



## RESOURCE AND PATIENT MANAGEMENT SYSTEM

# **Diabetes Management System**

(BDM)

# Addendum to User Manual

Version 2.0 Patch 7 January 2014 Revised February 2014

Office of Information Technology Division of Information Technology Albuquerque, New Mexico

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# **Document Revision History**

Date	Notes
February 2014	Corrected spelling for Colesevelam.
	Corrected spelling for Prasulgrel.
	<ul> <li>Deletion of Rosiglitazone and Metformin (Avandamet) from the DM Audit GLP-1 Drugs taxonomy and addition to the DM Audit Glitazone Drugs taxonomy.</li> </ul>
	<ul> <li>Addition of Liraglutide (Victoza) to the DM Audit GLP-1 Drugs taxonomy.</li> </ul>

# Preface

The purpose of this guide is to provide Diabetes Program staff with an overview of changes to the Diabetes Management System (DMS) introduced in Patch 7. In addition, instructions are provided to run the electronic version of the 2014 Diabetes Audit, which is included in this patch.

**Note:** Resource and Patient Management System software, including the DMS, is subject to periodic updates based on Indian Health Service Diabetes Standards of Care.

# 1.0 Introduction

### 1.1 DMS Changes

DMS v2.0 p7 contains the 2014 Diabetes Audit. A summary of the changes follows:

- Options have been added for populating taxonomies and running the 2014 Diabetes Audit.
- Options have been added for populating taxonomies and running the 2014 Pre Diabetes audit.
- The Master List has been modified to support the display of sub-totals.
- The user interface for selecting the display of patients when running the Master List report has been changed.
- A column has been added to the cumulative audit to display the denominator of eligible patients used to calculate the % of patients who met the audit criteria.
- New CVX codes have been added to the Influenza definition.
- All urine protein assessments have been removed except for that of Quantitative Urine Albumin/Creatinine Ratio (UACR). All Urine Protein taxonomies except the DM AUDIT QUANT UACR have been removed.
- Sex: An Unknown response option has been added.
- Serum Creatinine has been added back to the Laboratory test display.
- Estimated GFR will be calculated if no test in the BGP ESTIMATED GFR taxonomy is found but a serum creatinine value is found during the audit year.
- A documented medication has been removed from the logic for determining if a patient has HTN.
- Diet Instruction has been renamed Nutrition Instruction. The taxonomy for this measure remains DM AUDIT DIET EDUC TOPICS.
- Exercise instruction has been renamed Physical Activity instruction. The taxonomy for this measure remains DM AUDIT DM EXERCISE EDUC TOPICS.
- SGLT-2 inhibitor (Invokana) has been added as a new taxonomy for diabetes mellitus (DM) Therapy.
- Some changes have been made to the logic used for measuring some audit items. Audit Logic may be displayed using the Display Audit Logic option under the Diabetes Audit QA Menu in either RPMS or Visual DMS. Appendix A: contains the logic used for the 2014 audit.

• Audit Export (Data) file variables for 2014 have changed. Appendix B: lists the variables that have been added and those that have been removed.

## 1.2 Visual DMS Changes

Visual DMS has been updated as follows:

- Only the last four digits of the SSN are displayed when a patient is selected.
- Versions of the audit prior to 2007 have been removed.
- The option to Display Audit Logic has been added to the Diabetes QA Audit Menu.
- The List Labs/Medications used at this Facility Report (LMR) has been added to the Reports menu.
- An option to display Multiple Health Summaries has been added to the menu structure.

# 2.0 **Preparing for the Audit**

There are two important prerequisites when preparing for an electronic audit in RPMS:

- Ensure that patients to be audited are actively receiving care at the healthcare facility.
- Review and update taxonomies of medications, health factors, patient-education topics, and laboratory tests.

## 2.1 Guidelines for Selecting Patients

The Diabetes Program has provided the following guidelines for selecting patients for the 2014 Diabetes Audit.

- Include Patients who:
  - Have a diagnosis of diabetes Type 1 or Type 2.
  - Have at least one visit to a primary care clinic during the Audit period.
     Primary care clinics include:
    - General (01)
    - Diabetic (06)
    - Internal Medicine (13)
    - Pediatric (20)
    - Family Practice (28)
    - Chronic Disease (50)
    - Endocrinology (69)
- Exclude Patients who:
  - Received the majority of their primary care outside your facility during the Audit period.
  - Are currently on dialysis *and* receive the majority of their primary care at the dialysis unit.
  - Have died before the end of the Audit period.
  - Have gestational diabetes.
  - Have pre-diabetes (impaired fasting glucose or impaired glucose tolerance [IGT]) only.
  - Have moved permanently or temporarily (should be documented).

- You are unable to contact, defined as at least three tries in 12 months (should be documented in the medical record).

Keep in mind that unless the diabetes register is updated frequently, some of the patients listed as being in an *Active* status may not qualify to be included in the audit. Identify those patients and exclude them from the audit.

## 2.2 Using the Diabetes Register for the 2014 Diabetes Audit

Use the Diabetes Register for the 2014 audit, excluding patients who do not meet the audit criteria, or create a subset of the Diabetes register including only those patients who meet the audit criteria.

To use patients in the Diabetes Register for the audit, there are several reports available to identify patients currently classified as active but who do not meet the audit criteria.

- Section 2.2.1 shows an option to identify patients in the Register who have a Register Diagnosis of IGT or Gestational Diabetes Mellitus (GDM).
- Section 2.2.2 shows a Q-Man search that can identify patients who have not had a primary care visit during the audit year and therefore do not meet audit criteria of being an active patient.
- When patients who do not meet the definition of active with a diagnosis of Type 1 or Type 2 Diabetes, have been identified, their status may be changed by using the option to Edit Register Data under Patient Management in the DMS. Either the traditional RPMS Patient Management option may be used or **Patient** Management in Visual DMS may be used. See Section 2.2.3 for changing the status of a Registered Patient.

**Note:** When running reports, note that the Indian Health Service (IHS) Division of Diabetes Treatment and Prevention (DDTP) requires that the 2014 audit be submitted be for the calendar year ending December 31, 2013. Reports identifying patients with an active status should be run for a time frame between 1/1/2013 and 12/31/2013.

### 2.2.1 Identifying IHS Diabetes Register Patients with GDM or IGT

The IHS Diabetes Register allows entry of GDM and IGT as Register diagnoses. It has been recommended for a number of years that the IHS Diabetes Register include only patients with a diagnosis of Type 1 or Type 2 Diabetes. Patients with GDM and IGT should be followed via inclusion in another register.

The Q-Man report in Figure 2-1 will retrieve a list of patients in the register who have been given a Register Diagnosis. In this dialogue, a search is made for patients on the register with a Register Diagnosis of GDM. The same script may be used to find patients on the Register who have a Register Diagnosis of IGT.

Q-MAN OPTIONS -> SEARCH PCC Database (dialogue interface) What is the subject of your search? LIVING PATIENTS // REGISTER <Enter> REGISTER Which CMS REGISTER: IHS DIABETES <Enter> Register being checked to update status of deceased patients Select the Patient Status for this report 1 Active 2 Inactive 3 Transient 4 Unreviewed 5 Deceased 6 Non-IHS 7 Lost to Follow-up 8 All Register Patients Which Status(es): (1-8): 1//<Enter> Select the Diabetes Register Diagnosis for this report Select one of the following: Type 1 1 2 Type 2 3 Type 1 & Type 2 4 Gestational DM 5 Impaired Glucose Tolerance 6 All Diagnoses Which Diagnosis: All Diagnoses// 4 <Enter> Gestational DM

Figure 2-1: Q-Man search to identify patients with Register Diagnosis of GDM

Figure 2-2 shows the Q-Man output options and list of patients.

```
***** Q-MAN OUTPUT OPTIONS *****
      Select one of the following:
      1 DISPLAY results on the screen
      2 PRINT results on paper
         COUNT 'hits'
      3
      4
          STORE results of a search in a FM search template
      5
          SAVE search logic for future use
          R-MAN special report generator
      6
         HELP
      9
      0
          EXIT
 Your choice: DISPLAY// 1 <Enter> DISPLAY results on the screen
   ... EXCUSE ME, LET ME PUT YOU ON 'HOLD' FOR A SECOND...
PATIENTS
            CMI*DEV
        NUMBER
```

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```
PATIENT, DEMO I* 29693
Total: 1
```

Figure 2-2: Report Results

**Note:** A patient whose name is marked with an asterisk (\*) may have an alias.

When both reports have been run and lists of patients who are on the Diabetes Register with a diagnosis of GDM or IGT have been produced, use the Edit Register Data under Patient Management in the DMS to change the status of these patients to Unreviewed prior to running the audit.

#### 2.2.2 Identifying Possible Inactive Patients in the IHS Diabetes Register

A simple Q-Man search (Figure 2-3) can identify patients who have not had at least one primary care visit during the 12 months of the audit period. This may be especially useful at sites that have large numbers of patients whose Register status may not be accurate.

```
Q-MAN OPTIONS -> SEARCH PCC Database (dialogue interface)
What is the subject of your search? LIVING PATIENTS // REGISTER <Enter>
Which CMS REGISTER: IHS DIABETES <Enter>
Register being checked to update status of deceased patients.
Select the Patient Status for this report
       Active
    1
      Inactive
     2
       Transient
    3
     4
        Unreviewed
       Deceased
    5
       Non-IHS
     6
       Lost to Follow-up
    7
    8 All Register Patients
Which Status (es): (1-8): 1// <Enter>
Select the Diabetes Register Diagnosis for this report. Select one of the
following:
    1
         Type 1
    2
          Type 2
    3
         Type 1 & Type 2
    4
         Gestational Diabetes
         Impaired Glucose Tolerance
    5
    6
         All Diagnoses
Which Register Diagnosis: All Diagnoses// <Enter>
There are 831 register patients for the combination selected.
Attribute of IHS DIABETES REGISTER: VISIT
SUBQUERY: Analysis of multiple VISITS
```

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First condition of "VISIT": CLINIC <Enter> Enter CLINIC: [BGP PRIMARY CARE CLINICS <Enter> BGP PRIMARY CARE CLINICS] Members of BGP PRIMARY CARE CLINICS Taxonomy => GENERAL DIABETIC INTERNAL MEDICINE PEDIATRIC FAMILY PRACTICE CHRONIC DISEASE ENDOCRINOLOGY Enter ANOTHER CLINIC: <-- You may wish to include Walk In or other clinics you consider to be primary care clinics. The taxonomy BGP Primary Care Clinics are used for GPRA reports and do not include these. The following have been selected => GENERAL DIABETIC INTERNAL MEDICINE PEDIATRIC FAMILY PRACTICE CHRONIC DISEASE ENDOCRINOLOGY Want to save this CLINIC group for future use? No// <Enter> Next condition of "VISIT": DURING THE PERIOD <Enter> Exact starting date: 1/1/13 <Enter> (JAN 01, 2013) Exact ending date: 12/31/13 <Enter> (DEC 31, 2013) Subject of subquery: VISIT CLINIC (GENERAL/DIABETIC...) BETWEEN JAN 1,2013 and DEC 31,2013@23:59:59 Next condition of "VISIT": NULL <Enter> Computing Search Efficiency Rating Subject of search: PATIENTS MEMBER OF 'IHS DIABETES REGISTER-3500' COHORT Subject of subquery: VISIT CLINIC (GENERAL/DIABETIC...) BETWEEN JAN 1,2013 and DEC 31,2013@23:59:59 'NULL' (None meet criteria) Attribute of IHS DIABETES REGISTER: <Enter> \*\*\*\*\* O-MAN OUTPUT OPTIONS \*\*\*\*\* Select one of the following: 1 DISPLAY results on the screen PRINT results on paper 2 3 COUNT 'hits' 4 STORE results of a search in a FM search template SAVE search logic for future use 5 R-MAN special report generator 6

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```
7
           DELIMITED file via screen capture
     9
           HELP
     0
           EXIT
Your choice: DISPLAY//<Enter> results on the screen
 ... EXCUSE ME, LET ME PUT YOU ON 'HOLD' FOR A SECOND...
PATIENTS
            CIM-IH VISIT NUMBER
PATIENT, DEMO A 100005 -
PATIENT, DEMO B* 100011 -
PATIENT, DEMO C* 100013 -
PATIENT, DEMO D 100017 -
PATIENT, DEMO E* 100026 -
PATIENT, DEMO F 100028 -
PATIENT, DEMO G 100030 -
PATIENT, DEMO H 100032 -
PATIENT, DEMO I 100034 -
PATIENT, DEMO J 100064 -
PATIENT, DEMO K 100075 -
PATIENT, DEMO L 100081 -
PATIENT, DEMO M* 100091 -
```

Figure 2-3: Q-Man search for Active Register patients with no visit during audit year

#### 2.2.3 Update Patient Register Status

Update the patient's Register Status in DMS or Visual DMS.

To edit Register Data in DMS:

1. Open the Patient Management menu of DMS.

```
Register Data
                                          Feb 18, 2014 09:06:49 Page: of 1
         PATIENT: DEMO, PATIENT Q
                                                                                   AGE: 73
                                                                                   DOB: 02/03/1940
          ADDRESS: 50 OAK STREET, ADAIR, OK, 74330
            PHONE: 555-555-0093
                                                                                   HRN: 100052
PRIM CARE PROV: STUDENT, FOURTEEN
                                                                                   RES: ADAIR
          STATUS: ACTIVE
WHERE FOLLOWED:
                                              CASE MGR:
 REGISTER PROV:
          CONTACT: Woman's shelter 567-5309
      ENTRY DATE: JUL 12,2011
                                                                         LAST EDITED: FEB 18,2014
      DIAGNOSIS: TYPE 2
                                                                         ONSET DATE: MAR 1,1999
COMPLICATIONS: CARDIOVASCULAR DISEASE
                                                                         ONSET DATE: DEC 14,2002

Previous Screen Q Quit ?? for More Actions
Edit Register Data 8 DIABETES Medications 15 DIABETES Lab Profile
Complications 9 Review Appointments 17 Pat. Face Sheet
Comments 10 Audit Status 19 Local Option Entry
Health Summary 11 Flow Sheet 20 Diagnosis
Last Visit 12 Case Summary 21 Print Letter
Other PCC Visit 13 Edit Problem List
Medications 14 Lab Profile
```

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Select Action: Quit// 1

Figure 2-4: Selecting 1 Edit Register Data to change Register Status

2. At the "Select Action" prompt, type **1** and press Enter.

Register Data	Feb 18,	2014 09	:06:49	]	Page:	1 0:	£	1
PHOME: 55 STATUS: UN CASE MANAGE	OAK STREET,ADAIR 5-555-009 REVIEWED	, ok , 7433(	)		HRN:	55 11/11/3 100052 3681	1957	
REGISTER PROV: WHERE FOLLOWED:								
	man's shelter 567	-5309						
ENTRY DATE: JU	L 12,2011		LAST	EDITED:	FEB	18,2014		
LAST REVIEW: JU	L 12,2011		NEXT	REVIEW:	OCT	12,2011		
DM AUDIT LOCAL OPTION CODE: DM AUDIT LOCAL OPTION TEXT:								
Exit Save	Refresh							-
Enter a command or	'^' followed by	a caption	ı to jı	ump to a	spec	ific fie	eld.	
COMMAND: S to save	followed by E to	exit	Press	s <pf1>H</pf1>	for 1	help :	Inser	t

Figure 2-5: Changing Register Status from Active to Unreviewed

- 3. Move the cursor to the Status field and type the new status value over the old one.
- 4. Press the down arrow to move the cursor to the "Command" prompt.
- 5. Type **Save** and press Enter.
- 6. To record the status update, type **Exit** at the "Command" prompt and press Enter. The window will close.

**Note:** There are no official definitions of Register Status although recommendations for classifying Register patients may be provided by the area diabetes program staff. The definitions that follow may be used as a guideline.

- A. Active patients who receive their primary health care at a facility and who have had care at a facility within the last year.
- I. Inactive patients who have not been seen within the last two years.

- **T**. Transient patients seen at the clinic within the past year but who do not receive their primary diabetic care at a facility, but only visit the clinic periodically for medications, or other services.
- U. Unreviewed patients on the Register who have not had a chart audit and medical review.
- **D**. Deceased patients

**Note:** This status will be automatically updated if a date of death is recorded in the patient registration file. If a patient's status is changed to deceased in the Register, the patient registration file is not automatically updated.

- N. Non-IHS patients who receive their diabetic care at a facility.
- L. Lost to follow-up patients seen at a facility within the past two years but who have not had a visit in the last year.
- N. Noncompliant patients with repeated documented refusals of recommended services.

#### 2.3 Creating a Template of Patients for the 2014 Diabetes Audit

If the IHS Diabetes Register is not current or has not been routinely used for management of patients with diabetes, it may be advantageous to use a Q-Man search to identify patients with diabetes who have had a visit to a primary care clinic during the audit period. The template (Figure 2-6) created from this query can be used to run the 2014 Diabetes Audit. One may run the Q-Man search using either the general patient population (Section 2.3.1) or the Diabetes Register (Section 2.3.2).

#### 2.3.1 Creating a Template using the General Population

The Q-Man search in Figure 2-6 shows the creation of a template looking for patients with at least one diagnosis of diabetes during the audit period and who have had at least one visit to a primary care clinic during the audit period.

What is the subject of your search? LIVING PATIENTS // <Enter> LIVING
PATIENTS <-- If you have a Diabetes Register, you may choose to begin with
that register.
Subject of search: PATIENTS ALIVE TODAY
Attribute of LIVING PATIENTS: VISIT <Enter>
SUBQUERY: Analysis of multiple VISITS
First condition of "VISIT": CLINIC <Enter>

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```
Enter CLINIC: [BGP PRIMARY CARE CLINICS BGP PRIMARY CARE CLINICS]
Members of BGP PRIMARY CARE CLINICS Taxonomy =>
GENERAL
DIABETIC
INTERNAL MEDICINE
PEDIATRIC
CHRONIC DISEASE
FAMILY PRACTICE
ENDOCRINOLOGY
Enter ANOTHER CLINIC: <--You may add additional clinics like WALK IN,
WOMENS HEALTH
The following have been selected =>
     GENERAL
    DIABETIC
    INTERNAL MEDICINE
    PEDIATRIC
     CHRONIC DISEASE
     FAMILY PRACTICE
    ENDOCRINOLOGY
Want to save this CLINIC group for future use? No// <Enter> (No)
Next condition of "VISIT": DURING THE PERIOD
Exact starting date: 1/1/2013 (JAN 01, 2013)
Exact ending date: 12/31/2013 (DEC 31, 2013)
     Subject of subquery: VISIT
     CLINIC (GENERAL/DIABETIC...)
    BETWEEN JAN 1,2013 and DEC 31,2013@23:59:59
Next condition of "VISIT": DX <Enter>
  1 DX
   2 DX PROCEDURE
CHOOSE 1-2: 1 <Enter>
Enter DX: 250.00-250.93
 250.00 DIABETES II/UNSPEC NOT UNCONTR
    ...OK? Yes// <Enter> (Yes)
 250.93 DIAB W/COMP I/JUV UNCONT COMPLICATION/COMORBIDITY
     ... OK? Yes// <Enter> (Yes)
Codes in this range =>
250.00 DIABETES II/UNSPEC NOT UNCONTR
250.01 DIABETES I/JUV NOT UNCONTRL
250.02 DIABETES TYPE II/UNSPEC UNCON
250.03 DIABETES I/JUV UNCONTRL
250.10 DIAB W/KET TYPEII/UNSP CONT
250.11 DIAB W/KET TYPI JUV/NOT UNCONT
250.12 DIAB W/KET TYPII/UNSPC UNCONT
250.13 DIAB W/KET TYPEI JUV UNCONT
250.20 DIAB W/HYPER TYPII/UNSP CONT
250.21 DIAB W/HYPR TYPI/JUV CONT
250.22 DIAB W/HYPR TYPII/UNSP UNCONT
250.23 DIAB W/HYPR TYPI/JUV UNCONT
```

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250.30 DIAB W/OTH COMA II/UNSPE CONT 250.31 DIAB W/OTH COMA TYPI/JUV CONT 250.32 DIAB W/OTH COMA TYII/UNSP UNCT 250.33 DIAB W/OTH COMA TYI/JUV UNCONT 250.40 DIAB W/RENAL TYII/UNSPEC CONT 250.40 DIAB W/RENAL TITT/JUV CONT 250.41 DIAB W/RENAL TYI/JUV CONT 250.42 DIAB W/RENAL II/UNSPEC UNCONT 250.43 DIAB W/RENAL I/JUV UNCONT 250.50 DIAB W/OPHTH II/UNSPEC CONT 250.51 DIAB W/OPHTH I/JUV CONT 250.52 DIAB W/OPHTH II/UNSPEC UNCONT 250.53 DIAB W/OPHTH I/JUV UNCONT 250.60 DIAB W/NEUR II/UNSPEC CONT 250.61 DIAB W/NEUR I/JUV CONT 250.62 DIAB W/NEUR II/UNSPEC UNCONT 250.63 DIAB W/NEUR I/JUV UNCONT 250.70 DIAB W/CIRC DISOR II/UNSP CONT 250.71 DIAB W/CIRC DISOR I/JUV CONT 250.72 DIAB W/CIRC DISOR II/UNSP UNCN 250.73 DIAB W/CIRC DISOR I/JUV CONT 250.80 DIAB W/OTHER II/UNSPEC CONT 250.81 DIAB W/OTHER I/JUV CONT 250.82 DIAB W/OTHER II/UNSPEC UNCONT 250.83 DIAB W/OTHER I/JUV UNCONT 250.90 DIAB W/COMP II/UNSPEC CONT 250.91 DIAB W/COMP I/JUV CONT 250.92 DIAB W/COMP II/UNSPEC UNCONT 250.93 DIAB W/COMP I/JUV UNCONT Code Range(s) Selected So Far => 1) 250.00 - 250.93 Enter ANOTHER DX: Want to save this DX group for future use? No// <Enter> (No) Subject of subquery: VISIT CLINIC (GENERAL/DIABETIC...) BETWEEN JAN 1,2013 and DEC 31,2013@23:59:59 POV (250.01/250.11...) Next condition of "VISIT": LOCATION OF ENCOUNTER <Enter> <- This condition only needs to be used if you are part of a multidivisional database. Enter ENCOUNTER LOCATION: CMI\*DEV <Enter> OKLAHOMA TEST FACILITY 01 OK 102345 Enter ANOTHER ENCOUNTER LOCATION: The following have been selected => CMI\*DEV Subject of subquery: VISIT CLINIC (GENERAL/DIABETIC...) BETWEEN JAN 1,2013 and DEC 31,2013@23:59:59 POV (250.01/250.11...) LOCATION OF ENCOUNTER (CMI\*DEV) Next condition of "VISIT": <Enter>

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```
Computing Search Efficiency Rating
  Subject of search: PATIENTS
  ALIVE TODAY
    Subject of subquery: VISIT
    CLINIC (GENERAL/DIABETIC...)
    BETWEEN JAN 1,2013 and DEC 31,2013@23:59:59
    POV (250.01/250.11...)
    LOCATION OF ENCOUNTER (CMI*DEV)
            ***** Q-MAN OUTPUT OPTIONS *****
   Select one of the following:
    1
          DISPLAY results on the screen
    2
         PRINT results on paper
    3
         COUNT 'hits'
    4
         STORE results of a search in a FM search template
    5
         SAVE search logic for future use
    6
         R-MAN special report generator
    9
         HELP
     0
          EXIT
Your choice: DISPLAY// 4 <Enter> STORE results of a search in a FM search
template
Enter the name of the SEARCH TEMPLATE: PTS FOR DM AUDIT 14 <Enter>
Are you adding 'PTS FOR DM AUDIT 13' as
a new SORT TEMPLATE? No// Y <Enter> (Yes)
DESCRIPTION:
No existing text
Edit? NO//<Enter>
Want to run this task in background? No// <Enter> (No)
PATIENTS
           CMI*DEV
(Alive) NUMBER
-----
ABCDEFG,ABCD* 66666 +
ABDCDEL, ACDE* 77777 +
ABCDEM, ABCDM 888888 +
ABCDES, ABDCS 33333 +
```

Figure 2-6: Q-Man search for patients with diabetes and at least one primary care visit during the audit period

**Note:** FileMan users: This template will be attached to IHS's Patient file.

#### 2.3.2 Creating a Template of Register Patients for the Audit

If a Diabetes Register exists but Register diagnoses and patient status have not been maintained, it may be easier to create a template of active patients on the register who have had at least one visit to a primary clinic during the audit year with a diagnosis of diabetes. The Q-Man search demonstrating how to create that template is shown in Figure 2-7.

```
What is the subject of your search? LIVING PATIENTS // REGISTER REGISTER
    REGISTER
Which CMS REGISTER: IHS DIABETES
Register being checked to update status of deceased patients.
Select the Patient Status for this report
        1
             Active
        2
             Inactive
        3
             Transient
             Unreviewed
         4
             Deceased
         5
             Non-IHS
         6
         7
             Lost to Follow-up
             All Register Patients
         8
Which Status(es): (1-8): 1// 8
Select the Diabetes Register Diagnosis for this report
    Select one of the following:
        1
                 Type 1
        2
                Type 2
        3
                Type 1 & Type 2
        4
                Gestational DM
                 Impaired Glucose Tolerance
         5
                All Diagnoses
         6
Which Register Diagnosis: All Diagnoses// 6 All
Diagnoses.....
There are 74 register patients for the combination selected.
Attribute of IHS DIABETES REGISTER: ALIVE
Alive at least until exactly what date: TODAY//12/31/13 (DEC 31, 2012)
Computing Search Efficiency
Rating.....
  Subject of search: PATIENTS
     MEMBER OF 'IHS DIABETES REGISTER-4104' COHORT
     ALIVE AS OF DEC 31,2013
Attribute of IHS DIABETES REGISTER: VISIT
SUBQUERY: Analysis of multiple VISITS
```

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```
First condition of "VISIT": CLINIC
                                                 VISIT ATTRIBUTES
Enter CLINIC: [ BGP PRIMARY CARE CLINICS BGP PRIMARY CARE CLINICS]
Members of Taxonomy =>
GENERAL
DIABETIC
INTERNAL MEDICINE
PEDIATRIC
CHRONIC DISEASE
FAMILY PRACTICE
ENDOCRINOLOGY
Enter ANOTHER CLINIC:
The following have been selected =>
     GENERAL
     DIABETIC
     INTERNAL MEDICINE
     PEDIATRIC
     CHRONIC DISEASE
     FAMILY PRACTICE
     ENDOCRINOLOGY
Want to save this CLINIC group for future use? No//
                                                       (No)
Next condition of "VISIT": DURING THE PERIOD
                                                           VISIT ATTRIBUTES
Exact starting date: 1/1/2013 (JAN 01, 2013)
Exact ending date: 12/31/2013 (DEC 31, 2013)
         Subject of subquery: VISIT
         CLINIC (GENERAL/DIABETIC...)
         BETWEEN BETWEEN JAN 1,2013 and DEC 31,2013@23:59:59
Next condition of "VISIT": DX

1 DX VISIT ATTRIBUTES

2 DX PROCEDURE VISIT ATTRIBUTES

CHOOSE 1-2: 1 VISIT ATTRIBUTES
Enter DX: 250.00-250.93
       DIABETES II/UNSPEC NOT UNCONTR
         ...OK? Yes// (Yes)
  250.93
            DIAB W/COMP I/JUV UNCONT COMPLICATION/COMORBIDITY
         ...OK? Yes// (Yes)
Codes in this range =>
250.00 DIABETES II/UNSPEC NOT UNCONTR
250.01
         DIABETES I/JUV NOT UNCONTRL
        DIABETES TYPE II/UNSPEC UNCON
250.02
250.03 DIABETES I/JUV UNCONTRL
250.10 DIAB W/KET TYPEII/UNSP CONT
250.11 DIAB W/KET TYPI JUV/NOT UNCONT
250.12 DIAB W/KET TYPII/UNSPC UNCONT
250.13 DIAB W/KET TYPEI JUV UNCONT
250.20 DIAB W/HYPER TYPII/UNSP CONT
```

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250.21 DIAB W/HYPR TYPI/JUV CONT 250.22 DIAB W/HYPR TYPII/UNSP UNCONT 250.23 DIAB W/HYPR TYPI/JUV UNCONT 250.30 DIAB W/OTH COMA II/UNSPE CONT 250.31 DIAB W/OTH COMA TYPI/JUV CONT 250.31 DIAB W/OTH COMA TYII/UNSP UNCT
250.32 DIAB W/OTH COMA TYII/UNSP UNCT
250.33 DIAB W/OTH COMA TYI/JUV UNCONT
250.40 DIAB W/RENAL TYII/UNSPEC CONT
250.41 DIAB W/RENAL TYI/JUV CONT
250.42 DIAB W/RENAL II/UNSPEC UNCONT 250.43 DIAB W/RENAL I/JUV UNCONT 250.50 DIAB W/OPHTH II/UNSPEC CONT 250.51 DIAB W/OPHTH I/JUV CONT 250.52 DIAB W/OPHTH II/UNSPEC UNCONT 250.53 DIAB W/OPHTH I/JUV UNCONT 250.60 DIAB W/NEUR II/UNSPEC CONT 250.61 DIAB W/NEUR I/JUV CONT 250.62 DIAB W/NEUR II/UNSPEC UNCONT 250.63 DIAB W/NEUR I/JUV UNCONT 250.70 DIAB W/CIRC DISOR II/UNSP CONT 250.71 DIAB W/CIRC DISOR I/JUV CONT 250.72DIAB W/CIRC DISOR II/UNSP UNCN250.73DIAB W/CIRC DISOR I/JUV CONT250.80DIAB W/OTHER II/UNSPEC CONT 250.81 DIAB W/OTHER I/JUV CONT 250.82 DIAB W/OTHER II/UNSPEC UNCONT 250.83 DIAB W/OTHER I/JUV UNCONT 250.90 DIAB W/COMP II/UNSPEC CONT 250.91 DIAB W/COMP I/JUV CONT 250.92 DIAB W/COMP II/UNSPEC UNCONT <> 250.93 DIAB W/COMP I/JUV UNCONT Press return to continue Code Range(s) Selected So Far => 1) 250.00 - 250.93 Enter ANOTHER DX: Want to save this DX group for future use? No// (No) Subject of subquery: VISIT CLINIC (GENERAL/DIABETIC...) BETWEEN BETWEEN JAN 1,2013 and DEC 31,2013@23:59:59 POV (250.01/250.11...) Next condition of "VISIT": Computing Search Efficiency Rating.... Subject of search: PATIENTS MEMBER OF 'IHS DIABETES REGISTER-4104' COHORT ALIVE AS OF DEC 31,2013 Subject of subquery: VISIT CLINIC (GENERAL/DIABETIC...) BETWEEN BETWEEN JAN 1,2013 and DEC 31,2013@23:59:59 POV (250.01/250.11...)

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```
***** Q-MAN OUTPUT OPTIONS *****
     Select one of the following:
          1
                   DISPLAY results on the screen
          2
                   PRINT results on paper
          3
                   COUNT 'hits'
          4
                   STORE results of a search in a FM search template
          5
                   SAVE search logic for future use
          6
                   R-MAN special report generator
          7
                   DELIMITED file via screen capture
          9
                   HELP
          0
                   EXIT
     Your choice: DISPLAY// 4 STORE results of a search in a FM search
template
Fileman users please note =>
This template will be attached to IHS' PATIENT file (#9000001)
Enter the name of the SEARCH TEMPLATE: DM REGISTER AUDIT 2014
 Are you adding 'DM REGISTER AUDIT 2014' as
   a new SORT TEMPLATE? No// Y (Yes)
DESCRIPTION:
 No existing text
 Edit? NO//
Next, you will be asked about creating your template in background...
Answer 'YES' to run in background.
To run in background means to pass the template creation job off to
Taskman.
Your terminal will be released so additional RPMS work may be performed
while
the template is being created. When finished, Taskman will send you a
Mailman
message indicating that the job is ready. Then, you may use the template
in
future Qman searches, PGEN, VGEN and other reports that can utilize
templates.
Answer 'NO', to create the search template in foreground.
While the template is being created, data will be displayed to your screen.
When the job has finished, you will have the opportunity to go to PGEN or
VGEN.
Remember ... some templates may take a very long time to finish.
Press ENTER to continue or '^' to quit:
Want to run this task in background? No//
                                            (No)
...HMMM, I'M WORKING AS FAST AS I CAN...
Search template completed...
```

Figure 2-7: Template of patients for the audit using the Diabetes Register

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#### 2.4 Updating Taxonomies

The taxonomies in Figure 2-8 are referenced in the 2014 RPMS Diabetes Audit. The DM AUDIT SGLP-2 taxonomy (item 34 in the list) is the only new one for 2014. Note also that all Urine Protein taxonomies except the DM AUDIT QUANT UACR have been removed:

- DM AUDIT 24HR URINE PROTEIN
- DM AUDIT P/C RATIO TAX
- DM AUDIT SEMI QUANT UACR
- DM AUDIT URINE PROTEIN TAX

Even though the taxonomies may have been updated for the 2013 audit, they must be reviewed and updated again before running the 2014 audit. This is due to new medications being added to the pharmacy formulary, new lab tests offered, and new education topics provided.

TAXONOMIES TO SUPPORT 2014 DIABETES AUDIT REPORTING * Update Taxonomies				
* Updat 1) BGP 2) BGP 3) DM 4) DM 5) DM 6) DM 7) DM 8) DM 9) DM 10) DM 11) DM 12) DM 13) DM 14) DM 15) DM	e Taxo CMS S GPRA AUDIT AUDIT AUDIT AUDIT AUDIT AUDIT I AUDIT I AUDIT I AUDIT I AUDIT I AUDIT I AUDIT I AUDIT I AUDIT I AUDIT I AUDIT	nomies MOKING CESSATION MEDS ESTIMATED GFR TAX ACARBOSE DRUGS ACE INHIBITORS AMYLIN ANALOGUES ANTI-PLATELET DRUGS BILE ACID DRUGS BROMOCRIPTINE DRUGS CESSATION HLTH FACTOR CHOLESTEROL TAX COLESEVELAM DRUGS CREATININE TAX DIET EDUC TOPICS DPP4 INHIBITOR DRUGS EXERCISE EDUC TOPICS	DRUG LABORATORY TEST DRUG DRUG DRUG DRUG DRUG DRUG HEALTH FACTORS LABORATORY TEST DRUG LABORATORY TEST EDUCATION TOPICS DRUG EDUCATION TOPICS	
18)       DM         19)       DM         20)       DM         21)       DM         22)       DM         23)       DM         24)       DM         25)       DM	I AUDIT I AUDIT I AUDIT I AUDIT I AUDIT I AUDIT I AUDIT I AUDIT	EZETIMIBE DRUGS FIBRATE DRUGS FISH OIL DRUGS GLITAZONE DRUGS GLP-1 ANALOG DRUGS HDL TAX HGB A1C TAX INCRETIN MIMETIC INSULIN DRUGS LDL CHOLESTEROL TAX	DRUG DRUG LABORATORY TEST LABORATORY TEST DRUG DRUG	
27) DM 28) DM 29) DM 30) DM 31) DM 32) DM 33) DM	I AUDIT I AUDIT I AUDIT I AUDIT I AUDIT I AUDIT I AUDIT	LOVAZA DRUGS METFORMIN DRUGS MICROALBUMINURIA TAX NIACIN DRUGS NON-HDL TESTS OTHER EDUC TOPICS	DRUG DRUG LABORATORY TEST DRUG LABORATORY TEST EDUCATION TOPICS LABORATORY TEST	

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35)	DM AUDIT SMOKING CESS EDUC	EDUCATION TOPICS
36)	DM AUDIT STATIN DRUGS	DRUG
37)	DM AUDIT SULFONYLUREA DRUGS	DRUG
38)	DM AUDIT SULFONYLUREA-LIKE	DRUG
39)	DM AUDIT TB LAB TESTS	LABORATORY TEST
40)	DM AUDIT TRIGLYCERIDE TAX	LABORATORY TEST
41)	DM AUDIT URINALYSIS TAX	LABORATORY TEST

Figure 2-8: Audit 2014 User-Populated taxonomies

The taxonomies may be reviewed and updated with the TU14 option under the DM14 menu of the Diabetes Audit or the corresponding Visual DMS Update Taxonomy option.

When updating lab test taxonomies, attempting to add a test panel to a laboratory test taxonomy that should only include individual tests displays a warning. This warning is displayed because the audit logic cannot correctly display hemoglobin A1C, lipid breakdown, or estimated GFR according to value categories if panels are included in the taxonomy. Panel tests have no values associated with them; only the tests within the panels have values.

Some taxonomies may not have any members. For example, if providers never prescribe INVOKANA, the DM AUDIT SGLP-2 DRUG taxonomy will not have any members.

Taxonomies that follow must be reviewed carefully in light of software changes or changes introduced in the 2014 Diabetes Audit. Possible members of the taxonomies are listed, but are by no means to be considered comprehensive.

#### 2.4.1 Drug Taxonomies

The guidelines of Table 2-1 are provided for populating drug taxonomies. New drugs may be available each year, so an updated list is provided for each of the drug taxonomies. Review the lists of drugs with the pharmacist to be sure of those that are available at a facility.

Taxonomy	Drugs
DM AUDIT ACE INHIBITORS	Benazepril (Lotensin)
	Benazepril and hydrochlorothiazide (Lotensin HCT)
	Benazepril and amlodipine (Lotrel)
	Captopril (Capoten)
	Captopril and hydrochlorothiazide (Capozide)
	Enalapril (Vasotec)
	Enalapril and hydrochlorothiazide (Vaseretic)
	Enalapril and diltiazem (Teczem)
	Enalapril and felodipine (Lexxel)
	Fosinopril (Monopril)
	Lisinopril (Prinivil, Zestril)
	Lisinopril and hydrochlorothiazide (Prinzide, Zestoretic)
	Moexipril (Univasc)
	Perindopril (Aceon)
	Quinapril (Accupril)
	Ramipril (Altace)
	Trandolapril (Mavik)
	Trandolapril and verapamil (Tarka)
	Also include Angiotensin II Receptor Blockers (ARB) in this Taxonomy
	Azilsartan (Edarbi)
	Candesartan (Atacand)
	Eprosartan (Teveten)
	Irbsesartan (Avapro)
	Irbesartan and hydrochlorothizide (Avalide)
	Losartan (Cozaar)
	Losartan and hydrochlorothiazide (Cozaar)
	Olmesartan (Benicar)
	Telmisartan (Micardis)
	Valsartan (Diovan)
	Valsartan and hydrochlorothizide (Diovan/HCT)
DM AUDIT ACARBOSE	Acarbose (Precose)
DRUGS	Miglitol (Glyset)
DM AUDIT AMYLIN ANALOGUES	Pramlinitide (Symlin)

Taxonomy	Drugs
DM AUDIT ANTIPLATELET THERAPY	Any non-aspirin anti-platelet product including Heparin and Warfarin (Coumadin) Cilistazol (Pletal) Clopidogrel (Plavix) Dipyridamole (Persantine) Ticlopidine (Ticlid) Aspirin and Dipyridamole (Aggrenox) Prasugrel (Effient) Ticagrelor (Brilinta) Dabigatran Etexilate (Pradaxa) Rivaroxaban (Xarelto) Apixaban (Eliquis)
DM AUDIT ASPIRIN DRUGS	Any Aspirin (ASA) or Aspirin containing product. (Verasa, Rubrasa)
DM AUDIT BILE ACID DRUGS	Colestipol (Colestid) Colesevelam (Welchol) Cholestyramine Resin (Prevalite, Questran)
DM AUDIT BROMOCRIPTINE DRUGS	Bromocriptine 0.8 mg (Cycloset)
DM AUDIT COLESEVELAM DRUGS	Colesevelam (Welchol)
DM AUDIT DPP4 INHIBITOR DRUGS	Alogliptin (Nesina) Alogliptin and Metformin (Kazano) Alogliptin and Pioglitazone (Oseni) Linagliptin (Trajenta) Linagliptin and Metformin (Jentadueto) Sitagliptin (Januvia,) Sitagliptin and metformin (Janumet) Sitagliptin and Simvastatin (Juvisync) Saxagliptin (Onglyza) Saxagliptin and Metformin (Kombiglyze XR)
DM AUDIT EZETIMIBE	Ezetimibe (Zetia) Ezetimibe and Atorvastatin (Liptruzet) Ezetimibe and Simvastatin (Vytorin)
DM AUDIT FIBRATE DRUGS	Clofibrate (Atromid-S) Gemfibrozil (Lopid) Fenofibrate (Tricor, Lipofen, Antara, Lofibra, Triglide, Trilipix)
DM AUDIT FISH OIL DRUGS	Rx or OTC Fish Oil, excluding Lovaza

Taxonomy	Drugs
DM AUDIT GLITAZONE DRUGS (aka:Thiazolidinediones)	Troglitazone (Rezulin) - RECALLED Pioglitazone (Actos) Pioglitazone and Alogliptin (Oseni) Pioglitazone and Metformin (Actoplus met) Pioglitazone and Glimeperide (Duetact) Rosiglitazone and Glimeperide (Avandaryl) Rosiglitazone (Avandia) Rosiglitazone and Metformin (Avandamet)
DM AUDIT GLP-1 ANALOG DRUGS	Victoza
DM AUDIT INCRETIN MIMETICS	Exenatide (Byetta), Bydureon
DM AUDIT INSULIN DRUGS	<ul> <li>Any Insulin product in Drug File – Insulin, REG, NPH, Lente, Ultralente, Insulin Lispro (Humalog), Insulin Glargine (Lantus), Insulin Detemir (Levimir)</li> <li>Insulin Aspart (Novolog), Insulin Glulisine (Apidra),</li> <li>Inhalable Insulin (Exubera), Pre-Mixed Insulins (70/30, 75/25)</li> </ul>
DM AUDIT LOVAZA DRUGS	Omega-3-acid ethyl esters (Lovaza)
DM AUDIT METFORMIN DRUGS	Metformin (Glucophage, Fortamet, Glumetza, Riomet) Metformin extended release (Glucophage XR, Glumetza) Metformin and Alogliptin (Kazano) Metformin and Glipizide (Metaglip) Metformin and Glyburide (Glucovance) Metformin and Linagliptin (Jentadueto) Metformin and Rosiglitazone(Avandamet) Metformin and Pioglitazone (Actoplus met) Metformin and Sitagliptin (Janumet) Metformin and Repaglinide (PrandiMet) Metformin and Saxagliptin (Kombiglyze XR)
DM AUDIT NIACIN DRUGS	Niacin (Niacor, Niaspan, ) Niacin and Simvastatin (Simcor) Niacin and Lovastatin (Advicor)
DM AUDIT SGLT-2 DRUGS	Canagliflozin (Invokana)

Taxonomy	Drugs
DM AUDIT STATIN DRUGS	Atorvastatin (Lipitor)
	Atorvastatin and Ezetimibe (Liptruzet)
	Fluvastatin (Lescol)
	Lovastatin (Mevacor, Altocor, )
	Lovastatin and Niacin (Advicor)
	Pravastatin (Pravachol)
	Rosuvastatin (Crestor)
	Simvastatin (Zocor)
	Simvastatin and Niacin (Simcor)
	Simvastatin and Ezetimibe (Vytorin)
	Simvastatin and Sitagliptin (Juvisync)
	Atorvastatin and Amlodipine (Caduet)
	Pitivistatin (Livalo)
DM AUDIT SULFONYLUREA	Acetohexamide (Dymelor)
DRUGS	Chlorpropamide (Diabinese)
	Glimepiride (Amaryl)
	Glimepiride and rosiglitazone (Avandaryl)
	Glimepiride and pioglitazone (Duetact)
	Glipizide (Glucotrol)
	Glipizide and metformin (Metaglip)
	Glyburide(Diabeta,Micronase,Glynase, Glycron)
	Glyburide and metformin (GlucoVance)
	Tolazamide (Tolinase)
	Tolbutamide (Orinase)
DM AUDIT SULFONYLUREA-	Nateglinide (Starlix)
LIKE DRUGS	Repaglinide (Prandin)
	Repaglinide and Metformin (PrandiMet)

#### 2.4.2 Education Topic Taxonomies

All three DM Audit Education topic taxonomies; DM AUDIT DIET EDUC TOPICS, DM AUDIT OTHER EDUC TOPICS, and DM AUDIT EXERCISE EDUC TOPICS, should be reviewed and updated to ensure that any new education topics are included.

Table 2-2 provides examples of education topics that may have been used during the audit year and that should be included in the three DM Education Topic taxonomies.

**Note:** If custom pick lists have been created for providers in EHR, ensure that these are standard education topics and that the DM AUDIT taxonomy files are updated accordingly.

Taxonomy	Topics
DM AUDIT DIET EDUC	DM-DIET 2005
TOPICS	DM-MEDICAL NUTRITION THERAPY
	DM-MEDICAL NUTRITION THERAPY 2006
	DM-NUTRITION
	DM-NUTRITION 2006
	DMC-HEALTHY EATING
	DMC-NUTRITION 2006
	DMCN-CARBOHYDRATE COUNTING
	DMCN-EATING AWAY FROM HOME
	DMCN-EVALUATING DIETS
	DMCN-EXCHANGE LISTS
	DMCN-FOOD SHOPPING
	DMCN-HEALTHY COOKING
	DMCN-INTRODUCTION TO FOOD LABELS
	DMC-N-AL NUTRITION (SESSION 7: GUIDELINES FOR THE USE OF ALCOHOL) 2006
	DMC-N-CC NUTRITION (SESSION 2: INTRODUCTION TO CARBOHYDRATE COUNTING) 2006
	DMC-N-D NUTRITION (SESSION 8: GUIDELINES FOR CHOOSING A HEALTHY DIET) 2006
	DMC-N-EA NUTRITION (SESSION 6: GUIDELINES FOR EATING AWAY FROM HOME) 2006
	DMC-N-EL NUTRITION (SESSION 3: INTRODUCTION TO EXCHANGE LISTS) 2006
	DMC-N-FL NUTRITION (SESSION 1: INTRODUCTION TO FOOD LABELS) 2006
	DMC-N-FS NUTRITION (SESSION 4: INTRODUCTION TO FOOD SHOPPING) 2006
	DMC-N-HC NUTRITION (SESSION 5: INTRODUCTION TO HEALTHY COOKING) 2006
	DMC-PG-N SESSION 2: HEALTHY EATING DURING PREGNANCY 2006
	May also consider including:
	OBS-NUTRITION
	OBS-NUTRITION 2006
	HTN-DIET 2006
	HTN-MEDICAL NUTRITION THERAPY
	HTN-MEDICAL NUTRITION THERAPY 2006
	HTN-NUTRITION
	HTN-NUTRITION 2006

Table 2-2: DM Audit Education Topic Taxonomies

Taxonomy	Topics
DM AUDIT EXERCISE EDUC	DM-EXERCISE
TOPICS	DM-EXERCISE 2006
	DMC-EXERCISE
	DMC-EXERCISE 2006
	DMCPG-MOVING TO STAY HEALTHY
	DMC-PG-PA SESSION 3: MOVING TO STAY HEALTHY DURING PREGNANCY 2006
	May also consider including:
	OBS-EXERCISE
	OBS-EXERCISE 2006
	HTN-EXERCISE
	HTN-EXERCISE 2006

Taxonomy	Topics
DM AUDIT OTHER EDUC	DM-ACANTHOSIS NIGRICANS 2005
TOPICS	DM-ANATOMY AND PHYSIOLOGY
	DM-CASE MANAGEMENT
	DM-COMPLICATIONS
	DM-COMPLICATIONS 2006
	DM-CULTURAL/SPIRITUAL ASPECTS OF HEALTH
	DM-CULTURAL/SPIRITUAL ASPECTS OF HEALTH 2006
	DM-DISEASE PROCESS
	DM-DISEASE PROCESS 2006
	DM-EQUIPMENT
	DM-EQUIPMENT 2006
	DM-FOLLOW UP 2006
	DM-FOLLOWUP
	DM-FOOT CARE 2006
	DM-FOOT CARE AND EXAMINATIONS
	DM-FOOT CARE AND EXAMINATIONS 2006
	DM-HOME MANAGEMENT
	DM-HOME MANAGEMENT 2006
	DM-INFORMATION 2006
	DM-KIDNEY DISEASE
	DM-KIDNEY DISEASE 2006
	DM-LIFESTYLE ADAPTATIONS
	DM-LIFESTYLE ADAPTATIONS 2006
	DM-LITERATURE
	DM-MEDICATIONS
	DM-MEDICATIONS
	DM-MEDICATIONS 2006
	DM-PAIN MANAGEMENT
	DM-PAIN MANAGEMENT 2006
	DM-PATIENT LITERATURE 2006
	DM-PERIODONTAL DISEASE
	DM-PREVENTION
	DM-PREVENTION 2006
	DM-SAFETY
	DM-SCREENING
	DM-SCREENING 2006
	DM-STRESS MANAGEMENT
	DM-STRESS MANAGEMENT 2006
	DM-TESTS
	DM-TREATMENT
	DM-WOUND CARE
	DM-WOUND CARE 2006
	DMC-ACUTE COMPLICATIONS

Taxonomy	Topics
DM AUDIT OTHER EDUC	DMC-ACUTE COMPLICATIONS 2006
TOPICS	DMC-BEHAVIORAL GOALS
	DMC-BEHAVIORAL GOALS (MAKING HEALTHY
	CHANGES) 2006
	DMC-BLOOD SUGAR MONITORING, HOME 2006
	DMC-CHRONIC COMPLICATIONS
	DMC-CHRONIC COMPLICATIONS (PREVENTION and TREATMENT)
	DMC-CHRONIC COMPLICATIONS (PREVENTION and TREATMENT) 2006
	DMC-DIABETES MEDICINE
	DMC-DIABETES MEDICINE - INSULIN 2006
	DMC-DISEASE PROCESS
	DMC-DISEASE PROCESS 2006
	DMC-FOOT CARE
	DMC-FOOT CARE 2006
	DMC-HOME BLOOD SUGAR MONITORING
	DMC-KNOW YOUR NUMBERS
	DMC-KNOWING YOUR NUMBERS (ABC) 2006
	DMC-MEDICATIONS 2006
	DMC-MIND, SPIRIT AND EMOTION
	DMC-MIND, SPIRIT AND EMOTION 2006
	DMC-PRE-PREGNANCY COUNSELING 2006
	DMC-PREPREGNANCY COUNSELING
	DMCN-USE OF ALCOHOL
	DMCPG-BLOOD SUGAR MONITORING
	DMCPG-MEDICATIONS
	DMCPG-PREGNANCY, DIABETES AND YOU
	DMCPG-STAYING HEALTHY AFTER DELIVERY
	DMCPG-STAYING HEALTHY DURING PREGNANCY
	DM-SM STRESS MANAGEMENT 2005
	DMC-PG-BGM SESSION 5: HOME BLOOD SUGAR
	MONITORING DURING PREGNANCY 2006 DMC-
	PG-C SESSION 6: STAYING HEALTHY DURING PREGNANCY 2006
	DMC-PG-DM SESSION 1: PREGNANCY, DIABETES
	AND YOU: FIRST STEPS TO A HEALTHY 2006
	DMC-PG-M SESSION 4: MEDICINE DURING PREGNANCY 2006
	DMC-PG-PP SESSION 7: STAYING HEALTHY AFTER DELIVERY 2006

#### 2.4.3 Laboratory Test Taxonomies

All Urine Protein test taxonomies have been removed except for DM AUDIT QUANT UACR. Note that if no lab results have been reported in the category of non-HDL cholesterol, it will be calculated from the last Total Cholesterol and HDL Cholesterol reported during the audit period. Table 2-3 lists the taxonomies that must be reviewed for potential changes in laboratory testing at a facility.

Taxonomy	Topics	
BGP GPRA ESTIMATED GFR TAX	Estimated GFR, Calculated GFR, _GFR, Estimated, _GFR Non-African American, EST GFR, eGFR	
DM AUDIT CHOLESTEROL TAX	Cholesterol, Total Cholesterol, _Cholesterol, POC Cholesterol	
DM AUDIT CREATININE TAX	Creatinine, POC Creatinine, Serum Creatinine, _Creatinine	
DM AUDIT HDL TAX	HDL, HDL Cholesterol, POC HDL Cholesterol, _HDL Cholesterol	
DM AUDIT HGB A1C TAX	Hemoglobin A1C, A1C, HGB A1C, HBA1C, HA1C, POC HEMOGLOBIN A1C, _A1C	
DM AUDIT LDL CHOLESTEROL TAX	LDL, Direct LDL, LDL Cholesterol, LDL Cholesterol (calc), POC LDL Cholesterol, _LDL Cholesterol	
DM AUDIT QUANT UACR TAX	Microalbumin/Creatinine Ratio measured in actual numeric values (mg/g Creatinine). Look for tests A/C, A:C, Albumin/Creatinine, _A/C, -A/C, asterisk (*)A/C, Microalbumin/Creatinine, M-Alb/Creatinine.	
DM AUDIT NON HDL TESTS	Non HDL Cholesterol	
DM AUDIT TB LAB TESTS	QFT-G, T SPOT-TB, Quantiferon GOLD	
DM AUDIT TRIGLYCERIDE TAX	Triglyceride, POC Triglyceride, _Triglyceride	

Table 2-3: DM Audit Laboratory Test Taxonomies

With the advent of reference laboratory interfaces and Point of Care result entry, there is considerable variation in test nomenclature. Diabetes Program staff are encouraged to solicit assistance from both laboratory and pharmacy staff in updating taxonomies.

When deciding which tests should be included in a taxonomy, it is often useful to review test results on a health summary for a known compliant patient with diabetes. Once test names are determined, the appropriate tests may be added or deleted from taxonomies.

Figure 2-9 is a Health Summary sample with recommended taxonomy placement noted after the lab test on the health summary.

HGB A1C-GLYCO (R)	01/16/09	5.7 %	4.3-6.1
DM AUDIT HGB A1C			
LIPID PROFILE (R)	01/16/09		
HDL CHOLESTEROL (R)	01/16/09	44	MG/DL 40-125
DM AUDIT HDL CHOLESTEROL			
TRIGLYCERIDE (R)	01/16/09	109	MG/DL 30-150
DM AUDIT TRIGLYCERIDE			
LDL CHOLESTEROL (R)	01/16/09	97	MG/DL 0-130
DM AUDIT LDL CHOLESTEROL			
CHOLESTEROL (R)	01/16/09	163	MG/DL 100-200
DM AUDIT CHOLESTEROL			
CHOL/HDL RATIO (R)		3.70	RATIO 0.00-4.44
CALCULATED GFR (R)	01/16/09		
_GFR AFRICN AMER	01/16/09	>60	ML/MIN >60-
BGP GPRA ESTIMATED GFR			
_GFR NON AFR AMR	01/16/09	>60	ML/MIN >60-
BGP GPRA ESTIMATED GFR			
COMPREHENSIVE-14 METABOLIC (R)	01/16/09		/
AST (SGOT) (R)	01/16/09	18	
ALT (SGPT) (R)	01/16/09	15	U/L 0-40
BUN (R)	01/16/09	11	MG/DL 5-19 GM/DL 3.9-5.0
ALBUMIN (R)	01/16/09		
CHLORIDE (R)	01/16/09	104	MMOL/L 96-108
BILIRUBIN, TOTAL (R)	01/16/09	0.9 76	MG/DL 0.1-1.0
ALKALINE PHOS (R)	01/16/09		
AST (SGOT) (R) ALT (SGPT) (R) BUN (R) ALBUMIN (R) CHLORIDE (R) BILIRUBIN, TOTAL (R) ALKALINE PHOS (R) SODIUM (R) CREATININE (R)	01/16/09	139	
	01/16/09	0.86	MG/DL 0.50-1.00
DM AUDIT CREATININE CALCIUM (R) POTASSIUM (R) PROTEIN, TOTAL (R) GLUCOSE RANDOM (R) CO2 (R) ANION GAP (R) URINE DIPSTICK (R) DM AUDIT UPINALYSIS	01/16/00	0 0	MG/DL 8.5-10.5
DOTAGETIM (P)			MMOL/L 3.5-5.5
DEOTEIN TOTAL (D)		5.0 (H) 7.7	
CLUCOSE RANDOM (R)			MG/DL 70-100
CO2 (R)		23	
ANTON GAD (P)	01/16/09		MM/L 5-16
IRINE DIPSTICK (R)	03/10/08		
DM AUDIT URINALYSIS	03/10/00		
DM AUDIT URINALYSIS URINE COLOR URINE APPEARANCE SPECIFIC GRAVITY	03/10/08	0	
URINE APPEARANCE	03/10/08		
SPECIFIC GRAVITY			1.001-1.035
URINE UROBILINOGEN URINE BLOOD URINE BILIRUBIN URINE KETONES			EU/dL .2-1
URINE BLOOD	03/10/08		mg/dL NEG-
URINE BILIRUBIN	03/10/08	Ν	mg/dL NEG-
URINE KETONES	03/10/08	L	mg/dL NEG-
URINE GLUCOSE	03/10/08		mg/dL NEG-
URINE PROTEIN	03/10/08	L	mg/dL NEG-
DM AUDIT URINE PROTEIN			
URINE PH	03/10/08	5	5-9
URINE NITRITE	03/10/08	N	NEG-
URINE LEUKOCYTE ESTERASE	03/10/08	N	NEG-
M-ALB/CREAT RATIO (R)	01/22/09		
_MICROALB, RANDOM	01/22/09	<5.0	MG/L 0.0-20.0
DM AUDIT MICROALBUMINURIA			
_ALB/CREAT RATIO	01/22/09	FOOTNOTE	MG/GCR 0.0-16.9
DM AUDIT QUANT UACR			
_CREAT UR, MG/DL	01/22/09		MG/DL
_CREAT/100 Calc Malb	01/22/09	1.38	G/L

Figure 2-9: Sample Health Summary

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#### 2.4.4 LMR–List Labs or Medications Used at this Facility

A report provided in DMS v2.0 p4 displays the laboratory tests reported or the drugs prescribed during the audit year. In addition to displaying the laboratory tests or drugs, it identifies those that are already included in a taxonomy used by the audit. To run the laboratory tests version of this report:

- 1. At the Diabetes Management Systems menu, type **RP** and press Enter.
- 2. At the Reports menu, type **LMR** (List Labs/Medications Used at this Facility) and press Enter.
- 3. At the "Do you wish to list" prompt, type L (LAB TESTS) and press Enter.
- 4. Type the beginning and ending dates for the report, pressing Enter after each.
- 5. At the "Do you wish to" prompt, do one of the following:
  - To print the output, accept the default (**P**) by pressing Enter. A prompt asking for the device name displays; type the device's name and press Enter.
  - To browse the output on the screen, type **B** and press Enter.

A sample report is shown in Figure 2-10.

Feb 27, 2013			Page 1
	Used at CIMARRO		
	Jan 01, 2013 - IEN # DONE		
HDL	244	1	40
DM AUDIT HDL TAX			
LDL	901	1	120
DM AUDIT LDL CHOLESTEROL T	AX		
ALBUMIN/CREATININE RATIO	9034	1	3
DM AUDIT QUANT UACR			
ANION GAP	1160	2	
BASIC METABOLIC PANEL		2	
- , , , ,	9999195	3	
	180	2	
	178	2	
CHOLESTEROL	183	1	240
DM AUDIT CHOLESTEROL TAX		_	
	179	2	
CREATININE	173	3	0.6
DM AUDIT CREATININE TAX			
	9999199	1	
CULTURE, HSV RAPID (R)		1	
CYCLIC CITRULLINATED PEPTIDE A		1	
	9999089 210	3 WITHIN	N NORMAL LIMITS
DILANTIN ESTIMATED GFR		⊥ 3	>60
BGP GPRA ESTIMATED GFR TAX	9999103	2	>00
FERRITIN (SO)	9999175	2	
FREE T3	9999176	1	
LIGE 13	9999110	T	

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GLUCOSE H PYLORI AG EIA H. PYLORI AG EIA	175 9999183 9999177	5 mg/dL 2 1	145	
HEMOGLOBIN	3	1 g/dL	5.0	
LEAD	262	1 mcg/dL	6.7	
LIPASE (R)	200	1 U/L	456	

Figure 2-10: Sample Report of Labs Reported during the Audit Year

To run the medications that have been prescribed version of this report:

- 1. At the Diabetes Management Systems menu, type **RP** and press Enter.
- 2. At the Reports menu, type **LMR** (List Labs/Medications Used at this Facility) and press Enter.
- 3. At the "Do you wish to list" prompt, type M (MEDICATIONS) and press Enter.
- 4. Type the beginning and ending dates for the report, pressing Enter after each.
- 5. At the "Do you wish to" prompt, do one of the following:
  - To print the output, accept the default (**P**) by pressing Enter. A prompt asking for the device name displays; type the device's name and press Enter.
  - To browse the output on the screen, type **B** and press Enter.

A sample report is shown in Figure 2-11.

Feb 27, 2012		Page 1
MEDICATIONS (D	RUGS) Us	sed at CIMARRON HOSPITAL
Date Range:	Jan 01	1, 2012 - Dec 31, 2012
MEDICATION/DRUG NAME	IEN	# DONE
TAXONOMIES		
ACARBOSE 25MG TAB	84472	4
DM AUDIT ACARBOSE DRUGS		
ACETAMINOPHEN 325MG TAB	263	3
ACETAMINOPHEN WITH CODEINE 30M	342	301
ACETAMINOPHEN/CODEINE 12MG/5M	3958	5
ACETAZOLAMIDE 250MG TABS	638	2
ACETIC ACID 2% HC 1% OTIC	2810	13
ACETIC ACID 2% OTIC SOL	3868	1
ACYCLOVIR 200MG CAP	83978	7
ACYCLOVIR 800MG TAB	84481	2
ALBUTEROL 2MG TAB	84348	2
ALBUTEROL 4MG TAB	84333	5
ALBUTEROL INHALER 17GM	3769	247
	84459	
ALBUTEROL SOL 0.5%	84042	66
ALBUTEROL SULFATE SYRUP 2MG/5M	84061	20
ALENDRONATE SODIUM 10MG TAB	84444	1
ALLEGRA	84422	8
ALLOPURINOL 100MG TABS	1391	10
ALLOPURINOL 300MG TAB	3740	27
ALUMINUM ACETATE SOLN TAB	83607	1

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AMANTADINE 100MG CAP	1606	3	
AMIODARONE 200MG TAB	84092	17	
AMITRIPTYLINE 25MG TAB	1639	100	
AMLODIPINE BESYLATE 10MG TAB	84337	34	
AMLODIPINE BESYLATE 2.5MG TAB	84335	2	
AMLODIPINE BESYLATE 5MG TAB	84336	22	
AMOXICILLIN 250MG CAP	4601	7	
AMOXICILLIN 250MG/5ML	83611	78	
AMOXICILLIN 500MG CAP	84024	135	
AMOXICILLIN/CLAVULENATE 400MG/	84434	20	
ANTIPYRINE/BENZOCAINE OTIC SOL	83614	19	
ASCORBIC ACID 500MG TAB	1642	421	
ASPIRIN 325MG E.C. TAB UD	84291	1	
DM AUDIT ASPIRIN DRUGS			
ASPIRIN 325MG TAB	276	310	
DM AUDIT ASPIRIN DRUGS			
ASPIRIN 650MG E.C. TAB	83618	113	
DM AUDIT ASPIRIN DRUGS			
ASPIRIN 81MG TAB	83620	8	
DM AUDIT ASPIRIN DRUGS			
ATENOLOL 25MG TAB	84328	42	
ATENOLOL 50MG TAB	84329	301	
ATORVASTATIN 40MG TABLETS	84416	7	
DM AUDIT STATIN DRUGS			
ATORVASTATIN 80MG TABLETS	84503	8	
DM AUDIT STATIN DRUGS			
ATROPINE SULFATE 0.4MG/1ML	2545	1	

Figure 2-11: Sample Report of Drugs Prescribed during the Audit year

# 3.0 Running the 2014 Audit

The directions for creating and submitting an electronic Diabetes Audit data file are outlined in the Audit 2014 Instructions which follow or at: <a href="http://www.ihs.gov/MedicalPrograms/Diabetes/index.cfm?module=resourcesAuditResources">http://www.ihs.gov/MedicalPrograms/Diabetes/index.cfm?module=resourcesAuditResources</a>

In RPMS, audits may be run for individual patients, a template of patients, patients in a Register, or a random sample of patients in a Register.

Output options include an individual audit, a cumulative audit, individual and cumulative audits, or an audit export file. Even those doing manual audits may find it useful to print individual audit sheets which most likely have some information on them such as measurements.

### 3.1 Running an Individual Audit

Individual audits may be run at any time either via the Diabetes QA Audit Menu or via the Patient Management option to display the audit status. To run an individual audit using the Patient Management option:

- 1. At the Diabetes Management Systems menu, type **PM** and press Enter.
- 2. At the Patient Management menu, type **10** (Audit Status) and press Enter.
- 3. At the "Enter the Audit Date" prompt, type the ending date of the audit period desired and press Enter.
- 4. At the "Do you wish to print the Patient's Name...?" prompt, do one of the following:
  - To not print the patient's name on the audit sheet, accept the default (N) by pressing Enter.
  - To print the patient's name, type **Y** and press Enter.
- 5. At the "Do you wish to" prompt, do one of the following:
  - To print the output, accept the default (**P**) by pressing Enter. A prompt asking for the device name displays; type the device's name and press Enter.
  - To browse the output on the screen, type **B** and press Enter.

A sample report is shown in Figure 3-1.

ASSESSMENT OF DIABETES CARE, 2014 DATE AUDIT RUN: Oct 22, 2013 Page: 1 Audit Period Ending Date: Dec 31, 2013 Facility Name: DEMO INDIAN HOSPITAL REVIEWER initials: DKR Community: HASKELL STATE of Residence: OK CHART #: 211424 DOB: Feb 03, 1940 SEX: FEMALE PRIMARY CARE PROVIDER: PROVIDER, DEMOW\ W DATE of Diabetes Diagnosis: DM Reg: Feb 17, 2004 Problem List: <not documented> 1st PCC DX: Feb 17, 2004 DM TYPE: 2 Type 2 DM Register: TYPE 2 Problem List: <not documented> PCC POV's: Type 2 TOBACCO USE: 2 Not a Current User NEVER SMOKED Feb 17, 2004 Cessation Counseling received? HEIGHT (last ever): 60.00 inches Oct 01, 2013 Last WEIGHT in audit period: 210.00 lbs Oct 01, 2013 BMI: 41.0 HTN (documented diagnosis): 2 No Last 3 BLOOD PRESSURES during audit period: 150/82 mm Hg Oct 01, 2013 152/80 mm Hg Sep 01, 2013 Examinations during audit period FOOT EXAM-complete: 1 Yes - Diabetic Foot Exam - 10/01/2013 EYE EXAM (dilated or retinal camera): 1 Yes - Diabetic Eye Exam - 10/01/2013 DENTAL EXAM: 2 No Education during audit period NUTRITION INSTRUCTION: NUTRITION INSTRUCTION:1Yes (RD) RD: DM-N Oct 01, 2013PHYSICAL ACTIVITY INSTRUCTION:1Yes DM-EXERCISE 10/01/2013DM Education (Other):1Yes DM-EXERCISE 10/01/2013 DM Education (Other): 1 Yes DM-C Oct 01, 2013 Mental Health Depression an active problem? 2 No If 'No', Screened for depression during audit period: 1 Yes - Exam: DEPRESSION SCR 10/01/2013 DM THERAPY Select all prescribed, as of the end of the audit period: 1 Diet & Exercise Alone X 2 Insulin 3 Sulfonylurea (glyburide, glipizide, others) 4 Glinide (Prandin, Starlix) 5 Metformin (Glucophage, others) X 6 Acarbose (Precose) or miglitol (Glyset) 7 Pioglitazone (Actos) or rosiglitazone (Avandia) 8 GLP-1 med (Byetta, Bydureon, Victoza) 9 DPP4 inhibitors (Januvia, Onglyza, Tradjenta) 10 Amylin Analog (Symlin) X 11 Bromocriptine (Cycloset) 12 Colesevelam (Welchol) 13 SGLT-2 inhibitor (Invokana) ACE Inhibitor/ARB Prescribed, as of the end of the audit period: 1 Yes MDF LISINOPRIL 10MG TAB Oct 01, 2013 Aspirin/Antiplatelet Therapy Prescribed, as of the end of the audit period: 1 Aspirin/Antiplatelet Rx Lipid Lowering Agent Select all prescribed, as of the end of the audit period:

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1 Statin (simvastatin/Zocor, others) 2 Fibrate (gemfibroil/Lopid, others) 3 Niacin (Niaspan, OTC niacin) 4 Bile Acid Sequestrant (cholestyraminie/Questran, others) X 5 Ezetimibe (Zetia) 6 Fish Oil 7 Lovaza 8 None TB Testing TB test done: 1 TB Positive Oct 01, 2013 HF: TX INCOMPLETE TB test result: 1 Positive TB Oct 01, 2013 HF: TX INCOMPLETE If PPD Pos, INH Tx Complete: 2 No TX INCOMPLETE If PPD Neg, Last PPD: CVD: Cardiovascular disease diagnosed: 2 No Immunizations FLU VACCINE during audit period: 1 Yes Oct 09, 2013 PNEUMOVAX - ever: 2 No Td or Tdap in past 10 yrs: 2 No HEP B 3 dose series complete - ever: 2 No LABORATORY DATA - most recent result during audit period 
 10.1
 Oct 01, 2013
 HGB A1C (WWH)

 1.2 mg/dl
 Oct 01, 2013
 CREATININE
 HbAlc: 1.2 mg/dl eGFR value:50Oct 01, 2013CREATININETotal Cholesterol:230 mg/dlOct 01, 2013ESTIMATED GFRHDL Cholesterol:35 mg/dlOct 01, 2013CHOLESTEROLLDL Cholesterol:130 mg/dlOct 01, 2013LDL (CALCULATED)Non-HDL Cholesterol:195 mg/dlOct 01, 2013LDL (CALCULATED)Triglycerides:300 mg/dlOct 01, 2013TRIGLYCEPIDE Serum Creatinine: Urine Protein Testing during audit period Urine Albumin: Creatinine Ratio (UACR) performed? Yes UACR value: 35 Oct 01, 2013 MICROALBUMIN/CREATI COMBINED: Meets ALL: A1C <8.0, LDL <100, mean BP <140/<90 2 No A1C: 10.1; LDL: 130; Mean BP: 151/81 Has e-GFR and UACR: Yes Local Option question: Extended Local Option question:

Figure 3-1: Individual Audit

#### 3.2 Running a Cumulative Audit

Figure 3-2 shows a script to run a Cumulative Audit. The audit may be either queued using the DM14 option in Visual DMS or run from the traditional RPMS menu. It is highly recommended that the 2014 Cumulative Audit be run and reviewed twice before creating a data file. The first time, run a cumulative audit on all active members of the register with Type 1 and Type 2 Diabetes or on the template created of active patients with Type 1 or Type 2 Diabetes.

Review the initial cumulative audit carefully to be sure there are no audit elements that have no data or that have far larger or smaller numbers than would be expected. This will ensure that there is no missing data due to improperly populated taxonomies. If required, review taxonomy set up, edit taxonomies as needed, and run and review the cumulative audit again to make sure that problems are corrected before creating the Audit Export file.

Note that a list of taxonomies that have no members may display. It is perfectly acceptable to have taxonomies with no members if the drugs or laboratory tests referenced are not used at the audit facility.

```
Diabetes Management System ...
DA Diabetes QA Audit Menu ...
DM14 2014 Diabetes Program Audit ...
DM14 Run 2014 Diabetes Program Audit
                ASSESSMENT OF DIABETES CARE, 2014
                    PCC DIABETES AUDIT
Enter the Official Diabetes Register: IHS DIABETES
Select 2014 Diabetes Program Audit Option: DM14 Run 2014 Diabetes Program Audit
In order for the 2014 DM AUDIT Report to find all necessary data, several
taxonomies must be established. The following taxonomies are missing or have no
entries:
LABORATORY TEST taxonomy [DM AUDIT 24HR URINE PROTEIN] has no entries
DRUG taxonomy [DM AUDIT AMYLIN ANALOGUES] has no entries
DRUG taxonomy [DM AUDIT BROMOCRIPTINE DRUGS] has no entries
DRUG taxonomy [DM AUDIT EZETIMIBE DRUGS] has no entries
DRUG taxonomy [DM AUDIT FISH OIL DRUGS] has no entries
DRUG taxonomy [DM AUDIT GLP-1 ANALOG DRUGS] has no entries
DRUG taxonomy [DM AUDIT INCRETIN MIMETIC] has no entries
DRUG taxonomy [DM AUDIT LOVAZA DRUGS] has no entries
LABORATORY TEST taxonomy [DM AUDIT MICROALBUMINURIA TAX] has no entries
DRUG taxonomy [DM AUDIT SULFONYLUREA-LIKE] has no entries
LABORATORY TEST taxonomy [DM AUDIT TB LAB TESTS] has no entries
                        ASSESSMENT OF DIABETES CARE, 2014
                                PCC DIABETES AUDIT
Enter the Official Diabetes Register: IHS DIABETES
```

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Enter the date of the audit. This date will be considered the ending date of the audit period. For most data items all data for the period one year prior to this date will be reviewed. Enter the Audit Date: 12/31/13 (DEC 31, 2013 Select one of the following: Ρ Individual Patients S Search Template of Patients Members of a CMS Register С Run the audit for: P// C Members of a CMS Register Enter the Name of the Register: IHS DIABETES Do you want to select register patients with a particular status? Y// YES Which status: A// ACTIVE There are 1164 patients in the IHS DIABETES register with a status of A. You have selected a register or template/cohort of patients. You can run the audit just for the subset of patients in the cohort or register who live in a particular community or have a particular primary care provider. Limit the audit to a particular primary care provider ? N//<ENTER> NO Limit the patients who live in a particular community ? N//<ENTER> NO There are 1164 patients selected so far to be used in the audit. Select one of the following: ALL Patients selected so far А RANDOM Sample of the patients selected so far R Do you want to select: A// ALL Patients selected so far Select one of the following: 1 Print Individual Reports 2 Create Audit Export file Cumulative Audit Only 3 4 Both Individual and Cumulative Audits Enter Print option: 1// 3 Cumulative Audit Only Select one of the following: т Include ALL Patients Е Exclude DEMO Patients 0 Include ONLY DEMO Patients Demo Patient Inclusion/Exclusion: E// <ENTER> Exclude DEMO Patients Select one of the following: Ρ PRINT Output BROWSE Output on Screen В Do you wish to: P// <ENTER>

Figure 3-2: Running a Cumulative Audit

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At the "DEVICE" prompt, type the printer name. This report can be queued to run later as shown in Figure 3-3.

```
Device: HOME// Q <Enter> QUEUE TO PRINT ON
Device: P171 <Enter>
Start Date/Time: T@2000 <Enter>
Device: P180
```

Figure 3-3: Queuing the report to run later

**Note:** A queued report cannot be printed to a locally connected printer usually referred to as a Slave printer

The 2014 cumulative audit is displayed in Figure 3-4.

LB Oct 16, 2013		Pag	ge 1	
IHS DIABETES CARE AND OUTCOMES A AUDIT REPORT FOR 2014 (Audit Period for 2013 DEMO H 859 patients were	01/01/2013 OSPITAL		)	
		# Considered (Denominator	Percent	
Gender				
Male	342	859	40%	
Female	517	859	60%	
Age				
<15 years	0	859	0%	
15-44 years	120	859	14%	
45-64 years	381	859	44%	
65 years and older	358	859	42%	
Diabetes Type				
Type 1	27	859	3%	
Type 2	832	859	97%	
Duration of Diabetes				
Less than 1 year	0	859	0%	
Less than 10 years	37	859	4%	
10 years or more	512	859	60%	
Diagnosis date not recorded	310	859	36%	
Weight Control (BMI)				
Normal (BMI<25.0)	34	859	4%	
Overweight (BMI 25.0-29.9)	116	859	14%	
Obese (BMI 30.0 or above)	346	859	40%	
Height or Weight missing	363	859	42%	
Blood Sugar Control				
HbAlc <7.0	84	859	10%	
HbAlc 7.0-7.9	71	859	8%	

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HbA1c 8.0-8.9	67	859	8%	
HbAlc 9.0-9.9	46	859	5%	
HbAlc 10.0-10.9	39	859	5%	
HbAlc 11.0 or higher	97	859	11%	
Not tested or no valid result				
Not tested or no valid result	455	859	53%	
	- 7 - )			
Mean Blood Pressure (of last 2, or 3 if availat		050	400	
<140/<90	340	859	40%	
140/90 - <160/<95	98	859	11%	
160/95 or higher	26	859	3%	
BP category Undetermined	395	859	46%	
Tobacco use				
Current Tobacco User	143	859	17%	
In current users, counseled? Yes	55	143	38%	
No	88	143	62%	
Not a current tobacco user	482	859	56%	
Tobacco use not documented	234	859	27%	
	201	007	270	
LB Oct 16, 2013		D	aqe 2	
		Ľ	age z	
IHS DIABETES CARE AND OUTCOMES AUD	ם - ייסרמים ייז	DMG AUDTT		
	-		2 \	
AUDIT REPORT FOR 2014 (Audit Period		0 12/31/201	3)	
for 2013 DEMO HOS				
859 patients were	audited			
#	of #		Percent	
P	atients Co	nsidered		
	Numerator) (D	enominator)		
Diabetes Treatment				
Diabetes Treatment Diet and exercise alone	462	859	54%	
Diet and exercise alone			54%	
Diet and exercise alone Diabetes meds currently prescribed, alone or	in combinati	on		
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin			54% 37%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide,	in combinati 322	on 859	37%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide, others)	in combinati 322 189	on 859 859	37% 22%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide, others) Glinide (Prandin, Starlix)	in combinati 322 189 0	on 859 859 859	37% 22% 0%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide, others) Glinide (Prandin, Starlix) Metformin (Glucophage, others)	in combinati 322 189 0 219	on 859 859 859 859 859	37% 22% 0% 25%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide, others) Glinide (Prandin, Starlix) Metformin (Glucophage, others) Acarbose (Precose)/Miglitol (Glyset)	in combinati 322 189 0	on 859 859 859	37% 22% 0%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide, others) Glinide (Prandin, Starlix) Metformin (Glucophage, others) Acarbose (Precose)/Miglitol (Glyset) Proglitizone (Actos) or rosiglitazone	in combinati 322 189 0 219 2	on 859 859 859 859 859	37% 22% 0% 25% 0%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide, others) Glinide (Prandin, Starlix) Metformin (Glucophage, others) Acarbose (Precose)/Miglitol (Glyset) Proglitizone (Actos) or rosiglitazone (Avandia)	in combinati 322 189 0 219 2 0	on 859 859 859 859 859 859	37% 22% 0% 25% 0% 0%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide, others) Glinide (Prandin, Starlix) Metformin (Glucophage, others) Acarbose (Precose)/Miglitol (Glyset) Proglitizone (Actos) or rosiglitazone (Avandia) GLP-1 med (Byetta, Bydureon, Victoza)	in combinati 322 189 0 219 2	on 859 859 859 859 859	37% 22% 0% 25% 0%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide, others) Glinide (Prandin, Starlix) Metformin (Glucophage, others) Acarbose (Precose)/Miglitol (Glyset) Proglitizone (Actos) or rosiglitazone (Avandia) GLP-1 med (Byetta, Bydureon, Victoza) DPP4 inhibitor (Januvia, Onglyza,	in combinati 322 189 0 219 2 0	on 859 859 859 859 859 859	37% 22% 0% 25% 0% 0%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide, others) Glinide (Prandin, Starlix) Metformin (Glucophage, others) Acarbose (Precose)/Miglitol (Glyset) Proglitizone (Actos) or rosiglitazone (Avandia) GLP-1 med (Byetta, Bydureon, Victoza)	in combinati 322 189 0 219 2 0	on 859 859 859 859 859 859	37% 22% 0% 25% 0% 0%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide, others) Glinide (Prandin, Starlix) Metformin (Glucophage, others) Acarbose (Precose)/Miglitol (Glyset) Proglitizone (Actos) or rosiglitazone (Avandia) GLP-1 med (Byetta, Bydureon, Victoza) DPP4 inhibitor (Januvia, Onglyza,	in combinati 322 189 0 219 2 0 5	on 859 859 859 859 859 859 859	37% 22% 0% 25% 0% 0% 1%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide, others) Glinide (Prandin, Starlix) Metformin (Glucophage, others) Acarbose (Precose)/Miglitol (Glyset) Proglitizone (Actos) or rosiglitazone (Avandia) GLP-1 med (Byetta, Bydureon, Victoza) DPP4 inhibitor (Januvia, Onglyza, Tradjenta)	in combinati 322 189 0 219 2 0 5 10	on 859 859 859 859 859 859 859 859	37% 22% 0% 25% 0% 0% 1% 1%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide, others) Glinide (Prandin, Starlix) Metformin (Glucophage, others) Acarbose (Precose)/Miglitol (Glyset) Proglitizone (Actos) or rosiglitazone (Avandia) GLP-1 med (Byetta, Bydureon, Victoza) DPP4 inhibitor (Januvia, Onglyza, Tradjenta) Amylin analog (Symlin) Bromocriptine (Cycloset)	in combinati 322 189 0 219 2 0 5 10 0	on 859 859 859 859 859 859 859 859 859	37% 22% 0% 25% 0% 0% 1% 1% 0%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide, others) Glinide (Prandin, Starlix) Metformin (Glucophage, others) Acarbose (Precose)/Miglitol (Glyset) Proglitizone (Actos) or rosiglitazone (Avandia) GLP-1 med (Byetta, Bydureon, Victoza) DPP4 inhibitor (Januvia, Onglyza, Tradjenta) Amylin analog (Symlin) Bromocriptine (Cycloset) Colesevelam (Welchol)	in combinati 322 189 0 219 2 0 5 10 0 0	on 859 859 859 859 859 859 859 859 859 859	37% 22% 0% 25% 0% 0% 1% 1% 0% 0% 0%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide, others) Glinide (Prandin, Starlix) Metformin (Glucophage, others) Acarbose (Precose)/Miglitol (Glyset) Proglitizone (Actos) or rosiglitazone (Avandia) GLP-1 med (Byetta, Bydureon, Victoza) DPP4 inhibitor (Januvia, Onglyza, Tradjenta) Amylin analog (Symlin) Bromocriptine (Cycloset)	in combinati 322 189 0 219 2 0 5 10 0 0 0 0	on 859 859 859 859 859 859 859 859 859 859	37% 22% 0% 25% 0% 0% 1% 1% 0% 0%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide, others) Glinide (Prandin, Starlix) Metformin (Glucophage, others) Acarbose (Precose)/Miglitol (Glyset) Proglitizone (Actos) or rosiglitazone (Avandia) GLP-1 med (Byetta, Bydureon, Victoza) DPP4 inhibitor (Januvia, Onglyza, Tradjenta) Amylin analog (Symlin) Bromocriptine (Cycloset) Colesevelam (Welchol) SGLT-2 Inhibitor (Invokana)	in combinati 322 189 0 219 2 0 5 10 0 0 0 0	on 859 859 859 859 859 859 859 859 859 859	37% 22% 0% 25% 0% 0% 1% 1% 0% 0% 0%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide, others) Glinide (Prandin, Starlix) Metformin (Glucophage, others) Acarbose (Precose)/Miglitol (Glyset) Proglitizone (Actos) or rosiglitazone (Avandia) GLP-1 med (Byetta, Bydureon, Victoza) DPP4 inhibitor (Januvia, Onglyza, Tradjenta) Amylin analog (Symlin) Bromocriptine (Cycloset) Colesevelam (Welchol) SGLT-2 Inhibitor (Invokana) Number of diabetes meds currently prescribed	in combinati 322 189 0 219 2 0 5 10 0 5 10 0 0 0	on 859 859 859 859 859 859 859 859 859 859	37% 22% 0% 25% 0% 0% 1% 1% 0% 0% 0% 0%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide, others) Glinide (Prandin, Starlix) Metformin (Glucophage, others) Acarbose (Precose)/Miglitol (Glyset) Proglitizone (Actos) or rosiglitazone (Avandia) GLP-1 med (Byetta, Bydureon, Victoza) DPP4 inhibitor (Januvia, Onglyza, Tradjenta) Amylin analog (Symlin) Bromocriptine (Cycloset) Colesevelam (Welchol) SGLT-2 Inhibitor (Invokana) Number of diabetes meds currently prescribed One med	in combinati 322 189 0 219 2 0 5 10 0 5 10 0 0 0 0 173	on 859 859 859 859 859 859 859 859 859 859	37% 22% 0% 25% 0% 0% 1% 1% 0% 0% 0% 0% 0%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide, others) Glinide (Prandin, Starlix) Metformin (Glucophage, others) Acarbose (Precose)/Miglitol (Glyset) Proglitizone (Actos) or rosiglitazone (Avandia) GLP-1 med (Byetta, Bydureon, Victoza) DPP4 inhibitor (Januvia, Onglyza, Tradjenta) Amylin analog (Symlin) Bromocriptine (Cycloset) Colesevelam (Welchol) SGLT-2 Inhibitor (Invokana) Number of diabetes meds currently prescribed One med Two meds	in combinati 322 189 0 219 2 0 5 10 0 5 10 0 0 0 0 0 0 0 0 0 0 0	on 859 859 859 859 859 859 859 859 859 859	37% 22% 0% 25% 0% 0% 1% 1% 0% 0% 0% 0% 0% 0% 0% 20% 12%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide, others) Glinide (Prandin, Starlix) Metformin (Glucophage, others) Acarbose (Precose)/Miglitol (Glyset) Proglitizone (Actos) or rosiglitazone (Avandia) GLP-1 med (Byetta, Bydureon, Victoza) DPP4 inhibitor (Januvia, Onglyza, Tradjenta) Amylin analog (Symlin) Bromocriptine (Cycloset) Colesevelam (Welchol) SGLT-2 Inhibitor (Invokana) Number of diabetes meds currently prescribed One med Two meds Three meds	in combinati 322 189 0 219 2 0 5 10 0 5 10 0 0 0 0 0 0 0 0 0 0 0 0 0	on 859 859 859 859 859 859 859 859 859 859	37% 22% 0% 25% 0% 0% 1% 1% 0% 0% 0% 0% 0% 0% 0% 20% 12% 14%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide, others) Glinide (Prandin, Starlix) Metformin (Glucophage, others) Acarbose (Precose)/Miglitol (Glyset) Proglitizone (Actos) or rosiglitazone (Avandia) GLP-1 med (Byetta, Bydureon, Victoza) DPP4 inhibitor (Januvia, Onglyza, Tradjenta) Amylin analog (Symlin) Bromocriptine (Cycloset) Colesevelam (Welchol) SGLT-2 Inhibitor (Invokana) Number of diabetes meds currently prescribed One med Two meds	in combinati 322 189 0 219 2 0 5 10 0 5 10 0 0 0 0 0 0 0 0 0 0 0	on 859 859 859 859 859 859 859 859 859 859	37% 22% 0% 25% 0% 0% 1% 1% 0% 0% 0% 0% 0% 0% 0% 20% 12%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide, others) Glinide (Prandin, Starlix) Metformin (Glucophage, others) Acarbose (Precose)/Miglitol (Glyset) Proglitizone (Actos) or rosiglitazone (Avandia) GLP-1 med (Byetta, Bydureon, Victoza) DPP4 inhibitor (Januvia, Onglyza, Tradjenta) Amylin analog (Symlin) Bromocriptine (Cycloset) Colesevelam (Welchol) SGLT-2 Inhibitor (Invokana) Number of diabetes meds currently prescribed One med Two meds Three meds Four or more meds	in combinati 322 189 0 219 2 0 5 10 0 5 10 0 0 0 0 0 0 0 0 0 0 0 0 0	on 859 859 859 859 859 859 859 859 859 859	37% 22% 0% 25% 0% 0% 1% 1% 0% 0% 0% 0% 0% 0% 0% 20% 12% 14%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide, others) Glinide (Prandin, Starlix) Metformin (Glucophage, others) Acarbose (Precose)/Miglitol (Glyset) Proglitizone (Actos) or rosiglitazone (Avandia) GLP-1 med (Byetta, Bydureon, Victoza) DPP4 inhibitor (Januvia, Onglyza, Tradjenta) Amylin analog (Symlin) Bromocriptine (Cycloset) Colesevelam (Welchol) SGLT-2 Inhibitor (Invokana) Number of diabetes meds currently prescribed One med Two meds Three meds Four or more meds ACE Inhibitor or ARB Prescribed	in combinati 322 189 0 219 2 0 5 10 0 5 10 0 0 0 0 0 0 0 0 0 0 0 0 0	on 859 859 859 859 859 859 859 859	37% 22% 0% 25% 0% 0% 1% 1% 0% 0% 0% 0% 20% 12% 14% 0%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide, others) Glinide (Prandin, Starlix) Metformin (Glucophage, others) Acarbose (Precose)/Miglitol (Glyset) Proglitizone (Actos) or rosiglitazone (Avandia) GLP-1 med (Byetta, Bydureon, Victoza) DPP4 inhibitor (Januvia, Onglyza, Tradjenta) Amylin analog (Symlin) Bromocriptine (Cycloset) Colesevelam (Welchol) SGLT-2 Inhibitor (Invokana) Number of diabetes meds currently prescribed One med Two meds Three meds Four or more meds ACE Inhibitor or ARB Prescribed In patients with known hypertension*	in combinati 322 189 0 219 2 0 5 10 0 5 10 0 0 0 0 0 0 0 0 0 0 0 0 0	on 859 859 859 859 859 859 859 859 859 859	37% 22% 0% 25% 0% 0% 1% 1% 0% 0% 0% 0% 0% 0% 0% 20% 12% 14%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide, others) Glinide (Prandin, Starlix) Metformin (Glucophage, others) Acarbose (Precose)/Miglitol (Glyset) Proglitizone (Actos) or rosiglitazone (Avandia) GLP-1 med (Byetta, Bydureon, Victoza) DPP4 inhibitor (Januvia, Onglyza, Tradjenta) Amylin analog (Symlin) Bromocriptine (Cycloset) Colesevelam (Welchol) SGLT-2 Inhibitor (Invokana) Number of diabetes meds currently prescribed One med Two meds Three meds Four or more meds ACE Inhibitor or ARB Prescribed	in combinati 322 189 0 219 2 0 5 10 0 5 10 0 0 0 0 0 0 0 0 0 0 0 0 0	on 859 859 859 859 859 859 859 859	37% 22% 0% 25% 0% 0% 1% 1% 0% 0% 0% 0% 20% 12% 14% 0%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide, others) Glinide (Prandin, Starlix) Metformin (Glucophage, others) Acarbose (Precose)/Miglitol (Glyset) Proglitizone (Actos) or rosiglitazone (Avandia) GLP-1 med (Byetta, Bydureon, Victoza) DPP4 inhibitor (Januvia, Onglyza, Tradjenta) Amylin analog (Symlin) Bromocriptine (Cycloset) Colesevelam (Welchol) SGLT-2 Inhibitor (Invokana) Number of diabetes meds currently prescribed One med Two meds Three meds Four or more meds ACE Inhibitor or ARB Prescribed In patients with known hypertension*	in combinati 322 189 0 219 2 0 5 10 0 5 10 0 0 0 0 0 0 0 0 0 0 0 0 0	on 859 859 859 859 859 859 859 859	37% 22% 0% 25% 0% 0% 1% 1% 0% 0% 0% 0% 20% 12% 14% 0%	
Diet and exercise alone Diabetes meds currently prescribed, alone or Insulin Sulfonylurea (glyburide, glipizide, others) Glinide (Prandin, Starlix) Metformin (Glucophage, others) Acarbose (Precose)/Miglitol (Glyset) Proglitizone (Actos) or rosiglitazone (Avandia) GLP-1 med (Byetta, Bydureon, Victoza) DPP4 inhibitor (Januvia, Onglyza, Tradjenta) Amylin analog (Symlin) Bromocriptine (Cycloset) Colesevelam (Welchol) SGLT-2 Inhibitor (Invokana) Number of diabetes meds currently prescribed One med Two meds Three meds Four or more meds ACE Inhibitor or ARB Prescribed In patients with known hypertension* In patients with increased	in combinati 322 189 0 219 2 0 5 10 0 0 0 0 0 0 173 102 118 4 341	on 859 859 859 859 859 859 859 859 859 859	37% 22% 0% 25% 0% 0% 1% 1% 0% 0% 0% 0% 20% 12% 14% 0% 51%	

Aspirin or Other Antiplatelet Therapy Prescr	ribed			
In the 356 patients with diagnosed CVD	205	356	58%	
Lipid Lowering Agent Prescribed				
Single lipid agent	179	859	21%	
Two or more lipid agents	29	859	3%	
None	651	859	76%	
none	001	000	,	
In patients prescribed one or more lipi	d agents:			
Statin (simvastatin/Zocor, others)	182	208	88%	
Statin prescribed in patients	102	200	008	
with diagnosed CVD:	110	356	31%	
Fibrate (gemfibrozil/Lopid, others)		208	13%	
	9			
Niacin (Niaspan, OTC niacin)	-	208	4%	
Bile Acid Sequestrant (cholestyrami		200	0.8	
Questran, others)	1	208	0%	
Ezetimibe (Zetia)	18	208	9%	
Fish Oil	1	208	0%	
Lovaza	1	208	0%	
LB Oct 16, 2	2013		Page 3	
IHS DIABETES CARE AND OUTCOMES A				
AUDIT REPORT FOR 2014 (Audit Perio	od 01/01/2013 t	0 12/31/2013	5)	
for 2013 DEMO H	HOSPITAL			
859 patients wer	re audited			
	# of #		Percent	
	Patients C	onsidered		
	(Numerator) (	Denominator)		
Exams				
Foot Exam - Neuro & Vasc	175	859	20%	
Eye Exam - Dilated or Retinal Camera	212	859	25%	
Dental Exam	193	859	22%	
Diabetes-Related Education				
Nutritional - by any provider	212	859	25%	
Nutritional - by RD	86	859	10%	
Physical Activity	133	859	15%	
Other	374	859	44%	
Any of above topics	396	859	46%	
	520	000	100	
Immunizations				
Flu Vaccine during audit period	345	859	40%	
Refused - Flu Vaccine	85	859	40%	
Pneumovax - ever	595	859	69%	
Refused - Pneumovax	8	859	1%	
Tetanus/Diptheria - past 10 years	562	859	65%	
Refused - Tetanus/Diptheria	12	859	1%	
Hepatitis B 3-dose series complete - ev		859	54%	
Refused - Hepatitis B	9	859	18	
Depression An Active Problem				
Yes	82	859	10%	
			0.0.0	
No	777	859	90%	
		859	90%	
No In patients without active depression,		859	90%	

for depression during the audit perio	d:			
Screened	326	777	42%	
Not Screened	451	777	58%	
not bereened	151	, , , ,	500	
Laboratory Exams				
eGFR to assess kidney function				
(In age 18 and above)	433	859	50%	
eGFR >= 60 ml/min	274	859	32%	
eGFR 30-59 ml/min	108	859	13%	
eGFR 15-29 ml/min	20	859	2%	
eGFR < 15 ml/min	31	859	4%	
eGFR Not tested or no valid result	426	859	50%	
Non-HDL cholesterol	257	859	30%	
Non-HDL <130 mg/dl	172	859	20%	
Non-HDL 130-159 mg/dl	43	859	5%	
Non-HDL 160-190 mg/dl	26	859	3%	
Non-HDL >190 mg/dl	16	859	2%	
Not tested or no valid result	602	859	70%	
LB Oct 16	, 2013		Page 4	
IHS DIABETES CARE AND OUTCOMES	AUDIT REPORT	- RPMS AUDIT		
AUDIT REPORT FOR 2014 (Audit Pe	riod 01/01/201	3 to 12/31/2	013)	
for 2013 DEMO	HOSPITAL			
	859	patients we	re audited	
	# of	#	Percent	
	Patients	Considered		
	Factence	Constaerea		
		(Denominato:		
LDL cholesterol				
LDL cholesterol LDL <100 mg/dl	(Numerator)	(Denominato:	<u>c</u> )	
	(Numerator) 252	(Denominato: 859	r) 29%	
LDL <100 mg/dl	(Numerator) 252 172	(Denominato: 859 859	r) 29% 20%	
LDL <100 mg/dl LDL 100-129 mg/dl	(Numerator) 252 172 53	(Denominato: 859 859 859	29% 20% 6%	
LDL <100 mg/dl LDL 100-129 mg/dl LDL 130-160 mg/dl	(Numerator) 252 172 53 17	(Denominato: 859 859 859 859 859	29% 20% 6% 2%	
LDL <100 mg/dl LDL 100-129 mg/dl LDL 130-160 mg/dl LDL >160	(Numerator) 252 172 53 17 10	(Denominato: 859 859 859 859 859 859	29% 20% 6% 2% 1%	
LDL <100 mg/dl LDL 100-129 mg/dl LDL 130-160 mg/dl LDL >160	(Numerator) 252 172 53 17 10	(Denominato: 859 859 859 859 859 859	29% 20% 6% 2% 1%	
LDL <100 mg/dl LDL 100-129 mg/dl LDL 130-160 mg/dl LDL >160 Not tested or no valid result HDL cholesterol In females	(Numerator) 252 172 53 17 10	(Denominato: 859 859 859 859 859 859	29% 20% 6% 2% 1%	
LDL <100 mg/dl LDL 100-129 mg/dl LDL 130-160 mg/dl LDL >160 Not tested or no valid result HDL cholesterol	(Numerator) 252 172 53 17 10	(Denominato: 859 859 859 859 859 859	29% 20% 6% 2% 1%	
LDL <100 mg/dl LDL 100-129 mg/dl LDL 130-160 mg/dl LDL >160 Not tested or no valid result HDL cholesterol In females	(Numerator) 252 172 53 17 10 607	(Denominato: 859 859 859 859 859 859 859	29% 20% 6% 2% 1% 71%	
LDL <100 mg/dl LDL 100-129 mg/dl LDL 130-160 mg/dl LDL >160 Not tested or no valid result HDL cholesterol In females HDL =<50 mg/dl	(Numerator) 252 172 53 17 10 607 125	(Denominato: 859 859 859 859 859 859 859	29% 20% 6% 2% 1% 71% 24%	
LDL <100 mg/dl LDL 100-129 mg/dl LDL 130-160 mg/dl LDL >160 Not tested or no valid result HDL cholesterol In females HDL =<50 mg/dl HDL >50 mg/dl	(Numerator) 252 172 53 17 10 607 125 32	(Denominato: 859 859 859 859 859 859 859 517 517	29% 20% 6% 2% 1% 71% 24% 6%	
LDL <100 mg/dl LDL 100-129 mg/dl LDL 130-160 mg/dl LDL >160 Not tested or no valid result HDL cholesterol In females HDL =<50 mg/dl HDL >50 mg/dl	(Numerator) 252 172 53 17 10 607 125 32	(Denominato: 859 859 859 859 859 859 859 517 517	29% 20% 6% 2% 1% 71% 24% 6%	
LDL <100 mg/dl LDL 100-129 mg/dl LDL 130-160 mg/dl LDL >160 Not tested or no valid result HDL cholesterol In females HDL =<50 mg/dl HDL >50 mg/dl Not tested or no valid result	(Numerator) 252 172 53 17 10 607 125 32	(Denominato: 859 859 859 859 859 859 859 517 517	29% 20% 6% 2% 1% 71% 24% 6%	
LDL <100 mg/dl LDL 100-129 mg/dl LDL 130-160 mg/dl LDL >160 Not tested or no valid result HDL cholesterol In females HDL =<50 mg/dl HDL >50 mg/dl Not tested or no valid result In males	(Numerator) 252 172 53 17 10 607 125 32 360	(Denominato: 859 859 859 859 859 859 517 517 517	29% 20% 6% 2% 1% 71% 24% 6% 70%	
LDL <100 mg/dl LDL 100-129 mg/dl LDL 130-160 mg/dl LDL >160 Not tested or no valid result HDL cholesterol In females HDL =<50 mg/dl Not tested or no valid result In males HDL =<40 mg/dl	(Numerator) 252 172 53 17 10 607 125 32 360 59	(Denominato: 859 859 859 859 859 859 517 517 517 517 342	29% 20% 6% 2% 1% 71% 24% 6% 70% 17%	
LDL <100 mg/dl LDL 100-129 mg/dl LDL 130-160 mg/dl LDL >160 Not tested or no valid result HDL cholesterol In females HDL =<50 mg/dl HDL >50 mg/dl Not tested or no valid result In males HDL =<40 mg/dl HDL >40 mg/dl	(Numerator) 252 172 53 17 10 607 125 32 360 59 41	(Denominato: 859 859 859 859 859 859 859 859	29% 20% 6% 2% 1% 71% 24% 6% 70% 17% 12%	
LDL <100 mg/dl LDL 100-129 mg/dl LDL 130-160 mg/dl LDL >160 Not tested or no valid result HDL cholesterol In females HDL =<50 mg/dl HDL >50 mg/dl Not tested or no valid result In males HDL =<40 mg/dl HDL >40 mg/dl	(Numerator) 252 172 53 17 10 607 125 32 360 59 41	(Denominato: 859 859 859 859 859 859 859 859	29% 20% 6% 2% 1% 71% 24% 6% 70% 17% 12%	
LDL <100 mg/dl LDL 100-129 mg/dl LDL 130-160 mg/dl LDL >160 Not tested or no valid result HDL cholesterol In females HDL =<50 mg/dl HDL >50 mg/dl Not tested or no valid result In males HDL =<40 mg/dl HDL >40 mg/dl Not tested or no valid result	(Numerator) 252 172 53 17 10 607 125 32 360 59 41 242	(Denominato: 859 859 859 859 859 859 859 859	29% 20% 6% 2% 1% 71% 24% 6% 70% 17% 12% 71%	
LDL <100 mg/dl LDL 100-129 mg/dl LDL 130-160 mg/dl LDL >160 Not tested or no valid result HDL cholesterol In females HDL =<50 mg/dl HDL >50 mg/dl Not tested or no valid result In males HDL =<40 mg/dl Not tested or no valid result Triglycerides TG =<400 mg/dl	(Numerator) 252 172 53 17 10 607 125 32 360 59 41 242 257	(Denominato: 859 859 859 859 859 859 859 859	29% 20% 6% 2% 1% 71% 24% 6% 70% 17% 12% 71% 30%	
LDL <100 mg/dl LDL 100-129 mg/dl LDL 130-160 mg/dl LDL >160 Not tested or no valid result HDL cholesterol In females HDL =<50 mg/dl HDL >50 mg/dl Not tested or no valid result In males HDL =<40 mg/dl HDL >40 mg/dl Not tested or no valid result Triglycerides	(Numerator) 252 172 53 17 10 607 125 32 360 59 41 242 257 248	(Denominato: 859 859 859 859 859 859 859 859	29% 20% 6% 2% 1% 71% 24% 6% 70% 17% 12% 71% 30% 29%	
LDL <100 mg/dl LDL 100-129 mg/dl LDL 130-160 mg/dl LDL >160 Not tested or no valid result HDL cholesterol In females HDL =<50 mg/dl HDL >50 mg/dl Not tested or no valid result In males HDL =<40 mg/dl HDL >40 mg/dl Not tested or no valid result Triglycerides TG =<400 mg/dl TG >400 mg/dl	(Numerator) 252 172 53 17 10 607 125 32 360 59 41 242 257 248 9	(Denominato: 859 859 859 859 859 859 859 859	29% 20% 6% 2% 1% 71% 24% 6% 70% 17% 12% 71% 30% 29% 1%	
LDL <100 mg/dl LDL 100-129 mg/dl LDL 130-160 mg/dl LDL >160 Not tested or no valid result HDL cholesterol In females HDL =<50 mg/dl HDL >50 mg/dl Not tested or no valid result In males HDL =<40 mg/dl HDL >40 mg/dl Not tested or no valid result Triglycerides TG =<400 mg/dl TG >400 mg/dl	(Numerator) 252 172 53 17 10 607 125 32 360 59 41 242 257 248 9	(Denominato: 859 859 859 859 859 859 859 859	29% 20% 6% 2% 1% 71% 24% 6% 70% 17% 12% 71% 30% 29% 1%	
LDL <100 mg/dl LDL 100-129 mg/dl LDL 130-160 mg/dl LDL >160 Not tested or no valid result HDL cholesterol In females HDL =<50 mg/dl HDL >50 mg/dl Not tested or no valid result In males HDL =<40 mg/dl HDL >40 mg/dl Not tested or no valid result Triglycerides TG =<400 mg/dl Not tested or no valid result	(Numerator) 252 172 53 17 10 607 125 32 360 59 41 242 257 248 9	(Denominato: 859 859 859 859 859 859 859 859	29% 20% 6% 2% 1% 71% 24% 6% 70% 17% 12% 71% 30% 29% 1%	
LDL <100 mg/dl LDL 100-129 mg/dl LDL 130-160 mg/dl LDL >160 Not tested or no valid result HDL cholesterol In females HDL =<50 mg/dl HDL >50 mg/dl Not tested or no valid result In males HDL =<40 mg/dl HDL >40 mg/dl Not tested or no valid result Triglycerides TG =<400 mg/dl Not tested or no valid result Urine Albumin:Creatinine Ratio (UACR)	(Numerator) 252 172 53 17 10 607 125 32 360 59 41 242 257 248 9 602	(Denominato: 859 859 859 859 859 859 859 859	29% 20% 6% 2% 1% 71% 24% 6% 70% 17% 12% 71% 30% 29% 1% 70%	
LDL <100 mg/dl LDL 100-129 mg/dl LDL 130-160 mg/dl LDL >160 Not tested or no valid result HDL cholesterol In females HDL =<50 mg/dl HDL >50 mg/dl Not tested or no valid result In males HDL =<40 mg/dl HDL >40 mg/dl Not tested or no valid result Triglycerides TG =<400 mg/dl TG >400 mg/dl Not tested or no valid result Urine Albumin:Creatinine Ratio (UACR) Yes	(Numerator) 252 172 53 17 10 607 125 32 360 59 41 242 257 248 9 602 160	(Denominato: 859 859 859 859 859 859 859 859	29% 20% 6% 2% 1% 71% 24% 6% 70% 17% 12% 71% 30% 29% 1% 70% 19%	

In 160 patients with UACR: Urine albumin excretion - Normal <30 mg/g	82	160	51%	
Urine albumin excretion - Increased	02	200	010	
30-300 mg/g	56	160	35%	
>300 mg/g	21	160	13%	
To not instance 10 and above				
In patients age 18 and above with eGFR =>30, UACR done	156	382	41%	
with cont , so, oner done	100	502	110	
Cardiovascular Disease				
Diagnosed CVD	356	859	41%	
Tuberculosis Status				
TB test +, untreated or tx unknown	93	859	11%	
TB test +, INH treatment complete	4	859	0%	
_				
TB test -, placed after DM diagnosis	281	859	33%	
TB test -, placed before DM diagnosis	33	859	4%	
TB test -, date of DM Dx or TB test date unknown	73	859	88	
TB test status unknown	375	859	44%	
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IHS DIABETES CARE AND OUTCOMES AUD: AUDIT REPORT FOR 2014 (Audit Period for 2013 DEMO HOSI 859 patients were	01/01/201 PITAL		.3)	
	of	 #	Percent	
Pa	atients	" Considered (Denominator)		
Combined Outcome Measures Records meeting ALL of the following criteria: Alc <8.0, LDL <100, and mean BP <140/<90	45	859	5%	
and mean br <140/590	40	620	2.9	
In age 18 and above, records with				
both an eGFR and a UACR	157	859	18%	
<pre>* Known hypertension: Has hypertension listed a diagnosed with hypertension. ** Increased urine albumin excretion: UACR =&gt;30</pre>		ve problem, or	:	

Figure 3-4: 2014 Cumulative Audit

### 3.3 Creating an Audit Export (Data) File

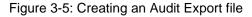
A script for running the 2014 Diabetes Audit and creating an Audit Export (Data) file for submission via the WebAudit is shown in Figure 3-5.

IHS recommends that the audit be run for the entire register unless a template must be created to eliminate patients on the register who are not active or do not have Type 1 or Type 2 diabetes.

- 1. At the Diabetes Management Systems menu, type **DA** and press Enter.
- 2. At the Diabetes QA Audit menu, type **DM14** (2014 Diabetes Program Audit) and press Enter. The following sequence displays:

```
ASSESSMENT OF DIABETES CARE, 2014
                   PCC DIABETES AUDIT
Enter the Official Diabetes Register: IHS DIABETES
Select 2014 Diabetes Program Audit Option: DM14 Run 2014 Diabetes Program
Audit
In order for the 2014 DM AUDIT Report to find all necessary data, several
taxonomies must be established. The following taxonomies are missing or
have no entries:
LABORATORY TEST taxonomy [DM AUDIT 24HR URINE PROTEIN] has no entries
DRUG taxonomy [DM AUDIT AMYLIN ANALOGUES] has no entries
DRUG taxonomy [DM AUDIT BROMOCRIPTINE DRUGS] has no entries
DRUG taxonomy [DM AUDIT EZETIMIBE DRUGS] has no entries
DRUG taxonomy [DM AUDIT FISH OIL DRUGS] has no entries
DRUG taxonomy [DM AUDIT GLP-1 ANALOG DRUGS] has no entries
DRUG taxonomy
               [DM AUDIT INCRETIN MIMETIC] has no entries
DRUG taxonomy
              [DM AUDIT LOVAZA DRUGS] has no entries
LABORATORY TEST taxonomy [DM AUDIT MICROALBUMINURIA TAX] has no entries
DRUG taxonomy [DM AUDIT SULFONYLUREA-LIKE] has no entries
LABORATORY TEST taxonomy [DM AUDIT TB LAB TESTS] has no entries
                       ASSESSMENT OF DIABETES CARE, 2014
                               PCC DIABETES AUDIT
Enter the Official Diabetes Register: IHS DIABETES
Enter the date of the audit. This date will be considered the ending
date of the audit period. For most data items all data for the period one
year prior to this date will be reviewed.
Enter the Audit Date: 12/31/13 (DEC 31, 2013)
     Select one of the following:
          Ρ
                   Individual Patients
          S
                    Search Template of Patients
          С
                   Members of a CMS Register
Run the audit for: P// C Members of a CMS Register
Enter the Name of the Register: IHS DIABETES
Do you want to select register patients with a particular status? Y// YES
Which status: A// ACTIVE
There are 1164 patients in the IHS DIABETES register with a status of A.
You have selected a register or template/cohort of patients.
You can run the audit just for the subset of patients in the cohort or
register who live in a particular community or have a particular primary
care provider.
```

Limit the audit to a particular primary care provider ? N//<ENTER> NO Limit the patients who live in a particular community ? N//<ENTER> NO There are 1164 patients selected so far to be used in the audit. Select one of the following: Α ALL Patients selected so far RANDOM Sample of the patients selected so far R Do you want to select: A// ALL Patients selected so far Select one of the following: Print Individual Reports 1 2 Create Audit Export file 3 Cumulative Audit Only 4 Both Individual and Cumulative Audits Enter Print option: 1// 2 Create Audit Export file The file generated will be in a "^" delimited format. You can use this file to review your data in EXCEL if you so choose. Enter the name of the FILE to be Created (3-20 characters): DKR AUDIT 14 I am going to create a file called dkr audit 14.txt which will reside in the C:\EXPORT\ directory on your RPMS server. It is the same directory that the data export globals are placed. See your site manager for assistance in finding the file after it is created. Jot down and remember the following file name: \* \* \* \* \* \* \* \* \* \* \*\*\*\*\*\*\* dkr audit 14.txt It may be several hours (or overnight) before your report and flat file are finished. The records that are generated and placed in file dkr audit 14.txt are in a format readable by Excel. For a definition of the format please see your user manual. Is everything ok? Do you want to continue? Y// YES Select one of the following: Ι Include ALL Patients Exclude DEMO Patients E 0 Include ONLY DEMO Patients Demo Patient Inclusion/Exclusion: E// Exclude DEMO Patients Won't you queue this ? Y// YES Requested Start Time: NOW// T@2000



Addendum to User Manual January 2014 Revised February 2014 3. Make a note of the file name and notify the RPMS site manager that an audit has been run. Provide the name of the file and the directory where the file is stored. The site manager will place the file in a shared folder on the server where it can be accessed and uploaded to the WebAudit.

# 4.0 Uploading the Export (Data) File to WebAudit

Upload the completed data file to WebAudit for data cleaning and report generation. For further information and WebAudit frequently asked questions, visit the IHS DDTP web site at:

http://www.ihs.gov/MedicalPrograms/Diabetes/index.cfm?module=resourcesAudit.

To upload the file:

- 1. Request and activate a WebAudit account if you do not already have one.
- 2. Log in to the WebAudit.
- 3. Select **Enter Facility Info** from the left hand menu or from the Main Menu select **Diabetes WebAudit Facility Administration** then **Enter Facility Information**.
- 4. Enter the number of active patients in your diabetes registry that meet the inclusion and exclusion criteria in Section 3.0 and whether your community receives SDPI funds. If it does, provide your Grant Number, also known as an Award Number, which can be found in item 4 in the most recent Notice of Award for your SDPI funds.
- 5. Click Save.
- 6. Select **Upload Data** from the left hand menu or from the Main Menu select **Diabetes WebAudit** then **Upload Data**.
- 7. Individuals with access to multiple facilities will need to select a Facility.
- 8. Select an Audit Type. For the annual Audit submitted to the IHS Division of Diabetes, you will select Annual Audit. For all other Audits, select Interim Audit.
- 9. Click **Browse** and navigate to the data file, then click **Open**.
- 10. When the data file has been selected, click **Upload File**.
- 11. If the upload of the data file is successful, you will receive a message on the screen telling you that the file was successfully uploaded.
- 12. If the upload is unsuccessful, you will receive an on-screen message telling you that the file upload attempt was unsuccessful, with a brief description of the problem.
- 13. Once the file has been successfully uploaded, proceed with checking the data quality and generating reports as described in the Audit 2014 instructions.

# 5.0 Importing the Audit Export (Data) File to Excel

The 2014 Diabetes Audit export file is a delimited text file. This means that the file has all of the audit data elements for each patient in a single row in fields separated by a caret (^). Not only can the file be uploaded to the WebAudit, but it can also be imported into Excel for local use. The data fields are identified by headers in the first row of the file.

See Appendix B: for the Audit Export file field definitions.

Figure 5-1 shows an Audit Export file opened in Notepad:

Figure 5-1: Audit Export file displayed in notepad

To import a file into Excel:

- 1. Open a blank Excel worksheet.
- 2. Click **Open** and browse to the folder containing the Audit Export file.

🔁 Open			<b>x</b>
Compu	ter 🕨 OS (C:) 🕨 EXPORT 🔍 🗸	Search EXPORT	Q
Organize 🔻 New fol	der		
Downloads	Name	Date modified 1/29/2011 4:02 PM	Type Text Docu
📜 Libraries	DKR GUI TEST 2.txt dkr rpms audit.txt GUI FILE FOR KAREN.txt	1/29/2011 3:59 PM 1/26/2011 8:26 PM 1/31/2011 4:49 PM	Text Docu Text Docu Text Docu
<ul> <li>J Music</li> <li>S Pictures</li> <li>S Videos</li> </ul>		1/31/2011 4.45 FW	Text Doct
輚 Homegroup			
🖳 Computer	1		
🚢 OS (C:)			
👷 MEMORYCARD (	•		•
File	name:		•
	Too <u>l</u> s ▼	All Files (*.*) All Excel Files (*.xl*;*.xlsx;* Excel Files (*.xl*;*.xlsx;*.xlsx;	

Figure 5-2: Excel Open dialog

- 3. Change the file type from **All Excel Files** to **All Files** in the list (Figure 5-2). This is necessary in order to see the Audit Export file name, which is not in an Excel format at this time.
- 4. Select the Audit Export file to be imported.
- 5. Click **Open**. The **Text Import Wizard** dialog, Step 1 of 3 (Figure 5-3) displays.

Text Import Wizard - Step 1 of 3	? <b>×</b>
The Text Wizard has determined that your data is Delin If this is correct, choose Next, or choose the data type Original data type	
Choose the file type that best describes your data: Delimited     - Characters such as commas or Fixed width     - Fields are aligned in columns w	
Start import at row: 1 File origin:	437 : OEM United States
Preview of file C:\EXPORT\DKR GUI TEST 2.txt.	
2 12/31/2010°CIMARRON HOSPITAL^50°52 3 12/31/2010°CIMARRON HOSPITAL^50°52 4 12/31/2010°CIMARRON HOSPITAL^50°52	ITY^REGNUM^REVIEWER^TRIBAL^STATE^CHART
	ncel < Back <u>N</u> ext > <u>F</u> inish

Figure 5-3: Text Import Wizard dialog, Step 1 of 3

- 6. If the **Text Import Wizard** does not correctly identify that this is a delimited file, select **Delimited**.
- 7. Click Next. The Text Import Wizard dialog, Step 2 of 3 (Figure 5-4) displays.

Text Import Wizard - Step 2 of 3			? ×
This screen lets you set the delimiters your d below.	data contains. You can see ł	how your text is affected in the	preview
Delimiters Tab Semicolon Comma Space Qther: ^ Data greview	ve delimiters as one		
12/31/2010 CIMARRON HOSPITAL 12/31/2010 CIMARRON HOSPITAL 12/31/2010 CIMARRON HOSPITAL	50 52 01 50 52 01 50 52 01 50 52 01 50 52 01	REGNUM         REVIEWER         TRIBAL           33         DKR         043           33         DKR         043           33         DKR         022           33         DKR         022           33         DKR         022           Back         Next >         Next >	STA: A OK OK OK OK V F

Figure 5-4: Text Import Wizard dialog, Step 2 of 3

- 8. Under **Delimiters**, select **Other** and type a caret (^) in the field to the right of the **Other** choice.
- 9. Deselect **Tab**.
- 10. Click Next. Vertical lines will display between the columns of data.
- 11. Click **Finish** to complete the import to Excel.

Columns may be expanded and data sorted as desired.

To save the file in Excel format:

- 1. Select Save As.
- 2. Save as type Excel. Save the Excel file in a secure folder as identified by the information technology staff.

**Note**: The Excel file cannot be uploaded to the Web Audit.

Importing the Audit Export (Data) File to Excel

### 6.0 Displaying 2014 Diabetes Audit Logic

The revised logic for the 2014 Diabetes Audit is provided under the menu option DAL in the DA Diabetes QA Audit menu as shown in Figure 6-1:

- 1. At the Diabetes Management Systems menu, type **DA** and press Enter.
- 2. At the Diabetes QA Audit menu, type **DAL** (Display Audit Logic) and press Enter.
- 3. At the "Select DMS AUDIT ITEM DESCRIPTIONS AUDIT YEAR" prompt, Type **2014** for the audit year and press Enter to display the item list (Figure 6-1).

DM AUDIT ITEM DESCRIPTION DM Logic Display	Oct 22, 2013 13:09:32	Page: 1 of 1
<ol> <li>FACILITY NAME</li> <li>REVIEWER INITIALS</li> <li>STATE OF RESIDENCE</li> <li>CHART NUMBER</li> <li>DATE OF BIRTH</li> <li>SEX</li> <li>PRIMARY CARE PROVIDE</li> <li>DATE OF DIABETES DIA</li> <li>DM TYPE</li> <li>TOBACCO USE</li> <li>TOBACCO REFERRED FOR</li> <li>HEIGHT</li> <li>WEIGHT</li> <li>BMI</li> </ol>	<ul> <li>23) DM EDUCATION (OTHER)</li> <li>24) DEPRESSION AN ACTIVE</li> <li>25) DEPRESSION SCREENING</li> <li>26) DM THERAPY</li> <li>27) ACE INHIBITOR/ARB</li> <li>28) ASPIRIN/ANTIPLATELET</li> <li>29) LIPID LOWERING AGENT</li> <li>30) TB TESTING</li> <li>31) TB Test result</li> <li>32) TB RESULT POSITIVE,</li> <li>33) TB RESULT NEGATIVE,</li> </ul>	<pre>36) PNEUMOVAX EVER 37) HEPATITIS B 38) TD OR TDAP IN PAST 1 39) HBA1C (most recent) 40) SERUM CREATININE 41) ESTIMATED GFR 42) TOTAL CHOLESTEROL 43) HDL CHOLESTEROL 44) LDL CHOLESTEROL 45) TRIGLYCERIDES 46) NON-HDL 47) UACR 48) COMBINED OUTCOMES ME</pre>
Enter ?? for mor S Select Item		Quit
Select Action: +// S		

Figure 6-1: Displaying 2014 Audit Logic

- 4. At the "Select Action" prompt, type **S** and press Enter to enable selection of an audit logic item for review.
- 5. At the next "Select Action" prompt, type the number of the logic item to be displayed and press Enter.

See Appendix A: for a complete listing of logic for all audit items.

# 7.0 Audit Resources

DMS v2.0 User Manual, (bdm\_020u.pdf).

Complete 2014 Diabetes Audit information is at the IHS DDTP web site (Figure 7-1): <u>http://www.ihs.gov/MedicalPrograms/Diabetes/index.cfm?module=resourcesAudit</u>:

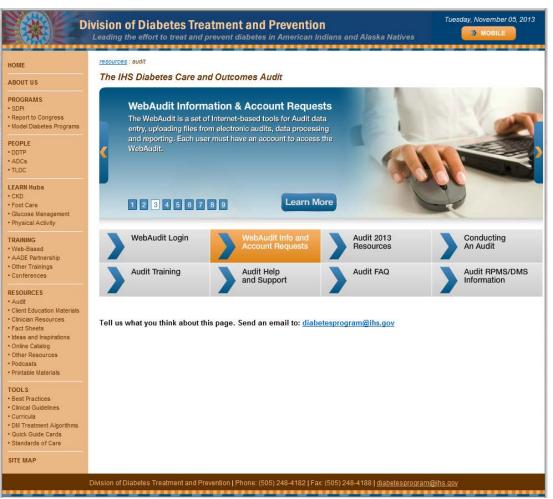


Figure 7-1: IHS Diabetes Care and Outcome Audit web site

IHS Standards of Care and Clinical Practice Recommendations: Type 2 Diabetes are at: <u>http://www.ihs.gov/MedicalPrograms/Diabetes/index.cfm?module=soc</u>.

### 8.0 Diabetes Care Summary

The Diabetes Care Summary or Supplement displays as the last page of a Health Summary or can be displayed or printed as a standalone document. The Diabetes Care Summary uses the same taxonomies and logic used for the Diabetes Audit. Results display based on the last data available rather than the audit year. Missing or inaccurate data may be a warning that taxonomies should be reviewed and updated. To display the Diabetes Care Summary:

- 1. At the Diabetes Management Systems menu, type **DA** and press Enter.
- 2. At the Diabetes QA Audit menu, type **DPCS** (Display a Patient's DIABETES CARE SUMMARY) and press Enter. The Diabetes Care Summary (Figure 8-1) displays:

```
********* CONFIDENTIAL PATIENT INFORMATION [DKR] Oct 22, 2013 *********
DIABETES PATIENT CARE SUMMARYReport Date: 10/22/2013Patient Name:FRANCIS,CAROL ANNHRN: 211424INDIAN/ALASKA NATIVE
                                                   Report Date: 10/22/2013
Age:67Sex:FDate of DM Onset:02/17/2004 (Diabetes Register)DOB:01/05/1946DM Problem #: *** NONE RECORDED ***<br/>Designated PCP: MORRISON,STEPHANIE LLast Height:60 inches10/01/2013Last Weight:210 lbs10/01/2013
Last Waist Circumference: <None Recorded>
Tobacco Use: Not a Current User NEVER SMOKED Feb 17, 2004
HTN Diagnosed: No
CVD Diagnosed: No
ON ACE Inhibitor/ARB in past 6 months: Yes - 10/01/2013
Aspirin Use/Anti-platelet (in past yr): Yes - 10/01/2013 ASPIRIN 325MG T
Last 3 BP: 150/82 10/01/2013 Is Depression on the Problem List?
(non ER) 152/80 09/01/2013 No
200/94 02/17/2004 If no, Depression Screening in past year?
                                                 Yes - Exam: DEPRESSION SCR
10/01/2013
In past 12 months:
Diabetic Foot Exam: Yes - Diabetic Foot Exam - 10/01/2013
Diabetic Eye Exam: Yes - Diabetic Eye Exam - 10/01/2013
Dental Exam: No
Last Mammogram:
Last Pap Smear:
                        <None on file>
Immunizations:
Flu vaccine since August 1st: Refused FLU VACCINE CVX 135 on 10/01/2013
Pneumovax ever:
                                         No
Hepatitis B series complete (ever):No
Td in past 10 yrs:
                                          No
PPD Status: Known Positive PPD or Hx of TB (Health Factor recorded)
Last TB Status Health Factor: TX INCOMPLETE Last CHEST X-RAY:
Laboratory Results (most recent):RPMS LAB TESTHbAlc:10.110/01/2013 HGB A1C (WWH)
                                                            RPMS LAB TEST NAME
 HbAlc:
Next most recent HbAlc:
 Creatinine:
                                               10/21/2013 CREATININE
 Estimated GFR:
                                               10/21/2013 ESTIMATED GFR
```

Addendum to User Manual January 2014 Revised February 2014 **Diabetes Care Summary** 

Total Cholesterol: Non-HDL Cholesterol:	230 195	10/01/2013 CHOLESTEROL 10/01/2013 [Calculated Value]
LDL Cholesterol:	130	10/01/2013 LDL (CALCULATED)
HDL Cholesterol:	35	10/01/2013 HDL
Triglycerides:	300	10/01/2013 TRIGLYCERIDE
Urine Protein Assessment:		
UACR (Quant A/C Ratio):	35	10/01/2013 MICROALBUMIN/CREATININE R
DM Education Provided (in Last Dietitian Visit: DM-COMPLICATIONS DM-NUTRITION	past yr): 10/01/2 10/01/2	

Figure 8-1: Diabetes Patient Care Summary sample

#### 9.0 Master List

The Master List under Register Reports has been totally redesigned to better meet users' needs. The new Master List has a different approach to user selection of sorting criteria and provides a total for the number of patients on the report as well as a subtotal for each sub-category. In addition a column has been added to show each patient's last visit date.

The menu path for accessing the Master List has not been changed and is shown in Figure 9-1.

```
RP Reports ...
RR Register Reports ...
ML Master List
```

Figure 9-1: Menu for Master List

The Master List may be run as follows in Figure 9-2. In this example, the user wishes a subtotal of patients sorted by Register Status.

```
Select Register Reports Option: ML
                             DEMO INDIAN HOSPITAL
                                DEMO, PROVIDER
                         DIABETES REGISTER MASTER LIST
This report will list all patients on the Diabetes Register.
You will be able to select which patients will be included on the list
based on any of the following:
     - Register Status
     - Age
     - Community of Residence
     - Gender
     - Case Manager
     - Where Followed
Enter the Name of the Register: IHS DIABETES
Do you want to select register patients with a particular status? Y// NO
Would you like to restrict the master list by Patient age range?
NO//<ENTER>
     Select one of the following:
                   One particular Community
          0
          А
                    All Communities
                   Selected Set of Communities (Taxonomy)
          S
Include Patients: A//<ENTER> All Communities
     Select one of the following:
          М
                    MALES
```

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F FEMALES U UNKNOWN Α ALL Genders Include which Gender(s): A// <ENTER> ALL Genders Do you want to select register patients with a particular CASE MANAGER? N//<ENTER> NO Do you want to select patients with a particular facility WHERE FOLLOWED? N// <ENTER> NO This list can be sorted by a primary and optionally a secondary sort value. Select one of the following: Ρ Patient Name S Register Status А Age С Community G Gender М Case Manager W Where Followed Select Primary Sort Value: Register Status You can optionally sort by a second sort value. If you do not pick a secondary sort value it will default to patient name. Select one of the following: Ρ Patient Name А Age С Community G Gender М Case Manager Where Followed W Select one of the following: Ρ Print the List Browse the List on the Screen в S Save as a Search Template Output Type: P// B OUTPUT BROWSER Oct 23, 2013 16:17:20 Page: 1 of 2 \*\*\*\*\*\*\*\*\* CONFIDENTIAL PATIENT INFORMATION \*\*\*\*\*\*\*\*\* DKR Page 1 DEMO INDIAN HOSPITAL DIABETES REGISTER MASTER LIST Total number of patient selected for this report: 9 HRN PATIENT CASE MANAGER LAST VISIT NEXT REVIEW \_\_\_\_\_ Register Status: ACTIVE (Subtotal: 8) 211424 DEMO, PATIENT A 10/21/2013 201686 DEMO, PATIENT B 09/01/2013 127912 DEMO, PATIENT C 09/26/2013

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876 DEMO, PATIENT D

09/26/2013

Figure 9-2: Creating Master List sorted by Patient Status

# **10.0 Adding Local Option Information**

If a site needs to add or update Local option information before running the audit or for internal use, it may do so in RPMS or Visual DMS using the Patient Management option.

Local options have two components:

- A code between 0 and 9 (site decides what codes represent)
- Text (determined by the site)

**Note:** There are currently no reports in RPMS other than the Diabetes Audit that will allow display or summary of local option entries.

Figure 10-1 shows a Local Option for a Self-Management Goal of Exercise 3 times per week has been added.

```
РМ
         Patient Management
Register Data
                                       Feb 27, 2012 10:25:28
                                                                           Page: 1 of 1
         PATIENT: GUMP, FOREST
         ADDRESS: 102 FRONT STREET, HUGO, OK, 74366
PHONE: 715-456-8970
                                                                               AGE: 40
                                                                                DOB: 03/16/1970
                                                                               HRN: 989898
PRIM CARE PROV: SHORR, GREGORY
                                                                               RES: CLAREMORE
         STATUS: ACTIVE
WHERE FOLLOWED: SELLS HOSP
 REGISTER PROV: CURTIS, A CLAYTON
                                                  CASE MGR:
         CONTACT: Mother
     ENTRY DATE: MAY 17,2006
                                                                    LAST EDITED: JAN 29,2012
      DIAGNOSIS: IMPAIRED GLUCOSE TOLERANCE
                                                                    ONSET DATE: SEP 2,2004
                                            1000
      DIAGNOSIS: TYPE 2
                                                                     ONSET DATE: JUN 12,2006
                                                                     ONSET DATE: MAY 17,2006
  COMPLICATIONS: RETINOPATHY
                                                                              FEB 8,2010
                    PERIODONTITIS
                     CVA (STROKE)
                                                                                       JAN 12,2012
CVA (STROKE)JAN 12,2012- Previous ScreenQ Quit?? for More Actions1 Edit Register Data8 DIABETES Medications15 DIABETES Lab Profile2 Complications9 Review Appointments17 Pat. Face Sheet3 Comments10 Audit Status18 Send Mail Message4 Health Summary11 Flow Sheet19 Local Option Entry5 Last Visit12 Case Summary20 Diagnosis6 Other PCC Visit13 Edit Problem List21 Print Letter7 Medications14 Lab Profile
Select Action: Quit// 19 <ENTER>
DM AUDIT LOCAL OPTION CODE: 3
DM AUDIT LOCAL OPTION TEXT: EXERCISE 3X/WK
```

Figure 10-1: Add a Local option code and text

Addendum to User Manual January 2014 Revised February 2014 In Visual DMS, the Local Option may be displayed, added, or edited. To access the local option in Visual DMS:

1. Click to expand the **Patient Management** menu (Figure 10-2).

		x
Select Patient   Delete Patient   Switch Register   Report Status   Exit System Menu	Help	About
Patient Management Patient Profile Complications Comments Health Summary Last Visit Other PCC Visit Medications Diabetes Medications Audit Status Flow Sheet Case Summary Update Problem List Lab Profile Diabetes Lab Profile Local Option Entry Patient Face Sheet Diagnosis Graph Patient Data Reports Register Maintenance Diabetes QA Audit Update Patient Data Health Summary		
GUMP,FOREST Chart: 989898 Sex: F DOB: Mar 16, 1970		h

Figure 10-2: Visual DMS page with Patient Management menu expanded

2. Select Local Option Entry from the Patient Management menu; the Local Option Entry dialog Figure 10-3 displays.

🖳 Local Option Entry	
DM Audit Local Option Code	ОК
8	Close
DM Audit Local Option Text	
EXERCISE 3X/WK	

Figure 10-3: Local Option Entry dialog

- 3. Type the local code in the **DM Audit Local Option Code** field.
- 4. Type the option text in the **DM Audit Local Option Text** field.
- 5. Click OK.

# 11.0 Visual DMS – Patient Management

The Patient Management option has been modified in Visual DMS to display only the last four digits of a patient's Social Security Number.

Select Patient   Delete Patient   Switch	n Register	Report Status	Exit System	n Help	About
Menu					
Patient Management					
···· Patient Profile					
··· Complications					
··· Comments					
··· Health Summary					
···· Last Visit					
··· Other PCC Visit					
Medications					
··· Diabetes Medications					
··· Review Appointments					=
··· Audit Status					
···· Flow Sheet					
···· Case Summary					
···· Update Problem List					
···· Lab Profile					
···· Diabetes Lab Profile					
Local Option Entry					
···· Patient Face Sheet					
···· Diagnosis					
i∰. Graph Patient Data					
Reports					
Follow Up Needed					
List Patient Appointments					
Blood Glucose Self Monitoring Report					
··· Display a Patient's DIABETES CARE					
— List Labs/Medications Used at this Fa — Patients With No DX of DM on Proble					
DM Register Pts With No Recorded I List Patients on a Register w/an Appr					

Figure 11-1: Visual DMS window

To view this change:

1. Click **Select Patient** from the toolbar on the **Visual DMS** window. The **Select Patient** dialog (Figure 11-2) displays.

Type Patient Name: (Last Name, Fir PARKER		(	ALL	•
Patient List				
Patient Name	SSN	Chart #	DOB	-
PARKER, ALLISON RENEE	XXX-XX-9309	190347	Jan 12, 1977	Ξ
PARKER, AMBER LAYNE		190790	Feb 08, 1999	
PARKER, BILLY RAYMOND	XXX-XX-0318	166161	Nov 27, 1993	
PARKER, BOBBY RAY	XXX-XX-3690	136849	Feb 09, 1989	
PARKER, BRENDA JANELL	XXX-XX-2984	210752	Nov 21, 1997	
PARKER,CECIL E	XXX-XX-0078	198295	Dec 20, 1977	
JONES, JAMES EUGENE	XXX-XX-5922	116794	Dec 04, 1941	
PARKER, DAVID LEON	XXX-XX-6554	169554	Jul 01, 1994	
	VVV VV 1000	104001	L 04 107E	
•				P
			More	

Figure 11-2: Select Patient dialog

- 2. Type the patient's Last Name or chart number in the **Type Patient Name** field.
- 3. Click **Display**. Note how the SSN is displayed.

### 12.0 Visual DMS – Multiple Health Summaries

The option to generate multiple health summaries has been added to the listed options available on the main Visual DMS Menu.

1. Click **Multiple Health Summaries** from the **Menu** on the **Visual DMS** page to display the **Health Summary** dialog (Figure 12-1).

🖶 Visual DMS	S (Register: IHS DIABETES)
Menu I ∰ · Patient Ma	nt   Delete Patient   Switch Register   Report Status   Exit System   Help   About
<ul> <li>Preports</li> <li>Pregister I</li> <li>Diabetes</li> <li>Update P</li> <li>Health Su</li> <li>Multiple H</li> </ul>	Health Summary

Figure 12-1: Visual DMS page with Health Summary dialog displayed

2. Select the type of health summary to be displayed from the **Health Summary** dialog's list. The **Multiple Patient Select** dialog (Figure 12-2) displays.

🖶 Multiple Patient Select		
Type Patient Name: (Last Name, First or SSN or HRCN or DOB (01/01/2000))	Matches ALL 🗸	Display

Figure 12-2: Multiple Patient Select dialog, upper portion

3. Type the patient's last name or chart number in the **Type Patient Name** field and click **Display**. The dialog redisplays (Figure 12-3) with the patient's information displayed in the **Patient List** field.

Type Patient Name: (Last Name, Fir	rst or SSN or HRCN or D	OB (01/01/2000	))) Matches ALL	Display
Patient List				
Patient Name	SSN	Chart #	DOB	IEN
MARTIN, WILLIAM PERRY	XXX-XX-7934	211423	Mar 17, 1942	129851
< Patients Selected	III			
Patient Name	SSN	Chart #	DOB	IEN
WEBBER, DANIEL R JR	XXX-XX-6793	211284	Nov 02, 1933	129711
DEMO,LENNY DEE	XXX-XX-0527	201686	May 08, 1943	120100
MARTIN, WILLIAM PERRY	XXX-XX-7934	211423	Mar 17, 1942	129851
•				
				More

Figure 12-3: Multiple Patient Select dialog

- 4. Click the name in the **Patient List** to place the patient on the **Patients Selected** list in the lower half of the dialog.
- 5. Repeat Steps 3 and 4 to add additional patients to the Patients Selected list.
- 6. Click **Save** to generate a separate health summary in Microsoft<sup>®</sup> Word<sup>®</sup> format for each patient.

**Note:** Even though a patient name may remain in the Patient List field, once their name appears in the Patients Selected field, a health summary will be generated for that patient.

# 13.0 Visual DMS – Display Audit Logic

The option **Display Audit Logic** has been added to the **Diabetes QA Audit Menu**. To display Audit Logic:

1. Click to expand the **Diabetes QA Audit** menu on the **Visual DMS** dialog (Figure 13-1).

🖳 Visual DMS (Register: IHS DIABETES	5) —			
Select Patient   Delete Patient   Swi	itch Register	Report Status	Exit System	Help About
<ul> <li>Patient Management</li> <li>Reports</li> <li>Register Maintenance</li> <li>Diabetes QA Audit</li> <li>2014 Diabetes Program Audit</li> <li>2013 Diabetes Program Audit</li> <li>2012 Diabetes Program Audit</li> <li>2011 Diabetes Program Audit</li> <li>2010 Diabetes Program Audit</li> <li>2009 Diabetes Program Audit</li> <li>2009 Diabetes Program Audit</li> <li>2007 Diabetes Program Audit</li> <li>Wiplay Audit Logic</li> <li>Update Patient Data</li> <li>Health Summary</li> <li>Multiple Health Summaries</li> </ul>				
No Patient Selected				

Figure 13-1: Visual DMS page, showing the Display Audit Logic menu option

2. Click **Display Audit Logic** to display the **Display Audit Logic** dialog (Figure 13-2).

Audit Year		
ogic items	Select Logic Items Selected	

Figure 13-2: Display Audit Logic dialog

- 3. Select the **Audit Year** from the list. The Logic Items display in the field on the left half of the dialog.
- 4. Click one or more **Logic Items** (hold down control key while clicking to select more than one item) to highlight them.

Audit Year			
• •			
.ogic Items		Select	Logic Items Selected
Logic Item	*	>	Logic Item
DENTAL EXAM DEPRESSION AN ACTIVE PROBLEM? DEPRESSION SCREENING OM EDUCATION (OTHER) OM THERAPY DM TYPE EYE EXAM (dilated or retinal camera) FACILITY NAME	ш	*	e GFR and a UACR ESTIMATED GFR
CU VACCINE COT EXAM (COMPLETE)		<	
HBA1C (most recent)	-	<<	

Figure 13-3: Display Audit Logic dialog showing data items selected

- 5. Click the right arrow (>) button to move the selected **Logic Items** to the **Logic Items Selected** field (Figure 13-3).
- 6. Click **OK**; the Audit Logic for the selected **Logic Items** displays in a dialog (Figure 13-4).

Help	
e-GFR and a UACR	
For patients 18 years of age and older those who had both an e-GFR and a	
UACR test during the audit period.	
ESTIMATED GFR	
For patients that are 18 or older, the last lab test in the year prior to	
the audit date that is a member of the BGP GPRA ESTIMATED GFR TAX or the	
BGP ESTIMATED GFR LOINC taxonomy is found.	
For the individual audit sheet the actual value that is in V LAB is	
displayed. If there is no Estimated GFR found in V LAB but there is a	
Creatinine value found the Estimated	
For the cumulative audit:	
If the first character of the value is ">" it goes into >=60 ml/min	
All characters other than numbers and "."'s are stripped from the result	
value	
The resulting value is placed in the following categories:	
F blank - no category assigned	
30-59	
15-29	
<15	

Figure 13-4: Dialog displaying Audit Logic for eGFR and UACR and ESTIMATED GFR

### 14.0 Visual DMS – List Labs/Medications Used at This Facility

The option to print the Lists of Labs or Medications used at a facility during the audit period helps in identifying any labs or medications that may have been missed when populating taxonomies.

1. Click to expand the **Reports** menu on the **Visual DMS** dialog (Figure 14-1).

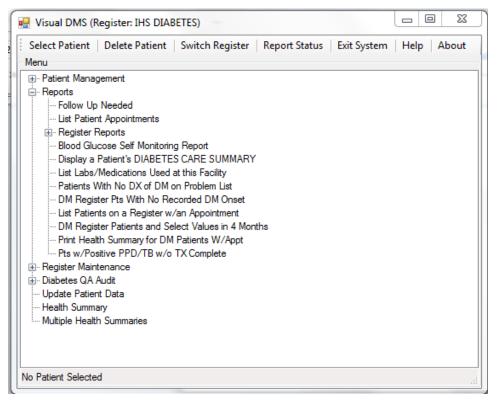


Figure 14-1: Visual DMS page with Reports menu expanded

2. Click List Labs/Medications Used at this Facility to display the Lab/Medication Report dialog (Figure 14-2).

🖳 Lab/Medication Report 💷 😐	23
Report Type	
Labs	
Begin Date	
Friday , March 01, 2013	
End Date	
Thursday , October 24, 2013	
Queue	.11

Figure 14-2: Lab/Medication Report dialog

- 3. Select the **Report Type**.
- 4. Set the **Begin Date** and **End Date** for the report and click **Queue**. The report is queued to run in the background.

**Note:** The Diabetes Audit only reviews drugs prescribed during the six months preceding the audit date except for Aspirin. Labs are checked for the entire audit year. Selection options are shown in Figure 14-2.

5. To check report status, click **Report Status** on the **Visual DMS** main page. The **Report Status Check** page (Figure 14-3) displays.

Name	User	Start Time	End Time	Option	Report Status
1.63119,42789	RUSSELL, DOROTHY	Oct 24, 2013@11:53:09	Oct 24, 2013@11:54:38	Lab/Medication Report	COMPLETED
1.63119,31030	RUSSELL, DOROTHY	Oct 24, 2013@08:37:10	Oct 24, 2013@08:37:11	Follow-Up Needed	COMPLETED
1.63118,39318	RUSSELL, DOROTHY	Oct 23, 2013@10:55:18	Oct 23, 2013@10:55:19	2014 Diabetes Program Audit	COMPLETED
1.63118,39220	RUSSELL, DOROTHY	Oct 23, 2013@10:53:40	Oct 23, 2013@10:53:43	2014 Diabetes Program Audit	COMPLETED
1.63118,38535	RUSSELL, DOROTHY	Oct 23, 2013@10:42:15	Oct 23, 2013@10:42:21	Lab/Medication Report	COMPLETED
1.63118,38224	RUSSELL, DOROTHY	Oct 23, 2013@10:37:04	Oct 23, 2013@10:37:45	Lab/Medication Report	COMPLETED
1.63118,38190	RUSSELL, DOROTHY	Oct 23, 2013@10:36:30	Oct 23, 2013@10:36:32	Lab/Medication Report	COMPLETED
1.63118,38080	RUSSELL, DOROTHY	Oct 23, 2013@10:34:40	Oct 23, 2013@10:34:41	Follow-Up Needed	COMPLETED
1.63105,70761	RUSSELL, DOROTHY	Oct 10, 2013@19:39:21	Oct 10, 2013@19:39:23	2014 Diabetes Program Audit	COMPLETED
1.63105,69560	RUSSELL, DOROTHY	Oct 10, 2013@19:19:20	Oct 10, 2013@19:19:25	2014 Diabetes Program Audit	COMPLETED
1.63049,43423	RUSSELL, DOROTHY	Aug 15, 2013@12:03:43	Aug 15, 2013@12:03:45	2013 Diabetes Program Audit	COMPLETED
1.63049,43304	RUSSELL, DOROTHY	Aug 15, 2013@12:01:44	Aug 15, 2013@12:01:46	2013 Diabetes Program Audit	COMPLETED
1.63049,43207	RUSSELL, DOROTHY	Aug 15, 2013@12:00:11	Aug 15, 2013@12:00:12	2013 Diabetes Program Audit	COMPLETED
1.63049,43057	RUSSELL, DOROTHY	Aug 15, 2013@11:57:37	Aug 15, 2013@11:57:38	2013 Diabetes Program Audit	COMPLETED
1.63048,36327	RUSSELL,DOROTHY	Aug 14, 2013@10:05:27	Aug 14, 2013@10:05:35	2013 Diabetes Program Audit	COMPLETED

Figure 14-3: Reports displayed in the **Report Status Check** page

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Visual DMS - List Labs/Medications Used at This Facility

6. Click a report listing to display that report in a Microsoft Word document (Figure 14-4). Any Lab or Medication already included in a taxonomy will be identified with that taxonomy indented and listed under the Lab or Medication.

MEDICATIONS (DR			
		2013 - Dec 31,	2013
MEDICATION/DRUG NAME	TEN	# DONE	
TAXONOMIES			
ACETAMINODHEN 120MC STUD DT	83605	1	
ACETAMINOPHEN 120MG SOFF KIL	8/130	96	
ACETAMINOPHEN 120MG SUPP RTL ACETAMINOPHEN 120MG/CODEINE 12 ACETAMINOPHEN 300MG W/CODEINE	84177	2 196	
ACETAMINOPHEN 300MG W/CODEINE	263	2,490	
ACETAMINOPHEN 325MG TAB ACETAZOLAMIDE 250MG TAB	638	26	
ACETAZOLAMIDE 500MG CAP	83840	20	
ACETIC ACID 2% OTIC SOLN	1634	2	
ACETYLCYSTEINE 20% SOLN ACYCLOVIR 200MG CAP	84020	166	
ACYCLOVIR 200MG CAP ALBUTEROL 0.083% INH SOLN (SAM ALBUTEROL 2MG/5ML SYRUP	84358	100	
ALBUTEROL 2MG/5ML SYRID	84069	189	
ALBUTEROL 2MG/5ML SYRUP ALBUTEROL 90MCG/INHALATION MDI	3769	4,436	
ALBUTEROL INHALATION 0.5% SOL ALBUTEROL/IPRATROPIUM INH SOLN ALBUTEROL/IPRATROPIUM/TAC INH	84359	4	
ALBUTEROL/IPRATROPIUM/TAC INH	84450	3	
ALENDRONATE 70MG TAB	84443	849	
ALLOPURINOL 100MG TABS			
ALLOPURINOL 300MG TAB	3740	58	
ALLOPURINOL 300MG TAB ALUMINUM ACETATE POWDER (TOPIC	84649	63	
ALUMINUM HYDROXIDE GEL	83948	2	
ALUMINUM SO4/CALCIUM ACETATE S	83607	72	
ALUMINUM SO4/CALCIUM ACETATE S AMANTADINE 100MG CAP	1606	27	
AMCINONIDE 0.1% OINTMENT			
AMIODARONE HCL 200MG TAB	83954	184	
AMIODARONE HCL 200MG TAB AMITRIPTYLINE 25MG TAB	1639	803	
AMITRIPTYLINE 75MG TAB	2122	204	
AMLODIPINE 10MG TAB	84253	2,502	
AMLODIPINE 10MG TAB AMLODIPINE 5MG TAB	84255	192	
AMLODIPINE 5MG TAB AMOXICILLIN 250MG CAPSULE	83996	167	
AMOXICILLIN 250MG/5ML ORAL SUS	84143	776	
AMOXICILLIN 250MG/5ML ORAL SUS AMOXICILLIN 500MG CAPSULE AMOXICILLIN 875MG/CLAVULANATE	83997	2.128	
AMOXICILLIN 875MG/CLAVULANATE	84658	9	
AMOXICILLIN/CLAVULANATE 400MG/	84305	3	
AMOXICILLIN/CLAVULANATE 500MG	84285	3	
AMOXICILLIN/CLAVULANATE 400MG/ AMOXICILLIN/CLAVULANATE 500MG AMOXICILLIN/CLAVULANATE 600MG/ AMOXICILLIN/CLAVULANATE 875MG ANTIPYRINE/BENZOCAINE OTIC SOL ASPIRIN 325MG CAP	84497	252	
AMOXICILLIN/CLAVULANATE 875MG	84286	8	
ANTIPYRINE/BENZOCAINE OTIC SOL	83614	167	
ASPIRIN 325MG CAP	83843	1	
DM AUDIT ASPIRIN DRUGS			
ASPIRIN 325MG E.C. TAB	277	1,893	
DM AUDIT ASPIRIN DRUGS		,	
ASPIRIN 325MG E.C. TAB U/D	84507	2	
DM AUDIT ASPIRIN DRUGS			
ASPIRIN 325MG TAB	276	9	
DM AUDIT ASPIRIN DRUGS		-	
ASPIRIN 81MG E.C. TAB U/D	83620	1	
DM AUDIT ASPIRIN DRUGS	,	_	
ATORVASTATIN 20MG TAB (ICP)	84474	4	
DM AUDIT STATIN DRUGS		-	
ATORVASTATIN 40MG TAB	84337	308	

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ATORVASTATIN 80MG TAB 84435 273
AIORVASIAIIN 80MG IAB 84455 275
DM AUDIT STATIN DRUGS
ATROPINE 0.1MG/ML SYRINGE INJ 1643 1
ATROPINE SULF 1% OPHTH SOLN 767 4

Figure 14-4: List of Medications used at this Facility

### Appendix A: 2014 Diabetes Audit Logic

#### AUDIT DATE

This is the ending date of the audit period. The user supplies this date. It is used as the ending date to calculate the time range when looking for values. For example, if the audit date is December 31, 2012 then data is examined during the year prior to this audit date (January 1, 2012 through December 31, 2012).

FACILITY NAME

This is the name of the facility at which the audit is being run. It is the division or facility to which the user logged in. (The DUZ(2) variable is used).

REVIEWER INITIALS

Initials of the person running the audit. A maximum of 3 initials may be used. This information is taken from the File 200 (New Person) entry for the user.

STATE OF RESIDENCE

This is the state in which the patient resides at the time the audit was done. This is captured from the mailing address.

CHART NUMBER

Health record number of the patient at the facility at which the audit is run.

DATE OF BIRTH

The patient's Date of Birth. Obtained from data entered through patient registration.

SEX

The gender of the patient. Obtained from data entered through patient registration.

PRIMARY CARE PROVIDER

The name of the primary care (designated) provider documented in RPMS. Taken from field .14 of the patient file.

DATE OF DIABETES DIAGNOSIS

The diabetes onset date. This date is used in the calculation of the duration of diabetes. 3 different dates are displayed to the user: The date of onset from the Diabetes Register.

The earliest date of onset from all diabetes related problems on the problem list. The problem list is scanned for all problems in the ICD diagnosis code range 250.00-250.93.

The 1st recorded diagnosis (POV) of diabetes in PCC. ICD codes: 250.00-250.93.

Cumulative Audit: When calculating the duration of diabetes, the earliest of the date of onset from the diabetes register or the problem list date of onset is used. Duration of diabetes is calculated from that date to the date of the audit. If neither the date of onset in the register nor the date of onset in the problem list is recorded, the duration of diabetes is not calculated. The first diagnosis date from POV is not used.

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AUDIT Export file: The earliest date found from the Diabetes register or the problem is exported. Format: MM/DD/YYYY DM TYPE The computer audit uses the following logic in determining the type of diabetes: (once a 'hit' is made, no further processing done) If the diagnosis documented in the Diabetes Register is NIDDM the 1. type is assumed to be Type 2. If the diagnosis documented in the Diabetes Register is "TYPE II" 2. the type is assumed to be Type 2. If the diagnosis documented in the Diabetes Register contains a 3. '2' the type is assumed to be Type 2. If the diagnosis documented in the Diabetes Register contains 4. IDDM the type is assumed to be Type 1. 5. If the diagnosis documented in the Diabetes Register contains a '1' the type is assumed to be Type 1. If no diagnosis is documented in the Diabetes Register, or it 6. does not contain any of the above strings the problem list is then scanned. If any diabetes diagnosis on the problem list has a 5th digit of 0 or 2 then the type is assumed to be 2. Example: diagnosis on the problem list is 250.00, the 5th digit is 0 and Type 2 is assumed. If any diabetes diagnosis on the problem list has a 5th digit of 7. 1 or 3 then the type is assumed to be Type 1. If no diagnosis exists on the problem list or in the diabetes 8. register, then the last PCC purpose of visit related to diabetes is reviewed. If it contains a 5th digit of 0 or 2 then the type is assumed to be Type 2, if the 5th digit is a 1 or 3 then the type is assumed to be Type 1. TOBACCO USE Tobacco use status of the patient. The tobacco use is determined in the following way: The last documented of the following items is found: Health Factor in the TOBACCO (SMOKING) Category. Health Factor in the TOBACCO (SMOKELESS - CHEWING/DIP) Category. Note: if those categories do not exist, then the last health factor in the TOBACCO category is found. If any of the health factors found indicates that the person is a Tobacco User they are categorized as a tobacco user. Health factors in the TOBACCO (SMOKING) Category: NON-TOBACCO USER - Not a Current User CURRENT SMOKER, STATUS UNKNOWN - Current User PREVIOUS (FORMER) SMOKER - Not a Current User CESSATION-SMOKER - Current User CEREMONIAL USE ONLY - Not a Current User CURRENT SMOKER, EVERY DAY - Current User CURRENT SMOKER, SOME DAY - Current User NEVER SMOKED - Not a Current User SMOKING STATUS UNKNOWN - Not Documented Health factors in the TOBACCO (SMOKELESS - CHEWING/DIP) Category: CURRENT SMOKELESS - Current User PREVIOUS (FORMER) SMOKELESS - Not a Current User CESSATION-SMOKELESS - Current User SMOKELESS TOBACCO, STATUS UNKNOWN - Not Documented NEVER USED SMOKELESS TOBACCO - Not a Current User Health factors in the TOBACCO Category: NON-TOBACCO USER - Not a Current User

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```
CURRENT SMOKER - Current User
        CURRENT SMOKELESS - Current User
        PREVIOUS SMOKER - Not a Current User
       PREVIOUS SMOKELESS - Not a Current User
        CURRENT SMOKER & SMOKELESS - Current User
        CESSATION-SMOKELESS - Current User
        CESSATION-SMOKER - Current User
       The PCC Problem list and purpose of visits are scanned for any of
the following diagnoses:
       Diagnoses contained in the BGP GPRA SMOKING DXS taxonomy.
       305.1-305.13
       649.00-649.04
       V15.82
       Any visit with Dental ADA code 1320 documented.
       Any visit with the following CPT codes documented:
       BGP SMOKING CPTS taxonomy: 99406-99407,1034F-1036F, G0375-G3076
The last documented of the above items is used to determine if the patient
is a current tobacco user or not. If none of the above are found then the
value is 3 Not Documented.
If the value found is one of the following then the value is 2 Not a
Current User:
 See list above for Non User Health factors
   V15.82
    305.13
   1036F
For all others the value is 1 Current User.
                  TOBACCO REFERRED FOR CESSATION COUNSELING
If the patient is a current tobacco user cessation counseling is
determined in the following manner:
 1. The patient's health factors recorded in the past year are
      reviewed for a recorded health factor that is contained in the
      DM AUDIT CESSATION HLTH FACTOR taxonomy or any tobacco health
      factor that contains the word "CESSATION"
      If one is found then a value of 1 - Yes is displayed.
  2. Patient education codes containing "TO-", "-TO", "-SHS", 305.1,
      305.1* (old codes), 649.00-649.04, V15.82, D1320, 99406, 99407,
      G0375 (old code), G0376 (old code), 4000F, G8402 or G8453;
  3. A visit to Clinic code 94 (tobacco cessation clinic);
  4. Dental code 1320 recorded during the past year;
  5. CPT code D1320, 99406, 99407, G0375 (old code), G0376 (old code),
      4000F, 4001F, G8402 or G8453 during the report period.
  6. Prescription for Tobacco Cessation Aid: Any of the following
      documented anytime during the Report Period:
      1. Prescription for medication in the site-populated BGP CMS SMOKING
         CESSATION MEDS taxonomy that does not have a comment of RETURNED
         TO STOCK.
      2. Prescription for any medication with name containing "NICOTINE
         PATCH", "NICOTINE POLACRILEX", "NICOTINE INHALER", or "NICOTINE
         NASAL SPRAY", or "NICOTINE TRANS" that does not have a comment of
         RETURNED TO STOCK.
```

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7. If none of the above are found, a 2 - No is displayed. HEIGHT The last recorded Height value taken on or before the ending date of the audit. AUDIT Export file: The last recorded height prior to the audit date is passed to the export record. The height is rounded to 2 decimal digits. For example, 60.25 inches. The height in feet and inches is also passed on the export record. WEIGHT The last recorded Weight value taken during the audit period. AUDIT Export: The last recorded weight during the audit period is passed to the web audit. The weight is rounded to the nearest whole pound. BMI BMI is calculated in the following way: The last weight in the 2 years prior to the audit date and the last height recorded anytime before the audit date are used to calculate the BMI. Where W is weight in lbs and H  $\,$ is height in inches: W=W\*.45359,H=(H\*.0254),H=(H\*H),%=(W/H),%=\$J(%,4,1) Cumulative Audit: BMI is used and percentages of overweight and obese patients are calculated. If the patient did not have a height or weight recorded as described above they fall into the "BMI could not be calculated" category. HYPERTENSION DOCUMENTED If Hypertension is on the problem list or the patient has had at least 3 visits with a diagnosis of hypertension ever then it is assumed that they have hypertension. BLOOD PRESSURES (LAST 2/3) The last 3 recorded Blood Pressure values (on different days) on non-ER clinic visits in the year prior to the audit date are obtained. If 3 blood pressures are not available then the last 2 are obtained. AUDIT Export file: The last 3 (if available) or else last 2 systolic and diastolic values as well as the mean of the systolic values and diastolic values are passed on to the export record. If there are not at least 2 values the mean is not calculated. Note: If more than 1 Blood Pressures is recorded on any 1 day the latest one is used. FOOT EXAM (COMPLETE) The logic used in determining if a complete foot exam has been done is as follows: A documented DIABETIC FOOT EXAM, COMPLETE (CODE 28) is searched 1. for in the year prior to the audit date. This is recorded in V Exam. If found, no other processing is done, an exam is assumed to have been done. A visit on which a podiatrist (provider class codes 33 -2. PODIATRIST, 84 - (PEDORTHIST) or 25 - CONTRACT PODIATRIST) that is not a DNKA visit is searched for in the year prior to the audit date. If found, it is assumed the exam was done and no further processing is done. 3. A visit to clinic 65 - PODIATRY or B7 -Diabetic Foot clinic that is not a DNKA is searched for in the year prior to the audit date. If found, no other processing is done. If none of the above are found, the last documented refusal 4.

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is searched for, if that refusal is "Not Medically Indicated" the value is "No". All other refusal types are ignored. If none of the above are found the value is "No". EYE EXAM (dilated or retinal camera) The logic used in determining if a diabetic eye exam has been done is as follows: The system looks for the last documented Diabetic Eye Exam in 1. the computer record in the year prior to the audit date. Diabetic Eye Exam is defined as: EXAM 03 - Diabetic Eye Exam а CPT in the DM AUDIT EYE EXAM CPTS: b. 2019F 2020F - 2021F 2022F 2024F 2026F 67028 67038 67039 67040 92002 - 92014 92250 S0620 S0621 S3000 ICD Procedure 95.02 or 95.03. с. 2. If one is found, no further processing is done. 3. If no documented exam or CPT is found, then all PCC Visits in the year prior to the end of the audit are scanned for a non-DNKA, non-Refraction visit to an Optometrist or Ophthalmologist (24, 79, 08) or an Optometry or Ophthalmology Clinic (17, 18, 64 or A2). If found, then a yes and an indication of what was found is displayed. Refraction is defined as a POV on the visit of: 367.89, 367.9, 372.0, 372.1. DNKA is defined as any visit with a primary purpose of visit with a provider narrative containing the following phrases: DNKA, DID NOT KEEP APPOINTMENT, DID NOT KEEP APPT. If none of the above is found, then the last documented refusal 5. is found, if the last documented refusal is NMI - Not Medically Indicated then the value assigned is 2 - No. All other refusals are ignored. б. If none of the above items are found the value is 2 No. DENTAL EXAM The logic used in determining if a dental exam has been done is as follows: A documented DENTAL EXAM (CODE 30) is searched for in the year 1. prior to the audit date. If found, no other processing is done. A visit to clinic 56 - DENTAL clinic that is not a DNKA is 2. searched for in the year prior to the audit date. If found, no other processing is done. A visit on which a dentist (provider class code 52 -DENTIST) that 3. is not a DNKA visit is searched for in the year prior to the audit date. If found, and there is any ADA code other than 9991, then it is assumed the exam was done and no further processing is done. 4. If none of the above is found, then the last documented refusal is found, if the last documented refusal is a NMI - Not Medically Indicated then the value assigned is 2 - No. All other refusals are ignored.

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5. If none of the above are found, the value is 2 - No. NUTRITION INSTRUCTION The values in the audit are: RD 1 2 Other Both RD & Other 3 4 None All visits in the year prior to the audit date are examined. Chart review visits are skipped (Chart review is defined as service category of C or clinic code of 52). - If the primary provider on any visit is a DIETICIAN or NUTRITIONIST (codes 29, 07 or 34) then RD is assigned. - If the visit does not have one of the above providers but has a Diagnosis of V65.3 then Other is assigned. - If the visit has a CPT documented of 97802, 97803, or 97804 then RD is assigned. - If the visit contains any of the following education topics Topic in the DM AUDIT DIET EDUC TOPICS taxonomy Topic ending in -NTopic ending in -DT Topic ending in -MNT Topic beginning with MNT-The V PAT ED entry is examined and if the provider documented in that entry is a Dietician or Nutritionist the RD is assigned if the provider is blank or not an dietician/nutritionist then Other is assigned. At this point: - if RD is assigned and Other is not then the value assigned is 1 - RD. - if RD and Other is assigned then the value assigned is 3 - RD & Other. - if Other is assigned and RD is not then the value assigned is 2 - Other. Processing stops if a value is assigned. If none of the above is documented, the value is 4 - None PHYSICAL ACTIVITY INSRUCTION All visits in the year prior to the audit date are examined. If there is a visit on which a patient education topic in the DM AUDIT EXERCISE EDUC TOPICS taxonomy, or any topic ending in "-EX" is documented then a 1 - Yes. No further processing is done. All visits in the year prior to the audit date are examined for a POV of V65.41 and if one is found a 1 - Yes is displayed. If neither of the above is documented, the value is 2 - None DM EDUCATION (OTHER) All education topics documented in the year prior to the audit date are examined. If the topic meets the following criteria then the value assigned is 1 - Yes: topic does not end in -EX, -N, -DT or -MNT topic does not begin with MNTtopic is in the DM AUDIT OTHER EDUC topics taxonomy or the name of the topic begins with 250, DM or DMC If neither of the above is documented, the value is 2 - None DEPRESSION AN ACTIVE PROBLEM?

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The patient's problem lists in both PCC and the Behavioral Health module are reviewed for any problem with the following ICD codes: 1) 290.13 -290.13 2) 290.21 -290.21 3) 290.43 -290.43 4) 296.00 -296.89 298.0 -298.0 5) 6) 300.13 -300.13 300.4 -300.4 7) 8) 301.12 -301.12 9) 309.0 -309.1 10) 309.28 -309.28 11) 311. -311. or for the following Behavioral Health problem codes: 14, 15. If no problem found on the problem list then the PCC and BH systems are reviewed for at least 2 diagnoses (POV's) of the codes listed above in the year prior to the audit date. If either a problem is found on the problem list or 2 POV's are found then the value on the audit is 1 - Yes. If not, then value of 2 - No is assigned. DEPRESSION SCREENING The PCC and Behavioral health databases are reviewed for any of the Following documented in the past year: V Exam 36 or Behavioral Health Module Depression Screening Diagnosis - V POV V79.0 Education Topics - V EDUCATION or Behavioral Health Module DEP-SCR V Measurement PHQ2, PHQ9, PHQT Behavioral Health Module Diagnosis (POV) of 14.1 Diagnosis in DM AUDIT DEPRESSIVE DISORDERS taxonomy in V POV Diagnosis in DM AUDIT DEPRESSIVE DISORDERS taxonomy in BH Problem Code of 14 or 15 in BH If any of the above is found then a value of 1 - Yes is assigned. (No) if no documentation of depression screening found. DM THERAPY All Visits in the 6 months prior to the audit date are reviewed. If any medication in the taxonomy specified is found, then an 'X' is placed by the therapy name. If no medications are found then the Diet & Exercise Alone item is marked with an 'X'. Therapy Taxonomy Name Insulin InsulinDM AUDIT INSULTSulfonylureaDM AUDIT SULFONYLUREA DRUGSGlinideDM AUDIT SULFONYLUREA LIKE DM AUDIT METFORMIN DRUGS Metformin Acarbose DM AUDIT ACARBOSE DRUGS DM AUDIT GLITAZONE DRUGS DM AUDIT INCRETIN MIMETIC Proglitazone GLP-1 med DM AUDIT GLP-1 ANALOG DRUGS DPP4 inhibitorsDM AUDIT DPP4 INHIBITOR DRUGSAmylin analoguesDM AUDIT AMYLIN ANALOGUESBromocriptineDM AUDIT BROMOCRIPTINE DRUGSCalassianDM AUDIT BROMOCRIPTINE DRUGS Colesevelam DM AUDIT COLESEVELAM DRUGS DM AUDIT SGLT-2 INHIBITOR DRUG Invokana ACE INHIBITOR/ARB If any drug in the DM AUDIT ACE INHIBITORS taxonomy or any drug 1.

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with a VA Drug Class of CV800 or CV805 has been prescribed in the 6 months prior to the audit date a Yes is displayed. If no drugs are found, a No is displayed. 2. ASPIRIN/ANTIPLATELET THERAPY All medications in the past year are reviewed. If any of them are in the DM AUDIT ASPIRIN DRUGS or DM AUDIT ANTI-PLATELET DRUGS taxonomies then a value of 1 - Yes is assigned, no further processing is done. The Non-VA meds component in the pharmacy patient file is reviewed for any drug in the above mentioned taxonomies or an orderable item whose first 7 characters is "ASPIRIN" and whose 8th character is not a "/". If one is found then a value of 1 - Yes is assigned and no further processing is done. If no Aspirin drugs are found then a 2 - None is assigned. The individual audit displays this information for all patients. The cumulative audit only tallies aspirin/antiplatelet therapy for patients with diagnosed CVD. LIPID LOWERING AGENT All medications prescribed in the 6 months prior to the audit date are examined. Each is checked against the following taxonomies. If one is found an X is placed beside that drug type on the audit sheet. - DM AUDIT STATIN DRUGS - DM AUDIT FIBRATE DRUGS - DM AUDIT NIACIN DRUGS - DM AUDIT BILE ACID DRUGS - DM AUDIT GLITAZONE DRUGS - DM AUDIT EZETIMIBE DRUGS - DM AUDIT FISH OIL DRUGS - DM AUDIT LOVAZA DRUGS If none are found then 8-None is marked with an X. TB TESTING The type of TB Test done is determined in the following way: If the patient has a TB health factor recorded, TB on the problem 1. list or any diagnoses of TB documented in the PCC then the test type is documented as 1 - Skin Test (PPD), no further processing is done. All recorded PPD entries and TB lab tests using the DM AUDIT 2. TB TESTS TAX prior to the audit date are gathered. If at least one is found the latest one is used, if it is a Skin test then 1 - Skin test (PPD) is documented, if it is a lab test then 2 - Blood Test is documented. 3. If there are none found then the value is 4 - UNKNOWN/NOT OFFERED. TB Test result The TB test result is determined in the following way: 1. If the patient has a TB health factor recorded, TB on the problem list or any diagnoses of TB documented in the PCC then the test result is documented as 1 - Positive, no further processing is done. All recorded PPD entries and TB lab tests using the DM AUDIT 2. TB TESTS TAX prior to the audit date are gathered. If at least one is found the latest one is used, if it is a Skin test and the reading or result is Positive (reading >9) then it is documented as 1 - Positive, if reading or result of last PPD is negative, then the values is 2 -Negative, if the test type is a blood test then the value of the test is examined, if it is Positive then 1 - Positive is recorded, if it is

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negative then 2 - Negative is documented. If the results are null the a value of 4 - Unknown is documented. 3. If there are none found then the value is 4 - UNKNOWN/NOT OFFERED. TB RESULT POSITIVE, IHN TX COMPLETE If the value of the TB Test result is POSITIVE then the last TB health factor is looked at for determining TB Treatment status. The last recorded TB Health factor is displayed. The TB Health factors are: TB - TX COMPLETE TB - TX INCOMPLETE TB - TX UNKNOWN TB - TX UNTREATED TB RESULT NEGATIVE, TEST DATE If the value of TB test result is NEGATIVE then the date of the last TB test is displayed. CVD If CVD is found on the problem list or patient had at least two diagnoses ever of CVD then the patient is assumed to have CVD. Diagnoses codes used: 1) 393. -398.99 2) 402.00 -402.91 3) 410.0 -414.9 4) 415.1 -415.19 5) 424.0 -424.99 6) 425.0 -425.9 7) 426.0 -427.9 8) 428.0 -428.9 9) 429.2 -429.2 10) 433.0 -434.91 11) 440.1 -440.29 12) 440.4 -440.4 13) 443.21 -443.29 14) 443.81 -443.89 15) 443.9 -445.89 16) 451.11 -451.19 17) V45.01 -V45.01 18) V45.81 -V45.82 If no diagnosis is found then the patient's record is searched for any of the following documented ever. If found, patient is assumed to have CVD. A) CABG Procedure: V POV V45.81; V CPT: 33510-33514, 33516-33519, 33521-33523, 33533-33536, HCPCS: S2205-S2209; V Procedure: 36.1\* or 36.2\*. B) PCI Procedure: V POV: V45.82; V CPT: 92980, 92982, 92995; HCPCS: G0290; V Procedure: 00.66, 36.01 (old code), 36.02 (old code), 36.05, (old code), 36.06-36.07. FLU VACCINE The patient's data is scanned for an Influenza vaccine in the 12 months prior to the audit date. Influenza vaccine defined as: - Immunization CVX codes: 15, 16, 88, 111, 123, 135, 140, 141, 144, 149, 150, 151, 153, 155, 158 CPT codes: DM AUDIT SEASONAL FLU CPTS: LOW VALUE: 90653 HIGH VALUE: 90658 LOW VALUE: 90660 HIGH VALUE: 90662 HIGH VALUE: 90668 LOW VALUE: 90664 LOW VALUE: 90672 HIGH VALUE: 90673 LOW VALUE: 90685 HIGH VALUE: 90688 LOW VALUE: 90724 HIGH VALUE: 90724 LOW VALUE: G0008 HIGH VALUE: G0008 LOW VALUE: G8108 HIGH VALUE: G8108

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- Diagnosis codes: V04.81, V06.6 If no documented immunization is found, a documented refusal in the past 12 months is searched for. If neither are found a No is assumed. Values: Yes, No, Refused. PNEUMOVAX EVER Data is scanned for Pneumococcal vaccine any time prior to the audit date. A Pneumovax is defined as: Immunization CVX codes: 33, 100, 109, 133 Diagnoses: V06.6, V03.82 CPT codes: BGP PNEUMO IZ CPTS taxonomy (90669, 90670, 90732, G0009, G8115) - Procedure: 99.55 If none is found, the refusal file is checked for a documented refusal of this vaccination. Refusals documented in both the PCC and the Immunization register are reviewed. If neither are found a No is assumed. Values: Yes, No, Refused. HEPATITIS B The audit looks to see if the patient has a series of 3 Hepatitis B vaccinations. HEP B definition: CVX codes 8, 42, 43, 44, 45, 51, 102, 104, 110, 132, 146 CPT codes contained in the BGP HEPATITIS CPTS taxonomy: 90636, 90723, 90731, 90740, 90743, G0010, Q3021, Q3023 Vaccinations must be given at least 20 days apart. If 3 are found the audit displays 1 - Yes. If less than 3 vaccines found the system will look for evidence of disease: Problem List or V POV of 070.2-070.23, 070.3-070.33, V02.61. If found the audit displays 2 - No. If 3 vaccines are not found and evidence of disease is not found the system searches for a refusal documented in the past year. Refusal definitions: Immunization Package refusal or PCC refusal of the above listed CVX or CPT codes. TD OR TDAP IN PAST 10 YEARS Immunizations are scanned for any tetanus vaccine in the 10 years prior to the audit date. If none is found, a documented refusal is searched for. If neither is found a No is assumed. Values: Yes, No, Refused. Logic used to find a TD vaccine: Immunization CVX codes : 1, 9, 20, 22, 28, 35, 50, 106, 107, 110, 112, 113, 115, 120, 130, 132, 138, 139, 142 CPT Codes: LOW VALUE: 90698 HIGH VALUE: 90698 LOW VALUE: 90700 HIGH VALUE: 90701 LOW VALUE: 90702 HIGH VALUE: 90702 LOW VALUE: 90703 HIGH VALUE: 90703 LOW VALUE: 90714 HIGH VALUE: 90714 LOW VALUE: 90715 HIGH VALUE: 90715 LOW VALUE: 90718 HIGH VALUE: 90718 LOW VALUE: 90720 HIGH VALUE: 90723 HBA1C (most recent)

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All lab tests in the V LAB file in the year prior to the audit date are found using the DM AUDIT HGBA1C TAX taxonomy and the BGP HGBA1C LOINC CODES taxonomies. Only tests that have a result are used, if the result of the V LAB is blank, contains "CANC" or contains "COMMENT" the V Lab is skipped. Individual Audit: The date and result of test is displayed. Cumulative Audit: If the result contains a ">" it goes into the 11.0 or higher category. If the result contains a "<" it goes into the <7.0 category. At this point everything is stripped from the result value except for numbers and ".". If after stripping what is left is something other than a number then it is put in the undocumented category. If what is left is a numerical value it is put in the appropriate category below: HbAlc <7.0 HbA1c 7.0-7.9 HbA1c 8.0-8.9 HbA1c 9.0-9.9 HbA1c 10.0-10.9 HbAlc 11.0 or higher Undocumented Audit export: When exported all characters that are not a number or a "." are stripped from the result value, so if the value is <7.0 what is exported is 7.0. SERUM CREATININE The last lab test with a result in the year prior to the audit date that is a member of the DM AUDIT CREATININE TAX taxonomy or the BGP CREATININE LOINC CODES taxonomy is found in V LAB. All tests with a result containing "CANC" are skipped. Specimen types are not examined so if the same creatinine test is used for serum creatinine as for urine creatinine, the audit is unable to distinguish between these values. Result reporting: For the individual audit sheet the actual value that is in V LAB is displayed. For the cumulative audit: If no test with a result was found it falls into the not tested/unknown category. If there was a result, all characters that are not numbers or "."'s are stripped from the result value. If the first character of the stripped result is not a number or a "." the value is placed in the not tested/unknown category. The stripped result is evaluated and put in the >=2.0 or <2.0 categories. Serum Creatinine obtained during audit period 0 0% Creatinine >= 2.0 mg/dl 0 0% Creatinine < 2.0 mg/dl 0 0% Creatinine not tested/unknown 1 100% For the Audit export: All characters other than numbers and "." s are stripped from the result value and that value is truncated to a total of 4 characters with 1 decimal digit. ESTIMATED GFR For patients that are 18 or older, the last lab test in the year prior to the audit date that is a member of the BGP GPRA ESTIMATED GFR TAX or the

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BGP ESTIMATED GFR LOINC taxonomy is found. For the individual audit sheet the actual value that is in V LAB is displayed. If there is no Estimated GFR found in V LAB but there is a Creatinine value found the Estimated For the cumulative audit: If the first character of the value is ">" it goes into >=60 ml/min All characters other than numbers and "."'s are stripped from the result value The resulting value is placed in the following categories: If blank - no category assigned 30-59 15-29 <15 Audit export: All characters other than numbers or "."'s are stripped from the result value and that value is truncated to a total of 4 characters with 1 decimal digit. TOTAL CHOLESTEROL The last lab test with a result in the year prior to the audit date that is a member of the DM AUDIT TOTAL CHOLESTEROL TAX taxonomy or the BGP TOTAL CHOLESTEROL LOINC taxonomy is found in V LAB. Cumulative Audit: The result is used in the calculation of the NON-HDL section. Audit Export: All characters other than numbers and "."'s are stripped from the result value and that value is then rounded to the closest whole number and truncated to a total of 3 characters with 0 decimal digits. HDL CHOLESTEROL The last lab test with a result in the year prior to the audit date that is a member of the DM AUDIT HDL CHOLESTEROL TAX taxonomy or the BGP HDL LOINC CODES taxonomy is found in V LAB. Cumulative Audit: The result of the test is examined and is put into the following categories by gender. If the result is blank OR the 1st digit of the result is not a number then it is put in the Unable to determine result category since we cannot interpret the result. For example, if the value is "cancelled", it will fall into unable to determine. In females HDL = <50 mg/dlHDL >50 mg/dl Not tested or no valid result In males HDL = <40 mq/dlHDL >40 mg/dl Not tested or no valid result Audit Export: All characters that are not numbers or "."'s are stripped from the result value and that value is then rounded to the closest whole number and truncated to a total of 3 characters with 0 decimal digits. LDL CHOLESTEROL

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The last lab test with a result in the year prior to the audit date that
is a member of the DM AUDIT LDL CHOLESTEROL TAX taxonomy or the BGP LDL
LOINC CODES taxonomy is found in V LAB. Tests with a result containing
"CANC" are ignored.
Cumulative Audit:
The result of the test is examined and is put into the following
categories. If the 1st digit of the result is not a number then it is put
in the Unable to determine result category since we cannot interpret the
result. For example, if the value is "UNK",
it will fall into unable to determine.
      LDL <100 mg/dl
      LDL 100-129 mg/dl
      LDL 130-160 mg/dl
      LDL >160
      Not tested
Audit Export:
All characters that are not numbers or "."'s are stripped from the result
value and that value is then rounded to the closest whole number and
truncated to a total of 3 characters with 0 decimal digits.
                               TRIGLYCERIDES
The last lab test with a result in the year prior to the audit date that
is a member of the DM AUDIT TRIGLYCERIDES TAX taxonomy or the BGP
TRIGLYCERIDE LOINC CODES taxonomy is found in V LAB. Only tests with a
result are used, tests with a result containing "CANC" or "COMMENT" are
also skipped.
Cumulative Audit:
The result of the test is examined and is put into the following
categories. If the result is blank OR the 1st digit of the result is not
a number then it is put in the Unable to determine result category since
we cannot interpret the result. For example, if the value is
"cancelled", it will fall into unable to determine.
      TG <150 mg/dl
      TG 150-199 mg/dl
      TG 200-400 mg/dl
      TG >400 mg/dl
      Not tested
Audit Export:
All characters other than numbers and "."'s are stripped from the result
value and that value is then rounded to the closest whole number and
truncated to a total of 3 characters with 0 decimal digits
                                  NON-HDL
All V Lab entries that have a non-cancelled, non-comment result are
found using the following taxonomies:
DM AUDIT NON-HDL TESTS
DM AUDIT NON-HDL LOINC
If no test is found this value is calculated by taking the total
cholesterol value minus the HDL value. If either Total Cholesterol or
HDL is not present the value is not calculated.
Both the Total Cholesterol and HDL tests have to have been done during
the audit period. The tests do not have to have been done on the same
day.
```

#### UACR

The system looks for a test contained in the DM AUDIT QUANT UACR lab taxonomy or DM AUDIT A/C RATIO LOINC taxonomy, if found then the patient is assigned a value of 1 - Yes in the line for UACR Done. The result of the test is also displayed.

If the test found does not have a valid numeric result then the system will look for a microalbumin test on the same visit date. If found then the patient is assigned a value of 1 - Yes and an X is placed by the 1 - Quantitative Albumin:Creatinine Ratio (UACR). If this scenario occurs, a value of 5 is passed to the Audit Export.

#### COMBINED OUTCOMES MEASURE

The combined outcome measure displays a 1 - Yes on the audit if the patient had all of the following during the audit period: Alc < 8.0, LDL < 100, and mean BP <140/<90.

 $$\rm e-GFR$$  and a UACR For patients 18 years of age and older those who had both an e-GFR and a UACR test during the audit period.

### Appendix B: Audit Export (Data) File Definition

The 2014 Audit Export (Data) file is a text file, using ( $^{\circ}$ ) as the delimiter. If a data point is missing, a space should appear between the delimiters (e.g.,  $^{\circ}$ ).

Line 1 is the variable name line, and contains the audit variables in the order that they appear in Table B-1.

Lines 2-x will contain the data, with each line representing a single record (see Figure 5-1).

Table B-1 lists the current variable names and a brief description of each. Table B-2 lists those variables that were added for 2014; Table B-3 lists those that have been removed.

Table B-1: Audit Export File Definition

Order	Variable Name	Description	Timeframe	Format/Values/Units	Comments
1	AUDITDATE	Ending date of the audit period - 12/31/2013	N/A	mm/dd/yyyy	
2	FACILITYNA	Name or abbreviation for the facility	N/A	Character (max length=9)	
3	AREA	2 digit IHS code for Area	N/A	Character (max length=2)	First 2 characters of ASUFAC code
4	SU	2 digit IHS code for Service Unit	N/A	Character (max length=2)	Middle 2 characters of ASUFAC code
5	FACILITY	2 digit IHS code for Facility	N/A	Character (max length=2)	Last 2 characters of ASUFAC code
6	REGNUM	Number of active diabetes patients at facility that meet inclusion/ exclusion criteria	N/A	Numeric	

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Order	Variable Name	Description	Timeframe	Format/Values/Units	Comments
7	REVIEWER	Reviewer's initials	N/A	Character (max length=3)	
8	STATE	Postal abbreviation for state of residence	N/A	Character (max length=2)	
9	CHARTNUM	Patient's chart number	N/A	Numeric or character (max length=9)	
10	DOB	Date of Birth	N/A	mm/dd/yyyy	
11	SEX	Gender	N/A	Numeric field where: 1=Male 2=Female 3=Unknown	
12	DODX	Date of diabetes diagnosis	N/A	mm/dd/yyyy	
13	DMTYPE	Diabetes type	N/A	Numeric field where: 1=Type 1 2=Type 2 (or uncertain)	
14	TOBACCO	Tobacco use	Most recent	Numeric field where: 1=Current tobacco user 2=Not a current user 3=Not documented	
15	TOBCOUNSEL	[Only if TOBACCO=1] Tobacco cessation counseling received	Audit period	Numeric field where: 1=Yes 2=No	
16	FEET	Last recorded height feet part	Last ever	Numeric	combine with INCHES
17	INCHES	Last recorded height inches part	Last ever	Numeric	total or in combination with FEET
18	WEIGHT	Weight in Ibs	Audit period, most recent	Numeric	

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Order	Variable Name	Description	Timeframe	Format/Values/Units	Comments
19	HTNDX	Hypertension diagnosed	Ever	Numeric field where: 1=Yes 2=No	
20	SYST1	Most recent systolic BP (mmHg)	Audit period	Numeric	
21	DIAST1	Most recent diastolic BP (mmHg)	Audit period	Numeric	
22	SYST2	Next most recent systolic BP (mmHg)	Audit period	Numeric	
23	DIAST2	Next most recent diastolic BP (mmHg)	Audit period	Numeric	
24	SYST3	Third most recent systolic BP (mmHg)	Audit period	Numeric	
25	DIAST3	Third most recent diastolic BP (mmHg)	Audit period	Numeric	
26	FOOTEXAM	Complete diabetic foot exam	Audit period	Numeric field where: 1=Yes 2=No	
27	EYEEXAM	Dilated retinal exam or retinal camera exam	Audit period	Numeric field where: 1=Yes 2=No	
28	DENTALEXAM	Examination of teeth and gingiva	Audit period	Numeric field where: 1=Yes 2=No	

Order	Variable Name	Description	Timeframe	Format/Values/Units	Comments
29	DIETINSTR	Nutrition instruction	Audit period	Numeric field where: 1=Yes by RD 2=Yes by non-RD 3=Yes by RD and non-RD 4=None	
30	EXERCISE	Physical activity instruction	Audit period	Numeric field where: 1=Yes 2=No	
31	DMEDUC	Diabetes education other than nutrition and physical activity	Audit period	Numeric field where: 1=Yes 2=No	
32	DEPDX	Active diagnosis of depression	Audit period	Numeric field where: 1=Yes 2=No	
33	DEPSCREEN	[Only if DEPDX=2] Screened for depression	Audit period	Numeric field where: 1=Yes 2=No	
34	TXDIET	Only therapy for diabetes is diet and exercise (no meds)	Last 6 months of audit period	Numeric field where: 1=Yes 2=No	<ul> <li>If this item=1:Yes, then all other TX fields should=2:No.</li> <li>If all other TX fields=2:No, then this item should=1:Yes.</li> </ul>
35	TXINSUL	Prescribed any insulin	Last 6 months of audit period	Numeric field where: 1=Yes 2=No	
36	TXSUREA	Prescribed a sulfonylurea (such as glyburide or glipizide)	Last 6 months of audit period	Numeric field where: 1=Yes 2=No	

Order	Variable Name	Description	Timeframe	Format/Values/Units	Comments
37	TXSUREALK	Prescribed a glitinide (sulfonylurea-like med) such as Prandin or Starlix	Last 6 months of audit period	Numeric field where: 1=Yes 2=No	
38	TXMETFORM	Prescribed metformin	Last 6 months of audit period	Numeric field where: 1=Yes 2=No	
39	TXACARB	Prescribed acarbose (Precose) or miglitol (Glyset)	Last 6 months of audit period	Numeric field where: 1=Yes 2=No	
40	TXGLIT	Prescribed a TZD ("glitazone") drug like pioglitazone (Actos) or rosiglitazone (Avandia)	Last 6 months of audit period	Numeric field where: 1=Yes 2=No	
41	TXGLP1MED	Prescribed injectable GLP-1 med (Byetta, Bydureon, Victoza)	Last 6 months of audit period	Numeric field where: 1=Yes 2=No	
42	TXDPP4	Prescribed DPP4 inhibitor (Januvia, Onglyza, Tradjenta)	Last 6 months of audit period?	Numeric field where: 1=Yes 2=No	
43	TXAMYLIN	Prescribed injectable amylin analog (Symlin)	Last 6 months of audit period	Numeric field where: 1=Yes 2=No	
44	TXBROMO	Prescribed bromocriptine (Cycloset)	Last 6 months of audit period	Numeric field where: 1=Yes 2=No	

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Order	Variable Name	Description	Timeframe	Format/Values/Units	Comments
45	TXCOLESEV	Prescribed colesevelam (Welchol)	Last 6 months of audit period	Numeric field where: 1=Yes 2=No	
46	TXSGLT2	Prescribed SGLT2 inhibitor (Invokana)	Last 6 months of audit period	Numeric field where: 1=Yes 2=No	
47	ACE	Prescribed an ACE inhibitor or ARB	Last 6 months of audit period	Numeric field where: 1=Yes 2=No	
48	ASPIRIN	Ordered daily aspirin or anticoagulant	Last 6 months of audit period	Numeric field where: 1=Yes 2=No	
49	LLSTATIN	Prescribed a statin drug (simvastatin, lovastatin, others)	Last 6 months of audit period	Numeric field where: 1=Yes 2=No	
50	LLFIBRATE	Prescribed a fibrate (gemfibrozil/Lopid)	Last 6 months of audit period	Numeric field where: 1=Yes 2=No	
51	LLNIACIN	Prescribed niacin (Niaspan, OTC niacin)	Last 6 months of audit period	Numeric field where: 1=Yes 2=No	
52	LLBAS	Prescribed a bile acid seqestrant (cholestyramine/Q uestran, others)	Last 6 months of audit period	Numeric field where: 1=Yes 2=No	
53	LLEZETIM	Prescribed ezetimibe (Zetia)	Last 6 months of audit period	Numeric field where: 1=Yes 2=No	
54	LLFISHOIL	Ordered fish oil	Last 6 months of audit period	Numeric field where: 1=Yes 2=No	

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Order	Variable Name	Description	Timeframe	Format/Values/Units	Comments
55	LLLOVAZA	Prescribed Lovaza	Last 6 months of audit period	Numeric field where: 1=Yes 2=No	
56	LLNONE	Taking no lipid lowering drugs	Last 6 months of audit period	Numeric field where: 1=Yes 2=No	<ul> <li>If this item=1:Yes, then all other LL fields should=2:No.</li> <li>If all other LL fields=2:No, then this item should=1:Yes.</li> </ul>
57	TBTESTDONE 2	Skin (PPD) or blood test for TB done	Ever	Numeric field where: 1=Skin test (PPD) 2=Blood test (QFT-G, T SPOT-TB) 3=Unknown/not offered	
58	TBTESTRSLT2	[Only if TBTESTDONE2= 1 or 2] TB test result	Ever	Numeric field where: 1=Positive 2=Negative 3=Unknown	
59	TBINHTX2	[Only if TBTESTRSLT2=1 ] INH treatment complete	Ever	Numeric field where: 1=Yes 2=No 3=Unknown	
60	TBTESTDATE	[Only if TBTESTRSLT2=2 ] Date of last TB test	Ever	mm/dd/yyyy	
61	CVDDX	Diagnosed cardiovascular disease (CVD)	Ever	Numeric field where: 1=Yes 2=No	
62	FLUVAX	Flu vaccine	Audit period	Numeric field where: 1=Yes 2=No 3=Refused	

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Order	Variable Name	Description	Timeframe	Format/Values/Units	Comments
63	PNEUMOVAX	Pneumococcal vaccine	Ever	Numeric field where: 1=Yes 2=No 3=Refused	
64	TD	Tetanus (Td or Tdap)	Past 10 years	Numeric field where: 1=Yes 2=No 3=Refused	
65	HEPBVAX	Hepatitis B 3 dose vaccine series	Ever	Numeric field where: 1=Yes 2=No 3=Refused	
66	HBA1C	HbA1c test result (%)	Most recent in audit period	Numeric, one decimal	
67	HBA1CDATE	Date of most recent HbA1c	Most recent in audit period	mm/dd/yyyy	
68	CREATVALUE	Serum creatinine value (mg/dl)	Most recent in audit period	Numeric, two decimals	
69	EGFRVALUE	Estimated GFR value	Most recent in audit period	Numeric, one decimal	DMS: Estimated GFR value is used if present. If an Estimated GFR value is not present but a serum creatinine value is present during the audit period, an Estimated GFR value is calculated.
70	CHOLVALUE	Total cholesterol value	Most recent in audit period	Numeric, no decimals	
71	HDLVALUE	HDL cholesterol value (mg/dl)	Most recent in audit period	Numeric, no decimals	
72	LDLVALUE	LDL cholesterol value (mg/dl)	Most recent in audit period	Numeric, no decimals	
73	TRIGVALUE	Triglyceride value (mg/dl)	Most recent in audit period	Numeric, no decimals	

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Order	Variable Name	Description	Timeframe	Format/Values/Units	Comments
74	UPACRDONE	Urine albumin:creatinine ratio test performed	Audit period	Numeric field where: 1=Yes 2=No	
75	UPACRVAL	Urine albumin:creatinine ratio value (mg/g)	Most recent in audit period	Numeric	
76	LOCAL	Local option question		Numeric, single digit, 0-9	
77	LOCALEXT	Extended local option question		Character (max length=50)	
78	SOURCESYS	Data source: "RPMS", "NEXTGEN", "EPI INFO", etc.		Character (max length=10)	

Table B-2: Variables added to the 2014 Audit Export (Data) file

Order	Variable Name	Description
19	HTNDX	Hypertension diagnosed
46	TXSGLT2	Prescribed SGLT2 inhibitor (Invokana)
56	LLNONE	Taking no lipid lowering drugs
74	UPACRDONE	Urine albumin:creatinine ratio test performed

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Table B-3: Variables removed from the 2014 Audit Export (Data) file	)
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Variable Name	Description
AGE	Age in full years
DURDM	Duration of diabetes in full years
HEIGHT	Last recorded height in inches
BMI	Calculated body mass index based on HEIGHT and WEIGHT
SYSMEAN	Mean systolic BP (mmHg)
DIAMEAN	Mean diastolic BP (mmHg)
TBSTATUS	TB status
CREATDONE	Serum creatinine tested
EGFRDONE	Estimated GFR determined
CHOLDONE	Total cholesterol tested
HDLDONE	HDL cholesterol tested
NONHDLDONE	NonHDL cholesterol calculable (i.e, both CHOLVALUE and HDLVALUE present)
NONHDLVALUE	NonHDL cholesterol value
LDLDONE	LDL cholesterol tested
TRIGDONE	Triglycerides tested
UPTESTDONE	Urine tested for protein during audit period: 1=Yes, 2=No
UPTESTTYP2	Urine test type: 1=UACR, 2=UPCR, 3=24hr protein, 4=Microalb:creat strips, 5=Microalbumin only, 6=UA dipstick
UPPCRVAL	Urine protein:creatinine ratio value in grams per gram (g/g)
UP24HRVAL	Urine 24 hr collection for protein in milligrams per 24 hours (mg/day)
UPMACCAT	Urine albumin:creatinine strips (e.g., Clinitek): 1= <30 mg/g, 2=30-300 mg/g, 3= >300 mg/g

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Variable Name	Description
UPMACAT	Urine microalbumin only (e.g., Micral): 1= <20 mg/L 2= >=20 mg/L
UPUADIPCAT	Standard urine dipstick for protein: 1=Normal or Trace 2=Abnormal (1+ or more)
	Meets ALL of the following:
	• A1C <8.0
COMBINED	• LDL <100
	• mean BP <140/<90

## Appendix C: CVD Diagnoses

<ol> <li>393 - 394 Chronic Rheumatic Heart Disease         <ul> <li>393 Chronic rheumatic perioarditis</li> <li>394.x Diseases of mitral valve</li> <li>395.x Diseases of mitral and actic valves</li> <li>397.x Diseases of mitral and actic valves</li> <li>397.x Diseases of mitral and actic valves</li> <li>397.x Diseases of other endocardial structures</li> <li>398.xx Other rheumatic heart disease</li> </ul> </li> <li>402 Hypertensive Heart Disease         <ul> <li>403.9x Unspecified</li> <li>410.0 -414.9 Ischemic heart disease</li> <li>415.1 Pulmonary embolism and infarction</li></ul></li></ol>		
<ul> <li>402.0x Malignant 402.1x Benign 403.9x Unspecified</li> <li>3) 410.0 -414.9 Ischemic heart disease</li> <li>4) 415.1 Pulmonary embolism and infarction 415.11 Tatrogenic pulmonary embolism and infarction 415.11 Seqtic pulmonary embolism and infarction 415.12 Seqtic pulmonary embolism 415.13 Saddle embolus of pulmonary artery 415.19 Other</li> <li>5) 424.0 -424.99 Other diseases of endocardium: 424.10 Mitral valve disorders 424.1 Artic valve disorders 424.2 Tricuspid valve disorders 424.2 Tricuspid valve disorders 424.9x Endocarditis, valve unspecified</li> <li>6) 425 Cardiomyopathy 425.0 Endomyocardial fibrosis 425.1 Wypertrophic cardiomyopathy 425.2 Obscure cardiomyopathy 425.5 Alcoholic cardiomyopathies 425.4 Other primary cardiomyopathies 425.5 Alcoholic cardiomyopathy 425.6 Conduction disorders 426.9 Secondary cardiomyopathy, unspecified</li> <li>7) 426 Conduction disorders 426.0 Atrioventricular block, complete 426.1 Atrioventricular block, other and unspecified 426.2 Other left bundle branch block 426.4 Right bundle branch block 426.4 Right bundle branch block 426.5 Runde branch block, other and unspecified 426.6 Other heart block 426.6 Other heart block</li> <li>427.0 -427.9 Cardiac dysrhythmias 427.0 Paroxysmal supraventricular tachycardia 427.1 Paroxysmal supraventricular tachycardia 427.1 Paroxysmal tachycardia, unspecified 427.3 Atrial fibrilation and flutter</li> </ul>	1)	393 Chronic rheumatic pericarditis 394.x Diseases of mitral valve 395.x Diseases of aortic valve 396.x Diseases of mitral and aortic valves 397.x Diseases of other endocardial structures
<ul> <li>4) 415.1 Fulmonary embolism and infarction 415.11 Tatrogenic pulmonary embolism and infarction 415.12 Septic pulmonary embolism 415.13 Saddle embolus of pulmonary artery 415.19 Other</li> <li>5) 424.0 -424.99 Other diseases of endocardium: 424.0 Mitral valve disorders 424.1 Aortic valve disorders 424.2 Tricuspid valve disorders 424.3 Pulmonary valve disorders 424.3 Pulmonary valve disorders 424.9x Endocarditis, valve unspecified</li> <li>6) 425 Cardiomyopathy 425.0 Endomyocardial fibrosis 425.1 K Hypertrophic cardiomyopathy 425.2 Obscure cardiomyopathy of Africa 425.3 Endocardial fibroelastosis 425.5 Alcoholic cardiomyopathy 425.7 Nutritional and metabolic cardiomyopathy 425.8 Cardiomyopathy in other diseases classified elsewhere 425.9 Secondary cardiomyopathy, unspecified</li> <li>7) 426 Conduction disorders 426.1 Atrioventricular block, complete 426.2 Left bundle branch block 426.3 Other left bundle branch block 426.4 Right bundle branch block 426.5 K Bundle branch block 426.6 Other heart block, other and unspecified 426.7 Anomalous Atrioventricular excitation 426.8 Other heart block 426.9 Conduction disorders 426.9 Conduction disorders 426.9 Conduction disorders 426.1 Atrioventricular block 426.2 A right bundle branch block 426.5 Rundle branch block 426.5 Rundle branch block 426.7 Anomalous Atrioventricular excitation 426.8 Other heart block</li> <li>6) 427.0 -427.9 Cardiac dysrythmias 427.1 Parcoxysmal supraventricular tachycardia 427.1 Parcoxysmal tachycardia, unspecified 427.3 Atrial fibrillation and flutter</li> </ul>	2)	402.0x Malignant 402.1x Benign
<ul> <li>415.11 latrogenic pulmonary embolism and infarction 415.12 Septic pulmonary embolism and infarction 415.13 Saddle embolus of pulmonary artery 415.19 Other</li> <li>5) 424.0 -424.99 Other diseases of endocardium: 424.0 Mitral valve disorders 424.1 Aortic valve disorders 424.2 Tricuspid valve disorders 424.3 Pulmonary valve disorders 424.9x Endocarditis, valve unspecified</li> <li>6) 425 Cardiomyopathy 425.0 Endomyocardial fibrosis 425.1x Hypertrophic cardiomyopathy 425.2 Obscure cardiomyopathy of Africa 425.3 Endocardial fibrolastosis 425.4 Other primary cardiomyopathies 425.5 Alcoholic cardiomyopathy 425.8 Cardiomyopathy in other diseases classified elsewhere 425.9 Secondary cardiomyopathy 425.9 Secondary cardiomyopathy, unspecified</li> <li>7) 426 Conduction disorders 426.0 Atrioventricular block, complete 426.1x Atrioventricular block, other and unspecified 426.2 Left bundle branch block 426.4 Right bundle branch block 426.5 Sundle branch block 426.5 Chen heart block 426.7 Anomalous Atrioventricular excitation 426.8 Other heart block 426.7 Anomalous Atrioventricular excitation 426.8 Other heart block 426.7 Inomalous Atrioventricular excitation 426.8 Other specified conduction disorders 426.9 Conduction disorders 427.0 Paroxysmal supraventricular tachycardia 427.1 Paroxysmal ventricular tachycardia 427.1 Paroxysmal tachycardia, unspecified 427.3 Atrial fibrillation and flutter</li> </ul>	3)	410.0 -414.9 Ischemic heart disease
<ul> <li>424.0 Mitral valve disorders</li> <li>424.1 Aortic valve disorders</li> <li>424.2 Tricuspid valve disorders</li> <li>424.3 Pulmonary valve disorders</li> <li>424.9 x Endocarditis, valve unspecified</li> <li>6) 425 Cardiomyopathy</li> <li>425.0 Endomyocardial fibrosis</li> <li>425.1 x Hypertrophic cardiomyopathy</li> <li>425.2 Obscure cardiomyopathy of Africa</li> <li>425.3 Endocardial fibroelastosis</li> <li>425.4 Other primary cardiomyopathies</li> <li>425.5 Alcoholic cardiomyopathy</li> <li>425.8 Cardiomyopathy in other diseases classified elsewhere</li> <li>425.9 Secondary cardiomyopathy, unspecified</li> <li>7) 426 Conduction disorders</li> <li>426.1 x Atrioventricular block, complete</li> <li>426.2 Left bundle branch hemiblock</li> <li>426.3 Other left bundle branch block</li> <li>426.4 Right bundle branch block</li> <li>426.5 X Bundle branch block</li> <li>426.7 Anomalous Atrioventricular excitation</li> <li>426.8 Other apecified</li> <li>8) 427.0 -427.9 Cardiac dysrhythmias</li> <li>427.0 Paroxysmal supraventricular tachycardia</li> <li>427.3 Atrial fibrillation and flutter</li> </ul>	4)	415.11 Iatrogenic pulmonary embolism and infarction 415.12 Septic pulmonary embolism 415.13 Saddle embolus of pulmonary artery
<ul> <li>425.0 Endomyocardial fibrosis</li> <li>425.1 x Hypertrophic cardiomyopathy</li> <li>425.2 Obscure cardiomyopathy of Africa</li> <li>425.3 Endocardial fibroelastosis</li> <li>425.4 Other primary cardiomyopathies</li> <li>425.5 Alcoholic cardiomyopathy</li> <li>425.7 Nutritional and metabolic cardiomyopathy</li> <li>425.8 Cardiomyopathy in other diseases classified elsewhere</li> <li>425.9 Secondary cardiomyopathy, unspecified</li> <li>7) 426 Conduction disorders</li> <li>426.0 Atrioventricular block, complete</li> <li>426.1 x Atrioventricular block, other and unspecified</li> <li>426.3 Other left bundle branch hemiblock</li> <li>426.4 Right bundle branch block</li> <li>426.5 x Bundle branch block, other and unspecified</li> <li>426.6 Other heart block</li> <li>426.7 Anomalous Atrioventricular excitation</li> <li>426.8 Other specified conduction disorders</li> <li>426.9 Conduction disorder, unspecified</li> </ul> 8) 427.0 -427.9 Cardiac dysrhythmias 427.0 Paroxysmal supraventricular tachycardia 427.2 Paroxysmal tachycardia, unspecified	5)	424.0 Mitral valve disorders 424.1 Aortic valve disorders 424.2 Tricuspid valve disorders 424.3 Pulmonary valve disorders
<ul> <li>426.0 Atrioventricular block, complete</li> <li>426.1x Atrioventricular block, other and unspecified</li> <li>426.2 Left bundle branch hemiblock</li> <li>426.3 Other left bundle branch block</li> <li>426.4 Right bundle branch block</li> <li>426.5x Bundle branch block, other and unspecified</li> <li>426.6 Other heart block</li> <li>426.7 Anomalous Atrioventricular excitation</li> <li>426.8x Other specified conduction disorders</li> <li>426.9 Conduction disorder, unspecified</li> </ul> 8) 427.0 -427.9 Cardiac dysrhythmias <ul> <li>427.1 Paroxysmal supraventricular tachycardia</li> <li>427.2 Paroxysmal tachycardia, unspecified</li> </ul>	6)	<pre>425.0 Endomyocardial fibrosis 425.1x Hypertrophic cardiomyopathy 425.2 Obscure cardiomyopathy of Africa 425.3 Endocardial fibroelastosis 425.4 Other primary cardiomyopathies 425.5 Alcoholic cardiomyopathy 425.7 Nutritional and metabolic cardiomyopathy 425.8 Cardiomyopathy in other diseases classified elsewhere</pre>
427.0 Paroxysmal supraventricular tachycardia 427.1 Paroxysmal ventricular tachycardia 427.2 Paroxysmal tachycardia, unspecified 427.3 Atrial fibrillation and flutter	7)	<pre>426.0 Atrioventricular block, complete 426.1x Atrioventricular block, other and unspecified 426.2 Left bundle branch hemiblock 426.3 Other left bundle branch block 426.4 Right bundle branch block 426.5x Bundle branch block, other and unspecified 426.6 Other heart block 426.7 Anomalous Atrioventricular excitation 426.8x Other specified conduction disorders</pre>
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427.5 Cardiac arrest
         427.6 Premature beats
         427.8 Other specified cardiac dysrhythmias
         427.9 Cardiac dysrhythmia, unspecified
9) 428.0 -428.9 Heart failure
         428.0 Congestive heart failure, unspecified
         428.1 Left heart failure
         428.2 Systolic heart failure
         428.3 Diastolic heart failure
         428.4 Combined systolic and diastolic heart failure
         428.9 Heart failure, unspecified
10) 429.2 -429.2 Cardiovascular disease, unspecified
         (includes "arteriosclerotic cardiovascular disease (ASCVD),
         cardiovascular arteriosclerosis, cardiovascular degeneration,
         disease or sclerosis with mention of arteriosclerosis)
11) 433.0 -434.91 Occlusion and stenosis of precerebral arteries (433.xx)
                   (includes embolism, narrowing, obstruction or thrombosis
                   of basilar, carotid, and vertebral arteries)
                   Occlusion of cerebral arteries (434.xx)
                   (includes thrombosis, embolism, or occlusion,
unspecified)
12) 440.1 -440.29 Atherosclerosis
                   440.1 Of renal artery
            440.2 Of native arteries of the extremities
13) 440.4 -440.4 Chronic total occlusion of artery of the extremities
14) 443.21 -443.29 Other arterial dissection
15) 443.81 -443.89 Other specified peripheral vascular diseases
16) 443.9 -445.89 Peripheral vascular disease
         443.9 Peripheral vascular disease, unspecified
         445 Atheroembolism (445.0 Of extremities, 445.8 Of other sites)
17) 451.1x Phlebitis and thrombophlebitis of deep vessels of lower
extremities
18) V45.01
              Cardiac pacemaker
19) V45.81
               Aortocoronary bypass status (postprocedural state)
               Percutaneous transluminal coronary angioplasty status
   V45.82
If no diagnosis is found then the patient's record is searched for any of
the following documented ever. If found, patient is assumed to have CVD.
A) CABG Procedure: V POV V45.81; V CPT: 33510-33514, 33516-33519,
33521-33523, 33533-33536, HCPCS: S2205-S2209; V Procedure: 36.1* or 36.2*.
B) PCI Procedure: V POV: V45.82; V CPT: 92980, 92982, 92995; HCPCS:
G0290; V Procedure: 00.66, 36.01 (old code), 36.02 (old code), 36.05,
(old code), 36.06-36.07.
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# Acronym List

CVD	Cardiovascular Disease
CVX	Center for Disease Control National Center of Immunization and Respiratory Diseases Code Set
DM	Diabetes Mellitus
DMS	Diabetes Management System
DDTP	IHS Division of Diabetes Treatment and Prevention
GDM	Gestational Diabetes Mellitus
HTN	Hypertension
IGT	Impaired Glucose Tolerance
IHS	Indian Health Service
LMR	List Labs or Medications Used at this Facility
POC	Point of Care
RPMS	Resource and Patient Management System
UACR	Urine Albumin/Creatinine Ratio

## **Contact Information**

If you have any questions or comments regarding this distribution, please contact the OIT Help Desk (IHS).

Phone: (888) 830-7280 (toll free)

Web: http://www.ihs.gov/GeneralWeb/HelpCenter/Helpdesk/index.cfm

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