PHARMACY BENEFITS MANAGEMENT (PBM)

USER MANUAL

Version 4.0
June 2005

(Revised December 2006)

Department of Veterans Affairs
VistA Health Systems Design & Development

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.

Date	Revised Pages	Patch Number	Description
12/2006	100-102	PSU*4*10	Updated Allergies/Adverse Events Information Statistics chart in section 4.11.1 Statistics Format and updated the example of the MailMan messages in section 4.11.2 Example MailMan Messages for patch PSU*4*10. (C. Greening, P.M., G. Werner, Tech. Writer)
02/2006	iv, 115-132	PSU*4*3	PBM Extract Enhancements #3 project. Added Section 5. to Table of Contents. Added Section 5. HL7 Messages and 5.1. Data Specifications. Updated Glossary to include definitions of HL7 and HLO, and for page numbering purposes. Updated Index to include items from new section on HL7 Messages, and for page numbering purposes. (R. Singer, P.M., M. Newman, Tech. Writer)
06/2005	All		Original Release of PBM V. 4.0 User Manual (T. Holley, P.M., C. McCollister, Tech. Writer)

(This page included for two-sided copying.)

4.11 Allergies/Adverse Events Extract

The Allergies/Adverse Events extract collects allergy and adverse reactions documented for a patient.

Allergy and adverse reaction data documented for a patient is extracted using the verification date/time for the reporting period. Only verified allergy and adverse reactions are extracted in this manner.

The following data is not extracted:
- Allergy or adverse reactions marked as entered in error.
- Allergy or adverse reactions entered for a test patient, identified by having five leading zeros in the SOCIAL SECURITY NUMBER field (#.09) and/or having the TEST PATIENT INDICATOR field (#.6) set to "Yes" in the PATIENT file (#2).
- Allergy or adverse reactions to an immunization recorded in the PCE application.

Allergy or adverse reactions shall only be extracted from the PATIENT ALLERGIES file (#120.8). All event date/time(s) recorded in the ADVERSE REACTION REPORT file (#120.85) within the reporting period for a verified allergy/adverse reaction shall be extracted.

4.11.1 Statistics Format

Specific data elements are extracted for allergy and adverse reactions. The following chart explains the format for Allergies/Adverse Events Information Statistics as they appear in the MailMan message.

ALLERGIES/ADVERSE EVENTS INFORMATION STATISTICS DATA FIELD SPECIFICATIONS				
DATA ELEMENT	**FILE #**	**FIELD #**	**PIECE # IN RECORD SENT**	**DESCRIPTION**
Allergy/Adverse Event ID = Facility station number + IEN in Patient Allergies File	INSTITUTION file (#4) PATIENT ALLERGIES file (#120.8)	STATION NUMBER field (#99)	2	The facility is the default institution found in the MailMan domain site parameters. The facility station number will be concatenated with the IEN of the Allergy/Adverse Event in the Patient Allergies file to create the Allergy/Adverse Event ID.

ALLERGIES/ADVERSE EVENTS INFORMATION STATISTICS DATA FIELD SPECIFICATIONS

DATA ELEMENT	FILE #	FIELD #	PIECE # IN RECORD SENT	DESCRIPTION
Patient SSN	PATIENT file (#2)	SOCIAL SECURITY NUMBER field (#.09)	3	If the SSN does not exist, send null.
Patient ICN	PATIENT file (#2)	INTEGRATION CONTROL NUMBER field (# 991.01) ICN CHECKSUM field (#991.02) (Values in both fields are concatenated with a "V".)	4	Free Text. Example: "1010185893V199552" If an ICN does not exist, send null.
Reactant	PATIENT ALLERGIES file (#120.8)	REACTANT field (#.02)	5	User may select from the following files: VA DRUG CLASS file (#50.605) VA GENERIC file (#50.6) DRUG file (#50) DRUG INGREDIENTS file (#50.416) GMR ALLERGIES file (#120.82)
Reactant File	PATIENT ALLERGIES file (#120.8)	GMR ALLERGY field (#1)	6	When the user selects a reactant from one of the files listed above, the file number will be extracted..
Allergy Type	PATIENT ALLERGIES file (#120.8)	ALLERGY TYPE field (#3.1)	7	Internal Format. "D" for Drug "F" for Food "O" for Other or combination, such as "DF" for Drug, Food
Origination Date/time	PATIENT ALLERGIES file (#120.8)	ORIGINATION DATE/TIME field (#4)	8	Internal Format (date). Example: "3011001.0900"
Originator's Service/Section	SERVICE/SECTION file (#49)	NAME field (#.01)	9	Internal Format (free text). Example: "NURSING"

ALLERGIES/ADVERSE EVENTS INFORMATION STATISTICS DATA FIELD SPECIFICATIONS				
DATA ELEMENT	**FILE #**	**FIELD #**	**PIECE # IN RECORD SENT**	**DESCRIPTION**
Observed/Historical Flag	PATIENT ALLERGIES file (#120.8)	OBSERVED/HIST ORICAL field (#6)	10	Internal Format. "o" for Observed "h" for Historical
Mechanism	PATIENT ALLERGIES file (#120.8)	MECHANISM field (#17)	11	Internal format. "A" for Allergy "P" for Pharmacologic "U" for Unknown
Event Date/Time	ADVERSE REACTION REPORTING file (#120.85)	DATE/TIME OF EVENT field (#.01)	12	Internal Format (date). Example: "3011001.0900"
Observed – Severity	ADVERSE REACTION REPORTING file (#120.85)	SEVERITY field (#14.5)	13	External format. Mild Moderate Severe
Sign/Symptom(s)	REACTIONS multiple (#10) in PATIENT ALLERGIES file (#120.8)	REACTION sub-field (#.01) **or** OTHER REACTION sub-field (#1) (Free text)	14-19	If the sign/symptom entered in the REACTION sub-field (#.01) equals "OTHER REACTION", the value for the sign/symptom shall be extracted from the OTHER REACTION sub-field (#1). This is where the free text sign/symptom is stored.

Note: Pieces 14-19 of this record will repeat for each sign/symptom. The record will allow for up to six sign/symptoms to be extracted and transmitted.

4.11.2 Example MailMan Messages

A MailMan message is constructed in a double up-arrow (^^) delimited format as shown in the following example.

Example: Allergies/Adverse Events – Detail Report Message

```
Subj: V. 4.0 PBMAA 30106 1/1 605 JERRY L PETTIS VAMC  [#8672]
08/10/04@11:48  5 lines
From: PBMPHARMACIST,TWO  In 'IN' basket.   Page 1
-------------------------------------------------------------------------
^60581857^000009999^1012237589V692969^TERAZOSIN^50.6^D^3061002.05^MEDICINE/NEUR

OLOGY^h^P^^^DIZZINESS^^^^^^
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^60581858^000009999^1006029646V215983^PENICILLIN^50.6^D^3061002.0812^NURSING SE
RVICE^h^A^^^RASH^FEVER^^^^^

^60581867^000009999^1008969114V872239^OMEPRAZOLE^50.6^D^3061002.131^MEDICINE/NE
UROLOGY^o^P^3061002^MILD^DIARRHEA^^^^^^

^60581869^000009999^1005629866V604195^ORAL CONTRAST MEDIA^120.82^D^3061002.1358
^MEDICINE/NEUROLOGY^h^P^^^DIARRHEA^^^^^^

^60581925^000009999^1009057832V771463^PENICILLIN^50.6^D^3061005.1238^NURSING SE
RVICE^h^A^^^DYSPNEA^RASH^SWELLING^^^^

^60581926^000009999^1002670370V354180^INTRAVASCULAR CONTRAST MEDIA^120.82^D^306
1005.1331^NURSING SERVICE^h^A^^^RASH^^^^^^

^60581942^000009999^1012385894V929522^PENICILLIN^50.6^D^3061006.1012^NURSING SE
RVICE^h^P^^^DYSPNEA^RASH^SWELLING^^^^
```

Example: Allergies/Adverse Events –Timing Report Message

```
Subj: PBM TIMING for report JUN 01, 2001 to JUN 30, 2001 from 605 JERRY
[#8673] 08/10/04@11:48  6 lines
From: PBMPHARMACIST,TWO  In 'IN' basket.   Page 1
--------------------------------------------------------------------------------
Allergies/Adverse Ev   AUG 10,2004@11:47   AUG 10,2004@11:48   0 hrs,  1 min
--------------------------------------------------------------------------------

**NOTE:  Timing for the Provider Data extract is not recorded when
        the IV, Unit Dose, Prescription, and Patient Demographics extracts
        are run concurrently.
```

Example: Allergies/Adverse Events – Confirmation Message

```
Subj: PBM Stats for JUN 01, 2001 to JUN 30, 2001 from 605 JERRY L PETTI
[#8674] 08/10/04@11:48  6 lines
From: PBMPHARMACIST,TWO  In 'IN' basket.   Page 1
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The chart below shows the package(s) whose dispensing statistics were extracted
by the PBM Manual Pharmacy Statistics option.

PACKAGE                      # Line items     # MailMan msgs
--------------------------------------------------------------------------------
Allergies/Adverse Events          7              1
```