IHS Diabetes Care and Outcomes Audit

Audit 2021 Reports: Basics and Beyond

IHS Division of Diabetes Treatment and Prevention March 3, 2021

Topics

- 1. Audit reports what are they and how to get them
- 2. Changes for 2021
- 3. Reading reports, including how statistics are calculated
- 4. Reviewing reports and graphs for potential data issues

Diabetes Audit Team

Ann Bullock, MD

Director, DDTP

Lori Butcher

RPMS Developer

Cecilia Butler, RD

Audit Support & Training

Renee Chase, RN

Nurse Informatics Consultant

Lani Desaulniers, MD

Clinical Consultant

James Doughty

WebAudit Developer

Carmen Hardin, MSN

Deputy Director, DDTP

Theresa Oakley

Tier 3C User Support Manager

Duane Rozsnyai, MBA, PMP

DMS Project Manager

Kelly Samuelson

IT Quality Analyst, Senior

Karen Sheff, MS

Biostatistician

Skip Squires

DMS Technical Lead

Mark Williams

Visual DMS Developer

Audit Report Basics

What are Audit Reports (capital R)

- The Audit Report (capital R) provides a basic summary of the data elements in the Audit for <u>each</u> year.
- Results are presented as the number and percent of patients who 'meet' each report item. For example, 63% of Audited patients have blood pressure <140/<90.
- Audit Reports can be obtained from the WebAudit or RPMS/DMS and possible other EHR systems. Results should be the same IF run on the same patients and at the same date and time (exception is minor differences due to rounding).
 - IHS and Area results are provided on the WebAudit version for comparison, once all data are final.

Other Audit reports (lowercase R)

- Other Audit summary reports (lowercase r) for each year are available via the WebAudit and/or RPMS:
 - SDPI Key Measures (subset of main Audit Report):
 WebAudit and RPMS
 - Means: WebAudit only
- **Graphs** of Audit results over time for selected measures are available via the WebAudit.
 - Trends Graphs
 - Means Graphs

How to get Audit reports

NOTE: WebAudit access is limited to individuals who participate in conducting Audits OR as determined by facility staff. RPMS/DMS access is determined by facility staff.

- 1. If you do have access to the WebAudit and/or RPMS:
 - WebAudit: https://www.ihs.gov/diabetes/audit/
 - RPMS: https://www.ihs.gov/diabetes/audit/audit-rpms-dms-information/
- 2. If you do not have WebAudit or RPMS access:
 - Request from your facility
 - Contact your Area Diabetes Consultant

Audit Report - WebAudit

First several items from page 1 of 8:

IHS Diabetes Care and Outcomes Audit - Webbudit DRAFT Audit Report for 2021 (Audit Period 01/01/2020 - 12/31/2020) Facility: Test02 Sample Data Annual Audit

170 charts were audited from 170 patients determined to be eligible by Test02 Sample Data. Unless otherwise specified, time period for each item is the 12-month Audit Period.

	# of Patients (Numerator)	# Considered (Denominator)	Percent	Area Percent	IHS Percent
Gender					
Male	57	170	34%		
Female	113	170	66%		
Age					
< 20 years	0	170	0%		
20-44 years	66	170	39%		
45-64 years	79	170	46%		
≥ 65 years	25	170	15%		
Diabetes Type					
Type 1	0	170	0%		
Type 2	170	170	100%		
Duration of Diabetes					
< 1 year	1	170	1%		
< 10 years	53	170	31%		
≥ 10 years	114	170	67%		
Diagnosis date not recorded	3	170	2%		

Audit Report – RPMS/DMS

First several items from page 1:

LAB Nov 03	Nov 03, 2020		Page 1
IHS Diabetes Care and Outo Audit Report for 2021 (Audit Per Facility: 2020 DEMO Annual 978 patients w Unless otherwise specified, time period f	iod 01/01/2020 HOSPITAL (INST Audit ere audited	to 12/31/2020)	
	# 9£		Percent
	Patients	Considered	
	(Numerator)	(Denominator)
Gender			
Male	394	978	4 ∩ %
Female	584	978	60%
I CMUIC	551	370	000
Age			
<20 years	25	978	3%
20-44 years	89	978	9%
45-64 years	300	978	31%
>=65 years	564	978	58%
Diabetes Type			
Type 1	36	978	4%
Type 2	942	978	96%
-15			
Duration of Diabetes			
<1 year	0	978	0%
<10 years	19	978	2%
>=10 years	582	978	60%
Diagnosis date not recorded	377	978	39%
-			

Audit Report - General Info

- Results are presented as the number and percent of patients who 'meet' each report item.
- Items may be reported for:
 - 1. All patients
 - 2. A subgroup of patients: items reported for subgroups are indicated by keywords "In" or "If" (e.g., In patients aged 40-75). Some are also indented.
 - 3. Both of the above
- Order is <u>not</u> the same as the Audit Form.
- Patients with missing values for an item are counted in the denominator for <u>most</u> items.
- There are some changes to Audit Report every year. Some years these are minor, others more extensive.

Audit Report Changes for 2021

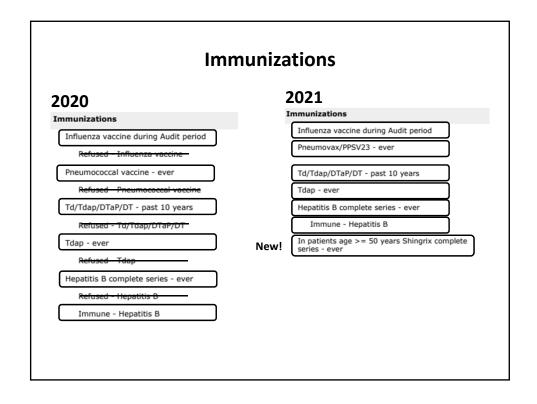
Audit Report Changes

- When: Audit Report (capital R) changes are made each year for the Annual Audit.
- Why
 - 1. Currency To align with IHS and other national standards and reports, such as, IHS GPRA measures.
 - 2. Consistency To be consistent with other materials from IHS and the Division of Diabetes.
 - 3. Clarity To facilitate understanding of each item on the report.
 - 4. Completeness To provide all the necessary information for interpreting the report items.

Audit Report Changes for 2021

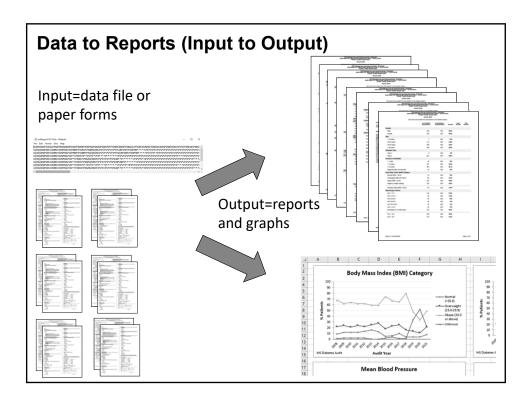
1. General:

- a. Minor changes to wording for some items.
- b. Medication lists: alphabetized and case corrected.
- 2. Specific: Details on following slides



Tuberculosis (TB) Changes 2020 Tuberculosis (TB) Status TB test done ever (skin or blood) -If test done, skin test -If test done, positive result If positive TB test, treatment completed If negative TB test, test done after diabetes diagnosis 2021 Tuberculosis (TB) Status TB diagnosis documented ever and/or positive test result ever If not diagnosed, TB test done ever (skin test or blood test) If TB diagnosis documented and/or positive test result, treatment initiated ever If most recent TB test result was negative, was test done after diabetes diagnosis

How to read Audit Reports



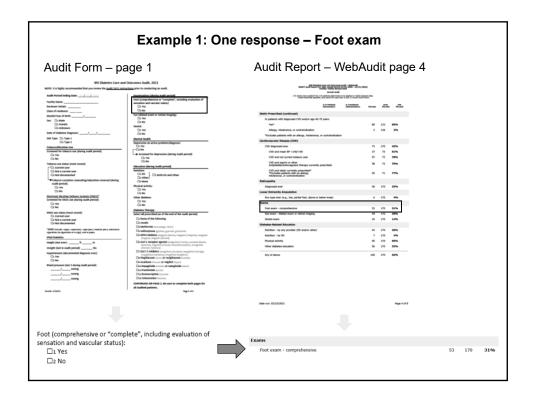
Audit 2021 Report Header - WebAudit

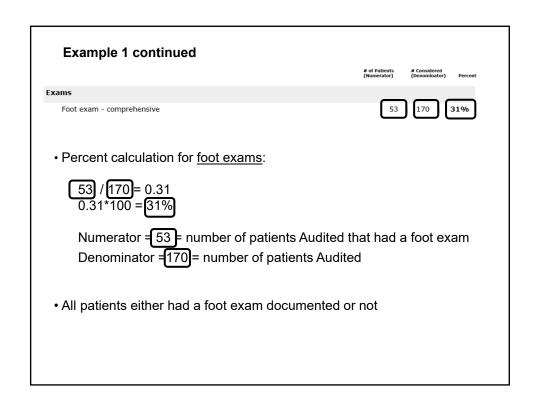
IHS Diabetes Care and Outcomes Audit - WebAudit
DRAFT Audit Report for 2021 (Audit Period 01/01/2020 - 12/31/2020)
Facility: Test02 Sample Data

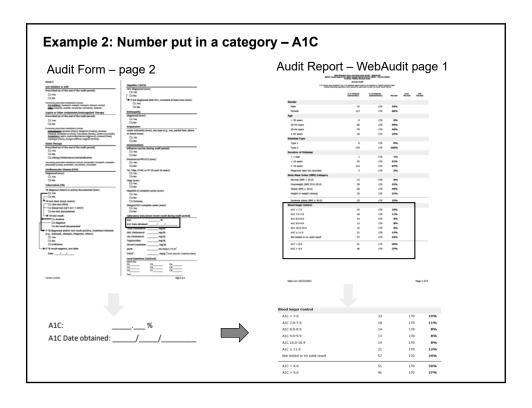
Annual Audit

170 charts were audited from 170 patients determined to be eligible by Test02 Sample Data. Unless otherwise specified, time period for each item is the 12-month Audit Period.

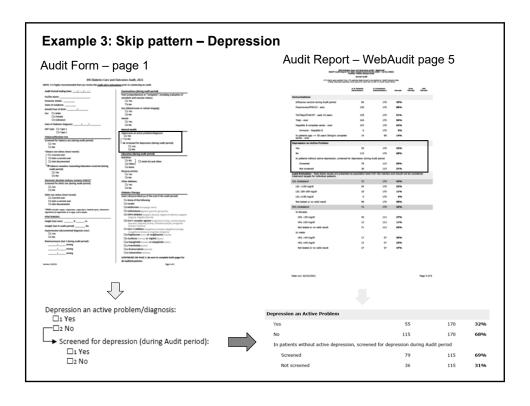
- 2021: Audit "version"
- **01/01/2020-12/31/2020:** Audit (time) period for which data are reviewed
- Annual (vs. Interim) Audit
- · Number of patients included out of how many eligible

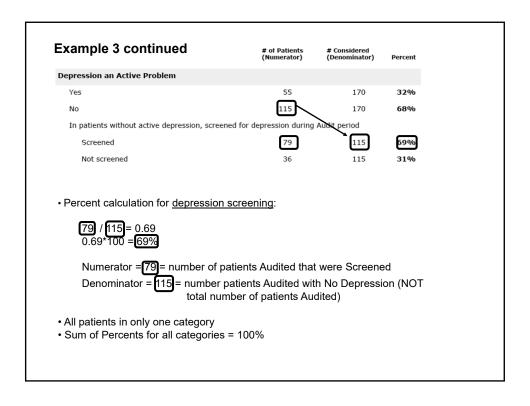


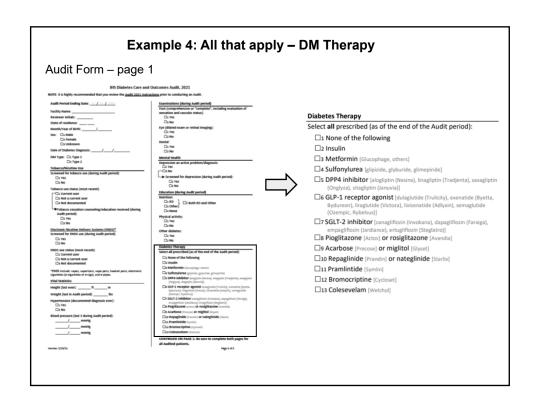


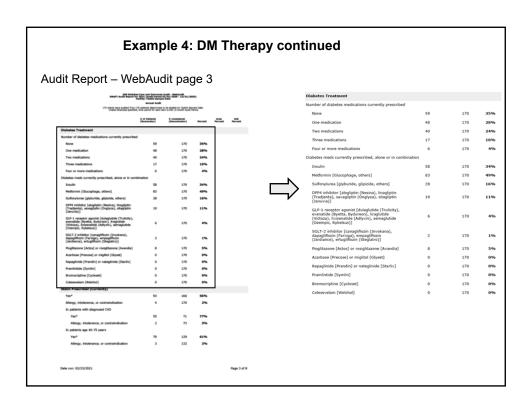


Example 2 continued	# of Patients (Numerator)	# Considered (Denominator)	Percent	
Blood Sugar Control	_	_	_	
A1C < 7.0	33	170	19%	
A1C 7.0-7.9	18	170	11%	
A1C 8.0-8.9	14	170	8%	
A1C 9.0-9.9	13	170	8%	
A1C 10.0-10.9	14	170	8%	
A1C ≥ 11.0	21	170	12%	
Not tested or no valid result	57	170	34%	
A1C < 8.0	51	170	30%	
A1C > 9.0	46	170	27%	
Percent calculation for A1C<7.0: 33 / 170 = 0.19 0.19*100 = 19% Numerator = 33 = number of patients Audited with A1C<7.0 Denominator = 170 = number of patients Audited				
Numerator = 33 = number of patien				









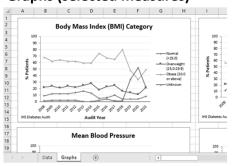
Example 4: DM Therapy continued Diabetes Treatment Number of diabetes medications currently prescribed Two sections for this item: 1. How many medications currently 170 24% prescribed 170 10% Four or more medications 170 4% 2. Which medications 2 Diabetes meds currently prescribed, alone or in combination Insulin 170 34% • Sum of percentages for section 1=100% • Sum of percentages for section 2 can be 170 11% >100% because patients can be on more 170 4% than one med SGLT-2 inhibitor [canagliflozin (Invokana), dapagliflozin (Farxiga), empagliflozin (Jardiance), ertugliflozin (Steglatro)] 170 1% Pioglitazone [Actos] or rosiglitazone [Avandia] Acarbose [Precose] or miglitol [Glyset] 170 0% 0% Repaglinide [Prandin] or nateglinide [Starlix] 170 Pramlintide [Symlin] 170 0% Bromocriptine [Cycloset] 170 0% Colesevelam [Welchol] 170 0%

Trends Graphs

- Available in the WebAudit (soon!).
- Two "tabs": Data and Graphs.

Data (all measures)

Graphs (selected measures)



Annual Audit Report Review – General Guidance

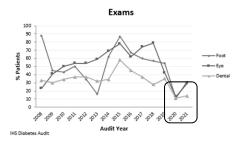
- Print or pull up on screen:
 - a. Annual Audit Reports from the WebAudit for 2021 and 2020.
 - b. Trends Graphs from the WebAudit.
- 2. Review Audit Report for 2021.
 - a. Number of patients:
 - Number included in Audit should be equal to or smaller than number in registry (aka eligible patients).
 - ii. Number Audited and eligible for 2021 vs. 2020: Are they similar or different with good reason?
 - b. Missing data: Are there unexpectedly large amounts of missing data for any items?
 - **c. Extreme values**: Are there rows with <u>unexpectedly</u> low (near 0%) or high (near 100%) values?

Annual Audit Report Review – Guidance (continued)

- 3. Review Trends Graphs: Look for "big" changes from 2020 to 2021.
 - Data tab: Review DIFF 2021-2020 column.

4	Α	В	N	0	Р	Q
1	ITEM	DATAFIELD	2019%	2020%	2021%	DIFF 2021-2020
83	82	Exams: Foot	54	11	31	20
84	83	Exams: Eye	42	13	29	16
85	84	Exams: Dental	35	11	14	3

- Graphs tab: Look for "spikes" up or down from 2020 to 2021.



Annual Audit Report Review – Guidance (continued)

- If any issues are found during review, correct data as needed in RPMS or in the WebAudit.
 - i. For Electronic Audits:
 - a. Best to correct in RPMS (or other system), create a new data file, and reupload to the WebAudit.
 - b. If corrections are made in the WebAudit, they should also be made in your FHR
 - ii. For Manual Audits, make changes to individual records in the WebAudit.

Audit Resources

- Website: https://www.ihs.gov/diabetes -> Select "IHS Diabetes Audit" from menu
 - Materials: Form, Instructions, Checklists, RPMS/DMS documentation
 - Training: Live, recorded, DMS
 - Other information and resources
- 2. Support from Audit team (WebAudit and general questions): email diabetesaudit@ihs.gov
- 3. Area Diabetes Consultants/Area Audit Support
- 4. RPMS
 - a. Questions and support (OIT Service Desk): https://www.ihs.gov/Helpdesk/
 - b. Diabetes Management System recorded training: email RPMSTraining@ihs.gov

WebAudit Demo	
Questions?	