

HL7 v2 Reading Map: ORM^O01 Order Message

One line = one segment. Pipe | separates fields. Caret ^ separates components. Empty separators mean blanks.
Use this infographic as a reference when reading similar HL7 v2 messages.

1) Separator quick guide



2) Read the segment names first



3) Annotated source message by segment

MSH	MSH ^~\& MESA_OP XYZ_HOSPITAL IFW ABC_RADIOLOGY ORM^O01 101104 P 2.3
PID	PID 1 20891312^^^EPI APPLESEED^JOHN^A^^MR. 19661201 M AfrAm 505 S. HAMILTON AVE^^MADISON^WI^53505^US^^DN (608)123-4567 (608)123-5678 S 11480003 123-45-7890 ^WI^^
PD1	PD1 FACILITY(EAST)^12345 1173^MATTHEWS^JAMES^A^^^
PV1	PV1 A^CARE HEALTH SYSTEMS^^^ 1173^MATTHEWS^JAMES^A^^^ 610613 ... V
ORC	ORC NW 987654^EPC 76543^EPC Fina 20140418170014^^^ 20140418173314 1148^PATTERSON^JAMES^^^ 1173^MATTHEWS^JAMES^A^^ 1133^^222^^^ (618)222-1122
OBR	OBR 1 363463^EPC 1858^EPC 73610^X-RAY ANKLE 3+ VW^^X-RAY ANKLE 1173^MATTHEWS^JAMES^A^^ (608)258-8866 Fina ^1173^MATTHEWS^JAMES^A^^ 6064^MANSFIELD^JEREMY^^ 1148010^1A^EAST^X-RAY^^
DG1	DG1 I10 S82^ANKLE FRACTURE^I10 ANKLE FRACTURE A

4) Meaning of the main non-empty fields

MSH - Message Header		
MSH-1		Field separator.
MSH-2	^~\&	Encoding characters: component, repetition, escape, subcomponent.
MSH-3/4	MESA_OP / XYZ_HOSPITAL	Sending application / sending facility.
MSH-5/6	IFW / ABC_RADIOLOGY	Receiving application / receiving facility.
MSH-9	ORM^O01	Message type: ORM order message; O01 trigger event.
MSH-10/11/12	101104 / P / 2.3	Message control ID / production / HL7 version.

PV1 - Patient Visit		
PV1-2	A^CARE HEALTH SYSTEMS	Patient class/visit category; A commonly means ambulatory/outpatient.
PV1-7	1173^MATTHEWS^JAMES^A	Attending/responsible provider.
PV1 other	610613 ... V	Visit number, account, or visit indicator fields; count pipes carefully in the full message.

OBR - Observation Request		
OBR-1	1	Set ID for this order request.
OBR-2/3	363463^EPC / 1858^EPC	Placer order number / filler order number.
OBR-4	73610^X-RAY ANKLE 3+ VW	Universal service ID: X-ray ankle, 3+ views.
OBR-16/17	MATTHEWS / phone	Ordering provider / contact phone.
OBR-25	Fina	Result/order status; local code appears to mean final.
OBR-32	MANSFIELD^JEREMY	Interpreter/radiologist-type provider information.
OBR location	1148010^1A^EAST^X-RAY	Location/department/accession-type details; interface-specific.

PID - Patient Identification		
PID-3	20891312^^^EPI	Patient identifier; EPI is the assigning authority/source.
PID-5	APPLESEED^JOHN^A^^MR.	Name: family, given, middle initial, blank component, prefix.
PID-7/8	19661201 / M	Date of birth: 1966-12-01; sex: male.
PID-11	505 S. HAMILTON AVE...	Address components: street, city, state, ZIP, country, etc.
PID-13/14	(608)123-4567 / (608)123-5678	Phone numbers, commonly home/work or alternate.
PID-16/18/19	S / 11480003 / SSN	Marital status / patient account number / sensitive identifier.

ORC - Common Order		
ORC-1	NW	Order control: New Order.
ORC-2/3	987654^EPC / 76543^EPC	Placer order number / filler order number.
ORC-5	Fina	Local status code; appears to mean final/finalized.
ORC-9	20140418170014	Timestamp: 2014-04-18 17:00:14.
ORC provider	PATTERSON / MATTHEWS	Entered-by and ordering-provider type information.
ORC phone	(618)222-1122	Callback phone number.

DG1 - Diagnosis		
DG1-2	I10	ICD-10 coding system.
DG1-3	S82^ANKLE FRACTURE^I10	Diagnosis code + text + coding system.
DG1-4	ANKLE FRACTURE	Diagnosis description: ankle fracture.
DG1-6	A	Diagnosis type; may mean admitting/active depending on the interface.

5) Six-step method for reading any HL7 v2 message

1. MSH: Who sent it? Who receives it? What message type?
3. PV1: What kind of visit is this? Outpatient, inpatient, ED?
5. OBR/OBX: What test/exam was ordered? What result was reported?
2. PID: Who is the patient? ID, name, DOB, sex.
4. ORC: What is the order action? New, cancel, update, complete?
6. DG1/AL1/IN1: Diagnosis, allergies, insurance, and other context.