Indian Health Service

Division of Diabetes Treatment and Prevention



## RPMS Diabetes Management System Overview for Audit 2024

IHS Division of Diabetes Treatment and Prevention 02/13/2024

# **Today's Topics**

- Update the Diabetes Register
- Review/Update Taxonomies
- Run Data Quality Check Report
- Create Audit Export Data File
- Preview of Prediabetes Reports
- Review Audit 2024 Resources





# **Diabetes Audit Team**

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## **Diabetes Management System**

- Diabetes Management System (DMS) is just one of the application of the Resource and Patient Management System (RPMS).
- Diabetes Management System can also be referred to as DM, DMS, and BDM.
- There are two versions of the DMS.
  - Roll and Scroll version discussed today
  - Visual DMS windows based tool or GUI (graphical user interface)
- DMS is used to manage Registers, provide reports such as the DM Audit and Diabetes Health Summaries.



## \*\* DIABETES MANAGEMENT SYSTEM \*\*

VERSION 2.0 (Patch 17) MAIN MENU

- RM Register Maintenance ...
- AS Audit Setup ...
- AR Audit Reporting ....
- PDM Prediabetes Menu ...

Select Diabetes Management System Option:



# Main Menu Options

- RM Register Maintenance
  - Update patient information in the registry
- AS Audit Setup
  - Reports to help clean up registries
  - Taxonomy review/updates
- AR Audit Reporting
  - Run Audit and Create Audit Data File
- PDM Prediabetes Menu (Revised)
  - Prediabetes Register and Reports



## Update an Existing Diabetes Register



# Menu Items to Update the Register

- RM Register Maintenance
  - Update patient information in the registry
- AS Audit Setup
  - Reports to help clean up registries
  - Taxonomy review/updates



> VERSION 2.0 (Patch 17) MAIN MENU

- RM Register Maintenance ...
- AS Audit Setup ...
- AR Audit Reporting ...
- PDM Prediabetes Menu ...

Select Diabetes Management System Option: AS





## **AUDIT SETUP**

DXNR Patients with DM Diagnosis and not on RegisterINA List Possible Inactive Pts in the DM RegisterPLDX Patients w/no Diagnosis of DM on Problem List

LMR List Labs/Medications Used at this Facility
TC Check Taxonomies for the 2023 DM Audit
TU Update/Review Taxonomies for 2023 DM Audit
VTAX View/Print Any Taxonomy Used by the Diabetes Audit
VSML View a SNOMED List Used by the Diabetes AUDIT
DAL Display Audit Logic

DQC 2023 Data Quality Check Report

ASPR Prior Years Diabetes Audit Setup (DM19-DM22) ...





# Update the Diabetes Register

## **AS Audit Setup Menu**

DXNR – Patients with DM Diagnosis and not on the Register

- This report will list patients who are not on ANY diabetes register but who have had a visit with a diagnosis of diabetes in a specified date range.
- Useful if the register has not been kept up to date during the year.
- Has the option if the facility is multi-divisional with multiple registers you can enter all of the register names.





DXNRPatients with DM Diagnosis and not on RegisterINAList Possible Inactive Pts in the DM RegisterPLDXPatients w/no Diagnosis of DM on Problem List

LMR List Labs/Medications Used at this Facility TC Check Taxonomies for the 2024 DM Audit TU Update/Review Taxonomies for 2024 DM Audit VTAX View/Print Any Taxonomy Used by the Diabetes Audit VSML View a SNOMED List Used by the Diabetes AUDIT DAL Display Audit Logic

DQC 2024 Data Quality Check Report

ASPR Prior Years Diabetes Audit Setup (DM19-DM23) ...

Select Audit Setup Option: DXNR Patients with DM Diagnosis and not on Register



This report will list patients who are not on any diabetes register but who have had a visit with a diagnosis of diabetes in a date range specified by the user. If you are multi-divisional with multiple registers you can enter all of the register names. Only patients who are not on ANY of the registers will be displayed on the list.

Enter Register Name: DKB

- 1 DKB DIABETES REGISTER
- 2 DKB PRE-DIABETES REGISTER

CHOOSE 1-2: 1 DKB DIABETES REGISTER

Enter Another Register Name: (add additional registries)

Enter Another Register Name: [Enter]

(If not sure of Register Name type ?? at the prompt-to see list)



Enter Beginning Visit Date: 1/1/2023 (JAN 01, 2023) Enter Ending Visit Date: 12/31/2023 (DEC 31, 2023) How many diagnoses must the patient have had in that time period: (1-99): 3// 2

Select one of the following:

- P PRINT the List
- B BROWSE the List on the Screen
- S Create Search Template
- D Create Delimited Output file

## Output Type: P// B



Output Type: P// BROWSE the List on the Screen

Select one of the following:

- Include ALL Patients
- E Exclude DEMO Patients
- O Include ONLY DEMO Patients

Demo Patient Inclusion/Exclusion: E// [ENTER]





### \*\*\*\*\*\*\*\*\*\*\* CONFIDENTIAL PATIENT INFORMATION \*\*\*\*\*\*\*\*\*\*

Page 1

2021 DEMO HOSPITAL (INST) Patients NOT on any of the following Registers: 2023 DKB DIABETES REGISTER Register with at least 2 visits with a DX of Diabetes between Jan 01, 2023 and Dec 31, 2023

PATIENT NAME	HRN	DOB	COMMUNITY	LAST VISIT	# DM DXS	LAST DM DX
JALAPENO, JOLLY Seen at: DEMO	125369 HOSPI	03/04/195	0 ALBUQUERQU	01/24/23	2	12/09/23
LOBO,LOUIE Seen at: DEMO	116258 HOSPI	01/01/196	O ZUNI PUEBL	11/08/23	2	03/09/23
MOUSE, MICKEY Seen at: DEMC	385465 HOSPI	01/01/195	57 BROKEN ARR	01/21/24	3	08/21/23



# Update the Diabetes Register

## **Identified using DXNR:**

- Patients with DM Diagnosis not on a Register.
- Potential to add patients to Register.

## **Return back to the Main Menu:**

- RM Register Maintenance
  - Update patient information in the registry.





\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MAIN MENU

RM Register Maintenance ...

AS Audit Setup ....

AR Audit Reporting ...

PDM Prediabetes Menu ...

Select Diabetes Management System Option: RM



VERSION 2.0 (Patch 17) REGISTER MAINTENANCE

RM Register Management ...

PM Patient Management

DMU Update Diabetes Patient Data

AP Add Patients from Template

DEL Delete Patient from the Register

LM Letter Management ...

RR Register Reports ...

DPCS Display a Patient's DIABETES CARE SUMMARY

Select Register Maintenance Option: **PM** 



### Select DIABETES Register

No. Register Name # Active # members Last patient update members

 1
 DKB DIABETES REGISTER
 10
 10
 12/08/2023

 2
 DKB PRE-DIABETES REGISTER
 6
 6
 12/02/2023

Which REGISTER: (1-2): 1

Register being checked to update status of deceased patients.



Enter the time frame to look for visits.

Enter Beginning Visit Date: 01/01/23 (JAN 01, 2023) Enter Ending Visit Date: 12/31/23 (DEC 31, 2023)

Select one of the following:

- P PRINT the List
- B BROWSE the List on the Screen

Output Type: P// P or B

Select one of the following:

- Include ALL Patients
- E Exclude DEMO Patients
- O Include ONLY DEMO Patients

Demo Patient Inclusion/Exclusion: E// xclude DEMO Patients



THIS SYSTEM CONTAINS CONFIDENTIAL PATIENT INFORMATION COVERED BY THE PRIVACY ACT. UNAUTHORIZED USE OF THIS DATA IS ILLEGAL

\*\* DIABETES MANAGEMENT SYSTEM \*\*

VERSION 2.0 (Patch 17) 2021 DEMO HOSPITAL (INST) MAIN MENU - DKB DIABETES REGISTER

Select PATIENT NAME: Jalapeno

JALAPENO, JOLLY

F 03-04-1950 XXX-XX-5544 TST 125369

JALAPENO, JOLLY is not on the DKB DIABETES REGISTER

Add this client to the Register? NO// Yes



#### Register Data

PATIENT: JALAPENO,	JOLLY		AGE: 73
ADDRESS: 159 SPICY BLVD, ALBUQUERQUE, NM, 87125			DOB: 03/04/1950
PHONE: 5051239874			HRN: 125369
PRIM CARE PROV: AL	LEN,MICHAEL		<b>RES: ALBUQUER</b>
STATUS: ACTIVE			
WHERE FOLLOWED:			
CASE MGR:			
CONTACT:			
ENTRY DATE: MAR 6,	2023 LAST ED	DITED:	
DIAGNOSIS: <mark>(NO DIAC</mark>	GNOSIS ON FILE FOR TH	IS PATIENT)	
COMMENTS:			
LOCAL OPTION:			
LOCAL OPTION TEXT	:		
- Pre	evious Screen Q Quit ??	for More Act	ions
1 Register Status	6 Comments	11 Health S	ummary
2 Where Followed	7 Local Option Entry	12 DM Care	Summary (DPCS)
3 Case Manager	8 Last Visit	13 Print Let	ter
4 Client Contact	9 Review Appointments	Q Quit	
5 DX/Date of Onset	10 Audit Status		
Select Action: Quit// 5			

950 UERQUE

#### **Register Diagnoses**

Make sure that the date of onset is also documented on the patient's problem list so other clinician's can see it. Problem list entries can be modified using EHR.

#### DIABETES RELATED PROBLEMS ON THE PROBLEM LIST

PROB # DX	PROVIDER NARRATIVE	DATE OF ONSET STATUS
TST3 E11.9	Diabetes mellitus	INACTIVE
Register Dia NO. Diagno	gnosis sis ONSET DATE	
(None on th	e DM Register)	

Previous Screen Q Quit ?? for More Actions
1 Add Diagnosis 2 Edit Diagnosis 3 Delete Diagnosis
Select Action:Quit// 1



## NO. DIAG

- 1 GESTATIONAL DM
- 2 TYPE 1
- **3 TYPE 2**
- 4 IMPAIRED GLUCOSE TOLERANCE
- 5 PREDIABETES

Which DIAGNOSIS(S): (1-7): 3



#### PATIENT: JALAPENO, JOLLY

DIAGNOSIS: TYPE 2 (populates) DATE OF ONSET: MAY 1, 2022 (add date) SEVERITY:

Exit Save Refresh

Enter a command or '^' followed by a caption to jump to a specific field.

COMMAND: S Press <PF1>H for help Insert

Returns to this prompt.

COMMAND: E

Press <PF1>H for help Insert



#### Register Data

PATIENT: JALAPENO, JOLLY			AGE: 73
ADDRESS: 159 SPICY BLVD, ALBUQUERQUE, NM, 87125			DOB: 03/04/1950
PHONE: 5051239874			HRN: 125369
PRIM CARE PROV: A	LLEN,MICHAEL		<b>RES: ALBUQUERQUE</b>
STATUS: ACTIVE			
WHERE FOLLOWED:			
CASE MGR:			
CONTACT:			
ENTRY DATE: DEC 6	,2023 LAST EDIT	ED: DEC 6,202	23
DIAGNOSIS: TYPE 2	ONSET DA	TE: MAY 1,202	2
COMMENTS:			
LOCAL OPTION:			
LOCAL OPTION TEXT	Г:		
- Previous Scree	en Q Quit ?? for More A	ctions	
1 Register Status	6 Comments	11 Health Sum	imary
2 Where Followed	7 Local Option Entry	12 DM Care S	ummary (DPCS)
3 Case Manager	8 Last Visit	13 Print Letter	~
4 Client Contact	9 Review Appointments	Q Quit	
5 DX/Date of Onset	10 Audit Status		

Select Action: Quit// [ENTER]

# Update the Diabetes Register

## **AS Audit Setup Menu**

## **INA - List Possible Inactive Pts in the DM Registry**

- This report will help find patients who have not been seen during the Audit period and are still marked as "active" in the Register.
- This report can be useful at sites that have large numbers of patients in the Register where the status might not be accurate.
- Patients on this list can be changed to "inactive" so they will not be included in the Audit.



### **AUDIT SETUP**

DXNR Patients with DM Diagnosis and not on Register

INA List Possible Inactive Pts in the DM Register

PLDX Patients w/no Diagnosis of DM on Problem List

LMR List Labs/Medications Used at this Facility TC Check Taxonomies for the 2024 DM Audit Update/Review Taxonomies for 2024 DM Audit VTAX View/Print Any Taxonomy Used by the Diabetes Audit VSML View a SNOMED List Used by the Diabetes AUDIT DAL Display Audit Logic

DQC 2024 Data Quality Check Report

ASPR Prior Years Diabetes Audit Setup (DM19-DM23) ...

Select Audit Setup Option: INA



This report will list patients who are on the diabetes register who have not had a visit to a set of primary care clinics in a date range defined by the user.

The report provides a way to identify patients who could possibly be inactivated in the register.

Select DIABETES Register

No. Register Name	# Active members	# members	Last patient update
<ol> <li>DKB DIABETES REGISTER</li> <li>DKB PRE-DIABETES REG</li> </ol>	R 10 ISTER 6	10 6	- 12/08/2023 12/02/2022

Which REGISTER: (1-3): 1





## Select the Patient Status for this report

Select one of the following:

Α	ACTIVE
	INACTIVE
Т	TRANSIENT
U	UNREVIEWED
D	DECEASED
Ν	NON-IHS
L	LOST TO FOLLOW-UP
NON	NONCOMPLIANT

0 All Register Patients

Which Status: A// [ENTER]



Enter the list of clinics that you have determined to be primary care clinics. You can enter them 1 at a time or enter a taxonomy using the '[' notation.

Enter CLINIC: [BGP PRIMARY CARE CLINICS BGP PRIMARY CARE CLINICS]

Members of bgp Taxonomy => GENERAL (01) DIABETIC (06) INTERNAL MEDICINE (13) PEDIATRIC (20) FAMILY PRACTICE (28) WELL CHILD

Enter ANOTHER CLINIC: CHRONIC DISEASE50Enter ANOTHER CLINIC: ENDOCRINOLOGY69Want to save this CLINIC group for future use? No// [ENTER]



Want to save this CLINIC group for future use? No// Y (Yes) Group name: DKB AUDIT CLINICS

Are you adding 'DKB AUDIT CLINICS' as a new TAXONOMY (the 3338TH)? No// Y (Yes)

TAXONOMY BRIEF DESCRIPTION: DM PRIMARY CARE CLINICS

EXTENDED DESCRIPTION: No existing text Edit? NO// [ENTER]

Select TERMS/KEYWORDS: [ENTER]



Enter the list of clinics that you have determined to be primary care clinics. You can enter them 1 at a time or enter a taxonomy using the '[' notation.

Enter CLINIC: [DKB [Enter]

1 DKB AUDIT CLINICS DM PRIMARY CARE CLINICS 2 DKB DM CLINICS DM PRIMARY CLINICS

CHOOSE 1-2: 1 DKB AUDIT CLINICS DM PRIMARY CARE CLINICS]

Members of DKB AUDIT CLINICS Taxonomy => GENERAL DIABETIC INTERNAL MEDICINE PEDIATRIC WELL CHILD FAMILY PRACTICE CHRONIC DISEASE ENDOCRINOLOGY

Enter ANOTHER CLINIC: [ENTER]

[back to completing INA report]



Enter the time frame to look for visits.

Enter Beginning Visit Date: 1/1/23 (JAN 01, 2023) Enter Ending Visit Date: 12/31/23 (DEC 31, 2023)

Select one of the following:

- P PRINT the List
- B BROWSE the List on the Screen

Output Type: P// BROWSE the List on the Screen

Select one of the following:

- Include ALL Patients
- Exclude DEMO Patients
- O Include ONLY DEMO Patients

Demo Patient Inclusion/Exclusion: E// xclude DEMO Patients



Patients on the DKB DIABETES REGISTER Register without a visit between Jan 01, 2023 and Dec 31, 2023

PATIENT NAME HRN STATUS CASE LAST VISIT # DM LAST DM DX MAN DXS

NO CASH, JOHNNY 185963 ACTIVE 01/25/2022 1 02/04/2016

End of report. HIT RETURN:


# Update the Diabetes Register

## Identified using DXNR and INA:

- Patients with DM Diagnosis not on a Register.
  - Potential to add patients to Register.
- Possible inactive patients on the Register.
  - Potential to change status to Inactive in the Register for the Audit.
  - Can use other Register Status such as Transient or Lost to Follow-up.

### **Return back to the Main Menu:**

- RM Register Maintenance
  - Update patient information in the registry.



\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MAIN MENU

RM Register Maintenance ...

AS Audit Setup ....

AR Audit Reporting ...

PDM Prediabetes Menu ...

Select Diabetes Management System Option: RM



VERSION 2.0 (Patch 17) REGISTER MAINTENANCE

RM Register Management ...
PM Patient Management
DMU Update Diabetes Patient Data
AP Add Patients from Template
DEL Delete Patient from the Register
LM Letter Management ...
RR Register Reports ...
DPCS Display a Patient's DIABETES CARE SUMMARY

Select Register Maintenance Option: **PM** 



**Register Data** 

 PATIENT: NO CASH, JOHNNY
 AGE: 67

 ADDRESS: 859 DOLLAR DRIVE, ALBUQUERQUE, NM, 87125
 DOB: 04/28/1955

 PHONE: 505-555-5555
 HRN: 185963

PRIM CARE PROV: STATUS: ACTIVE WHERE FOLLOWED: CASE MGR: CONTACT: ENTRY DATE: DEC 8,2022 DIAGNOSIS: TYPE 2 COMMENTS: LOCAL OPTION: LOCAL OPTION TEXT: **RES: ALBUQUERQUE** 

LAST EDITED: ONSET DATE: DEC 1,2018

Previous Screen Q Quit
1 Register Status
2 Where Followed
3 Case Manager
4 Client Contact
5 DX/Date of Onset
?? for More Actions
6 Comments
7 Local Option Entry
8 Last Visit
9 Review Appointments
Q Quit
10 Audit Status

11 Health Summary 12 DM Care Summary (DPCS) 13 Print Letter

Select Action: Quit// 1



### STATUS: ACTIVE// ? Or ??

Choose from:

A ACTIVE

INACTIVE

T TRANSIENT

- U UNREVIEWED
- D DECEASED
- N NON-IHS
- L LOST TO FOLLOW-UP

NON NONCOMPLIANT

STATUS: ACTIVE// I INACTIVE



**Register Data** 

 PATIENT: NO CASH, JOHNNY
 AGE: 67

 ADDRESS: 859 DOLLAR DRIVE, ALBUQUERQUE, NM, 87125
 DOB: 04/28/1955

 PHONE: 505-555-5555
 HRN: 185963

PRIM CARE PROV: STATUS: INACTIVE WHERE FOLLOWED: CASE MGR: CONTACT: ENTRY DATE: DEC 8,2022 DIAGNOSIS: TYPE 2 COMMENTS: LOCAL OPTION: LOCAL OPTION TEXT: **RES: ALBUQUERQUE** 

LAST EDITED: ONSET DATE: DEC 1,2018

Previous Screen Q Quit ?? for More Actions
1 Register Status 6 Comments 11
2 Where Followed 7 Local Option Entry 12
3 Case Manager 8 Last Visit 13
4 Client Contact 9 Review Appointments Q
5 DX/Date of Onset 10 Audit Status

Select Action: Quit// [ENTER]

11 Health Summary 12 DM Care Summary (DPCS) 13 Print Letter Q Quit



## Update the Diabetes Register

## **AS Audit Setup Menu**

## PLDX - Patients w/no Diagnosis of DM on Problem List

• The report displays active patients on the Register with no diagnosis of diabetes on the Problem List, the date of the last diabetes diagnosis, and the total number of diabetes diagnosis.



#### **AUDIT SETUP**

DXNR Patients with DM Diagnosis and not on Register

INA List Possible Inactive Pts in the DM Register

PLDX Patients w/no Diagnosis of DM on Problem List

LMR List Labs/Medications Used at this Facility TC Check Taxonomies for the 2024 DM Audit TU Update/Review Taxonomies for 2024 DM Audit VTAX View/Print Any Taxonomy Used by the Diabetes Audit VSML View a SNOMED List Used by the Diabetes AUDIT DAL Display Audit Logic

DQC 2024 Data Quality Check Report

ASPR Prior Years Diabetes Audit Setup (DM19-DM23) ...

Select Audit Setup Option: PLDX



\*\* \*\* DIABETES MANAGEMENT SYSTEM 

> VERSION 2.0 (Patch 17) 2021 DEMO HOSPITAL (INST)

This report will list patients who do not have Diabetes on their Problem List but who are on a Diabetes Register or who have had at least N diagnoses of diabetes.

Select one of the following:

- Those who are members of a Register Those with at least N Diabetes Diagnoses R
- D

List which subset of patients: R//



## To Delete or Not Delete...that is the ??



### \*\* DIABETES MANAGEMENT SYSTEM \*\*

VERSION 2.0 (Patch 17)

MAIN MENU

RM Register Maintenance ...

AS Audit Setup ....

AR Audit Reporting ...

PDM Prediabetes Menu ...

Select Diabetes Management System Option: RM



VERSION 2.0 (Patch 17) REGISTER MAINTENANCE

RM Register Management ...

PM Patient Management

DMU Update Diabetes Patient Data

AP Add Patients from Template

DEL Delete Patient from the Register

LM Letter Management ...

RR Register Reports ...

DPCS Display a Patient's DIABETES CARE SUMMARY

Select Register Maintenance Option: DEL





> VERSION 2.0 (Patch 17) MAIN MENU - DKB DIABETES REGISTER

### PATIENT LOOKUP UTILITY

Select CLIENT

NAME OR CHART: DKB DIABETES REGISTER NO CASH, JOHNNY M \*\* SENSITIVE \*\*

\* TST 185963

\*\*\*\*\* WARNING \*\*\*\*\*

This procedure will delete ALL data for JOHNNY NO CASH from the DKB DIABETES REGISTER register

Are you certain you want to do this? No// No or Yes

## **Review/Update Taxonomies**



## Taxonomies

- RPMS Taxonomies are data sets
- Groups of related items such as
  - Medications
  - Lab Tests
  - Diagnosis
  - Health Factors
  - Clinics
- Updating Taxonomies
  - Standard updates
  - Local updates (specific local taxonomy names)







- Taxonomies might have been updated for the 2023 Annual Audit, they
  must be reviewed and updated again before running the 2024 Annual
  Audit due to:
  - New medications may have been added to the pharmacy formulary.
  - New lab tests offered.
- Several of the taxonomies listed may begin with BGP rather than DM AUDIT. These taxonomies, as well as several of the DM AUDIT taxonomies, are shared between the Government Performance and Results Act (GPRA) program and the DMS.
- The DMS User's Manual has a listing of taxonomies to consider for use and adding.
- It is important that staff work together to review and update these taxonomies. (Pharmacy and Lab)



#### AUDIT SETUP

- DXNR Patients with DM Diagnosis and not on Register
- INA List Possible Inactive Pts in the DM Register
- PLDX Patients w/no Diagnosis of DM on Problem List
- LMR List Labs/Medications Used at this Facility
- TC Check Taxonomies for the 2024 DM Audit
- TU Update/Review Taxonomies for 2024 DM Audit
- VTAX View/Print Any Taxonomy Used by the Diabetes Audit
- VSML View a SNOMED List Used by the Diabetes AUDIT
- DAL Display Audit Logic

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DQC 2024 Data Quality Check Report

ASPR Prior Years Diabetes Audit Setup (DM19-DM23) ...

Select Audit Setup <TEST ACCOUNT> Option: TU Update/Review Taxonomies for 2024



This report will list all lab tests or medications that are used at [Your FACILITY NAME]. It will list the name, internal entry number, number of occurences, units and result example (lab only) and the taxonomies that the item is a member of.

Select one of the following:

L	LAB TESTS
Μ	MEDICATIONS (DRUGS

Do you wish to list: Y



This report will list all lab tests or medications that are used at 2021 DEMO HOSPITAL (INST). It will list the name, internal entry number, number of occurences, units and result example (lab only) and the taxonomies that the item is a member of.

Select one of the following:

L LAB TESTS M MEDICATIONS (DRUGS)

Do you wish to list: LAB TESTS

Enter beginning Date for Search: Feb 12, 2023// 01012023 (JAN 01, 2023)

Enter ending date for Search: 12312023 (DEC 31, 2023)

Select one of the following:

- P PRINT Output
- B BROWSE Output on Screen

Do you wish to: P// B



	LAB TEST NAME	IEN	# DONE	UNITS	RESULT
	CBC W/Auto DIFF (R)	9999844	1		200
l		00005/0	2	mg/dl	200
	CHOLESTEROL (O)	2001529	1	mg/dL	220
	DM AUDIT CHOI ESTEROL TAX	2001323	±	ing/ul	220
	CHOLESTEROL (R)	9999775	2		
	DM AUDIT CHÓLESTEROL TAX				
	CKMB (MMB)	2001640	1	ng/mL	1.80
	COVID-19 (iCARE)	2001563	1	Ċ.	Negative
	CQM CHLAMYDIA TRACHOMATIS DNA	9999350	2		
	COM HEPATITIS A VIRUS IGG AB	5051	1		
	CQM REAGIN AB(TITER)IN SERUM	137	2		
	CREAT/EGFR LAB PROG PANEL	2001625		/	10
	CREATININE (NKDF)	1/3	4 mg	j/dL	0.1
		2000000	2		
	CREATININE (K)	2906000	3 Mg	g/al	
	DIVIAUDIT CREATININE TAA				
	+ Enter ?? for more actions		>>`	>	
	+ NEXT SCREEN - PREVIOUS SC	REEN C	) OUIT		
	Select Action: +//				
	(Possibly consider adding to the Taxong	omy for Ch	olesterol		

This report will list all lab tests or medications that are used at 2021 DEMO HOSPITAL (INST). It will list the name, internal entry number, number of occurences, units and result example (lab only) and the taxonomies that the item is a member of.

Select one of the following:

L LAB TESTS M MEDICATIONS (DRUGS)

Do you wish to list: MEDICATIONS (DRUGS)

Enter beginning Date for Search: Feb 12, 2023// 01012023 (JAN 01, 2023)

Enter ending date for Search: 12312023 (DEC 31, 2023)

Select one of the following:

- P PRINT Output
- B BROWSE Output on Screen

Do you wish to: P// B



MEDICATION/DRUG NAME TAXONOMIES	IEN	# DONE
ACETAMINOPHEN 325MG TAB U.D.	84795	1
ALPRAZOLAM 0.25MG TAB	84287	1
AMOXICILLIN 250MG CAP	18	4
APAP/CODEINE 300MG/30MG TAB	342	5
ASPIRIN 325MG TAB U/D	84801	1
DM AUDIT ASPIRIN DRUGS		
ASPIRIN/EC 81MG TAB	84511	1
DM AUDIT ASPIRIN DRUGS		
ATORVASTATIN 40MG TAB	84514	3
DM AUDIT STATIN DRUGS; BGP PQA	STATIN M	1EDS
Albuterol 0.09 MG/ ACTUAT mete	85508	1
BUPRENORPHINE 2 MG/NALOXONE 0.	86271	2
+ Enter ?? for more actions		>>
+ NEXT SCREEN - PREVIOUS SC	CREEN	Q QUIT

Select Action: +//

Indian Health Service Division of Diabetes Treatment and Prevention

>



#### AUDIT SETUP

DXNR	Patients with	DM Diagnosis ai	hd not on Register
------	---------------	-----------------	--------------------

- INA List Possible Inactive Pts in the DM Register
- PLDX Patients w/no Diagnosis of DM on Problem List
- LMR List Labs/Medications Used at this Facility
- TC Check Taxonomies for the 2024 DM Audit
- TU Update/Review Taxonomies for 2024 DM Audit
- VTAX View/Print Any Taxonomy Used by the Diabetes Audit
- VSML View a SNOMED List Used by the Diabetes AUDIT
- DAL Display Audit Logic

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DQC 2024 Data Quality Check Report

ASPR Prior Years Diabetes Audit Setup (DM19-DM23) ...

Select Audit Setup <TEST ACCOUNT> Option: TU Update/Review Taxonomies for 2024



#### DM AUDIT TAXONOMY UPDATE

TAXONOMIES TO SUPPORT 2024 DIABETES AUDIT REPORTING \* Update Taxonomies

1) BGP CMS SMOKING CESSATION MEDS DRUG 2) BGP CREATINE KINASE TAX LABORATORY TEST 3) BGP GPRA ESTIMATED GFR TAX LABORATORY TEST 4) BGP HEP C TESTS TAX LABORATORY TEST 5) BGP PQA STATIN MEDS DRUG 6) DM AUDIT ACARBOSE DRUGS DRUG 7) DM AUDIT ACE INHIBITORS DRUG LABORATORY TEST 8) DM AUDIT ALT TAX 9) DM AUDIT AMYLIN ANALOGUES DRUG 10) DM AUDIT ANTIPLT/ANTICOAG RX DRUG 11) DM AUDIT ASPIRIN DRUGS DRUG 12) DM AUDIT AST TAX LABORATORY TEST 13) DM AUDIT BROMOCRIPTINE DRUGS DRUG 14) DM AUDIT CHOLESTEROL TAX LABORATORY TEST 15) DM AUDIT COLESEVELAM DRUGS DRUG 16) DM AUDIT CREATININE TAX LABORATORY TEST Enter ?? for more actions

S Select Taxonomy D Display a Taxonomy Select Action:+// S

Which Taxonomy: (1-36): 14



#### DIABETES TAXONOMY UPDATE

Updating the DM AUDIT CHOLESTEROL TAX taxonomy ITEM NAME Internal Entry #

1)	PAH CHOLESTEROL-before Dec2006	183
2)	CHOLESTEROL (R)	9999775
3)	CHOLESTEROL (Q)	2001529

Enter ?? for more actions A Add Taxonomy Item R Remove an Item Select Action:+// A

Select LAB NAME: CHOLESTEROL (POCT) (ADD NEW LAB)



#### DIABETES TAXONOMY UPDATE

Updating the DM AUDIT CHOLESTEROL TAX taxonomy ITEM NAME Internal Entry #

1)	PAH CHOLESTEROL-before Dec2006	183
2)	CHOLESTEROL (R)	9999775
3)	CHOLESTEROL (Q)	2001529
4)	CHOLESTEROL (POCT)	9999549

Enter ?? for more actions

A Add Taxonomy Item R Remove an Item Select Action:+// Q



# **Data Quality Check**



# **Data Quality Check**

The Data Quality Check feature reviews each data item and looks for things that might be and/or are definitely incorrect.

### • Two types of errors:

- **Potential**: Value might be incorrect.
  - Values that are higher or lower than expected.
  - Example: A1c<2
- **Definite**: Value is definitely incorrect according to Audit logic.
  - Often related to dates and skip patterns.
  - Example: Date of Diabetes Diagnosis is before year of birth (YOB).



#### AUDIT SETUP

- DXNR Patients with DM Diagnosis and not on Register
- INA List Possible Inactive Pts in the DM Register
- PLDX Patients w/no Diagnosis of DM on Problem List
- LMR List Labs/Medications Used at this Facility
- TC Check Taxonomies for the 2024 DM Audit
- TU Update/Review Taxonomies for 2024 DM Audit
- VTAX View/Print Any Taxonomy Used by the Diabetes Audit
- VSML View a SNOMED List Used by the Diabetes AUDIT
- DAL Display Audit Logic

DQC 2024 Data Quality Check Report

ASPR Prior Years Diabetes Audit Setup (DM19-DM23) ...

Select Audit Setup <TEST ACCOUNT> Option: TU Update/Review Taxonomies for 2024



Select Audit Setup <TEST ACCOUNT> Option: DQC 2024 Data Quality Check Report

In order for the 2024 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 [BGP HEP C TESTS TAX] contains a panel test: HEPATITIS C PROFILE and should not. DRUG taxonomy [DM AUDIT AMYLIN ANALOGUES] has no entries DRUG taxonomy [DM AUDIT COLESEVELAM DRUGS] has no entries LABORATORY TEST taxonomy [DM AUDIT HGB A1C TAX] contains a panel test: HGB A1c (R) and should not. DRUG taxonomy [DM AUDIT SULFONYLUREA-LIKE] has no entries DRUG taxonomy [DM AUDIT TIRZEPATIDE DRUGS] has no entries

End of taxonomy check. HIT RETURN:

**Note: TC** Check Taxonomies for the 2024 DM Audit in Audit Setup Menu.



### Select DIABETES Register

No. Register Name	# Active	# members	Last patient update members
1 DKB DIABETES REGISTER	10	10	12/31/2023
2 DKB PRE-DIABETES REGIST	ER 6	6	12/02/2023
Which REGISTER: (1-2): 1			

> VERSION 2.0 (Patch 17) MAIN MENU - DKB DIABETES REGISTER

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: 12/31/23



#### Enter the Audit Date: 12/31/23 (DEC 31, 2023)

Select one of the following:

- P Individual Patients
- S Search Template of Patients
- C Members of a CMS Register
- E E-Audit (predefined set of patients)

Run the audit for: P// C Members of a CMS Register Do you want to select register patients with a particular status? Y// ENTER Which status: A// ACTIVE

There are **10** patients in the DKB DIABETES REGISTER 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 one or more primary care providers? N// ENTER



Limit the patients who live in a particular community ? N// ENTER

Select one of the following:

- 1 Indian/Alaskan Native (Classification 01)
- 2 Not Indian Alaskan/Native (Not Classification 01)
- 3 All (both Indian/Alaskan Natives and Non 01)

Select Beneficiary Population to include in the audit: 1// ENTER

Select one of the following:

- Include Pregnant Patients
- E Exclude Pregnant Patients

Select whether to include or exclude pregnant patients in the audit: E// ENTER



#### There are 10 patients selected so far to be used in the audit.

Select one of the following:

- A ALL Patients selected so far
- R RANDOM Sample of the patients selected so far

#### Do you want to select: A// A

#### Select one of the following:

- PATIENT NAME
- E ERROR FIELD NAME

How should the report be sorted: P// ATIENT NAME

#### Select one of the following:

- Include ALL Patients
- E Exclude DEMO Patients
- O Include ONLY DEMO Patients

Demo Patient Inclusion/Exclusion: E//

#### Select one of the following:

P PRINT Output

B BROWSE Output on Screen Do you wish to: P// RINT Output (Browse) DEVICE: HOME// Virtual



### DIABETES AUDIT EXPORT DATA QUALITY CHECK REPORT Audit Date 12/31/2023 (01/01/2023 to 12/31/2023) Facility: DEMO HOSPITAL (INST)

PATIENT NAME	HRN	DOB	SEX	AGE	VALUE	ERR TYPE
ABBIE, JAMES STEPHEN ERROR: TX INSULIN/I DM Type 1, check me	894728 DM TYPE 1-V edications a	01/25/20 Value for th nd DM Typ	11 M nis treatme e.	11 ent incons	1 sistent with	<b>POTENTIAL</b>
ABBIE, JAMES STEPHEN ERROR: ALL KEY DATA M blood pressure, A1c, LD	894728 IISSING-Dat L, uACR.	01/25/20 a is missing	11 M g for all key	11 / fields: w	veight,	POTENTIAL
ABBIE, JAMES STEPHEN ERROR: DATE OF DX BEF of birth.	894728 ORE YOB-D	01/25/20 ate of Diab	11 M etes Diagn	11 nosis is be	efore year	DEFINITE


#### Individual Audit Report: ABBIE, JAMES STEPHEN

Diabetes Therapy All prescribed (as of the end of the Audit period):

#### X 1 None of the following

- 2 Insulin

- 3 Metformin [Glucophage, others]
  4 Sulfonylurea [glipizide, glyburide, glimepiride]
  5 DPP-4 inhibitor [alogliptin (Nesina), linagliptin (Tradjenta), saxagliptin (Onglyza), sitagliptin (Januvia)]
  6 GLP-1 receptor agonist [dulaglutide (Trulicity), exenatide (Byetta, Bydureon), liraglutide (Victoza, Saxenda), lixisenatide (Adlyxin), semaglutide (Ozempic, Rybelsus, Wegovy)]
  7 SGLT-2 inhibitor [bexagliflozin (Brenzavvy), canagliflozin (Invokana), dapagliflozin (Farxiga), empagliflozin (Jardiance), ertugliflozin (Steglatro), sotagliflozin (Inpefa)]
- ertugliflozin (Steglatro), sotagliflozin (Inpefa)] 8 Pioglitazone [Actos] or rosiglitazone [Avandia]

- 9 Tirzepatide [Mounjaro] 10 Acarbose [Precose] or miglitol [Glyset] 11 Repaglinide [Prandin] or nateglinide [Starlix] 12 Pramlintide [Symlin] 13 Bromocriptine [Cycloset] 14 Colesevelam [Welchol]

Enter RETURN to continue or '^' to exit:



## **Data Quality Check**

The Data Quality Check feature reviews each data item and looks for Potential Errors and Definite Errors. Correct your data, if needed.

### • If data corrected:

- In RPMS before uploading, errors will not appear in WebAudit version.
- In the WebAudit, but not RPMS, errors will still appear in DMS version.

### • Correct data in RPMS, if possible, before creating your data file.

- Be sure to verify data before making any changes in RPMS.
- If a data file is uploaded into the WebAudit and changes are made in RPMS, create a new data file and upload new data file into the WebAudit (will overwrite previous).



## Create an Audit Data File



## Audit Export Data File

- Creating the Audit export data file
- Retrieving the Audit export file
  - May require assistance from your local IT staff
  - Provide the name of the file and where you want the file placed.
  - Do not send file through email, even if encrypted
  - IHS Secure Data Transfer Service (SDTS) (option)
- Uploading the Audit export file to the WebAudit



### \*\* DIABETES MANAGEMENT SYSTEM \*\*

### VERSION 2.0 (Patch 17) MAIN MENU

- RM Register Maintenance ...
- AS Audit Setup ...
- AR Audit Reporting ...
- PDM Prediabetes Menu ...

Select Diabetes Management System Option: AR



DM242024 Diabetes AuditDM232023 Diabetes AuditDM222022 Diabetes Audit

Select Audit Reporting Option: DM24



Select Audit Setup <TEST ACCOUNT> Option: DQC 2024 Data Quality Check Report

In order for the 2024 DM AUDIT Report to find all necessary data, several taxonomies must be established. The following taxonomies are missing or have no entries:

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End of taxonomy check. HIT RETURN:



### Select DIABETES Register

N (	o. Register Name	# Ac	tive	# members	Last patient update members 
1	DKB DIABETES REGISTER		10	10	12/31/2023
2	DKB PRE-DIABETES REGIS	STER	6	6	12/02/2023
W	hich REGISTER: (1-2): <mark>1</mark>				



THIS SYSTEM CONTAINS CONFIDENTIAL PATIENT INFORMATION COVERED BY THE PRIVACY ACT. UNAUTHORIZED USE OF THIS DATA IS ILLEGAL

\*\* DIABETES MANAGEMENT SYSTEM \*\* VERSION 2.0 (Patch 17) MAIN MENU - DKB DIABETES REGISTER

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: 12/31/23



#### Enter the Audit Date: 12/31/23 (DEC 31, 2023)

Select one of the following:

- P Individual Patients
- S Search Template of Patients
- C Members of a CMS Register
- E E-Audit (predefined set of patients)

Run the audit for: P// C Members of a CMS Register Do you want to select register patients with a particular status? Y// ENTER Which status: A// ACTIVE

There are **10** patients in the DKB DIABETES REGISTER 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 one or more primary care providers? N// ENTER

Limit the patients who live in a particular community ? N// ENTER

Select one of the following:

- 1 Indian/Alaskan Native (Classification 01)
- 2 Not Indian Alaskan/Native (Not Classification 01)
- 3 All (both Indian/Alaskan Natives and Non 01)

Select Beneficiary Population to include in the audit: 1// ENTER

Select one of the following:

- Include Pregnant Patients
- E Exclude Pregnant Patients

Select whether to include or exclude pregnant patients in the audit: E// ENTER

okay, hold on...this may take a few minutes.



There are 9 patients selected so far to be used in the audit.

Select one of the following:

- A ALL Patients selected so far
- R RANDOM Sample of the patients selected so far

Do you want to select: A// LL Patients selected so far

Select one of the following:

- 2 Create AUDIT EXPORT file
- 3 Audit Report (Cumulative Audit)
- 4 Both Individual and Cumulative Audits
- 5 SDPI RKM Report

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): dkb\_2024\_DMAUDIT

I am going to create a file called dkb\_2024\_dmaudit.txt which will reside in the G:\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. PLEASE jot down and remember the following file name: \*\*\*\*\*\*\*\*\* dkb\_2024\_dmaudit.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 dkb\_2024\_dmaudit.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// Y or enter



## Audit Data File

Audit2023DemoData\_N5.txt - Notepad

File Edit Format View Help

#### Note:

- The Audit export file contains raw data; don't edit anything here.
- This can be opened the file using Notepad or other software that allows viewing.
- The original data file is the only one that can be uploaded into the WebAudit.





# Audit Report



#### Select one of the following:

- 1 Print Individual Reports
- 2 Create AUDIT EXPORT file
- 3 Audit Report (Cumulative Audit)
- 4 Both Individual and Cumulative Audits
- 5 SDPI RKM Report

Enter Print option: 1// 3 Audit Report (Cumulative Audit)

#### Select one of the following:

- Include ALL Patients
- E Exclude DEMO Patients
- O Include ONLY DEMO Patients

Demo Patient Inclusion/Exclusion: E//

#### Select one of the following:

- P PRINT Output
- B BROWSE Output on Screen

Do you wish to: P// RINT Output DEVICE: HOME// Virtual



Feb 13, 2024					
Audit Report for 2024 (Audit Period 01/01/2023 to 12/31/2023) Facility: 2021 DEMO HOSPITAL (INST) Annual Audit 9 patients were audited Unless otherwise specified, time period for each item is the 12-month Audit Period					
	# of Patients (Numerator)	# Considered (Denominator)	Percent		
Birth Sex Male Female Unknown	5 4 0	9 9 9	56% 44% 0%		
Age <20 years 20-44 years 45-64 years >=65 years	2 2 3 2	9 9 9 9	22% 22% 33% 22%		



## **Prediabetes Reports**



\*\*\*\*\*\*\*\*\*\*\*\*\*\*

- RM Register Maintenance ...
- AS Audit Setup ....
- AR Audit Reporting ...

PDM Prediabetes Menu ...

Select Diabetes Management System Option: PDM





\*\* DIABETES MANAGEMENT SYSTEM \*\*

VERSION 2.0 (Patch 17) 2021 DEMO HOSPITAL (INST) PREDIABETES REGISTER AND REPORTS

PDPM Prediabetes Register Patient Management
PPCS Prediabetes Patient Care Summary
PDAR Prediabetes Assessment of Care/Health Status Rpt
PDTC Check Taxonomies for the Prediabetes Report
PDTU Update/Review Taxonomies for Prediabetes Report
PDIR Install Pre-Diabetes Register

#### You've got PRIORITY mail!

Select Prediabetes Menu <TEST ACCOUNT> Option:



## Audit 2024 Resources



# Audit Resources

- Website: <u>https://www.ihs.gov/diabetes</u> -> Select "IHS Diabetes Audit" from menu
  - a. Materials: Form, Instructions, Checklists, RPMS/DMS documentation
  - b. Training: Live, recorded, DMS
  - c. Other information and resources

## 2. Support

- a. Audit team (WebAudit & general questions): email <u>diabetesaudit@ihs.gov</u>
- b. <u>Area Diabetes Consultants</u>/Area Audit Support
- c. RPMS questions and support (OIT Service Desk): https://www.ihs.gov/Helpdesk/
- d. RPMS DMS recorded training: <u>https://www.ihs.gov/rpms/training/recording-and-material-library/</u>



## Upcoming Audit 2024 Webinars

### Audit Reports

- Tuesday, 2/20/2024
- 3pm ET / 2pm CT / 1pm MT / 12pm PT / 11am AKT (1 hour)
- Overview of changes to Audit Reports for 2024 and guidance for reading and reviewing Audit reports.
- Time for Q&A
- Will be recorded.

### Thank you!

## We look forward to seeing your data!

