



# **CONSOLIDATED MAIL OUTPATIENT PHARMACY (CMOP)**

## **TECHNICAL MANUAL**

Version 2.0  
April 1997

(Revised January 2007)



## Revision History

Each time this manual is updated, the Title Page lists the new revised date and this page describes the changes. If the Revised Pages column lists “All,” replace the existing manual with the reissued manual. If the Revised Pages column lists individual entries (e.g., 25, 32), either update the existing manual with the Change Pages Document or print the entire new manual.

Revision Date	Revised Pages	Patch Number	Description
01/2007	33, 65, 68-69, 71, 75, 75a-b, 77	PSX*2*54	Added PSXBLD1 to the Routine List. Updated affected HL7 segments to reference the new warning label source. (E. Williamson, PM; S. Krakosky, Tech Writer)
09/2006	All	PSX*2*61	Encapsulation II Follow-up Patches. Added PSX550 to the Routine List. (Clean-up - fixed both Table of Contents, added blank pages, deleted headers, re-numbered pages, etc.) This is a re-issue of the full manual. (H. Whitley, PM; L. Woodson, Tech Writer)
04/1997			Original Released Technical Manual.

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# Routine List

The following is a list of routines you will see for Consolidated Mail Outpatient Pharmacy (including those patched through PSX\*2\*48) when you load the new routine set. The first line of each routine contains a brief description of the general function of the routine. Use the *First Line Routine Print* [XU FIRST LINE PRINT] option found within the *Kernel Routine Tools* [XUPR-ROUTINE-TOOLS] menu to print the first line description of each PSX\* routine.

PSX41NDX	PSX41PRE	PSX41PST	PSX550	PSXACK	PSXACT	PSXARC	PSXARC1
PSXARC2	PSXARPT	PSXATREJ	PSXAUTO	PSXAUTO	PSXBKD	PSXBKG	PSXBLD
PSXBLD1	PSXBPSMS	PSXBPSUT	PSXCH	PSXCHENV	PSXCMOP	PSXCMOP0	PSXCMOP1
PSXCOSTU	PSXCRENV	PSXCSCMN	PSXCSDA	PSXCSDC	PSXCSDC1	PSXCSDC2	PSXCSDC3
PSXCSDC1	PSXCSDC2	PSXCSDC3	PSXCSDC4	PSXCSDC5	PSXCSDC6	PSXCSDC7	PSXCSDC8
PSXCSDC9	PSXCSDC10	PSXCSDC11	PSXCSDC12	PSXCSDC13	PSXCSDC14	PSXCSDC15	PSXCSDC16
PSXCSDC17	PSXCSDC18	PSXCSDC19	PSXCSDC20	PSXCSDC21	PSXCSDC22	PSXCSDC23	PSXCSDC24
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PSXCSDC49	PSXCSDC50	PSXCSDC51	PSXCSDC52	PSXCSDC53	PSXCSDC54	PSXCSDC55	PSXCSDC56
PSXCSDC57	PSXCSDC58	PSXCSDC59	PSXCSDC60	PSXCSDC61	PSXCSDC62	PSXCSDC63	PSXCSDC64
PSXCSDC65	PSXCSDC66	PSXCSDC67	PSXCSDC68	PSXCSDC69	PSXCSDC70	PSXCSDC71	PSXCSDC72
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PSXCSDC841	PSXCSDC842	PSXCSDC843	PSXCSDC844	PSXCSDC845	PSXCSDC846	PSXCSDC847	PSXCSDC848
PSXCSDC849	PSXCSDC850	PSXCSDC851	PSXCSDC852	PSXCSDC853	PSXCSDC854	PSXCSDC855	PSXCSDC856
PSXCSDC857	PSXCSDC858	PSXCSDC8					

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## Patient Identification Segment—PID

The Patient Identification Segment is used as the primary means of communicating patient identification information, which for the most part is not likely to change.

SEGMENT	SEQ#	LEN	DT	R/O	RP/#	ELEMENT NAME
PID	3	16	CK	R		Patient ID (Internal ID)
	5	48	PN	R		Patient Name
	11	106	AD	R		Patient Address
	13	18	PH	O		Phone Number
	14	1	NM	O		Other Language PMI Flag
	17	17	ST	O		Integration Control Number

Contents of the patient identification segment are:

Segment ID—identifies type of segment (PID).

Patient ID—social security number (see HL7 encoding rules).

Patient Name—identifies the patient (see HL7 encoding rules).

Patient Address—mailing location for patient order.

Phone Number—home phone number.

Other Language PMI Flag—denotes in which language to print the PMI; numeric unless the CMOP WARNING LABEL SOURCE is set to “New”, and then is either ENG for English or SPA for Spanish.

Integration Control Number – sent if it is a nationally assigned number.

### Example of PID segment:

```
PID|||000579013^1^M11||CMOPPATIENT3^ONE|||||123 OAK  
ST.^PLANO^TX^75024|(555)555-5555|1
```

When the CMOP WARNING LABEL SOURCE is "New", the PMI preference will be sent as “ENG” for English or “SPA” for Spanish instead of the current numeric values.

### Example of PID segment (when CMOP WARNING LABEL SOURCE = NEW):

```
PID|||000579013^1^M11||CMOPPATIENT3^ONE|||||123 OAK  
ST.^PLANO^TX^75024|(555)555-5555|ENG|||1000000001V012345
```

## Common Order Segment—ORC

The common order segment may consist of data common to all orders for the patient. The order control data field defines the function of the order segment. For this application this segment serves to mark the beginning of a new prescription/item order for the patient. It consists of only the segment ID and the order control data field indicating a new order. All order segments must be preceded by an ORC segment.

### ORC—Segment Definition Table

SEGMENT	SEQ#	LEN	DT	R/O	RP/#	ELEMENT NAME
ORC	1	2	ST	R		Order Control

### Example ORC segment:

ORC|NW|

## Pharmacy Order Segments—RX1, ZX1

Two segments are used by this application to complete a pharmacy order. These are the RX1 pharmacy segment, defined by HL7, and the ZX1 application defined segment. These segments occur only once for each pharmacy order and always follow an ORC segment. Multiple orders (ORC, RX1, ZX1 combination) may be present for each patient order message.

RX1 Segment Definition Table

SEGMENT	SEQ#	LEN	DT	R/O	RP/#	ELEMENT NAME
RX1	1	20	TX	R		Prescription Index
	12	11	CQ	R		Quantity Dispensed *
	14	48	CE	R		Drug ID (locally defined)
	19	3	NM			Number of Refills
	20	8	DT	R		Issue Date
	21	3	NM			Refills Remaining
	24	8	DT	R		Expiration Date
	25	8	DT			Last Refill Date
	26	20	ST	R		Rx Number
	30	80	TX	R		Instructions (SIG) **

\*For purposes of this application, the field length of the data element, Quantity Dispensed has been expanded to 11 to allow for a maximum quantity of 8 significant digits and two decimal digits (nnnnnnnn.nn).

\*\*The SIG data element for the RX1 data segment will have the maximum field length of 80 characters. If necessary, immediately following the RX1 will be an NTE (Notes and Comments) segment, which will contain up to the next 100 characters of the SIG data element. If the SIG length exceeds this 80-character limit the NTE segment will repeat as necessary until all of the SIG is transmitted. See the section of this document referring to NTE segments for further description of these segments. The SIG data may also contain instructions in another language.

### Example RX1 segment:

```
RX1|521-10170-1|||30||218A^ RANITIDINE 100mg ^L|||5|19921225|3|||
19930630|19921230|10170|||TAKE ONE TABLET THREE TIMES A DAY AFTER MEALS
```

The standard HL7 definitions apply to all data elements except the Drug ID and the Prescription Index. The Drug ID element is locally defined for the CMOP application. The coded element consists of three components: the identifier, the VA Print name, and the coding system name, “L”, indicating this is a locally defined code. The Prescription Index data element is used by the vendor system to determine the existence of a duplicate prescription date at the time the patient order is received. This data element is formatted as follows: facility ID–prescription number–fill number of the prescription.

For the purposes of this application, the data elements, Issue Date (Sequence #20) and Expiration Date, are present in data fields currently **unused** by HL7 (V. 2.1). The Issue Date is the date the physician wrote the order, and the Expiration Date is the date the prescription expires.

## ZX1 Segment Definition Table

SEGMENT	SEQ#	LEN	DT	R/O	RP/#	ELEMENT NAME
ZX1	1	20	ST	R		RX Number
	2	48	CE	R		Pharmacy Site ID
	3	1	ST	R		Mail Processing ID
	4	3	NM	R		RX count
	5	8	ST			Refill text
	6	30	ST	R		Provider/Physician
	7	1	NM			Registered Mail
	8	12	ST	R		Clerk/Verifying Pharmacist
	9	8	TS	R		Fill date (YYYYMMDD)
	10	1	NM			Copayment ID
	11	1	NM			Renewable
	12	1	NM			Safety Cap
	13	3	NM	R		Days Supply
	14	1	NM			Controlled Subs Indicator
	15	20	ST			Barcode Data
	16	11	ST		Y/5	Warning Message Flag*
	17	20	ST	R		Patient Status
	18	20	ST			Clinic

\*When the CMOP WARNING LABEL SOURCE is “New”, the warning label numbers will not be sent in the ZX1 segment, but instead, will be sent along with the warning label text in the new NTE|11|segments.

### Example ZX1 segment:

```
ZX1|10170|521^BIRMINGHAM|M|1|(1 of 2)|OPPROVIDER3,TWO|1|(674/1874)|19920125|
1|1|1|30|1|521-107396|3~7|SC50|CARDIOLOGY
```

Application specific data elements included in the ZX1 segment are described as follows:

**Rx Number**—the prescription number of the medication/item requested.

**Pharmacy Site ID**—SITE NUMBER field and PHARMACY DIVISION NAME field from the OUTPATIENT SITE file (#59) of the sending medical center. Example:  
521^Birmingham

**Mail Processing ID**—Currently the only designation permitted is “M”—mail.

**Rx Count**—Total number of Rx’s including this Rx which are remaining in the patient order (number of orders to be processed).

**Provider/Physician**—The name of the provider/physician responsible for this order.

Registered Mail—Designations are 1-Yes and otherwise No. This data element may be reviewed for further description in the future, but will remain a single numeric digit code.

Clerk/Verifying Pharmacist—A unique number identifying the verifying pharmacist, and another identifying the clerk who entered the order.

Fill date—Fill date of the drug/item (CCYYMMDD).

Copayment ID—Designation is 1-patient is eligible for prescription copayment, otherwise patient is ineligible.

Renewable—Indicates whether or not the prescription is renewable. Designation is 1-Renewable.

Safety Cap—Indicates if the medication requires a non-safety cap. Designations are 1-Yes, otherwise No. If 1 (Yes), print NON-Safety on the Pharmacist Copy.

Days Supply—The number of days supply for the prescription/item. This information is printed on the Copayment document and the Pharmacist copy.

Controlled Substances Indicator— This data element will contain a 1 if the Rx is a controlled substance; otherwise, the field will be null.

Barcode Data—Institution ID—Internal entry number from prescription file.

Warning Message Flag—This data element contains codes for warning text to be printed with the drug. This field may be repeated five times.

Patient Status—Pharmacy patient status.

Clinic—Clinic location at time of order.

## **NTE            Notes and Comments Segment**

Notes and Comments segments are utilized by this application to transfer data which cannot be included in current HL7 defined segments.

NTE segments may repeat as necessary, and all NTE segments using the same set ID will follow consecutively in the message.

Batch related NTE segments containing facility specific parameters, patient instructions and prescription copayment narrative will appear immediately following the BHS segment.

Patient related NTE segments containing multi-Rx and suspense notification, and address (third line) information will follow the PID segment.

Order related NTE segments containing information related to the SIG (instructions) will follow the RX1 segment and may repeat as necessary.

**General NTE segment definition:**

SEGMENT	SEQ#	LEN	DT	R/O	RP/#	Element Name
NTE	1	4	SI			Set ID
	3	120	TX	R	Y	Comment

When a field of type TX is being encoded, the escape character may be used to signal certain special characteristics of portions of the text field. The escape character is whatever display ASCII character is specified in the Escape Character Field in the MSH segment. For purposes of this application, the character “\” will be used to represent the character so designated in a message. An escape sequence consists of the escape character followed by an escape code id of one character followed by 0 or more data characters followed by another occurrence of the escape character. The following escape sequences are defined and currently being used in this application.

\F\	field separator
\S\	component separator
\T\	subcomponent separator
\R\	repetition separator

Application definition for numbering of NTE segments:

<u>Set ID</u>	<u>Notes and Comments field</u>
*1	Facility Information separated by the escape sequences defined by field separator and component separator. (Required Segment)(max character=186)
2	Patient Instructions for refillable Rx. Text information separated by the repetition separator escape sequence.
3	Patient Instructions for non-refillable Rx. Text information separated by the repetition separator escape sequence.
4	Copayment narrative text information separated by the repetition separator escape sequence.
*5	Multi-Rx turnaround information containing data fields separated by the field separator escape sequence. (max character=125)
*6	Suspense notification information containing data fields separated by the field separator escape sequence. (max character=124)

- 7 SIG (Instructions) information when the SIG length exceeds the 80 characters allowed in the RX1 segment. This segment may repeat as many times as needed.
- \*8 If the patient street address information exceeds two lines (HL7 standard for PID segment), additional lines, beginning with “line 3” will be held in NTE|8| segments. These segments will always follow the Patient Identification (PID) segment. This segment will also contain temporary address information. (max character=124)
- 11 Warning Label Text - \*When the CMOP WARNING LABEL SOURCE is “New”, the warning label numbers and corresponding warning label text will be sent in this new segment. If the patient has a PMI preference of Spanish, up to five warning labels will be sent in both English and Spanish. If the DEA, SPECIAL HDLG field (#3) in the DRUG file (#50) begins with numbers 1,2,3,4, or 5, then the NO TRANSFER warning text from the RX CONSULT file (#54) entry number 20 will be sent as one of the first 5 warnings.
- 99 Information regarding dispensing of the prescription ordered. This data is returned from the vendor system when a query message is received from the VistA system. (Required for each prescription returned.)
- 100 Information on this segment consists of the cancellation reason for a non-dispensed prescription, the date the prescription was shipped to the patient, the carrier handling the shipment, and the package identification code of the shipment. This data, if present, is returned by the vendor system when a query message is received from the VistA system.

\*The requirements of the data elements for this segment exceed the 120 character length definition, but will not exceed the maximum characters listed. The maximum length of any segment (including control characters) is 245 characters.

**NTE Segment—Facility Specific Information Definition Table Set ID=1**

The NOTES AND COMMENTS field contains information related to the institution or facility which originated the message. The TX (Text field) Data type uses the escape sequence, \F, as a field separator, and the escape sequence, \S, as a component separator.

The information in the table below describes the components encoded in the NOTES AND COMMENTS text field of the Facility NTE segment: Set ID=1

SEQ#	LEN	DT	R/O	RP/#	Element Name in Notes and Comments
1	40	ST	R		Pharmacy Division Data
2	106	AD	R		Address
3	40	TN			Phone number

**Example**

```
NTE|1| |Site#\S\Division Name\S\Institution\F\Street Address\S\Other
Street\S\City\S\State Abbrev.\S\ZIP code (99999 or 99999-9999)\F\Phone (999)
999-9999
```

This required segment, NTE|1|, is a single occurrence for each Batch of data and will always follow the Batch Header Segment (BHS|)

Description of Components of the data elements

- Pharmacy Division Data - Components of this field are the site number, the pharmacy division, and the institution (station number).
- Address - The 1-2 line street address, city, state, and ZIP Code for the pharmacy division.
- Phone - The telephone number of the pharmacy division.

**RF Patient Instruction NTE Segment Definition Table Set ID=2**

SEQ#	LEN	DT	R/O	RP/#	Element Name in Notes and Comments
1	4	SI			Set ID
3	100	ST	R		Instruction (refillable)

**Example**

```
NTE|2| |The instructions present in this field refer to refillable
prescriptions only. This information may b
NTE|2| |e found in the outpatient site file number 59.
```

This segment, NTE |2|, may repeat as necessary to include all RF patient instructions and, if present, will always follow the NTE|1| segment.

This is not a required segment and will only be present if data is available.

**SIG (Instructions) NTE Segment Definition Table** **Set ID=7**

When the CMOP WARNING LABEL SOURCE is “New”, additional fields are added to this segment for the SIG.

SEQ#	LEN	DT	R/O	RP/#	Element Name in Notes and Comments
1	4	ST	R		Set ID
2	100	ST	R		RX Number
3	3	ST	R		Language Code
4	2	NM	R		Record Number
5	80	ST	R		Text

**Example**

```
RX1|500-300997-1|||||21||T0034^THIORIDAZINE HCL 10MG
TAB^L|11|2006112
8|11||20071129|20061208|300997|||TAKE ONE TABLET BY MOUTH TWICE A DAY FOR 7
DAYS, THEN TAKE ONE TABLET AT
NTE|7|300997|ENG|1|BEDTIME FOR 7 DAYS
NTE|7|300997|SPA|1|TAKE UNO TABLET BY MOUTH TWICE A DAY PARA 7 DIAS, THEN
TAKE UNO TABLET AT
NTE|7|300997|SPA|2|BEDTIME PARA 7 DIAS OTHER LANGUAGE PATIENT INSTRUCTIONS
WOULD HAVE BEEN
NTE|7|300997|SPA|3|ENTERED HERE
```

This segment, NTE|7|, may repeat as necessary to include all the SIG (instructions) and, if present, will always follow the related RX1 segment.

**Patient Additional Street Address Segment Definition Table** **Set ID=8**

SEQ#	LEN	DT	R/O	RP/#	Element Name in Notes and Comments
1	4	ST			Set ID
3	120	ST	R		Additional Address Information

**Example of Patient Data with Temporary Address Information:**

```
PID||000579013^1^M11|CMOPPATIENT3^ONE||||123 OAK ST.^PLANO^TX^75024 (or
75025-9999)
NTE|8||1\F\19930115\F\Street Address line 3\R\Street Address line 4\R\Street
Address line 5
```

**Example of Patient Data with NO Temporary Address Information:**

```
PID||000579013^1^M11|CMOPPATIENT3^ONE||||123 OAK ST.^PLANO^TX^75024
NTE|8||\F\F\Street Address line 3\R\Street Address line 4\R\Street Address
line 5
```

This segment, NTE|8|, lists additional address information for the patient and, if present, will follow the related PID segment.

Additional Address Information Data Fields:

SEQ#	LEN	DT	R/O	RP/#	Element Name in Notes and Comments
1	1	NM	R		Temporary Address (1=yes)
2	8	DT	R		Temporary Until (Date YYYYMMDD)
3	35	ST	R	Y/2	Additional Street Address <i>[This field may repeat twice if necessary.]</i>

Patient Warning Label Text Segment Definition Table

Set ID=11

SEQ#	LEN	DT	R/O	RP/#	Element Name in Notes and Comments
1	4	ST	R		Set ID
2	20	ST	R		RX Number
3	3	ST	R		Language Code
4	2	NM	R		Record Number
5	265	ST	R		Warning Label Text

Example of Warning Label Text:

NTE|11|300997|ENG|1N|May cause drowsiness. Alcohol may intensify this effect.

Use care when operating a car or dangerous machines.

NTE|11|300997|ENG|77N|Warning: Do not use while you are breastfeeding. Consult your doctor or pharmacist.

Enter RETURN to continue or '^' to exit:

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NTE|11|300997|ENG|13N|It is very important that you take or use this exactly as directed. Do not skip doses or discontinue unless directed by your doctor.

NTE|11|300997|ENG|14N|Obtain medical advice before taking non-prescription drugs as some may affect the action of this medication.

NTE|11|300997|ENG|20|CAUTION: Federal law prohibits the transfer of this drug to any person other than the patient for whom it was prescribed.

NTE|11|300997|SPA|1N|Puede causar somnolencia. El alcohol puede intensificar este efecto. Tenga cuidado cuando conduzca vehiculos automotores u opere maquinaria peligrosa.

NTE|11|300997|SPA|77N|Advertencia: No lo use mientras amamante. Consfultelo a su mdico o farmaceutico.

NTE|11|300997|SPA|13N|Es muy importante que lo tome o lo use exactamente segfn las indicaciones. No omita ninguna dosis ni lo deje de usar a menos que lo mande el mdico.

NTE|11|300997|SPA|14N|Consulte a un profesional de la salud antes de tomar medicamentos sin receta mdica ya que algunos pueden afectar la acciñ de este medicamento.

NTE|11|300997|SPA|20|PRECAUCION: La ley federal prohíbe la transferencia de este medicamento a otro paciente para el que no fue recetado.

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## General Acknowledgment Message

The protocol software of the responding system sends a General Acknowledgment message to the sender upon receiving a complete patient order. The General Acknowledgment message consists of a message header (MSH) segment and a message acknowledgment (MSA) segment.

### Message Acknowledgment Segment—MSA

#### Segment Definition Table

SEGMENT	SEQ#	LEN	DT	R/O	RP/#	Element Name
MSA	1	2	ST	R		Acknowledgment Code
	2	20	ST	R		Message Control ID
	3	80	ST			Text Message

Data elements included in the MSA segment are

Acknowledgment code—Indicates the status of the patient order. Designations are  
AA-accepted  
AE-error (not currently used by this application)  
AR-rejected

Message Control ID—the ID of the message sent by the sending system which allows the sending system to associate this response with the message for which it is intended.

Text Message—Text information that further describes an error condition.

#### Example of General Acknowledgment Message (Accepted)

```
MSH|^~\&|VENDOR||DHCP||199211091600||ACK|Z96748|P|2.1|
MSA|AA|106-247-2567|
```

The “AA” code in the MSA segment indicates the message was accepted by the application. The segment acknowledges the message that VistA sent as 106-247-2567.

#### Example of General Acknowledgment Message (Error Condition)

```
MSH|^~\&|VENDOR||DHCP||199211091600||ACK|Z96748|P|2.1|
MSA|AR|106-247-2567|FORMAT ERROR
```

The AR code in the MSA segment indicates an error condition was detected by the application during data validation of the message, and the message was rejected, not accepted, by the receiver.

## Transaction Specifications

The message header segment (MSH) and the patient identification (PID) segment are present once for each patient order message. The common order (ORC) segment and the pharmacy order segments (RX1, ZX1) are present for each prescription/item contained in the patient order. The NTE segments containing the multi-Rx information, suspense notification information, and additional street address, if present, will follow the PID segment and precede the first occurrence of the ORC segment. The minimum segments required for a patient order message are MSH, PID, ORC, RX1, and ZX1.

The following is a description of the data transmitted to the non-VistA system from the VistA CMOP application. When a patient order transaction, is complete and ready for transmission to the non-VistA system, the ORM message will consist of the following segments.

<u>ORM</u>	<u>ORDER MESSAGE</u>
MSH	Message Header
PID	Patient Identification
NTE	Notes and Comments
ORC	Common Order
RX1	Pharmacy Order
ZX1	VA Specific Pharmacy Information

### Example:

```
MSH|^~\&|DHCP|VENDOR||199209150415||ORM|106-247-2567|P|2.1|
PID||000579013^1^M11|CMOPPATIENT3^ONE|||123 OAK ST.^PLANO^TX^75024
NTE|5|104728\F\ACETAMINOPHEN 325mg\F\3\F\19930731\F\521-17843
NTE|5|947\F\NIACIN 25mg\F\1\F\19930228\F\521-209678
NTE|6|1267218A\F\VERAPAMIL 120mg TAB
NTE|6|8473C\F\PREDNISON 20mg TAB
NTE|8|Street Address line 3\R\Street Address line 4\R\Street Address line 5
ORC|NW|
RX1|521-10170-1|||30||218A^ RANITIDINE 100mg ^L|||5|19921225|3|||
19930630|
19921230|10170|||TAKE 2 TABLET(S) BY MOUTH EVERY DAY FOR 7 DAYS, THEN TAKE 3
TABLET(S) EVERY DAY
NTE|7|10170|ENG|1|THEN TAKE 1 TABLET TWICE A DAY FOR 3 DAYS, THEN TAKE 2
TABLET(S) FOR PAIN
NTE|11|300551A|ENG|13N|It is very important that you take or use this exactly
as directed. Do not skip doses or discontinue unless directed by your doctor.
ZX1|10170|521^BIRMINGHAM|M|1|(1 of 2)|OPPROVIDER31,TWO|1|(674/1874)|
199201251301|1|1|1|30|19920630|521-107396||SC50|CARDIOLOGY
```

NTE segments with set ID's 5, 6, and 8 will be present, if and only if, data is available.

NTE segment set ID 11 is only present if the CMOP WARNING LABEL SOURCE is set to "New".

The non-VistA system then sends a General Acknowledgment message (MSA segment) back to the CMOP system.

## Batch Transmissions

SEGMENT	SEQ #	LEN	DT	R/O	RP/#	ELEMENT NAME
BHS	1	1	ST	R		Batch Field Separator
	2	3	ST	R		Batch Encoding Characters
	3	15	ST			Sending Application
	5	15	ST			Receiving Application
	7	19	TS			Date/Time Message
	9	7	ID	R		Message Type
	10	20	ST	R		Batch Reference ID*
	11	1	ID	R		Processing ID
	12	8	NM	R		Version ID

\*Batch Reference ID The facility ID number followed by a hyphen and the transmission number for the medical center. This ID uniquely identifies the transmission.

BTS This segment defines the end of a batch.

The HL7 Batch Transmission protocol will be used to transmit a group of patient orders from the same facility. The following is an example of a batch transmission.

### Example:

```

BHS|^~\&|DHCP|VENDOR||199209160415||ORM|106-247|P|2.|
NTE|1||Site#\S\Division Name\S\Institution\F\Street Address\S\Other
Street\S\City\S\State Code\S\ZIPcode (99999 or 99999-9999)\F\Phone(999)999-
9999
NTE|2||The instructions present in this field refer to refillable
prescriptions only. This information may b
NTE|2||e found in the outpatient site file number 59.
NTE|3||The instructions present in this field refer to non-refillable
prescriptions only and may be found i
NTE|3||n the outpatient site file number 59.
NTE|4||This is an example of the prescription copayment narrative information
entered in the outpatient sit
NTE|4||e file. This information will advise patients of telephone contact
numbers available for inquires.
MSH|^~\&|DHCP|VENDOR||199209150415||ORM|106-247-2567|P|2.1|
PID||000579013^1^M11||CMOPPATIENT3^ONE||||123 OAK ST.^PLANO^TX^75024
NTE|5||104728\F\ACETAMINOPHEN 325mg\F\3\F\19930731\F\521-4219
NTE|5||947\F\NIACIN 25mg\F\1\F\19930228\F\521-67438
NTE|6||1267218A\F\VERAPAMIL 120mg TAB
NTE|6||8473C\F\PREDNISONE 20mg TAB
ORC|NW|
RX1|521-10170-1|||||||30||218A^ RANITIDINE 100mg ^L||||5|19921225|3|||
19930630|
19921230|10170|||TAKE ONE TABLET THREE TIMES A DAY AFTER MEALS
ZX1|10170|521^BIRMINGHAM^7|M|1|(1 of 2)|OPPROVIDER,TWO|1|(674/1874)|19920125|
1|1|1|30||521-107396|WARN|SC50|CARDIOLOGY
MSH|. . . (multiple patient orders will follow)
.
.
.
BTS|

```

NTE segments with set IDs 2,3, and 4 will be present, if and only if, data is available.