

## MCMP-PAT (Performance Assessment Tool) Import File Specifications

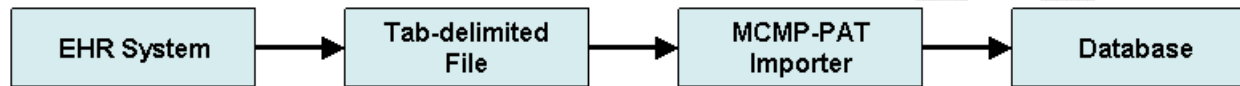
### Purpose

This document describes the file format required by MCMP-PAT, the data abstraction tool for the MCMP (Medicare Care Management Performance) demonstration, in order to import data. There are two different tables that may be imported into MCMP-PAT: patient and patient visits. The valid columns and the constraints for each table are listed in the grids below.

### Import Process

MCMP-PAT does not directly interact with any EHR system. In order to transfer existing data into MCMP-PAT, the EHRS needs to export it into a tab-delimited text file in a certain format. MCMP-PAT will then read the tab-delimited file, check it for errors and import the data.

The diagram below shows the import process.



### Requirements

- Each table must be exported into a separate file.
- The performance year must be specified to determine the correct dates to include in the export. Below are the measurement periods for the different performance years.

Performance Year	Start Date	End Date
Baseline year	1/1/2006	12/31/2006
Performance Year 1	7/1/2007	6/30/2008
Performance Year 2	7/1/2008	6/30/2009
Performance Year 3	7/1/2009	6/30/2010

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### Filtering (optional)

MCMP-PAT can export data into a tab-delimited file with information regarding individual patients. For an EHR, this information will be useful in determining which patient and topic to export to a tab-delimited file. Here are some of the filters that may be applied:

- Include only patients with existing PatIDHIC in the database.
- Include only measure results on a topic on patients with positive number in the Order column (see sample export output). For example if a patient’s CADOrder field has been set to negative one (-1), then there is no need to look for measure results under CAD for this particular patient.
- Look for measure results on a child column only if the parent column has met the condition. See the relationships of the DMBPMeasure and DMBPDate columns in the Patient Table grid as an example.

### Sample MCMP-PAT Export Output

PatIDHIC	DMOrder	HFOrder	CADOrder	PCBPMeasureOrder	PCMammogramOrder	PCFOBTPerformOrder	PCFluShotOrder	PCPneumoShotOrder
22222222A	1	8	5	-1	2	-1	5	6
33333333B	2	32	4	7	4	1	4	8
44444444C	3	-1	-1	51	-1	-1	-1	-1

### General Rules When Importing Data

- Required columns must exist. Other columns may be omitted in the import file.
- Required columns must have values.
- The values or combination of values of required columns must be unique for each row in the import file.
- There must be no duplicate column names.
- There must be no extra column names in a table. For example, a column named “LastName” will cause an error if the table to be imported is Patient Visit.
- Column names are not case sensitive.
- Column names do not have to be in a certain order.
- Null values will be ignored.
- Invalid values will be ignored.
- Use zero (0) to represent an unknown lab or blood pressure value.
- Use “x” or “X” to represent an unknown date. The DateOfBirth column under the Patient table and the HFPCVisitDate under the Patient Visit table are exceptions as they do not allow unknown dates.

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### Field Values

0	No - No Reason Doc.
1	Yes
2	Skip
3	No - Med. Reasons
4	No - Pt. Reasons
5	No - Sys. Reasons

### Grid Description

Column Name	Describes the name of the column.
Data Type	Describes that type of data that is acceptable for the column.
Max. Chars	Determines the maximum number of characters for the column. Used only for columns of type TEXT.
Min. Value	Determines the minimum value for columns of type INTEGER and DECIMAL.
Max Value	Determines the maximum value for columns of type INTEGER and DECIMAL.
Valid Values	List of values that are acceptable for the column. Used only for columns of type INTEGER.
Unknown Value	Describes the valid digit or character that represents an unknown value for the column.
Comments	Additional information for the column.

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### Patient Table

The column names in this table are indented to show the parent-child relationships or dependencies of the columns.

- Patients may only be updated during the import process.
- If a PatIDHIC to be imported is not found in the database, the data for that row will not be imported.

Column Name	Data Type	Max Chars	Min Value	Max Value	Valid Values	Unknown Value	Parent Column Name & Value	Comments
<b>Demographics</b>								
PatIDHIC	TEXT	30						REQUIRED. Value must exist in the database.
LastName	TEXT	20						
FirstName	TEXT	20						
DateOfBirth	DATE							Must be in MM/DD/YYYY format. "X" is not allowed.
Gender	INTEGER				1, 2, 3			1 = Male 2 = Female 3 = Unknown
MRNumber	TEXT	25						
PatIDOther	TEXT	20						
ClinicNumber	TEXT	30						If supplied, must exist in the Clinic table.
ProviderNumber	TEXT	30						If supplied, must exist in the Provider table.
Comments	TEXT	250						
<b>Diabetes</b>								
DMConfirmed	INTEGER				0, 1, 2, 3			If 0, 2 or 3, no need to set the values of DM columns. This is the parent column of all columns under the DM topic.
DMHbA1cTest	INTEGER				0, 1			
DMHbA1cDate	DATE					X	DMHbA1cTest=1	Must be in MM/DD/YYYY format
DMHbA1cValue	DECIMAL		1	25		0	DMHbA1cTest=1	
DMBPMeasure	INTEGER				0, 1			
DMBPDate	DATE					X	DMBPMeasure=1	Must be in MM/DD/YYYY format
DMBPSystolic	INTEGER		0	350		0	DMBPMeasure=1	
DMBPDiastolic	INTEGER		0	200		0	DMBPMeasure=1	
DMLDLCTest	INTEGER				0, 1			
DMLDLDate	DATE					X	DMLDLCTest=1	Must be in MM/DD/YYYY format
DMLDLValue	INTEGER		1	500		0	DMLDLCTest=1	
DMNephropathy	INTEGER				0, 1, 2			

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Column Name	Data Type	Max Chars	Min Value	Max Value	Valid Values	Unknown Value	Parent Column Name & Value	Comments
DMEyeExam	INTEGER				0, 1, 2			
DMFootExam	INTEGER				0, 1, 3			
<b>Heart Failure</b>								
HFConfirmed	INTEGER				0, 1, 2			If 0 or 2, no need to set the values of HF columns
HFLVFRresult	INTEGER				0, 1			
HFHospital	INTEGER				0, 1, 2			
HFLVFYear	INTEGER				0, 1, 3, 4		HFHospital=1	
HFPTeducation	INTEGER				0, 1			
HFCADLVSD	INTEGER				0, 1			Used under HF and CAD topics
HFBBlockDrug	INTEGER				0, 1, 3, 4, 5		HFCADLVSD=1	
HFACEARBDDrug	INTEGER				0, 1, 3, 4, 5		HFCADLVSD=1	
HFAFib	INTEGER				0, 1			
HFWarfDrug	INTEGER				0, 1, 3, 4, 5		HFAFib=1	
<b>Coronary Artery Disease</b>								
CADConfirmed	INTEGER				0, 1, 2			If 0 or 2, no need to set the values of CAD columns
CADAntiplatDrug	INTEGER				0, 1, 3, 4, 5			
CADLDLCDrug	INTEGER				0, 1, 3, 4, 5			
CADMI	INTEGER				0, 1			
CADBBBlockDrug	INTEGER				0, 1, 3, 4, 5		CADMI=1	
CADLipid	INTEGER				0, 1, 2			
CADLDLCTest	INTEGER				0, 1			
CADLDLCDate	DATE					X	CADLDLCTest=1	Must be in MM/DD/YYYY format
CADLDLCValue	INTEGER		1	500		0	CADLDLCTest=1	
CADDiabetes	INTEGER				0, 1			
[blank]								This blank row is a placeholder for the column HFCADLVSD. This column name must only exist once but may be used under HF and CAD.
CADACEARBDDrug	INTEGER				0, 1, 3, 4, 5		CADDiabetes=1 OR HFCADLVSD=1	This is dependent on both CADDiabetes and HFCADLVSD

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Preventive Care							
PCConfirmed	INTEGER				0, 1, 2		If 0 or 2, no need to set the values of PC columns
PCMammogram	INTEGER				0, 1, 2, 3		
PCFOBTPerform	INTEGER				0, 1, 3, 4, 5		
PCFluShot	INTEGER				0, 1, 3, 4, 5		
PCPneumoShot	INTEGER				0, 1, 3, 4		

Sample tab-delimited file with ten patients. This example assumes that the measurement period is from 1/1/2005 to 12/31/2005. Not all columns that may be imported are shown here.

PatID	HIC	FirstName	LastName	Gender	DateOfBirth	ClinicNumber	ProviderNumber	MRNumber	DMConfirmed	DMHbA1cTest	DMHbA1cDate	DMHbA1cValue
000111111	X	Testing	Another	1	06/13/1930	Clinic1	N11111	01234567	1	1	06/04/2005	4
123456789	A	Meplez	Try	2	11/08/1935	Clinic2	W44444		0			
444444444	E	Jane	Dontt	2	07/12/1935				1	1	09/08/2005	7
000123456	P	Patient	Test	2	04/05/1945	Clinic3	T77777	03072001A	1	1	10/09/2005	8
333333333	T	Guy	Poor	1	08/08/1954				0			
444444444	R	Gal	Nice	2	04/28/1931	Clinic3	T77777		0			
777777777	P	Bet	Good	1	08/29/1922		W44444		1	1	09/08/2005	5
888888888	Z	Do-Itt	Just	1	08/13/1922				1	1	07/02/2005	4
999999999	X	Beesee	Aye	1	01/20/1937	Clinic1	T77777		1	0		
222222222	X	NewGuy	InDBlock	1	05/05/1980				1	1	05/05/2005	5

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### Patient Visit Table

- Visits may be updated and added during the import process.
- If the values of the PatIDHIC and HFPCVisitDate columns in a row to be imported exist in the database, the existing record is updated with the imported values.
- If the values of the PatIDHIC and HFPCVisitDate columns to be imported do not exist in the database, a new record is added for that visit.

Column Name	Data Type	Valid Values	Max. Chars.	Requirements	Comments
PatIDHIC	TEXT		30		REQUIRED. Value must exist in the Patient table.
HFPCVisitDate	DATE		10	PCCConfirmed=1 OR HFConfirmed=1	REQUIRED. Valid value depends on performance year. Must be in MM/DD/YYYY format. The combination of PatIDHIC and HFPCVisitDate must be unique for each row in the import file. This column does <u>not</u> accept "X" to represent an unknown date.
HFWeight	INTEGER	0, 1, 3		HFConfirmed=1	Used only under the HF topic
PCBPMeasure	INTEGER	0, 1		PCCConfirmed=1	Used only under the PC topic
HFPCInvalid	INTEGER	0, 1			0 = visit is not invalid. 1 = visit is invalid Default value is 0. May only be set to 1 if the visit record is pre-filled. Only pre-filled visits may be marked as invalid. User-added visits can't be marked as invalid.

Sample tab-delimited file for patient visits. This example assumes that the measurement period is from 1/1/2005 to 12/31/2005. The value under the PCBPMeasure column in row 3 will not be imported since it is outside of the valid range. The last row will not be imported since the visit date is outside of the measurement period.

PatIDHIC	HFPCVisitDate	HFWeight	PCBPMeasure	HFPCInvalid
444444444E	09/13/2005	1	1	
444444444E	01/13/2005	0		
999999999X	12/13/2005	1	8	
222222222X	01/10/2005	1	0	1
222222222X	06/01/2002	1		