# IHS Division of Diabetes Treatment and Prevention
# Annual Diabetes Care and Outcomes Audit 2021
## Checklist for Electronic Audits
## February 2021

| Step | 1.0 Preparation | Completed? |
|---|---|---|
| 1.1 | Review the detailed 2021 Audit instructions[1] with particular attention to the section on conducting an electronic Audit. | |
| 1.2 | Update software for Audit 2021.<br>• *RPMS*: Make sure that Diabetes Management System (DMS) Version 2.0, **Patch 14** has been successfully installed.<br>• *Other (non-RPMS) systems*: Work with your team and software developers to make necessary updates. See the 2021 Audit instructions[1] for details. | |
| 1.3 | Review software specific documentation for Audit 2021.<br>• *RPMS*: DMS Diabetes Audit 2021 Addendum[2]<br>• *Other (non-RPMS) systems*: Contact your software developers to request. | |
| 1.4 | *RPMS Only*: Update site-populated taxonomies.<br>  a. Identify the labs and medications used at your site by running the "List Labs/Medications Used at this Facility" report. (DMS menu options: AS -> LMR)<br>  b. Run the "Check Taxonomies for the 2021 DM Audit" report. (DMS menu options: AS -> TC)<br>  c. Review and update site-populated taxonomies including Medications and Laboratory Tests. (DMS menu options: AS -> TU)<br>**Tips**:<br>• See pages 4-6 of this document for a list of site-populated taxonomies.<br>• Remove lab panels and place combination medications in all appropriate taxonomies. | |

| Step | 2.0 Identify Patients for Inclusion in Your Audit | Completed? |
|---|---|---|
| 2.1 | **Option 1: Use your diabetes registry. Update, as needed, prior to conducting the Audit.**<br>• *RPMS*:<br>  o Find ineligible patients by running the "List Possible Inactive Pts in the DM Register" report. (DMS menu options: AS -> INA)<br>  o Change register status for ineligible patients. (DMS menu options: RM-> PM)<br>  o Find newly diagnosed diabetes patients by running the "Patients with DM Diagnosis and not on Register" report. (DMS menu options: AS -> DXNR)<br>  o Add 1eligible patients to the Diabetes Register. (DMS menu options: RM-> PM)<br>• *Other (non-RPMS) systems:* Work with your team and software developers to identify and update your diabetes registry. | |
| 2.2 | **Option 2: Create a list or template of diabetes patients.**<br>• *RPMS*:<br>  o Create a Fileman template using QMAN. See pp. 16-23 of the DMS Diabetes Audit 2021 Addendum[2] for guidance.<br>  o Save the template with a name that you will remember.<br>• *Other (non-RPMS) systems:* Work with your team and software developers. | |

---

| Step | 3.0 Review Data Quality | Completed? |
|---|---|---|
| 3.1 | Run a Data Quality Check report.<br>• *RPMS*: Use DMS. (DMS menu options: AS -> DQC)<br>• *Other (non-RPMS) systems*: Work with your team and software developers. | |
| 3.2 | Review Data Quality Check report and fix as many errors as possible. | |
| 3.3 | Run and review an Audit Report.<br>• *RPMS*: Use DMS. (DMS menu options: AR -> DM21)<br>    o  Print Individual Audits if needed to troubleshoot or verify specific patient information.<br>    o  Review the Diabetes Audit logic, if necessary. (DMS menu options: AS -> DAL)<br>    o  Review and update taxonomies, if necessary. (DMS menu options: AS -> VTAX)<br>    o  Make other corrections, as needed.<br>• *Other (non-RPMS) systems*: Work with your team and software developers. | |

| Step | 4.0 Create Electronic Audit Data File | Completed? |
|---|---|---|
| 4.1 | Create an Audit Export (Data) file.<br>• *RPMS*: Use DMS. (DMS menu options: AR -> DM21)<br>• *Other (non-RPMS) systems*: Work with your team and software developers. | |

| Step | 5.0 Submit and Review Data via the WebAudit | Completed? |
|---|---|---|
| 5.1 | Request a WebAudit account if you do not already have one. For more information, see the IHS Division of Diabetes Audit website[3]. | |
| 5.2 | Login to the WebAudit: Go to the Audit website[3] and click on the "WebAudit Login" link or menu item. | |
| 5.3 | Enter information about your facility using the *Enter Facility Info* tool (under *Facility Administration*). | |
| 5.4 | Upload your electronic Audit data file using the *Upload Data* tool. Be sure to read the requirements and instructions on the main screen before uploading. | |
| 5.5 | Check again for data errors using the *Data Quality Check* tool:<br>• Fix as many errors as possible using the *View/Edit Data* tool or by making corrections using RPMS or other EHR.<br>• If you make corrections using RPMS or other EHR, create and upload a new data file. | |
| 5.6 | Run and review the Audit Report and Trends Graphs for 2021.<br>• If necessary, make corrections to data using the *View/Edit Data* tool in the WebAudit or using RPMS or other EHR.<br>• If you make corrections using RPMS or other EHR, create and upload a new data file. | |
| 5.7 | Lock the data for your facility using the *Lock Facility Data* tool (under *Facility Administration*). | |
| 5.8 | Complete the Audit 2021 User Evaluation[4] (optional). | |

| Step | 6.0 Optional Activities Using the WebAudit | Completed? |
|---|---|---|
| 6.1 | Download the data for all records for your facility into an Excel file using the *View/Edit Data* tool (under *Data Processing*). Use these data for additional analysis or other local purposes. | |
| 6.2 | Run and review the Means Report (under *Reports*) to see estimated mean values for selected Audit outcomes for patients from your facility. | |

---

[3] https://www.ihs.gov/diabetes/audit/
[4] https://www.surveymonkey.com/r/audit2021ue

# Additional RPMS Diabetes Audit Information

**RPMS Diabetes Management System Keys:**
> You must have keys assigned to your user profile in RPMS in order to access some applications and functionality. You will need the following keys to fully utilize the DMS. Talk to your RPMS site manager if you are having trouble accessing the DMS application.
> - BDMZMENU – This key unlocks the main DMS menu. It should be assigned to all users who need to have access to the DMS system to manage patient data, run reports, etc.
> - BDMZEDIT – This key allows a user to edit patient register specific data elements.
> - BDMZ REGISTER MAINTENANCE – This key unlocks the register maintenance options. This key should only be given to the individuals who are responsible for register maintenance and register structure.
>
> Users must be added as authorized users to access the Diabetes Register.

**Register Status Definitions**
- **A-Active** patients who receive their primary healthcare at a facility and who have had care at that 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 and 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 who are documented as deceased in the Patient Registration application will appear in DMS as deceased; however documenting that a patient is deceased in DMS will only appear in the DMS registry.

- **N-Non-IHS** patients who receive their diabetes 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.

# Site-Populated Taxonomies: Medications

**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 hydrochlorothiazide (Avalide)

Losartan (Cozaar)

Losartan and hydrochlorothiazide (Cozaar)

Olmesartan (Benicar)

Telmisartan (Micardis)

Valsartan (Diovan)

Valsartan and hydrochlorothiazide (Diovan/HCT)

**DM AUDIT ACARBOSE DRUGS**

Acarbose (Precose)

Miglitol (Glyset)

**DM AUDIT AMYLIN ANALOGUES**

Pramlinitide (Symlin)

**DM AUDIT ANTIPLT/ANTICOAG RX**

Any non-aspirin anti-platelet product including Heparin and Warfarin (Coumadin)

Apixaban (Eliquis)

Aspirin and Dipyridamole (Aggrenox)

Cilostazol (Pletal)

Clopidogrel (Plavix)

Dabigatran Etexilate (Pradaxa)

Dipyridamole (Persantine)

Edoxaban (Sarvaysa)

Ticagrelor (Brilinta)

Ticlopidine (Ticlid)

Prasugrel (Effient)

Rivaroxaban (Xarelto)

Vorapaxar (Zontivity)

**DM AUDIT ASPIRIN DRUGS**

Any Aspirin (ASA) or Aspirin containing product (Verasa, Rubrasa)

**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 GLITAZONE DRUGS**

Pioglitazone (Actos)

Rosiglitazone (Avandia)

## DM AUDIT GLP-1 ANALOG DRUGS

Dulaglutide (Trulicity)
Liraglutide (Victoza)
Exenatide (Byetta, Bydureon)
Semaglutide (Ozempic, Rybelsus)

## DM AUDIT INSULIN DRUGS

Any Insulin product in Drug File
Humulin R Regular U-500
Inhalable Insulin (Affreza)
Insulin Aspart (Novolog)
Insulin Degludec (Tresiba)
Insulin Detemir (Levimir)
Insulin Glargine (Lantus)
Insulin Glulisine (Apidra)
Insulin Lispro (Humalog)
Insulin, REG
Lente
NPH
Pre-Mixed Insulins (70/30, 75/25)
Ultralente

## DM AUDIT METFORMIN DRUGS

Metformin (Glucophage, Fortamet, Glumetza, Riomet)
Metformin extended release (Glucophage XR, Glumetza)
Metformin and Alogliptin (Kazano)
Metformin and Canagliflozin (Invokamet)
Metformin and Dapagliflozin (Xigduo)
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 SGLT-2 INHIBITOR DRUGS

Canagliflozin (Invokana)
Dapagliflozin (Farxiga)
Empagliflozin (Jardiance)

## DM AUDIT STATIN DRUGS

Atorvastatin (Lipitor)
Atorvastatin and Amlodipine (Caduet)
Atorvastatin and Ezetimibe (Liptruzet)
Fluvastatin (Lescol)
Lovastatin (Mevacor, Altocor, Altoprev)
Lovastatin and Niacin (Advicor)
Pravastatin (Pravachol)
Pitivistatin (Livalo)
Rosuvastatin (Crestor)
Simvastatin (Zocor)
Simvastatin and Ezetimibe (Vytorin)
Simvastatin and Niacin (Simcor)
Simvastatin and Sitagliptin (Juvisync)

## DM AUDIT SULFONYLUREA DRUGS

Acetohexamide (Dymelor)
Chlorpropamide (Diabinese)
Glimepiride (Amaryl)
Glimepiride and pioglitazone (Duetact)
Glimepiride and rosiglitazone (Avandaryl)
Glipizide (Glucotrol)
Glipizide and metformin (Metaglip)
Glyburide (Diabeta,Micronase,Glynase, Glycron)
Glyburide and metformin (GlucoVance)
Tolazamide (Tolinase)
Tolbutamide (Orinase)

## DM AUDIT SULFONYLUREA-LIKE DRUGS

Nateglinide (Starlix)
Repaglinide (Prandin)
Repaglinide and Metformin (PrandiMet)

# Site-Populated Taxonomies: Lab

**Do not include lab panels in your lab taxonomies**

**BGP GPRA ESTIMATED GFR TAX**

Estimated GFR, Calculated GFR, _GFR, Estimated, _GFR Non-African American, EST GFR, eGFR

**BGP CREATINE KINASE TAX**

CK, CPK, Creatine Kinase, Total CK

**DM AUDIT ALT TAX**

ALT, SGPT

**DM AUDIT AST TAX**

AST, SGOT

**DM AUDIT CREATININE TAX**
**(Be careful not to include any tests for Urine Creatinine.)**

Creatinine, POC Creatinine, Serum Creatinine, _Creatinine

**DM AUDIT HDL TAX**

HDL, HDL Cholesterol, POC HDL Cholesterol, _HDL Cholesterol

**DM AUDIT HBG 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 MICROALBUMINURIA TAX**

Microalbumin, _Microalbumin, Albumin, Urine, POC Microalbumin

**DM AUDIT QUANT UACR**

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 TB LAB TESTS**

QFT-G, T SPOT-TB, Quantiferon GOLD

**DM AUDIT TRIGLYCERIDE TAX**

Triglyceride, POC Triglyceride, _Triglyceride