	ST	199	
PID-17.3	O	Religion Code System	ID	20	
PID-17.6	O	Religion Code System Version	ID	20	
PID-18	O	Patient Account Number	CX	250	
PID-19	O	SSN/EID Number – Patient	ST	16	Not required. Identifiers are to be sent only in PID-3.
PID-20	O	Driver's License Number	DLN	25	Driving License Number. This is not expected to be part of PID-3 Identifier list. Used only if there is no DL in PID-3 or PID-4.
PID-20.1	O	Driver's License Number	ST	20	
PID-20.2	O	Driver's License Number State	IS	20	
PID-21	O	Mother's Identifier	CX	250	Required for newborn patient records Mother Patient's MRN ID for the newborn patient records.
PID-22	O	Ethnic Group	CE	250	Patients Ethnicity



					If this field is valued, both code and description to be sent in the first two components as per the code table. PID.22.1 and PID.22.2
PID-22.1	O	Ethnic Group Code	ST	20	Riayati table RYT1028
PID-22.2	O	Ethnic Group Descriptive Text	ST	199	
PID-22.3	O	Ethnic Group Code System	ID	20	
PID-22.6	O	Ethnic Group Code System Version	ID	20	
PID-23	O	Birthplace	ST	250	
PID-24	O	Multiple Birth Indicator	ID	1	Required only for newborn patient records. HL7 table 0136
PID-25	O	Birth Order	NM	2	Integer value. Required only for newborn patient record and is part of multiple birth.
PID-28	RA	Nationality	CE	250	HL7 table 0212 If this field is valued, both code and description to be sent in the first two components as per the code table. PID.28.1 and PID.28.2 Mandatory if Emirates Id and Passport Number is not captured for the Patient.
PID-28.1	O	Nationality Code	ST		HL7 table 0212
PID-28.2	O	Nationality Description	ST		
PID-29	O	Patient Death Date/time	TS	26	Time of death Format: YYYYMMDD[HHMM]
PID-30	O	Patient Death Indicator	ID	1	HL7 table 0136 A value of "Y" in the HL7 will be parsed as 1, "N" will be parsed as 0, the delete instruction (two double quotes) will be parsed as-is, and any other value in the HL7 will not be parsed.

#### Sample PID segment:

```
PID|||MR001^^^F12345^MRN~OMR001^^^APPCODE^OMRN~789123412345671^^^ICA^EID~1046403927^^^GCC^GCCID~PASS001^^^INTNL^PPN||Family Name^Given Name^Second Name^Mr.||19610615|M|||STREET^^SHAIK KHALIA^DXB^145445|GL|09715512346548^EMR^CP^^^NET^Internet^reach@email.com|00971027654321^WPN^EMP||S||ACC128563||
```



### 4.3 PV1 – Patient Visit

The following fields may be required from Attribute Table:

Seg/Field	Req	HL7 Name	Data Type	Max Len	Comments
PV1-1	O	Set ID	SI	3	This field contains the number that identifies this transaction.
PV1-2	R	Patient Class	IS	1	Supported values: E = Emergency I = Inpatient O = Outpatient C = Community N = Not Applicable P = Pre-admit G = Generated S = Silent
PV1-3	O	Assigned Patient Location	PL	80	Required when PV1-2: Patient Class is for Inpatient or Emergency or Outpatient.
PV1-3.1	O	Point of care	IS	20	Location Note: For Outpatient Encounter this field will contain Speciality description.
PV1-3.2	O	Room	IS	20	Room
PV1-3.3	O	Bed	IS	20	Bed
PV1-3.4	O	Facility	HD	227	Facility License Number (where the visit happens)
PV1-3.7	O	Building	IS	20	
PV1-3.8	O	Floor	IS	20	
PV1-3.9	O	Location Description	ST	199	
PV1-4	O	Admission Type	IS	2	This is a Patient's "Admit Priority" as defined in Admissions. HL7 table 0007  Value 'N' mandatory for Newborn messages.
PV1-5	O	Pre-admit Number	CX	250	A number given to the patient prior to being admitted but while information is being gathered
PV1-5.1	O	Pre-admit Number ID	ST	15	
PV1-5.4.2	O	Pre-admit Number Assigning Authority	ST	199	



PV1-5.5	O	Pre-admit Number Identifier Type Code	ID	5	
PV1-6	O	Prior Patient Location	PL	80	
PV1-7	R	Attending Doctor	XCN	250	
PV1-7.1	R	Attending Doctor ID Number	ST	15	Must be valid DOH, MOHAP or DHA license number.
PV1-7.2	R	Attending Doctor Last Name	FN	194	
PV1-7.3	O	Attending Doctor First Name	ST	30	
PV1-7.4	O	Attending Doctor Middle Name	ST	30	
PV1-7.5	O	Attending Doctor Suffix	ST	20	
PV1-7.6	O	Attending Doctor Prefix	ST	20	
PV1-7.7	O	Attending Doctor Degree	IS	5	HL7 Table 0360
PV1-7.9	R	Attending Doctor Assigning Authority	HD	227	Licensing Authority. Must have the value either MOHAP, DHA or DOH.
PV1-8	O	Referring Doctor	XCN	250	
PV1-8.1	R	Referring Doctor ID Number	ST	15	Must be valid DOH, MOHAP or DHA license number.
PV1-8.2	O	Referring Doctor Last Name	FN	194	
PV1-8.3	O	Referring Doctor First Name	ST	30	
PV1-8.4	O	Referring Doctor Middle Name	ST	30	
PV1-8.5	O	Referring Doctor Suffix	ST	20	
PV1-8.6	O	Referring Doctor Prefix	ST	20	
PV1-8.7	O	Referring Doctor Degree	IS	5	HL7 Table 0360
PV1-8.9	R	Referring Doctor Assigning Authority	HD	227	Licensing Authority. Must have the value either MOHAP, DHA or DOH.
PV1-9	O	Consulting Doctor	XCN	250	
PV1-9.1	R	Consulting Doctor ID Number	ST	15	Must be valid DOH, MOHAP or DHA license number.



PV1-9.2	O	Consulting Doctor Last Name	FN	194	
PV1-9.3	O	Consulting Doctor First Name	ST	30	
PV1-9.4	O	Consulting Doctor Middle Name	ST	30	
PV1-9.5	O	Consulting Doctor Suffix	ST	20	
PV1-9.6	O	Consulting Doctor Prefix	ST	20	
PV1-9.7	O	Consulting Doctor Degree	IS	5	HL7 Table 0360
PV1-9.9	R	Consulting Doctor Assigning Authority	HD	227	Licensing Authority. Must have the value either MOHAP, DHA or DOH.
PV1-10	O	Hospital Service	IS	3	Hospital service code as shared by MOHAP code set mapping.  Riayati Table: RYT1035
PV1-11	O	Temporary Location	PL	80	
PV1-12	O	Pre-admit Test Indicator	IS	2	
PV1-13	O	Re-admission Indicator	IS	2	
PV1-14	O	Admit Source	IS	6	HL7 Table 0023
PV1-15	O	Ambulatory Status	IS	2	HL7 Table 0009
PV1-16	O	VIP Indicator	IS	2	This is a Y/N flag that is defined as the VIP. Value 'Y' is mandatory for every VIP patient related message. To remove the previously wrongly set VIP flag HL7 Null ("") can be used.
PV1-17	C	Admitting Physician	XCN	250	Required when PV1-2: Patient Class is Inpatient with Main Responsible Physician (MRP) for the visit.
PV1-17.1	R	Admitting Physician ID Number	ST	15	
PV1-17.2	O	Admitting Physician Family Name	FN	194	
PV1-17.3	O	Admitting Physician Given Name	ST	30	
PV1-17.4	O	Admitting Physician Middle Name	ST	30	



PV1-17.5	O	Admitting Physician Suffix	ST	20	
PV1-17.6	O	Admitting Physician Prefix	ST	20	
PV1-17.7	O	Admitting Physician Degree	IS	5	HL7 Table 0360
PV1-17.9	R	Admitting Physician Assigning Authority	HD	227	Licensing Authority. Must have the value either MOHAP, DHA or DOH.
PV1-18	O	Patient Type	IS	2	HL7 Table 0018
PV1-19	R	Visit Number ID	CX	250	Visit number must be unique for the facility.
PV1-19.1	R	Visit Number ID	ST	15	
PV1-19.4	R	Visit Number Assigning Authority	HD	227	Facility License Number. Must match with facility Id in MSH.4
PV1-19.5	O	Visit Number Identifier Type Code	ID	5	
PV1-20	O	Financial Class	FC	50	This is the Patient's Financial Class as defined as Fin Class in Admissions. HL7 Table 0064
PV1-21	O	Charge Price Indicator	IS	2	
PV1-22	O	Courtesy Code	IS	2	
PV1-23	O	Credit Rating	IS	2	
PV1-24	O	Contract Code	IS	2	
PV1-25	O	Contract Effective Date	DT	8	Format: YYYYMMDD[HHMM]
PV1-26	O	Contract Amount	NM	12	
PV1-27	O	Contract Period	NM	3	
PV1-28	O	Interest Code	IS	2	
PV1-29	O	Transfer to Bad Debt Code	IS	4	
PV1-30	O	Transfer to Bad Debt Date	DT	8	Format: YYYYMMDD[HHMM]
PV1-31	O	Bad Debt Agency Code	IS	10	



PV1-32	O	Bad Debt Transfer Amt	NM	12	
PV1-33	O	Bad Debt Recovery Amt	NM	12	
PV1-34	O	Delete Account Indicator	IS	1	
PV1-35	O	Delete Account Date	DT	8	Format: YYYYMMDD[HHMM]
PV1-36	C	Discharge Disposition	IS	3	The conditions under which the patient was discharged. Riayati Table: RYT1024
PV1-37	O	Discharge to Location	DLD	47	
PV1-38	O	Diet Type	CE	250	
PV1-39	O	Servicing Facility	IS	2	HL7 Table No:0115
PV1-40	O	Bed Status	IS	1	
PV1-41	O	Account Status	IS	2	HL7 Table No:0117
PV1-42	O	Pending Location	PL	80	
PV1-43	O	Prior Temporary Location	PL	80	
PV1-44	R	Admit Date/Time	TS	26	This field contains the admit date/time. If there is no value in this field, the system will use the date and time from when the message is transmitted. Format: YYYYMMDD[HHMM]
PV1-45	C	Discharge Date/Time	TS	26	This field contains the discharge date/time. Format: YYYYMMDD[HHMM]

Sample PV1 segment:

```
PV1|1|O|General^^^F12345||||GD12345^LastName^FirstName^^^Dr.^^^ASSIGNING_AUTH|14||||P||||45
3640^^^F12345||||||||||||1|Home|||||20200401111800|20200401112000
```



## 4.4 ORC – Common Order

The following fields may be required from Attribute Table:

Seg/Field	Req	HL7 Name	Data Type	Max Len	Comments
ORC-1	R	Order Control	ID	2	Supported values: Two double quotes ("" ) = Inactivate all orders of this type (Status="I") Four double quotes ("""" ) = Clear/delete all orders of this type (Status="C") Any other value = Add or Update.
ORC-2	O	Placer Order Number	EI	22	This field is the placer application's order number. This is unique order number generated for every order, and order number remains same when any actions are taken on this particular order (like Modify/Cancel/etc....) OBR-2 will be used if a value can be parsed from it, else ORC-2 will be used.
ORC-3	R	Filler Order Number	EI	22	This field is the order number associated with the filling application. OBR-3 will be used if a value can be parsed from it, else ORC-3 will be used.
ORC-4	O	Placer Group Number	EI	22	This field contains a unique identifier for the Placer Group as referenced by the Placer application, the Filler application, or both. A Placer Group is a set of orders grouped together by the placer application, and subsequently identified by the placer application and/or by the filler application.
ORC-5	O	Order Status	ID	2	HL7 Table: 38
ORC-6	O	Response Flag	ID	1	
ORC-7	RA	Quantity Timing	TQ	200	Only the first instance of this field is used.
ORC-7.1	RA	Quantity Timing Quantity	NM	16	Number of items ordered Order Quantity is parsed from (in order of precedence) OBR-27.1.1, or ORC-7.1.1.
ORC-7.3	R	Quantity Timing Duration	ST	6	Duration. This field must have duration.
ORC-7.4	RA	Quantity Timing Start Date/Time	TS	26	Start date and time of the Order This is parsed from (in order of precedence) OBR-27.4, OBR-6.1, or ORC-7.4 Format: YYYYMMDD[HHMM]
ORC-7.5	RA	Quantity Timing	TS	26	End date and time of the Order



		End Date/Time			This is parsed from (in order of precedence) OBR-27.5, or ORC-7.5. Format: YYYYMMDD[HHMM]
ORC-7.6	R	Quantity Timing Priority	ST	6	The Priority of the Order  This field must have Priority text. Riayati Table: RYT1143
ORC-7.7	RA	Quantity Timing Condition	ST	199	Condition, e.g. "keep BP below 110" This field must have Condition Text Riayati Table: RYT1143
ORC-7.8	RA	Quantity Timing Text	TX	200	Text instructions or directions, e.g. "After food", or if Duration etc. isn't coded, "Take 3 twice a day" Length subject to the total streamlet size limit - 3,000,000.  This field must have Quantity Timing Test
ORC-8	O	Parent	EIP	200	
ORC-9	O	Date/Time of Transaction	TS	22	This field contains the date and time of the event that initiated the current transaction as reflected in ORC-1 Order Control Code. This field is not equivalent to MSH-7 Date and Time of Message which reflects the date/time of the physical message. Format: YYYYMMDD[HHMM]
ORC-10	O	Entered by	XCN	250	Only the first instance of this field is used.
ORC-11	O	Verified by	XCN	250	This field contains the identity of the person who verified the accuracy of the entered request. Note that this refers to the current transaction as reflected in ORC-1 Order Control Code. It is used in cases where the request is entered by a technician and needs to be verified by a higher authority (e.g., a nurse).  OBR-32 will be used if present, else the first non-null instance of ORC-11 will be used, if there is one.
ORC-12	R	Ordering Provider	XCN	250	This field contains the identity of the person who is responsible for creating the request (i.e., ordering physician).  Ordering Provider is parsed from (in order of precedence) OBR-16, RXO-14, or ORC-12 and ORC-24.
ORC-12.1	R	Id Number	ST	15	Must be a valid License number from MOH/DOH/DHA licensing authority
ORC-12.2	R	Family Name	FN	194	



ORC-12.3	R	Given Name	ST	30	
ORC-12.4	O	Second and Further Given Names or Initials Thereof	ST	30	
ORC-12.9	R	Assigning Authority	HD	227	Licensing Authority. Must have the value either MOHAP, DHA or DOH.
ORC-13	O	Enterer's Location	PL	80	Only the Point of Care component ORC-13.1 is currently used when it is not null.
ORC-14	O	Call Back Phone Number	XTN	250	OBR-17 is used if any regular (business), mobile, or fax numbers or e-mail addresses can be parsed from it, else ORC-14 is used.
ORC-15	O	Order Effective Date Time	TS	26	This field contains the date/time that the changes to the request took effect or are supposed to take effect.
ORC-16	O	Order Control Code Reason	CE	250	
ORC-17	O	Entering Organization	CE	250	
ORC-18	O	Entering Device	CE	250	
ORC-19	O	Action by	XCN	250	
ORC-20	O	Advanced Beneficiary Notice Code	CE	250	
ORC-21	O	Ordering Facility Name	XON	250	Will be processed in combination of ORC-22 and ORC-23.
ORC-22	O	Ordering Facility Address	XAD	250	Will be processed in combination of ORC-21 and ORC-23.
ORC-23	O	Ordering Facility Phone Number	XTN	250	Will be processed in combination of ORC-21 and ORC-22.
ORC-24	O	Ordering Provider Address	XAD	250	Will be processed in combination of ORC-12.
ORC-25	O	Order Status Modifier	CWE	250	
ORC-26	O	Advanced Beneficiary Notice Override Reason	CWE	60	



ORC-27	O	Filler's Expected Availability Date/Time	TS	26	
ORC-28	R	Confidentiality Code	CWE	250	This field contains information about the level of security and/or sensitivity surrounding the order. If this field is valued, both code and description to be sent in the first two components as per the code table. ORC.28.1 and ORC.28.2
ORC-28.1	R	Confidentiality Code	ST	20	HL7 Table: 0177
ORC-28.2	R	Confidentiality Description	ST	199	
ORC-29	R	Order Type	CWE	250	Order type must be "MED"
ORC-31	O	Parent universal service identifier	CWE	250	

#### Sample ORC segment:

```
ORC|NW|123456^^ASSIGNING_AUTH|ASSIGNING_AUTH^^ASSIGNING_AUTH||active|F|^^^20180301111
008^^R||20180301111008|EMP78^^Mohammed Saif||MH123456^Family Name^Given
Name^^^Dr.^^^&MOHAP|||||||||||||||||N|MED|
```



## 4.5 TQ1 – Timing/Quantity

The following fields may be required from Attribute Table:

Seg/Field	Req	HL7 Name	Data Type	Max Len	Comments
TQ1-1	O	Set ID	SI	4	
TQ1-2	O	Quantity	ID	20	Order Quantity is parsed from (in order of precedence) TQ1-2.1 or ORC-7.1.1
TQ1-3	R	Repeat Pattern	RPT	540	Only the first instance of this field is used.  Riayati Table RYT1147 – Frequency
TQ1-3.1.1	R	Repeat Pattern Code Identifier	ST	20	
TQ1-3.1.2	O	Repeat Pattern Code Text	ST	199	

Sample TQ1 segment:

TQ1|||q12hr&every 12 hours



## 4.6 RXO – Pharmacy/Treatment Order

The following fields may be required from Attribute Table:

Seg/Field	Req	HL7 Name	Data Type	Max Len	Comments
RXO-1	R	Requested Give Code	CE	250	This field identifies the treatment product or treatment ordered to be given to the patient. DOH Drug Should be populated in this field If this field is valued, both code and description to be sent in the first two components as per the code table. RXO.1.1 and RXO.1.2
RXO-1.1	R	Requested Give Code Identifier	ST	20	DOH Drug Code.
RXO-1.2	R	Requested Give Code Text	ST	199	DOH Drug Description
RXO-1.3	R	Requested Give Code Name of Coding System	ID	20	Must be "DOHDRUG"
RXO-2	R	Requested Give Amount - Minimum	NM	20	This field is the ordered amount. In a variable dose order, this is the minimum ordered amount. In a non-varying dose order, this is the exact amount of the order.
RXO-3	O	Requested Give Amount - Maximum	NM	20	
RXO-4	R	Requested Give Units	CE	250	Units for DoseQuantity (e.g. the mg in 20mg)
RXO-4.1	R	Requested Give Units Identifier	ST	20	Code for the Units
RXO-4.2	R	Requested Give Units Text	ST	199	Description of the Units
RXO-5	R	Request Dosage Form	CE	250	Dosage Form (e.g. Tablet, Capsule, etc.)
RXO-5.1	O	Request Dosage Form Identifier	ST	20	Code for the Dose form
RXO-5.2	R	Request Dosage Form Text	ST	199	Description of the Dose form
RXO-6	O	Provider's Pharmacy/Treatment Instructions	CE	250	Not required for Riayati.
RXO-6.1	O	Provider's Pharmacy/Treatment Instructions Identifier	ST	20	Code for the Pharmacy Instructions
RXO-6.2	R	Provider's Pharmacy/Treatment	ST	199	Description of the Pharmacy Instructions



		Instructions Text			
RXO-7	O	Provider's Administration Instructions	CE	250	Both Code and Text is mandatory.
RXO-7.1	R	Provider's Administration Instructions Identifier	ST	20	Code for the Route
RXO-7.2	R	Provider's Administration Instructions Text	ST	199	Description of the Route
RXO-8	O	Deliver to Location	LA1	200	
RXO-9	O	Allow Substitutions	ID	1	
RXO-10	O	Requested Dispense Code	CE	250	
RXO-11	O	Requested Dispense Amount	NM	20	This field specifies the amount to be dispensed.
RXO-12	O	Requested Dispense Units	CE	250	This field identifies the units for the dispense amount. This must be in simple units that reflect the actual quantity of the substance to be dispensed.
RXO-13	O	Number of Refills	NM	3	Number of Refills allowed for the medication
RXO-14	O	Ordering Provider's DEA Number	XCN	250	If present, this overrides ORC-12. Only the first instance of this field is used.
RXO-17	O	Requested Give Per (Time Unit)	ST	20	Time units (e.g. per hour, as in 100 ml per hour)
RXO-18	O	Requested Give Strength	NM	20	Size of dose (e.g. the 20 in 20mg).
RXO-19	O	Requested Give Strength Units	CE	250	Units for DoseQuantity (e.g. the mg in 20mg)
RXO-20	O	Indication	CE	250	The condition or problem for which the drug/treatment was prescribed
RXO-21	O	Requested Give Rate Amount	ST	6	Rate (e.g. the 100 in 100 ml/hour)
RXO-22	O	Requested Give Rate Units	CE	250	Units for Rate (e.g. the ml in 100 ml/hour)

Sample RXO segment:

RXO|04698^Pregnancy  
Multivitamin,Combination,Tablets^DOHDRUG|1||Tablet(s)^Tablet(s)^CODING\_SYS|Tablets^Tablets^CODING\_SYS|  
|Oral^Oral|||1|Tablet(s)^Tablet(s)^CODING\_SYS|0

## 4.7 NTE – Notes and Comments Segment

The following fields may be required from Attribute Table:

Seg/Field	Req	HL7 Name	Data Type	Max Len	Comments
NTE-1	O	Set ID	SI	4	
NTE-2	O	Source of Comment	ID	8	This field is used when source of comment must be identified HL7 Table 0105 - Source of comment
NTE-3	O	Comment	FT	65536	This field contains the comment contained in the segment.
NTE-4	O	Comment Type	CE	250	If this field is valued, both code and description to be sent in the first two components as per the code table. NTE.4.1 and NTE.4.2
NTE-4.1	O	Comment Type Code	ST	20	HL7 Table 0364 - Comment type
NTE-4.2	O	Comment Type Description	ST	199	

Sample NTE segment:

NTE|P|Comments|



## 4.8 RXR – Pharmacy/Treatment Route

The following fields may be required from Attribute Table:

Seg/Field	Req	HL7 Name	Data Type	Max Len	Comments
RXR-1	R	Route	CE	250	If this field is valued, both code and description to be sent in the first two components as per the code table. RXR.1.1 and RXR.1.2
RXR - 1.1	R	Identifier	ST	20	HL7 Table 0162
RXR - 1.2	R	Text	ST	199	
RXR - 1.3	O	Name of Coding System	ID	20	
RXR-2	O	Administration Site	CWE	199	If this field is valued, both code and description to be sent in the first two components as per the code table. RXR.2.1 and RXR.2.2
RXR-2.1	O	Administration Code	ST	20	HL7 Table 0163 or Riayati Table RYT1148
RXR-2.2	O	Administration Description	ST	199	

Sample RXR segment

RXR|IV^Intravenous^RIAYATI