

Section 1: Trends

- 1 Patients in the Diabetes Register
- 2 Gender of Patients with Diabetes
- 2 Age of Patients with Diabetes
- 3 Diabetes Type
- 3 Duration of Diabetes
- 4 Weight Control
- 5 Hemoglobin A1c
- 6 Blood Pressure
- 7 Tobacco Use
- 7 Tobacco Cessation Referrals
- 8 Diabetes Medications
- 9 ACE Inhibitor or ARB Prescriptions
- 9 Antiplatelet Therapy
- 10 Annual Examinations
- 10 Diabetes-Related Education
- 11 Immunizations
- 11 Patients diagnosed with Hypertension, CVD
- 12 Diagnosed Depression
- 12 Depression Screening among Patients without Active Depression Diagnoses
- 13 Renal Function Testing
- 13 Renal Function Testing: Combined Outcome Measures
- 14 HDL Cholesterol, Females and Males
- 15 LDL Cholesterol

Section 2: Comparisons to Overall Portland Area Results for 2016

- 17 Number of Patients in the 2016 Diabetes Audit
- 18 Gender, Age of Patients with Diabetes
- 19 Type, Duration of Diabetes
- 20 Weight (Body Mass Index)
- 20 Hemoglobin A1c
- 21 Blood Pressure
- 21 Tobacco Use & Tobacco Counseling
- 22 Comorbidities & Number of Comorbid Conditions
- 23 Chronic Kidney Disease in Adults (18+); Stages in Patients diagnosed with CKD
- 24 Patients Diagnosed with Hypertension with BP <140/90
- 24 Patients Diagnosed with Cardiovascular Disease
- 25 Patients with Diabetes-Related Prescriptions
- 25 Diabetes Medications, Alone or in Combination
- 26 Ace Inhibitor (or ARB) Prescriptions & Anti-Platelet Therapy
- 27 Statin Prescribed & Statin Use in Patients dx'd with CVD and Patients aged 40-75
- 28 Yearly Exams & Yearly Diabetes Education
- 29 Immunizations
- 29 Depression Identified as Active Diagnosis
- 30 Of Patients without Active Depression Diagnosis, Proportion Screened for Depression
- 30 Estimated GFR Testing
- 31 Estimated GFR Results; LDL Cholesterol
- 32 HDL Cholesterol Females; HDL Cholesterol Males
- 33 Triglyceride Distribution; Urinalysis Performed
- 34 UACR Results; Records Meeting ALL of the criteria (A1c<8.0, LDL<100, mean BP,140/30)
- 35 Tuberculosis Status; Type of TB test done; Positive/Negative results

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Just kidding...we added these words.

Diabetes Audit Results, Portland Area, 2004-2016

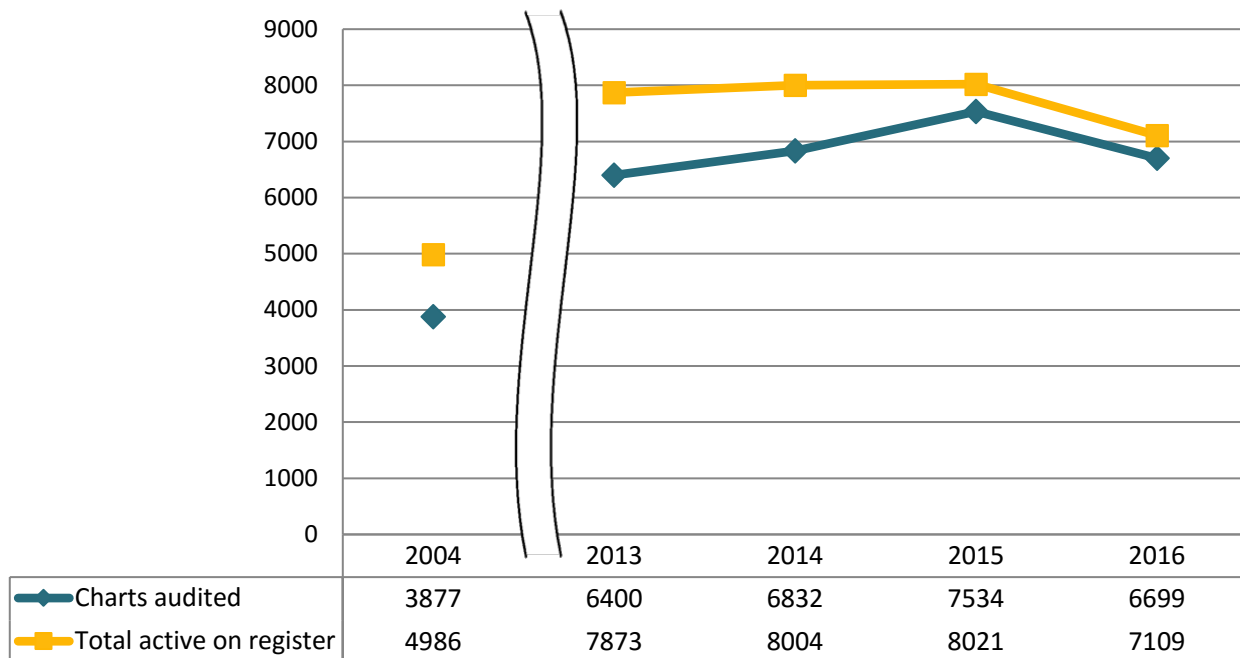
Site-Specific Trends

The following report contains information from your program's annual diabetes audit submission to the Indian Health Service over the past few years. The report was prepared for your site by the Western Tribal Diabetes Project at the Northwest Portland Area Indian Health Board, which receives Special Diabetes Program for Indians (SDPI) funding to assist Northwest tribes in managing their diabetes information. If you have any questions about the report, or if you would like this report in Excel format, please contact the Western Tribal Diabetes Project at wtdp@npaihb.org or (800) 862-5497.

Notes:

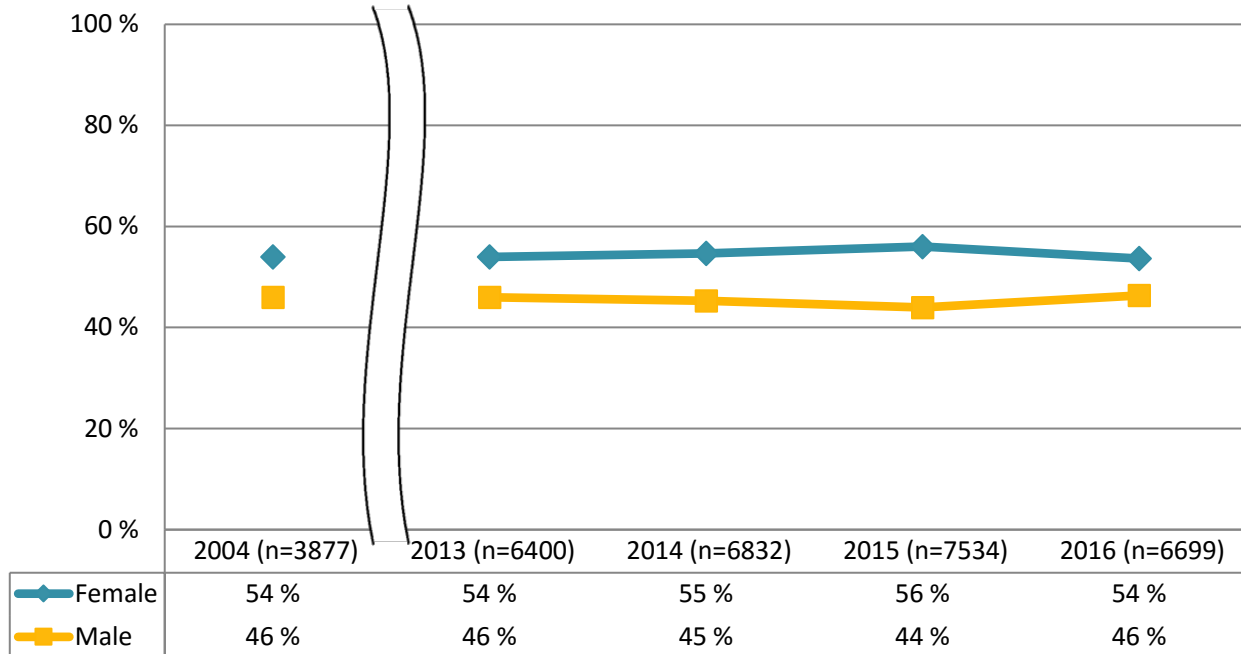
- Due to rounding, charts will occasionally not add up to 100%.
- Data are presented by the year in which the data were submitted. Most likely, the patient care reflected in the audit was delivered in the previous year. For example, the columns 2015 in these charts reflect care that was delivered in 2014.
- Blank spaces have been left for some indicators in years when information was not reported.

Patients in the Diabetes Register

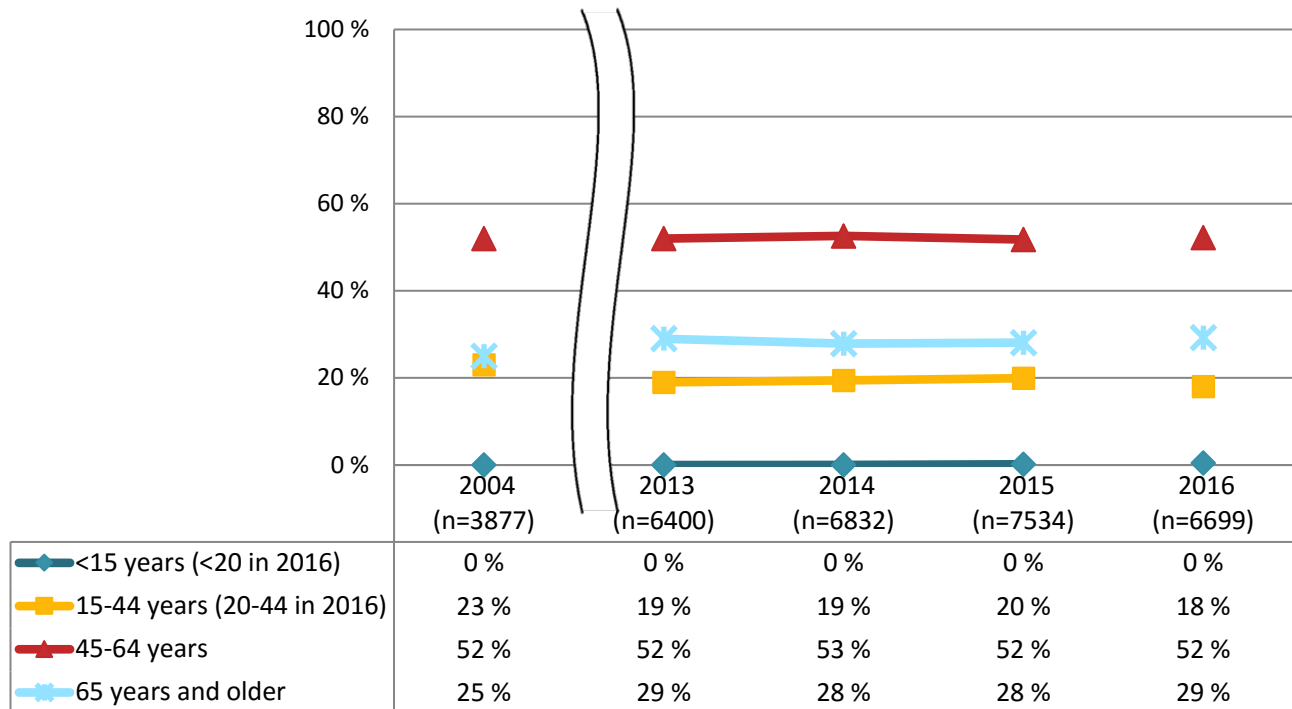


Diabetes Audit Results, Portland Area, 2004-2016

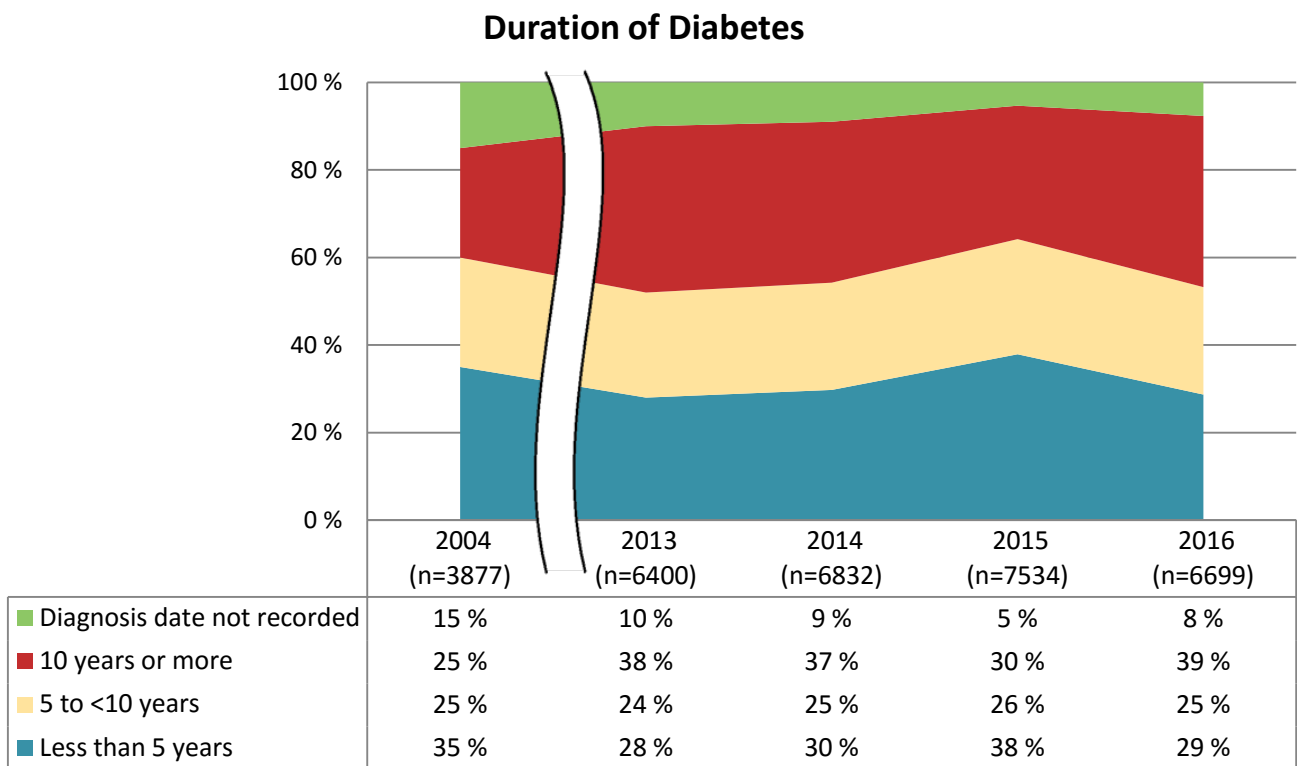
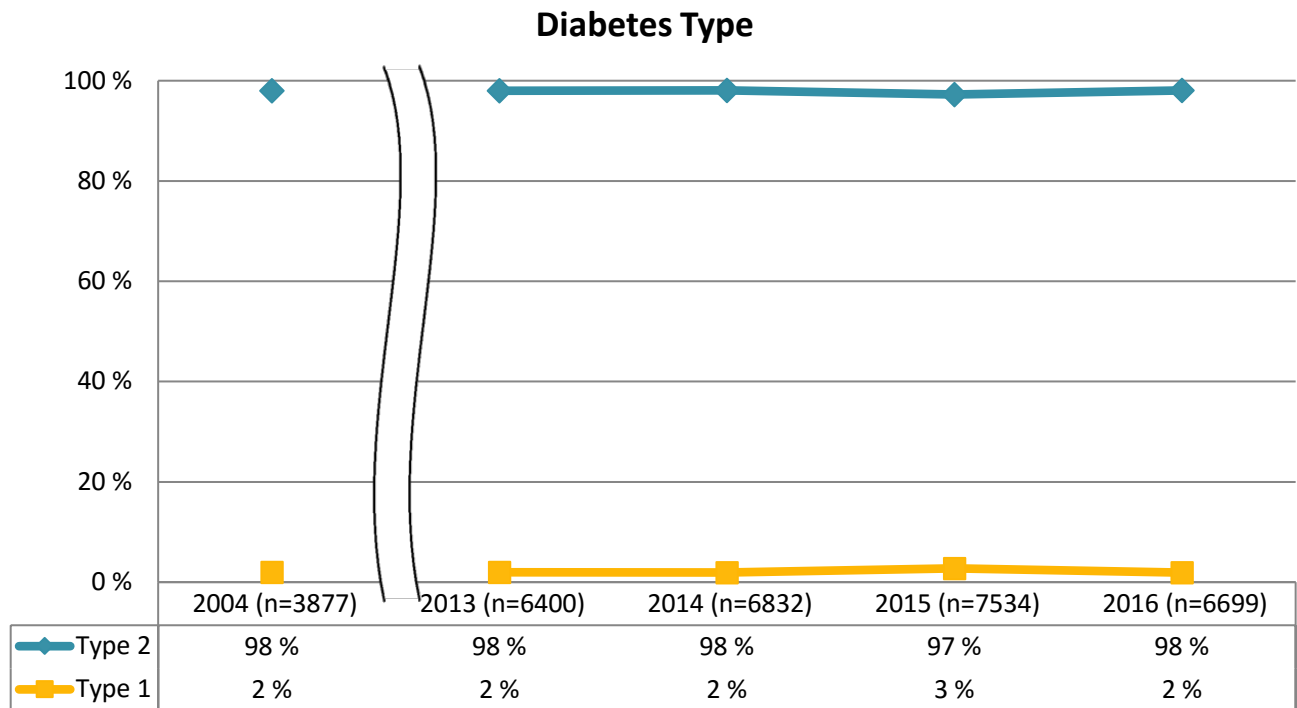
Gender of Patients with Diabetes



Age of Patients with Diabetes



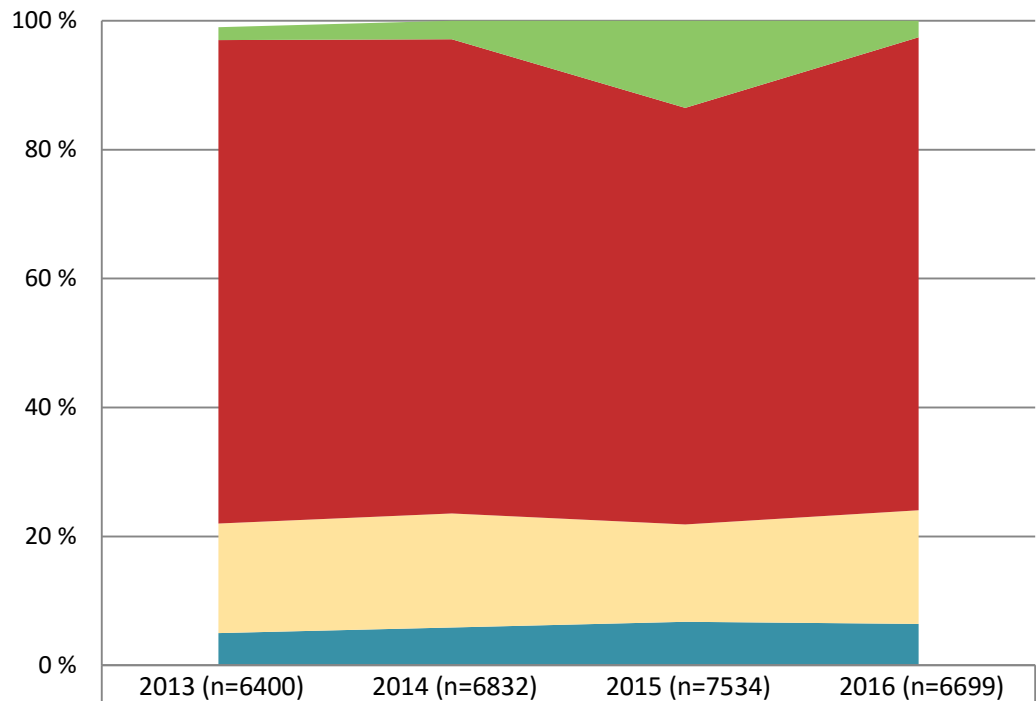
Diabetes Audit Results, Portland Area, 2004-2016



A blank indicates a category not reported on in a given year; FY = Fiscal Year, the year in which data were submitted.

Diabetes Audit Results, Portland Area, 2004-2016

Weight Control



■ Height or weight missing	2 %	3 %	14 %	3 %
■ Obese (BMI 30.0 or above)	75 %	74 %	65 %	73 %
■ Overweight (BMI 25.0-29.9)	17 %	18 %	15 %	18 %
■ Normal (BMI < 25.0)	5 %	6 %	7 %	6 %
Overweight or obese (BMI 25 or above)	92 %	91 %	80 %	91 %

Notes

Body Mass Index (BMI) is calculated using the last weight in the audit year recorded on a non-prenatal visit, along with the most recent height measured since the patient's 19th birthday. The formula is

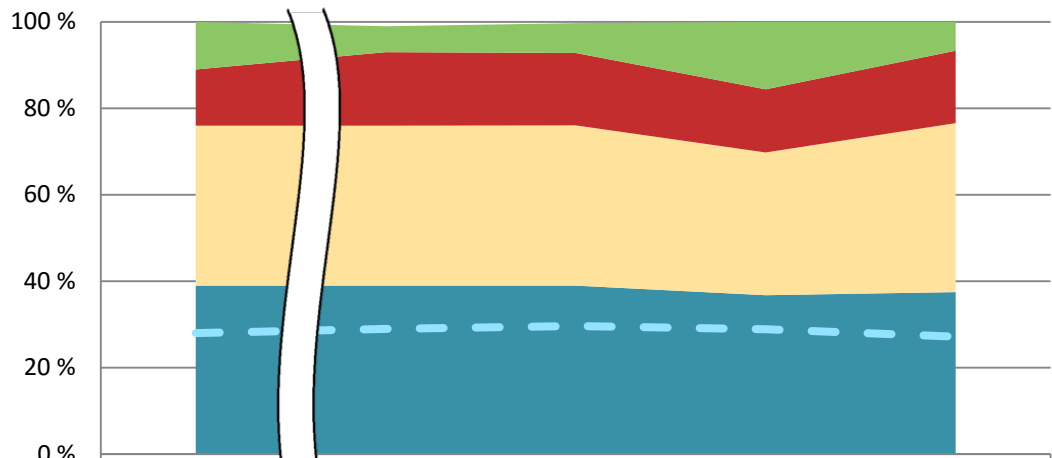
$$\text{BMI} = \text{weight (lbs)} \div \text{height (inches)} \div \text{height (inches)} \times 703$$

Before 2005, overweight and obesity were reported from the audit using cutoffs from the National Health and Nutrition Examination Survey (NHANES). Women were considered overweight with a BMI of 27.3 or higher and obese with BMI 32.3 or higher. Men were overweight at a BMI of 27.8 and obese at 31.1 or higher. These results are still calculated from audit data but are not presented here for the sake of clarity in the chart.

The bars in the graph reflect current cutoffs, which are the same for men and women. Overweight is defined as a BMI of 25 or higher and obesity is 30 or higher. Using these standards, more patients are considered overweight than with the older standards.

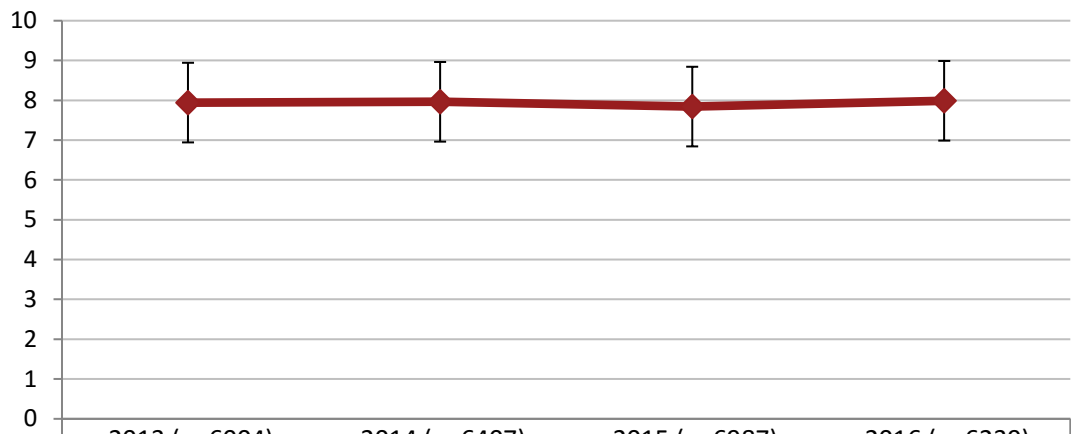
Diabetes Audit Results, Portland Area, 2004-2016

Hemoglobin A1c



	2004 (n=3877)	2013 (n=6400)	2014 (n=6832)	2015 (n=7534)	2016 (n=6699)
HbA1c missing	11 %	6 %	7 %	16 %	7 %
HbA1c 10.0 or higher	13 %	17 %	17 %	15 %	17 %
HbA1c 7.0-9.9	37 %	37 %	37 %	33 %	39 %
HbA1c <7	39 %	39 %	39 %	37 %	38 %
HbA1c ≤6.5	28 %	29 %	30 %	29 %	27 %

Average Hemoglobin A1C



	2013 (n=6004)	2014 (n=6407)	2015 (n=6987)	2016 (n=6239)
Mean HbA1c	7.94	7.96	7.84	7.99
Standard error	0.03	0.09	0.08	0.08
95% CI upper limit	7.997	8.137	7.995	8.150
95% CI lower limit	7.889	7.789	7.691	7.827

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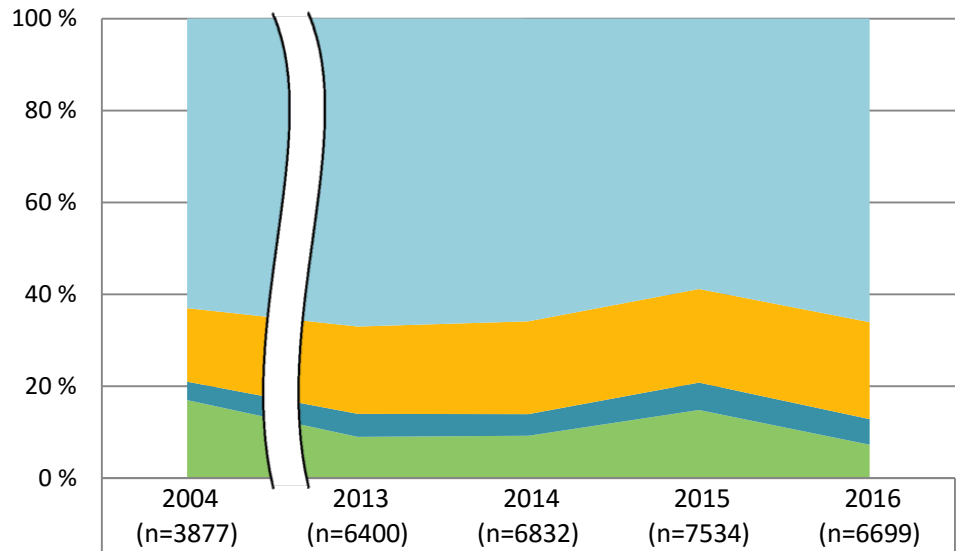
Diabetes Audit Results, Portland Area, 2004-2016

Before 2010: Based on the average of the last 3 blood pressure measurements taken within the audit year. If <3 measurements were taken, blood pressure control is undetermined.

After 2010: Based on the average of the last 2 or 3 blood pressure measurements taken within the audit year. If <2 measurements were taken, blood pressure control is undetermined.

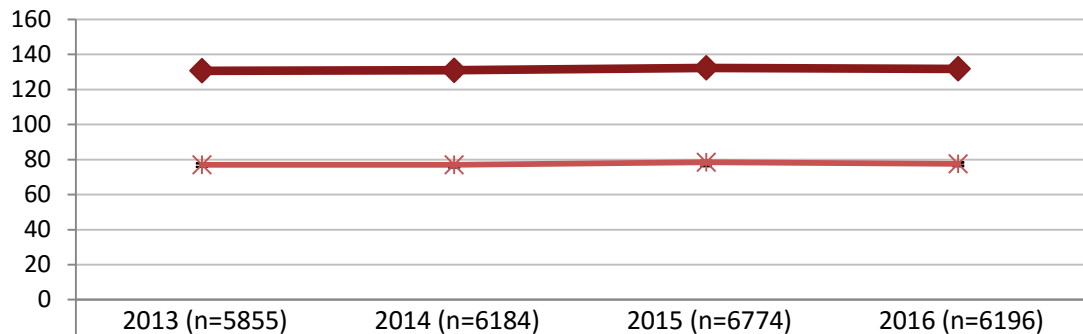
In 2016: Blood pressure is reported if the patient had any recorded for 2015.

Blood Pressure



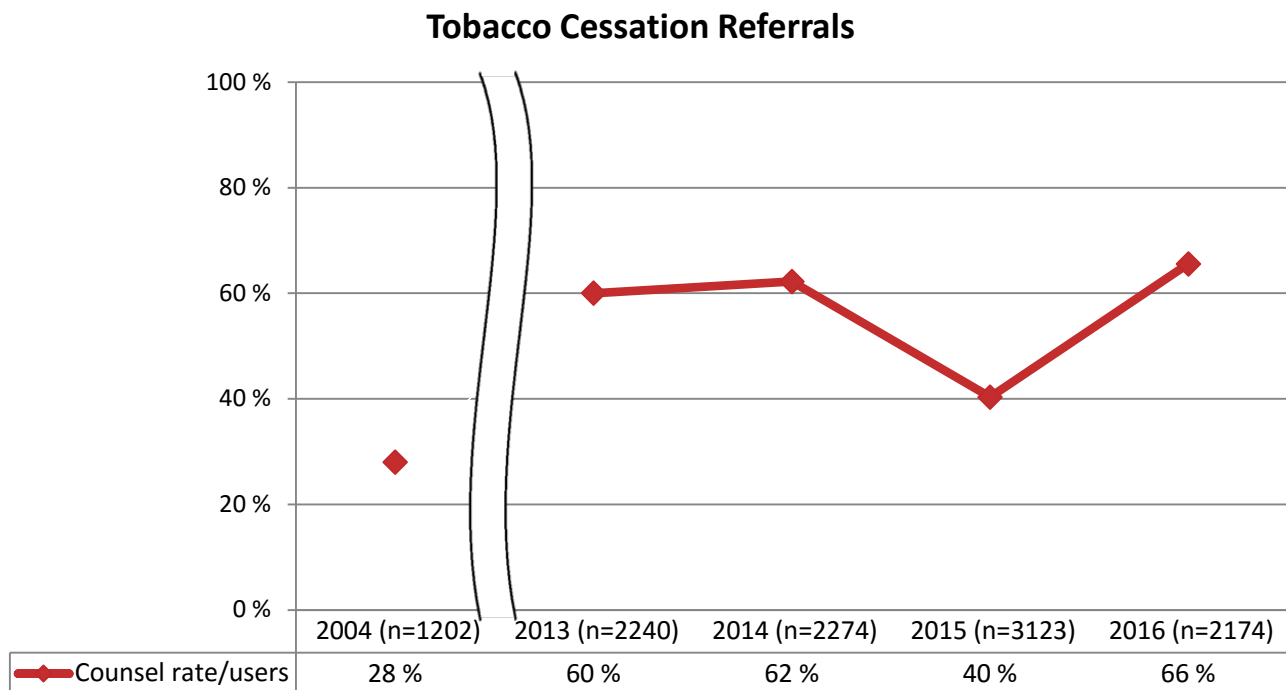
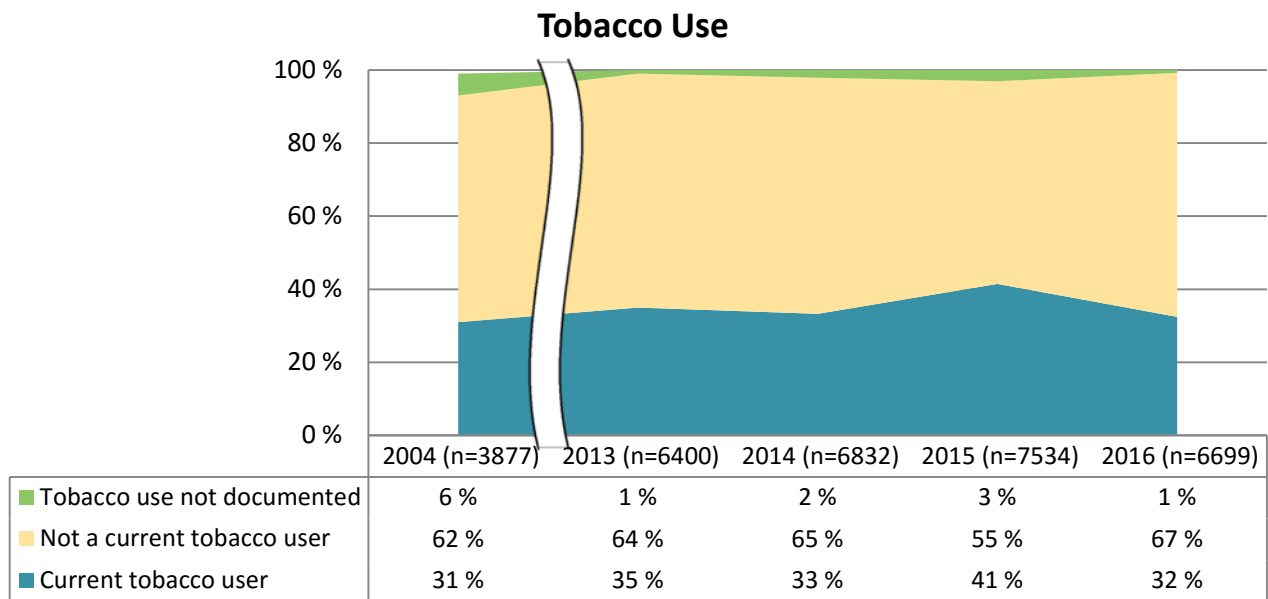
<ul style="list-style-type: none"> ■ Adequate BP <140/<90 ■ Inadequate (140/90 - <160/<95) ■ Markedly poor (160/95 or higher) ■ BP control undetermined 	63 %	68 %	66 %	59 %	66 %
	16 %	19 %	20 %	20 %	21 %
	4 %	5 %	5 %	6 %	6 %
	17 %	9 %	9 %	15 %	7 %

Average Blood Pressure



<ul style="list-style-type: none"> ◆ Mean systolic BP Standard error 95% CI upper limit 95% CI lower limit ✱ Mean diastolic BP Standard error 95% CI upper limit 95% CI lower limit 	130.65	130.98	132.36	131.80
	0.18	0.55	0.73	0.42
	131.004	132.056	133.792	132.618
	130.294	129.908	130.930	130.985
	76.99	77.06	78.44	77.64
	0.12	0.36	0.65	0.31
	77.230	77.774	79.707	78.255
	76.755	76.350	77.178	77.025

Diabetes Audit Results, Portland Area, 2004-2016

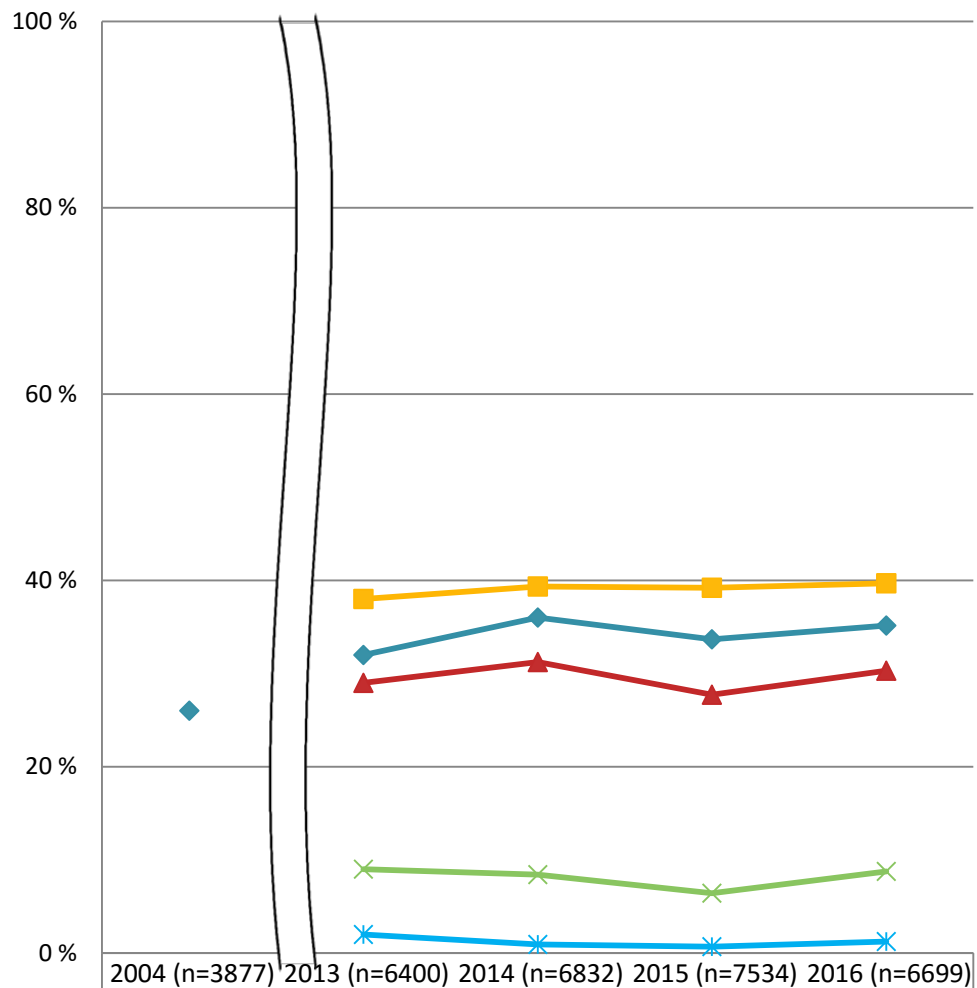


Note: The 'n' in this graph refers to the total number of tobacco users included in the audit.

A blank indicates a category not reported on in a given year; FY = Fiscal Year, the year in which data were submitted.

Diabetes Audit Results, Portland Area, 2004-2016

Diabetes Medications



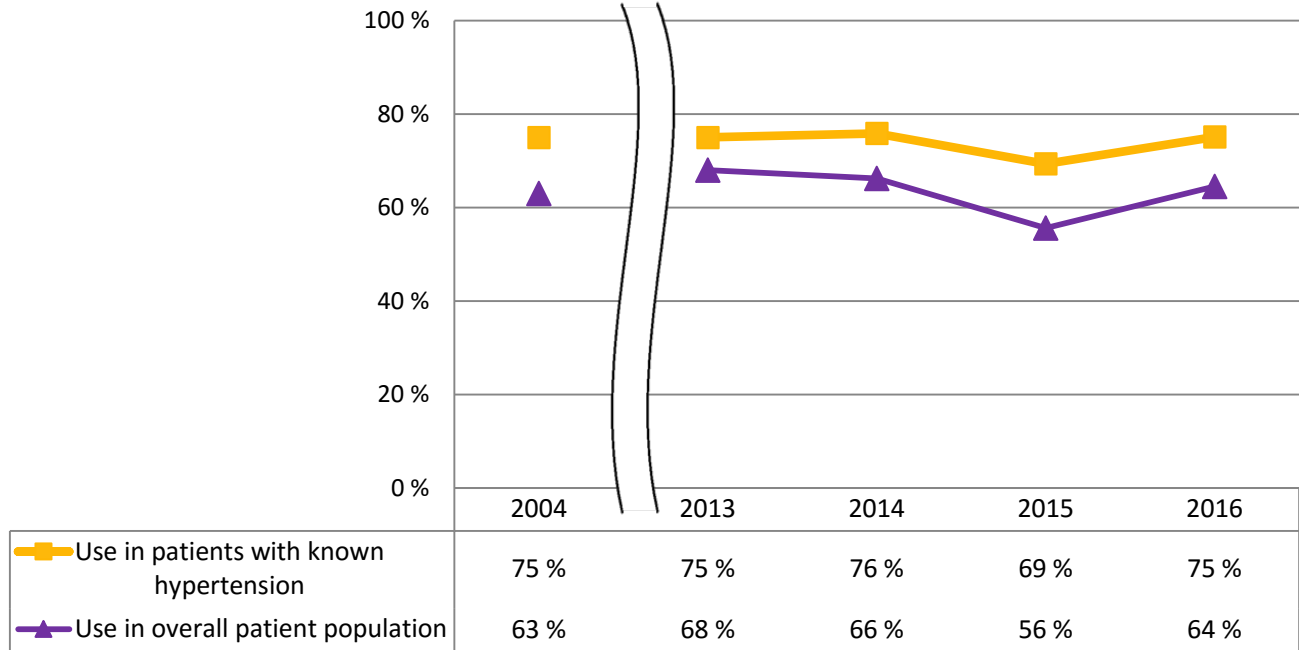
	2004 (n=3877)	2013 (n=6400)	2014 (n=6832)	2015 (n=7534)	2016 (n=6699)
Insulin alone or in combination	26 %	32 %	36 %	34 %	35 %
One Med		38 %	39 %	39 %	40 %
Two Meds		29 %	31 %	28 %	30 %
Three Meds		9 %	8 %	6 %	9 %
Four + Meds		2 %	1 %	1 %	1 %

Notes

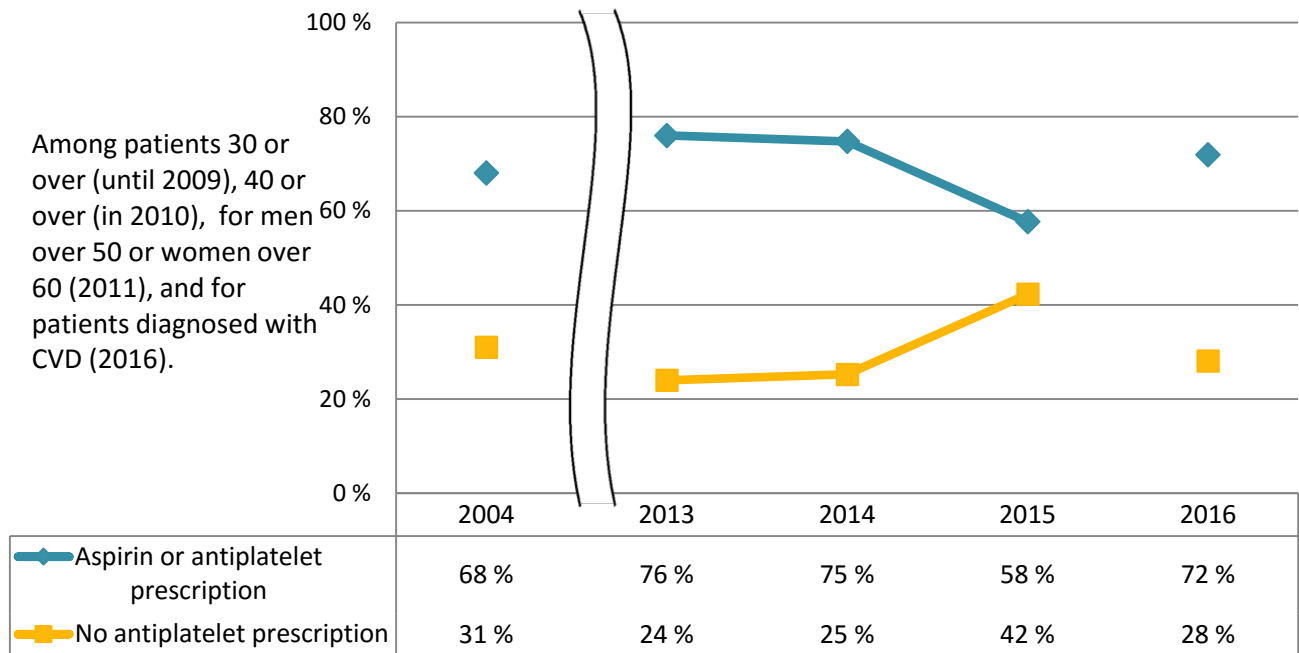
If no records are found in the patient's chart of medications prescribed or dispensed in the last six months of the audit year, the patient is classified as being treated with "diet and exercise alone." The percentages for patients not on any medications may be inflated if patients did not refill their prescriptions at the clinic in the last six months of the audit year. You can enter medication reviews as historical RXs so that the audit report will reflect those prescriptions.

Diabetes Audit Results, Portland Area, 2004-2016

ACE Inhibitor or ARB Prescriptions



Antiplatelet Therapy

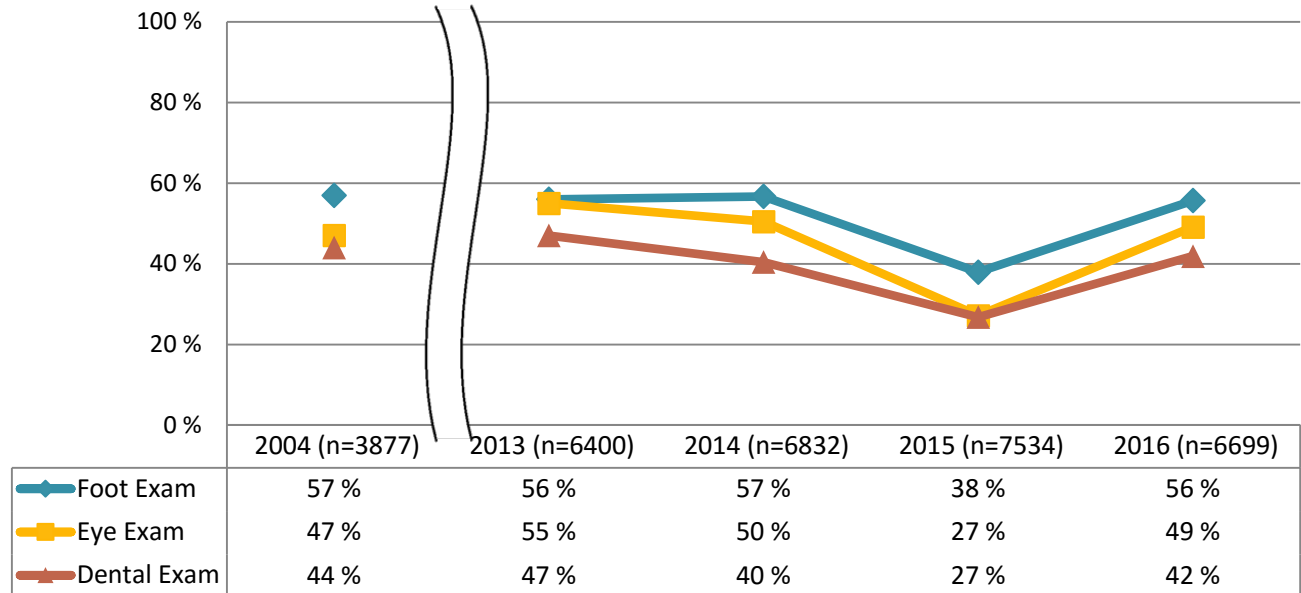


Denominators (n=) are not displayed on this page. These charts represent various subsets of patients, and not the entire population included in the audit.

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Diabetes Audit Results, Portland Area, 2004-2016

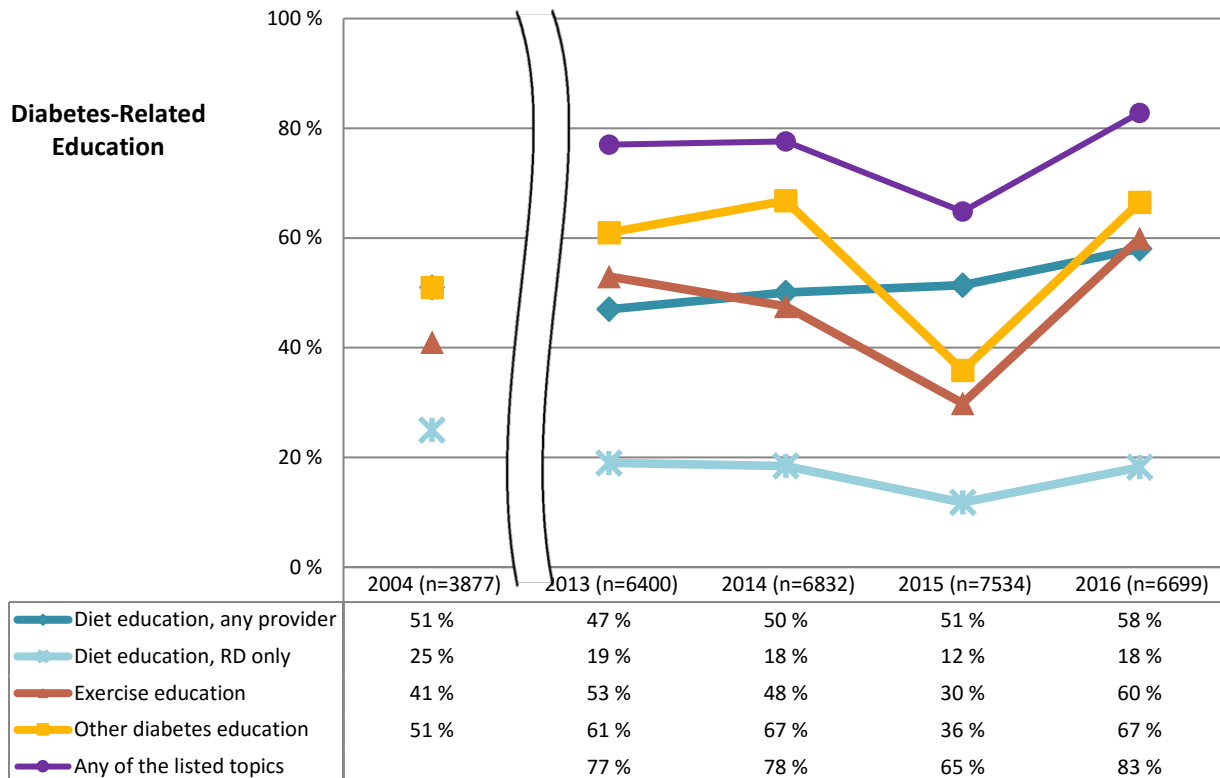
Annual Examinations



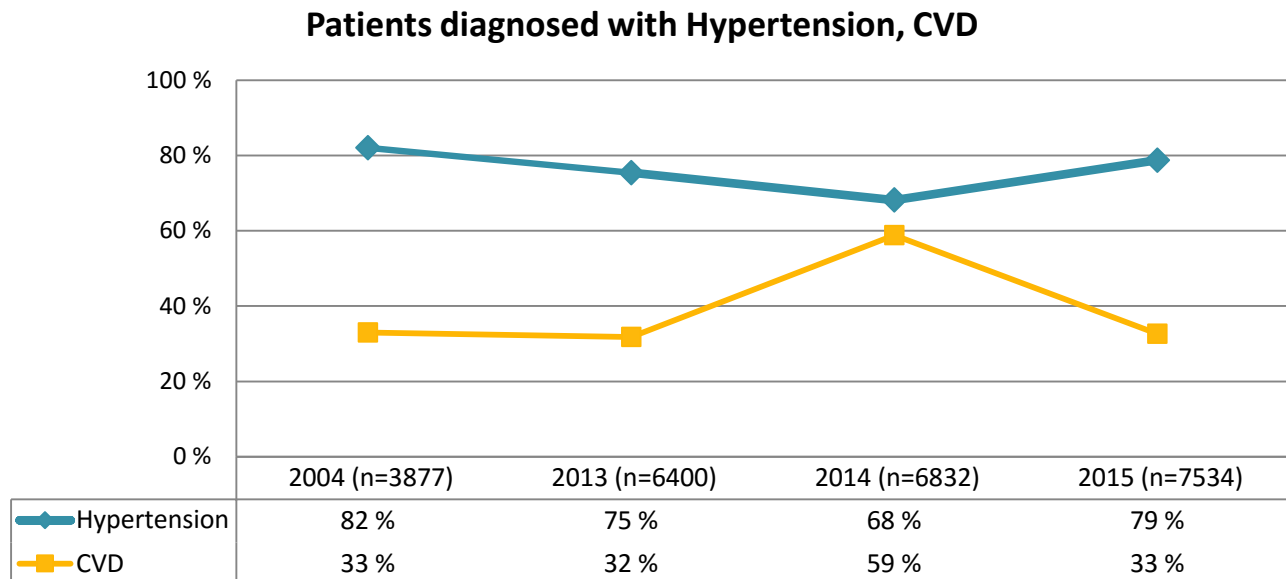
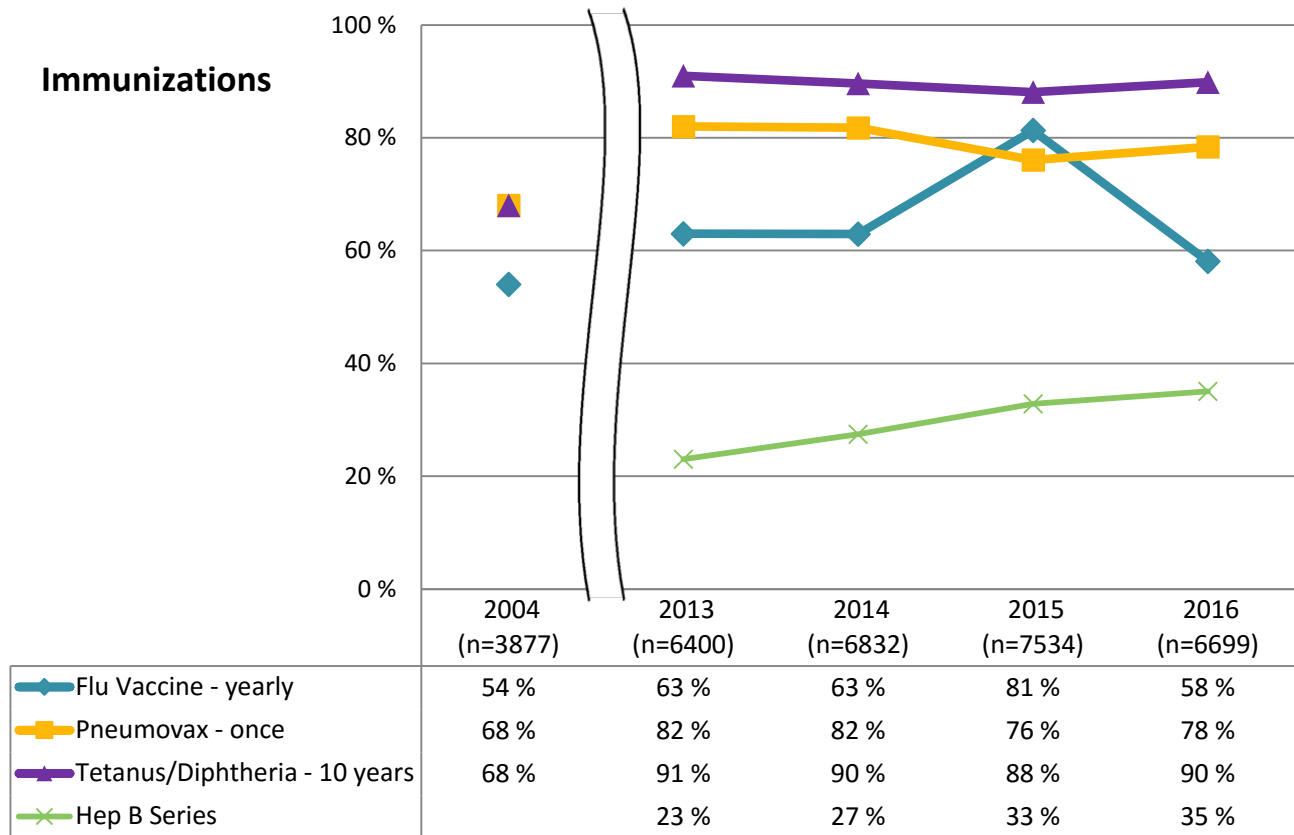
Eye Exam: A dilated fundoscopic exam conducted by a primary care provider, optometrist or ophthalmologist, or fundoscopic photographs reviewed by an ophthalmologist.

Foot Exam: An examination of the feet that includes neurologic and vascular evaluation as well as visual inspection for deformities or lesions.

Dental Exam: The dental examination is one that includes evaluation of the teeth (if present), gingiva and mucosal surfaces.



Diabetes Audit Results, Portland Area, 2004-2016



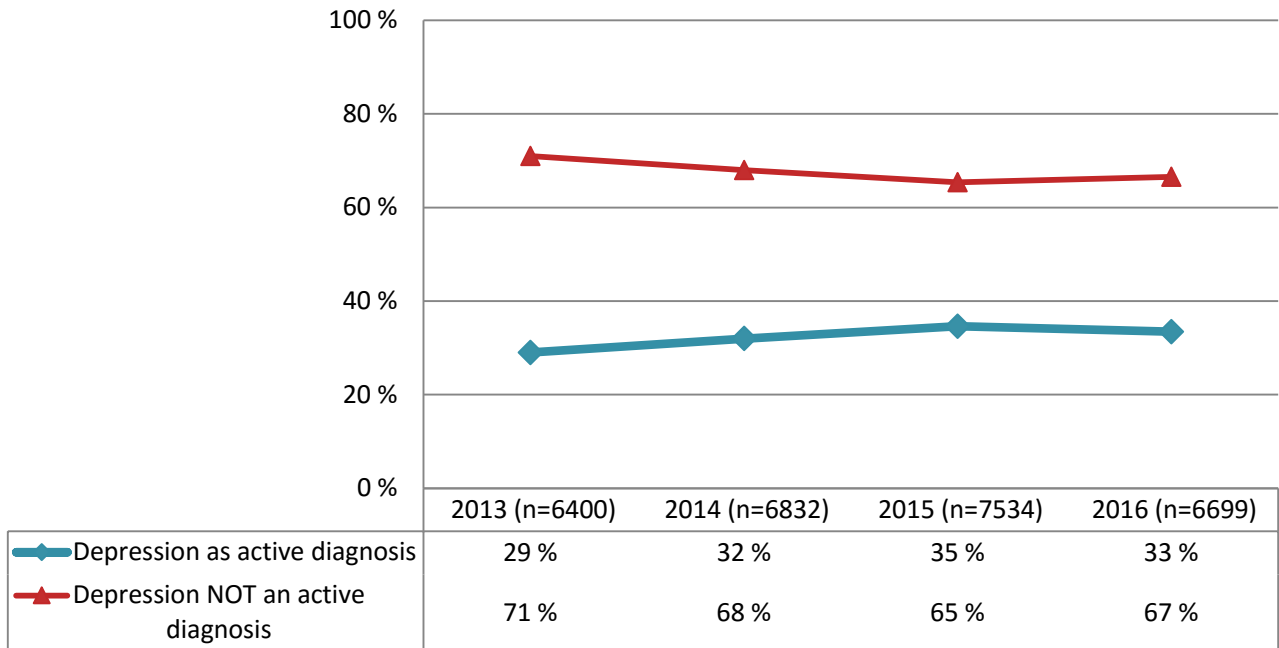
Patient has "known hypertension" if hypertension is on the problem list or the patient has had at least 3 visits with a diagnosis of hypertension.

Patient has CVD if CVD is found on the problems list or patient had at least two diagnoses ever of CVD.

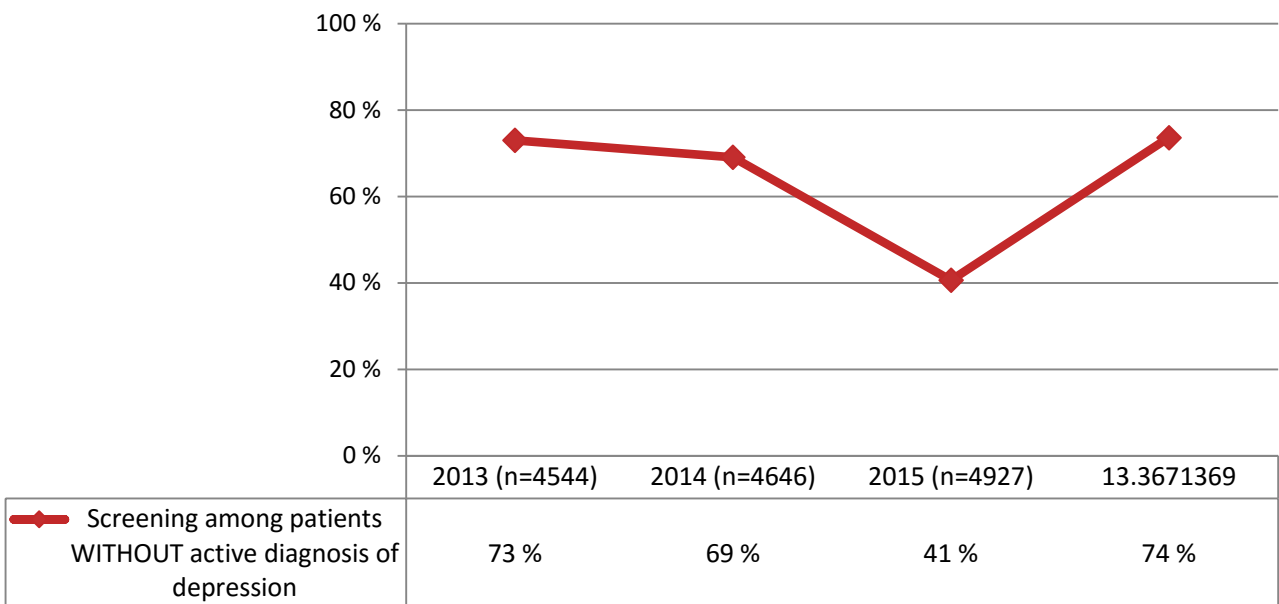
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Diabetes Audit Results, Portland Area, 2004-2016

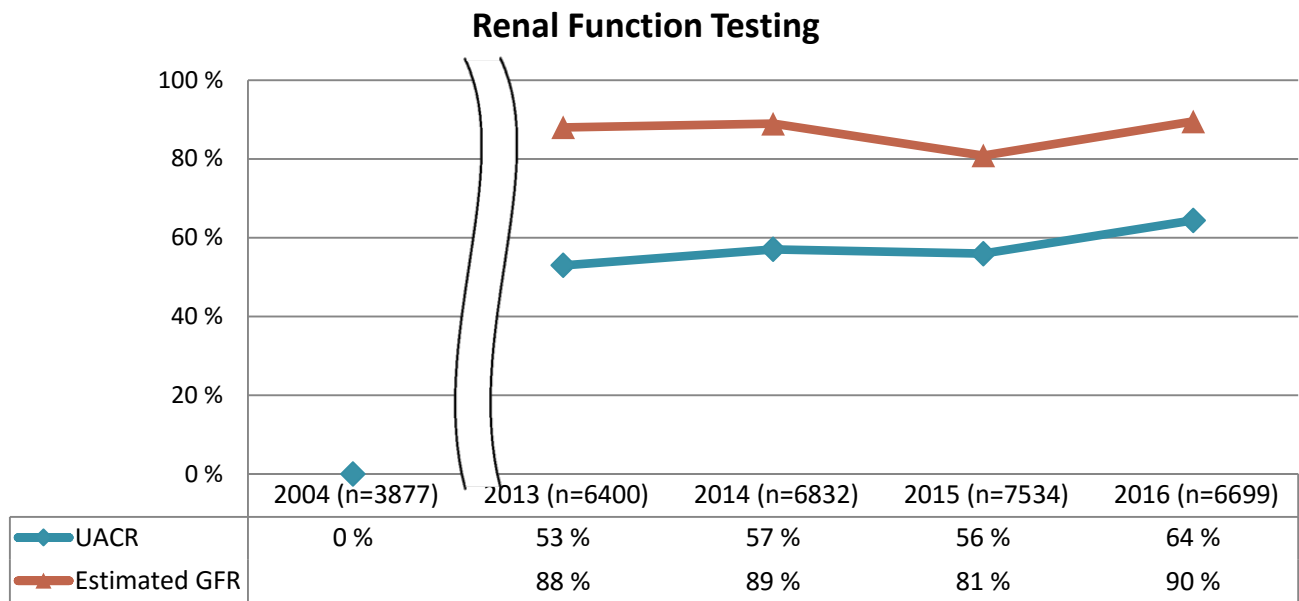
Diagnosed Depression



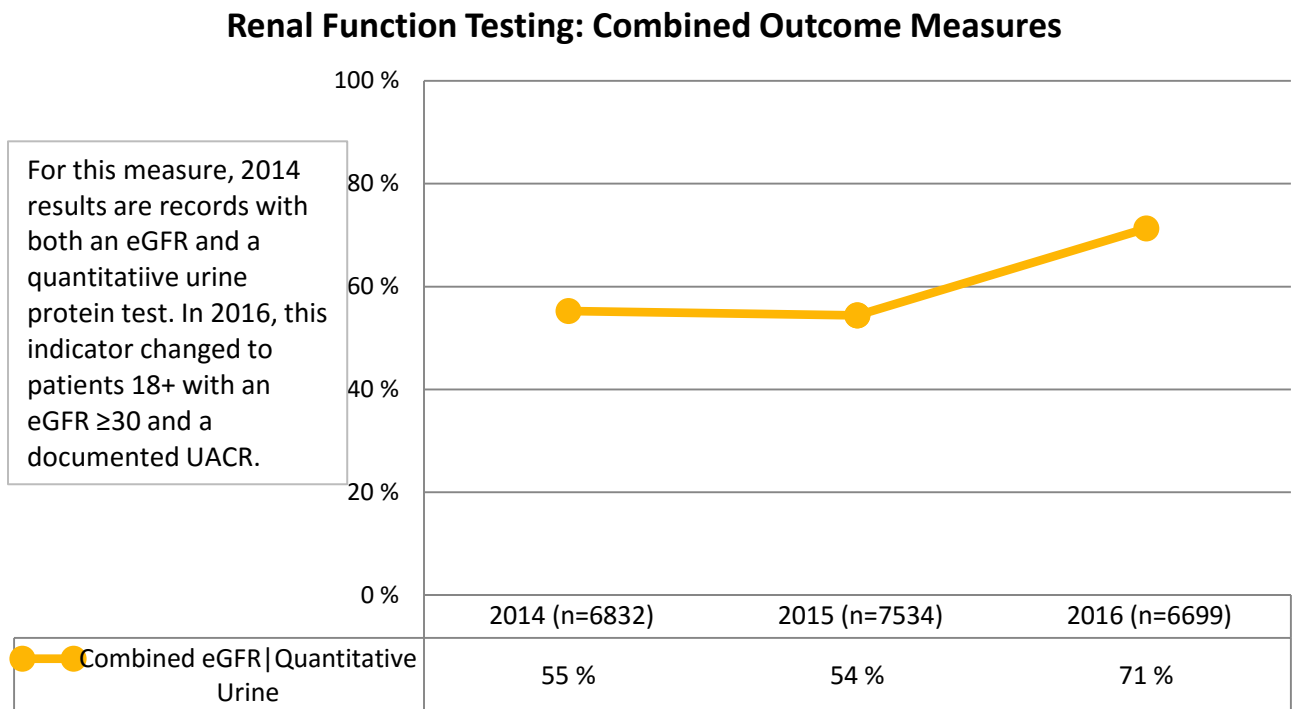
Depression Screening among Patients without Active Depression Diagnoses



Diabetes Audit Results, Portland Area, 2004-2016



Urinalysis results before 2014 included what type of urine protein testing was conducted. In 2014, tracking the types of urinalysis was discontinued and replaced by tracking whether the patient has had a urine albumin/creatinine ratio.



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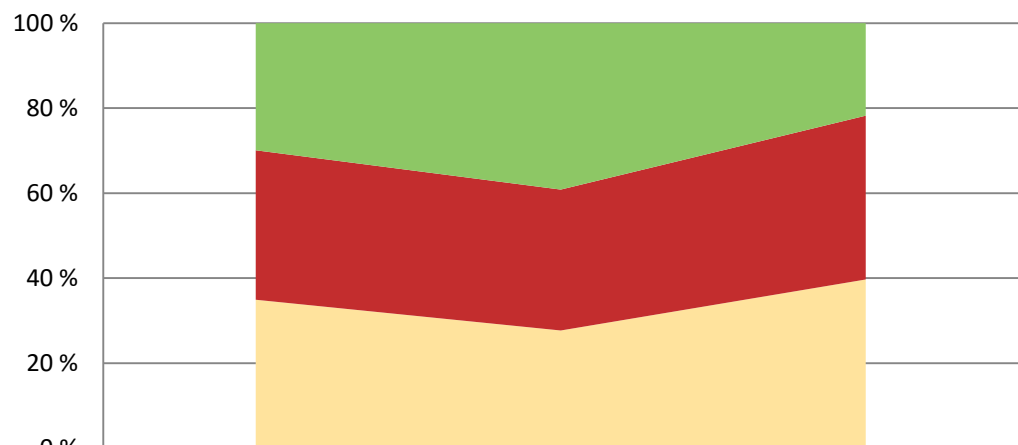
Diabetes Audit Results, Portland Area, 2004-2016

HDL Cholesterol (Females)



	2014 (n=3736)	2015 (n=4221)	2016 (n=3594)
■ HDL no result or not tested	33 %	38 %	24 %
■ HDL >50 (females) For 2016 HDL ≥50 (females)	24 %	24 %	28 %
■ HDL ≤50 (females) For 2016: HDL <50 (females)	43 %	38 %	48 %

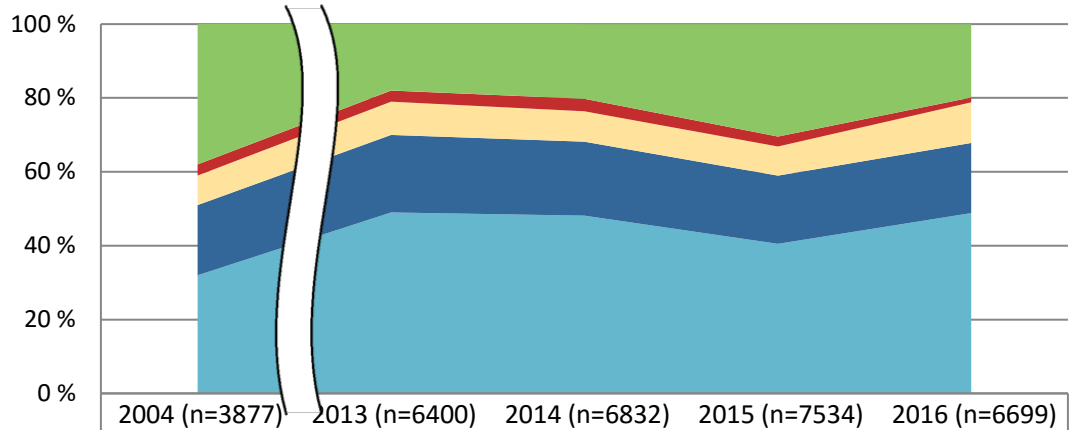
HDL Cholesterol (Males)



	2014 (n=3096)	2015 (n=3313)	2016 (n=3105)
■ HDL no result or not tested	30 %	39 %	22 %
■ HDL >40 (males) For 2016 HDL ≥40 (males)	35 %	33 %	39 %
■ HDL ≤40 (males) For 2016 HDL <40 (males)	35 %	28 %	40 %

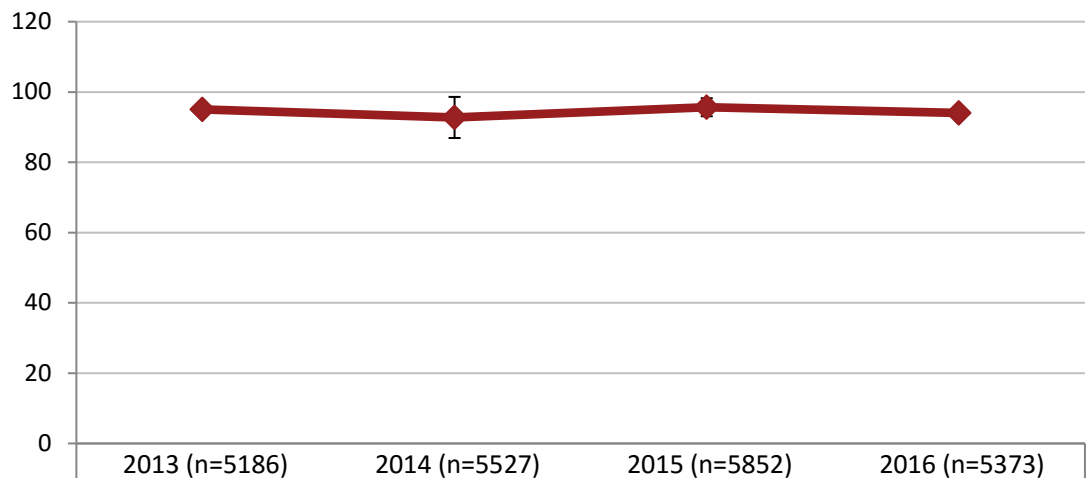
Diabetes Audit Results, Portland Area, 2004-2016

Low-Density Lipoprotein (LDL) Cholesterol



■	Not tested	38 %	19 %	20 %	30 %	20 %
■	LDL >160	3 %	3 %	3 %	3 %	1 %
■	LDL 130-160 mg/dl	8 %	9 %	8 %	8 %	11 %
■	LDL 100-129 mg/dl	19 %	21 %	20 %	18 %	19 %
■	Desirable (<100 mg/dl)	32 %	49 %	48 %	40 %	49 %

Average LDL Cholesterol



◆	Mean LDL	95.04	92.75	95.66	94.06
	Standard error	0.47	2.98	1.31	2.38
	95% CI upper limit	95.955	98.597	98.220	98.722
	95% CI lower limit	94.126	86.902	93.097	89.394

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Just kidding...we added these words.

2016 Diabetes Audit: Dates of Service Calendar Year 2015

This information is for the following groups:

Portland Area (n=6699 patients)

All IHS Areas (n=122051 patients)

6699 sampled from 7109 active patients with diabetes (94%)

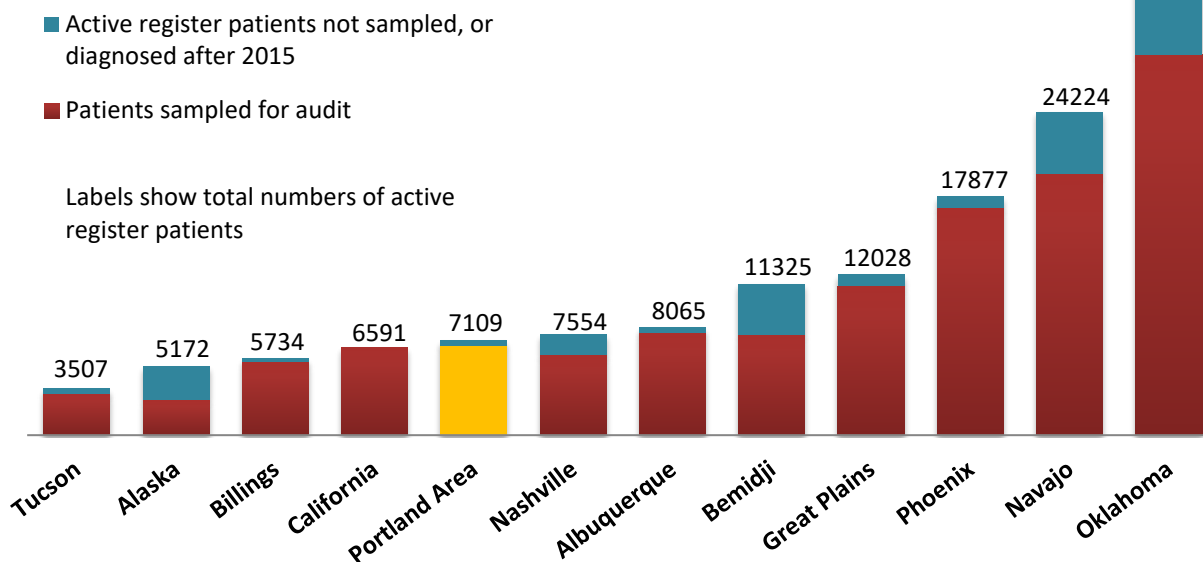
122051 sampled from 149218 active patients with diabetes (82%)

The following report contains information from your clinic's Annual IHS Diabetes Audit submission. It also includes summary data from all reporting tribal, IHS and urban facilities in the Portland Area. The audit information is displayed side by side so that you can see how your site compares to the overall Portland Area. If you have any questions about the report, please contact the Western Tribal Diabetes Project at (800) 862-5497.

Who is this report about?

Patients identified by local Diabetes Program staff as having type 1 or type 2 diabetes and part of the active patient load, with at least one primary care visit in the calendar year. Only American Indian and Alaska Native patients are included in the audit.

Active Patients with Diabetes in the 2016 IHS Diabetes Audit Portland Area and All IHS Areas



*The Audit performed in 2015 covers services delivered in 2014

2016 Diabetes Audit: Dates of Service Calendar Year 2015

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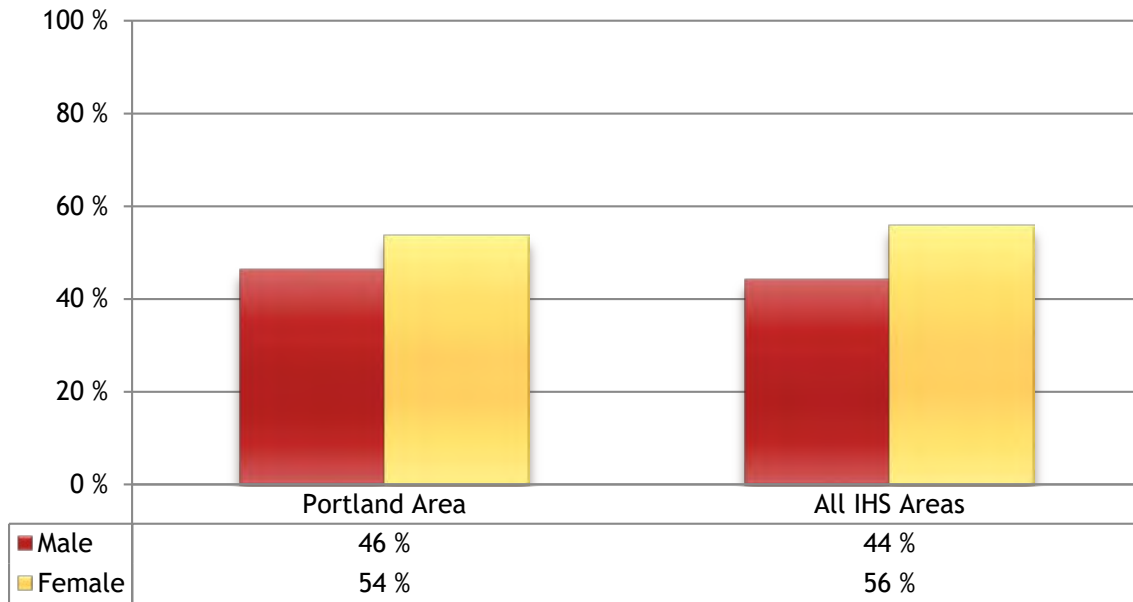
Portland Area (n=6699 patients)

All IHS Areas (n=122051 patients)

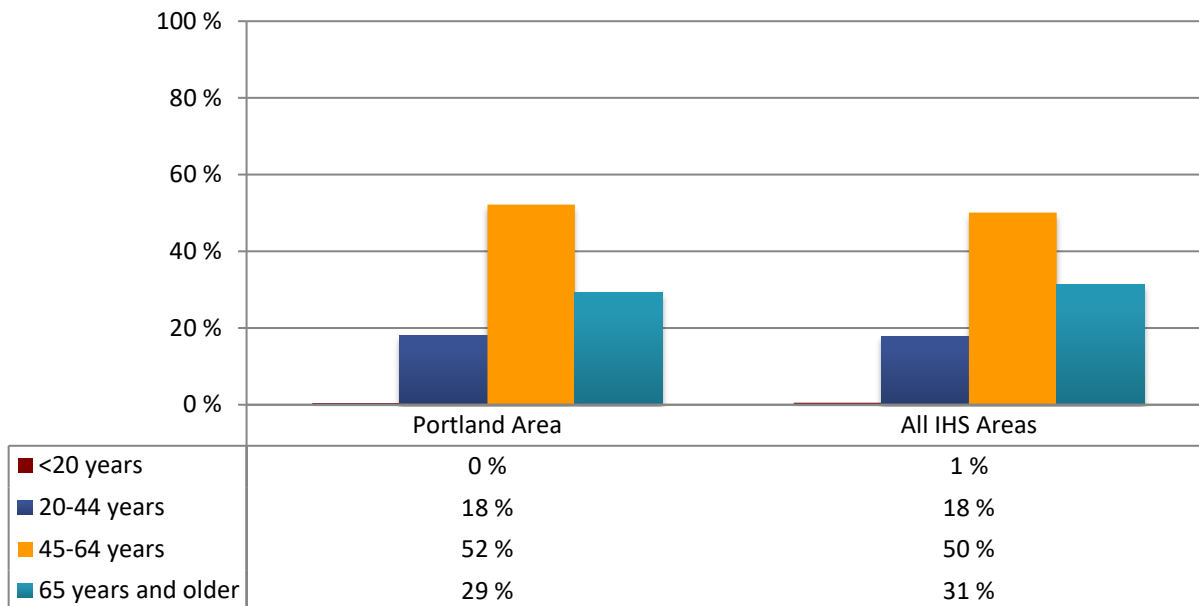
6699 sampled from 7109 active patients with diabetes (94%)

122051 sampled from 149218 active patients with diabetes (82%)

Gender of Patients with Diabetes



Age Distribution of Patients with Diabetes



2016 Diabetes Audit: Dates of Service Calendar Year 2015

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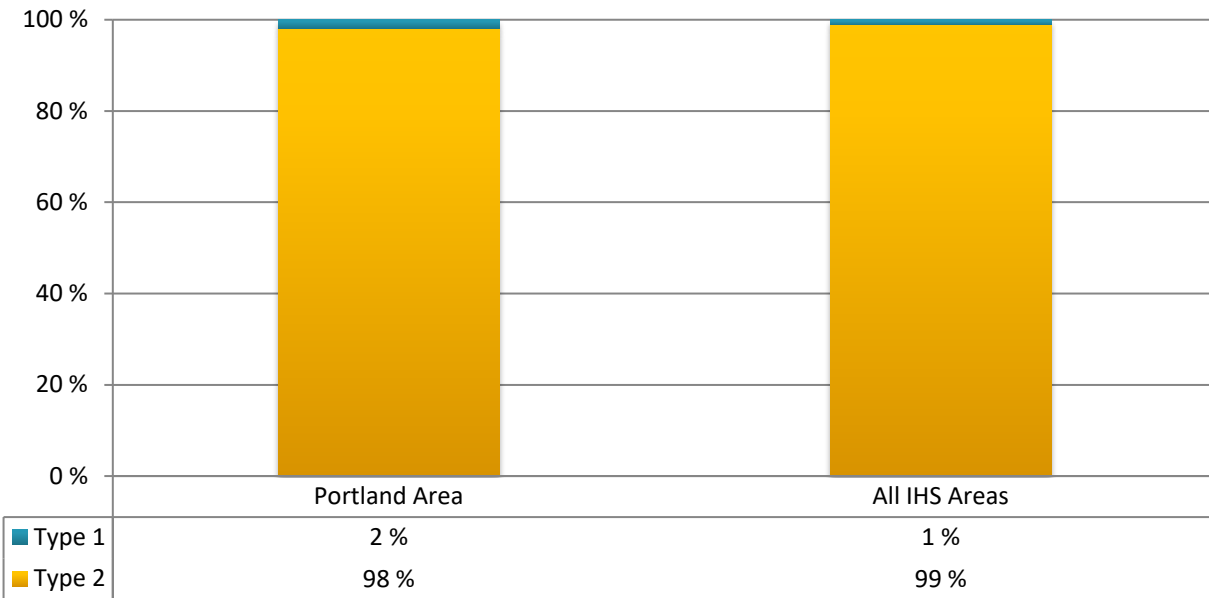
Portland Area (n=6699 patients)

All IHS Areas (n=122051 patients)

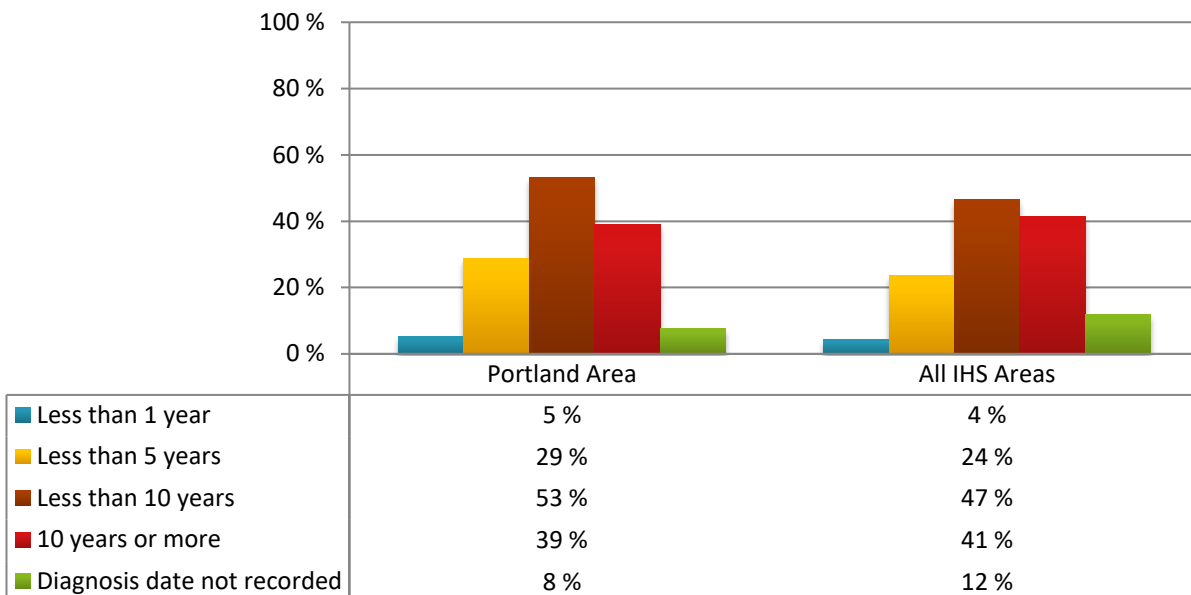
6699 sampled from 7109 active patients with diabetes (94%)

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Type of Diabetes Diagnosed



Duration of Diabetes



2016 Diabetes Audit: Dates of Service Calendar Year 2015

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Portland Area (n=6699 patients)

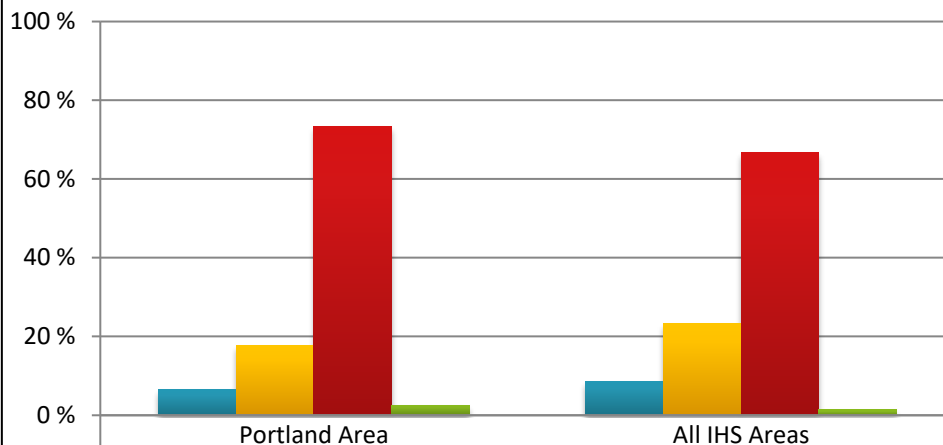
All IHS Areas (n=122051 patients)

6699 sampled from 7109 active patients with diabetes (94%)

122051 sampled from 149218 active patients with diabetes (82%)

Refer patients who are overweight or obese to structured community-based or clinic-based weight loss programs that emphasize goal setting, coaching, and motivational interviewing; education and skills development, physical activity, self-monitoring, problem solving, behavioral change, stress and stimulus control, the importance of social support, and the use of community resources.

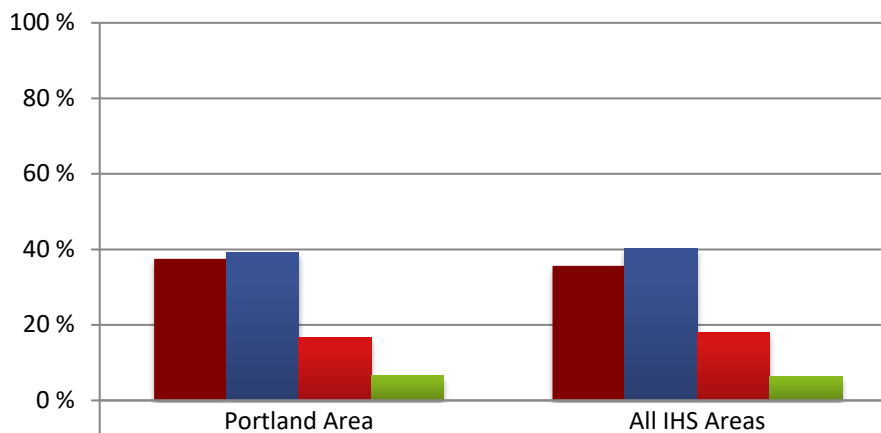
Weight (Body Mass Index)



■ Normal (BMI < 25.0)	6 %	9 %
■ Overweight (BMI 25.0-29.9)	18 %	23 %
■ Obese (BMI 30.0 or above)	73 %	67 %
■ Height or weight missing	3 %	1 %

Hemoglobin A1C

A1C is a “weighted” measure of glycemic control over the preceding 120 days. The more recent days contribute a greater percentage to the measure than the distant days. Specifically, the mean level of blood glucose in the 30 days immediately preceding the test contributes approximately 50% of the final result.



■ HbA1c < 7.0	38 %	36 %
■ HbA1c 7.0 - 9.9	39 %	40 %
■ HbA1c ≥ 10.0	17 %	18 %
■ HbA1c no test or result	7 %	6 %

2016 Diabetes Audit: Dates of Service Calendar Year 2015

This information is for the following groups:

Portland Area (n=6699 patients)

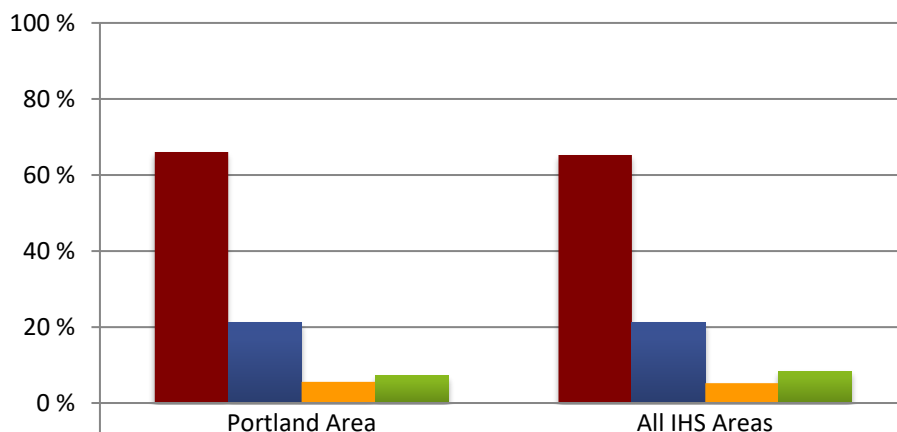
All IHS Areas (n=122051 patients)

6699 sampled from 7109 active patients with diabetes (94%)

122051 sampled from 149218 active patients with diabetes (82%)

Blood Pressure

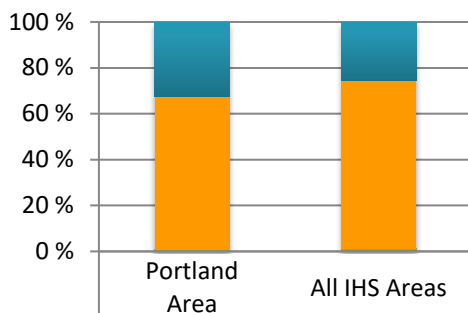
Blood pressure control reduces the risk for diabetes complications, including cardiovascular disease and chronic kidney disease, and is essential in diabetes care.



■ Blood Pressure (<140/<90)	66 %	65 %
■ Blood Pressure (140/90 - <160/<95)	21 %	21 %
■ Blood Pressure (160/95 or higher)	6 %	5 %
■ BP control undetermined	7 %	8 %

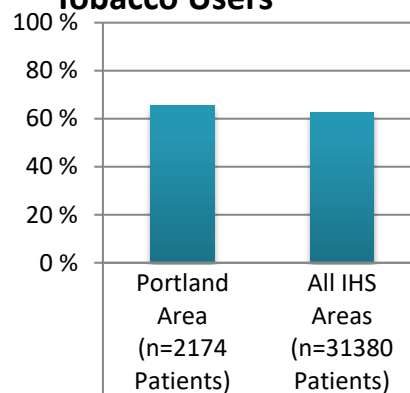
Tobacco use increases the already elevated risk of cardiovascular and microvascular complications in people with diabetes. Research shows that a brief tobacco dependence treatment intervention delivered by one provider can increase quit rates by as much as 80%.

Tobacco Use



■ Current tobacco user	32 %	26 %
■ Not a current tobacco user	67 %	73 %
■ Tobacco use not documented	1 %	1 %

Tobacco Cessation Counseling for Current Tobacco Users



■ Counseled - Yes	66 %	63 %
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2016 Diabetes Audit: Dates of Service Calendar Year 2015

This information is for the following groups:

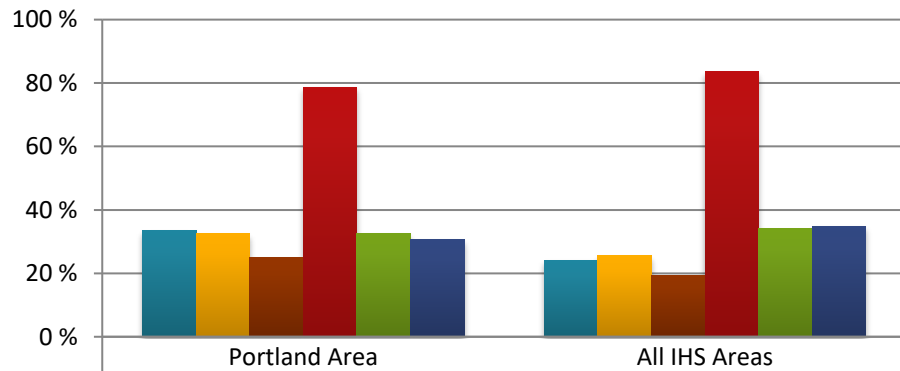
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All IHS Areas (n=122051 patients)

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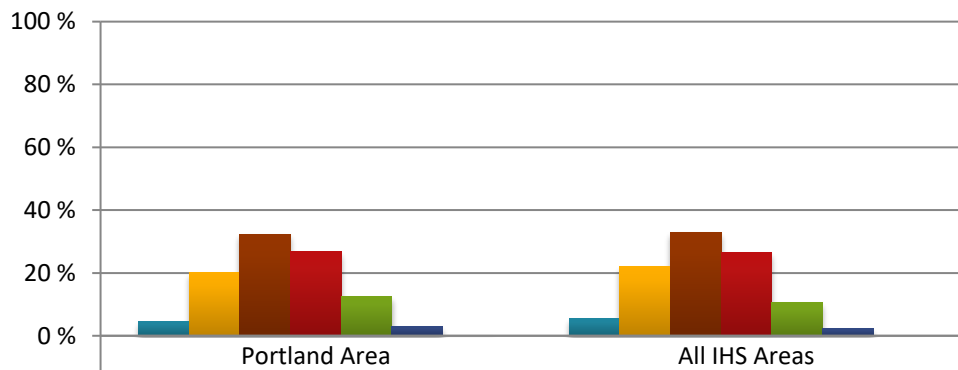
122051 sampled from 149218 active patients with diabetes (82%)

Comorbidities



Active Depression	33 %	24 %
Current tobacco user	32 %	26 %
Severly Obese [BMI 40+]	25 %	20 %
DX'd hypertension	79 %	83 %
DX'd CVD	33 %	34 %
Chronic Kidney Disease in Adults (18+)	31 %	35 %

Number of Comorbid Conditions



Comorbidity: Diabetes only	5 %	5 %
One comorbidity	20 %	22 %
Two comorbidities	32 %	33 %
Three comorbidities	27 %	27 %
Four comorbidities	13 %	10 %
Five comorbidities	3 %	2 %
Six comorbidities	0 %	0 %

2016 Diabetes Audit: Dates of Service Calendar Year 2015

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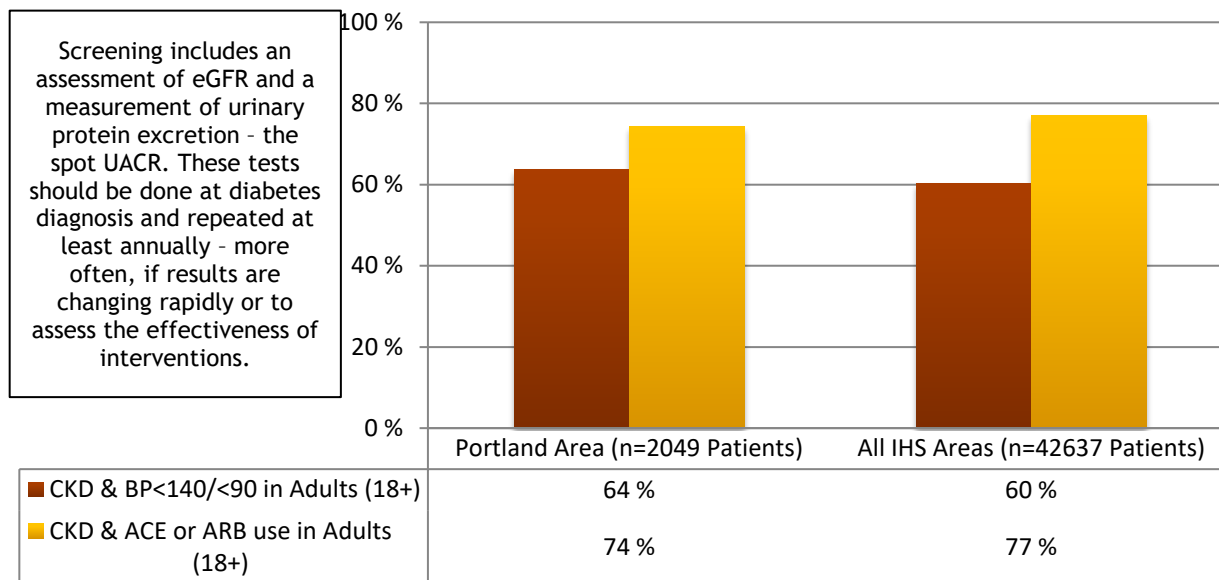
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All IHS Areas (n=122051 patients)

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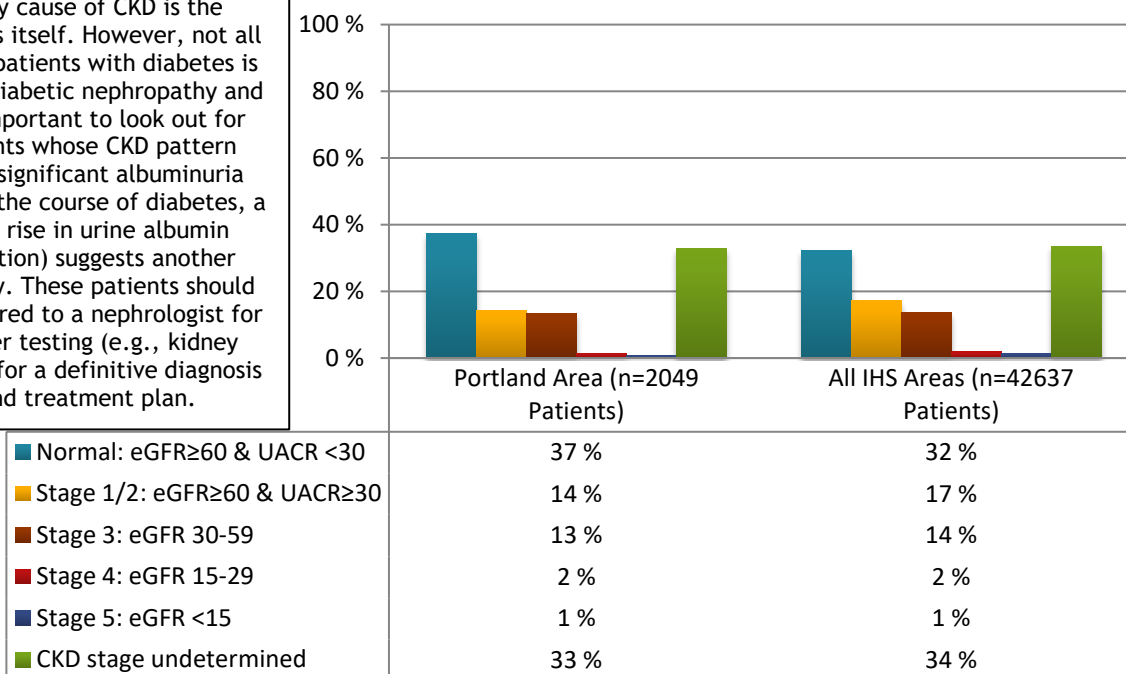
122051 sampled from 149218 active patients with diabetes (82%)

Chronic Kidney Disease in Adults (18+)



In adults with diabetes, the most likely cause of CKD is the diabetes itself. However, not all CKD in patients with diabetes is due to diabetic nephropathy and it is important to look out for patients whose CKD pattern (e.g., significant albuminuria early in the course of diabetes, a rapid rise in urine albumin excretion) suggests another etiology. These patients should be referred to a nephrologist for further testing (e.g., kidney biopsy) for a definitive diagnosis and treatment plan.

Stages in Patients diagnosed with CKD



2016 Diabetes Audit: Dates of Service Calendar Year 2015

This information is for the following groups:

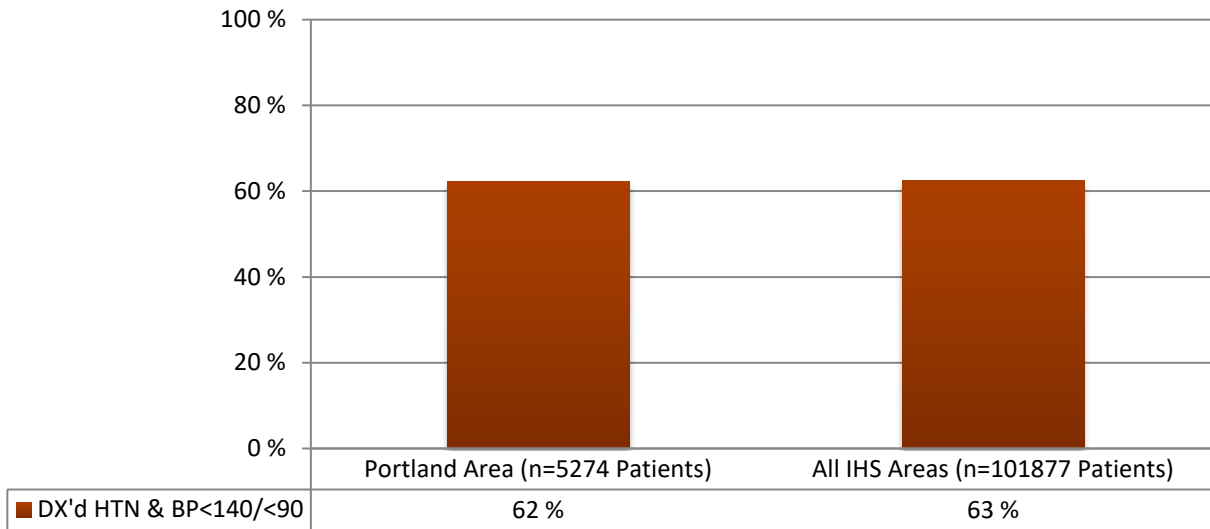
Portland Area (n=6699 patients)

All IHS Areas (n=122051 patients)

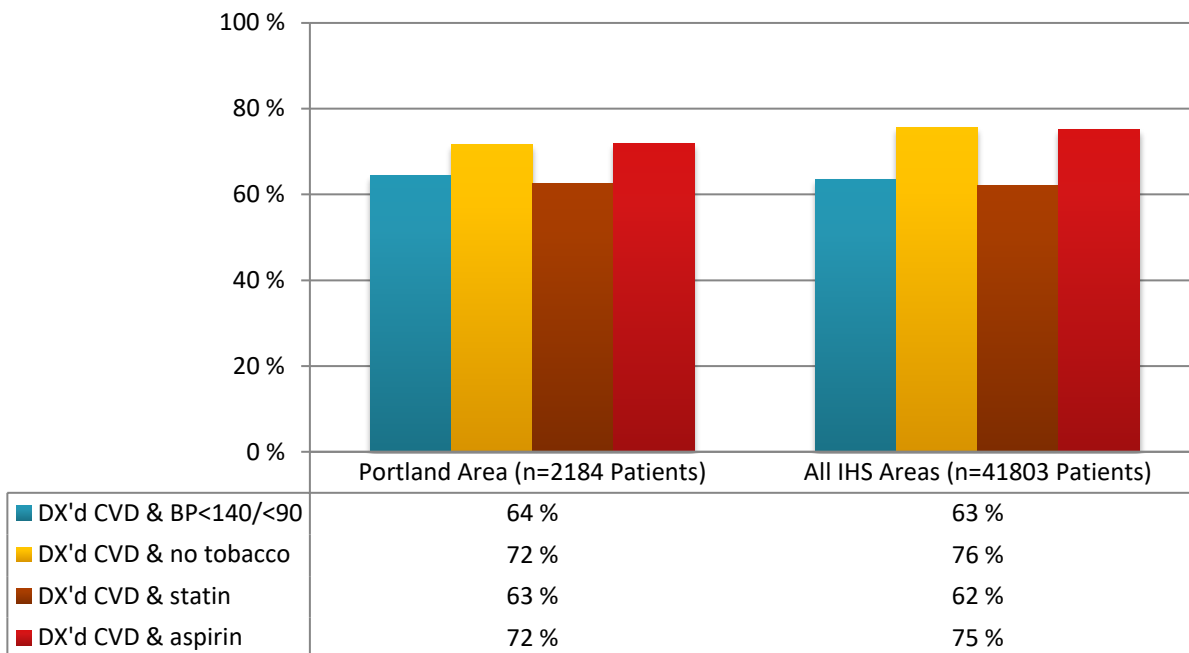
6699 sampled from 7109 active patients with diabetes (94%)

122051 sampled from 149218 active patients with diabetes (82%)

Patients Diagnosed with Hypertension with BP <140/<90



Patients Diagnosed with Cardiovascular Disease



2016 Diabetes Audit: Dates of Service Calendar Year 2015

This information is for the following groups:

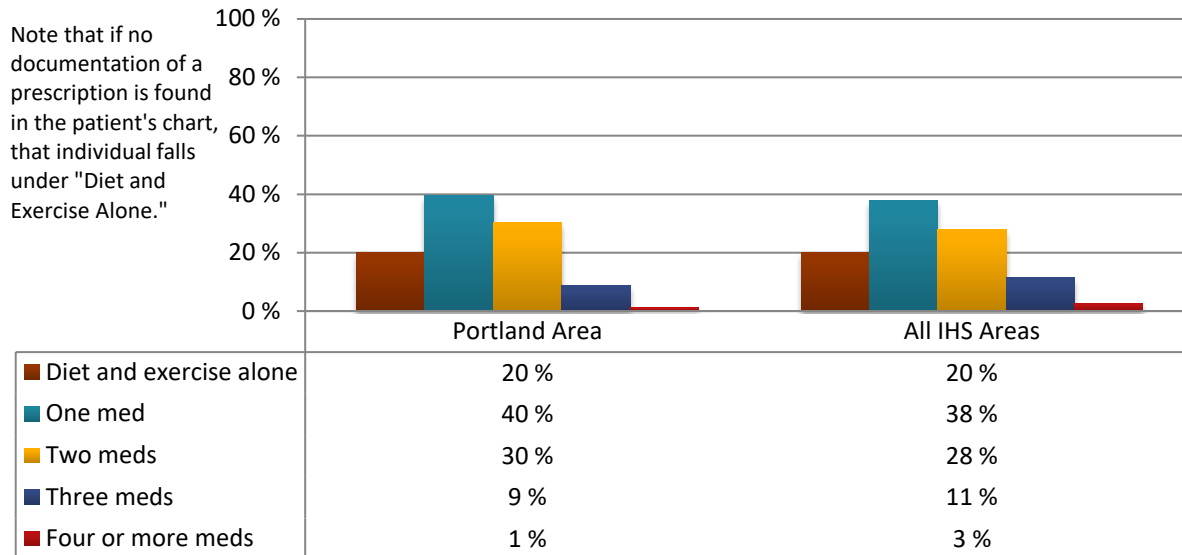
Portland Area (n=6699 patients)

All IHS Areas (n=122051 patients)

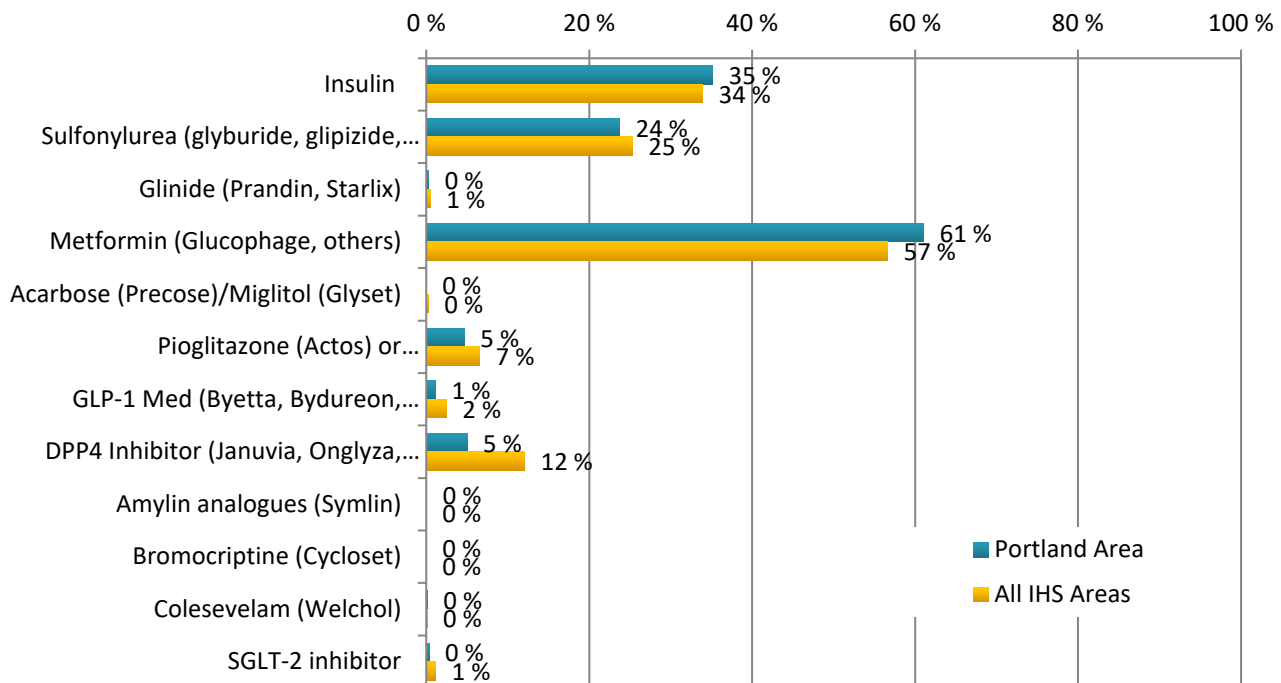
6699 sampled from 7109 active patients with diabetes (94%)

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Patients with Diabetes-Related Prescriptions



Diabetes Medications, Alone or in Combination



2016 Diabetes Audit: Dates of Service Calendar Year 2015

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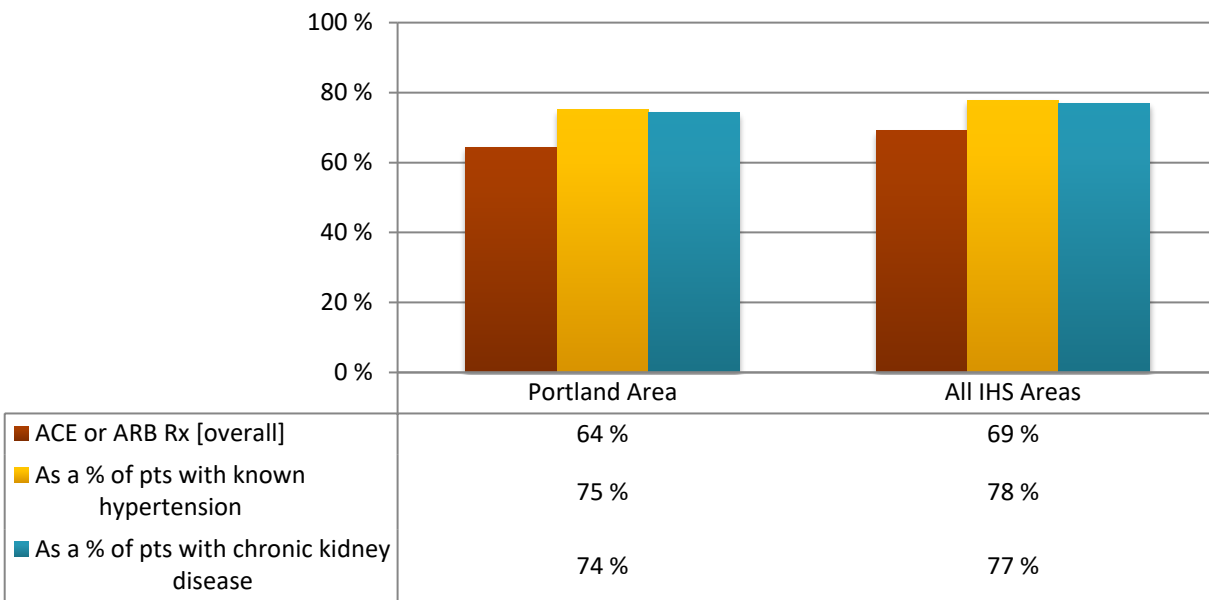
Portland Area (n=6699 patients)

All IHS Areas (n=122051 patients)

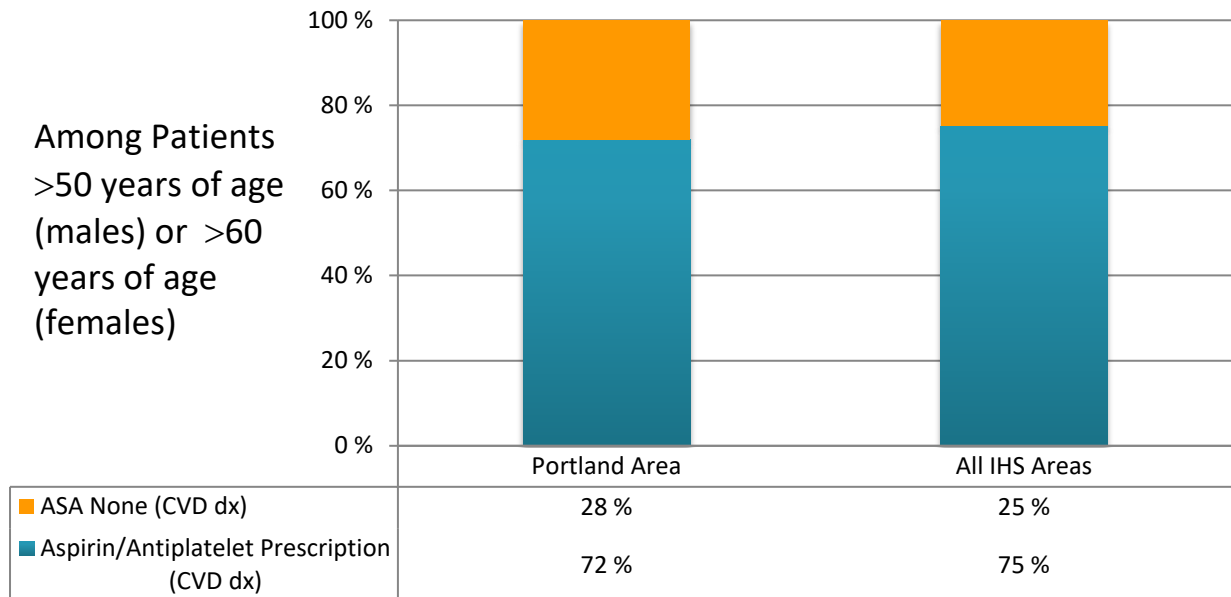
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Ace Inhibitor (or ARB) Prescriptions



Anti-Platelet Therapy



2016 Diabetes Audit: Dates of Service Calendar Year 2015

This information is for the following groups:

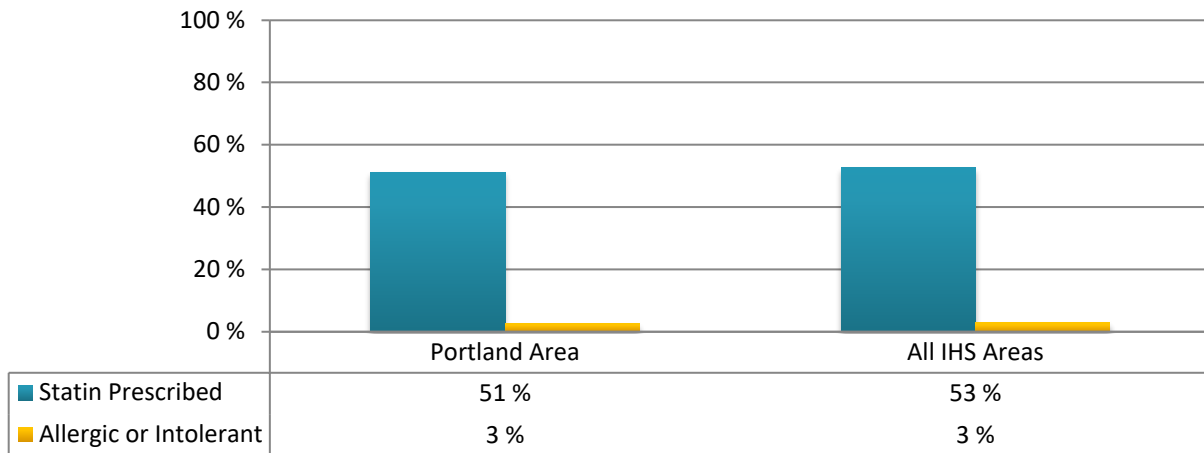
Portland Area (n=6699 patients)

All IHS Areas (n=122051 patients)

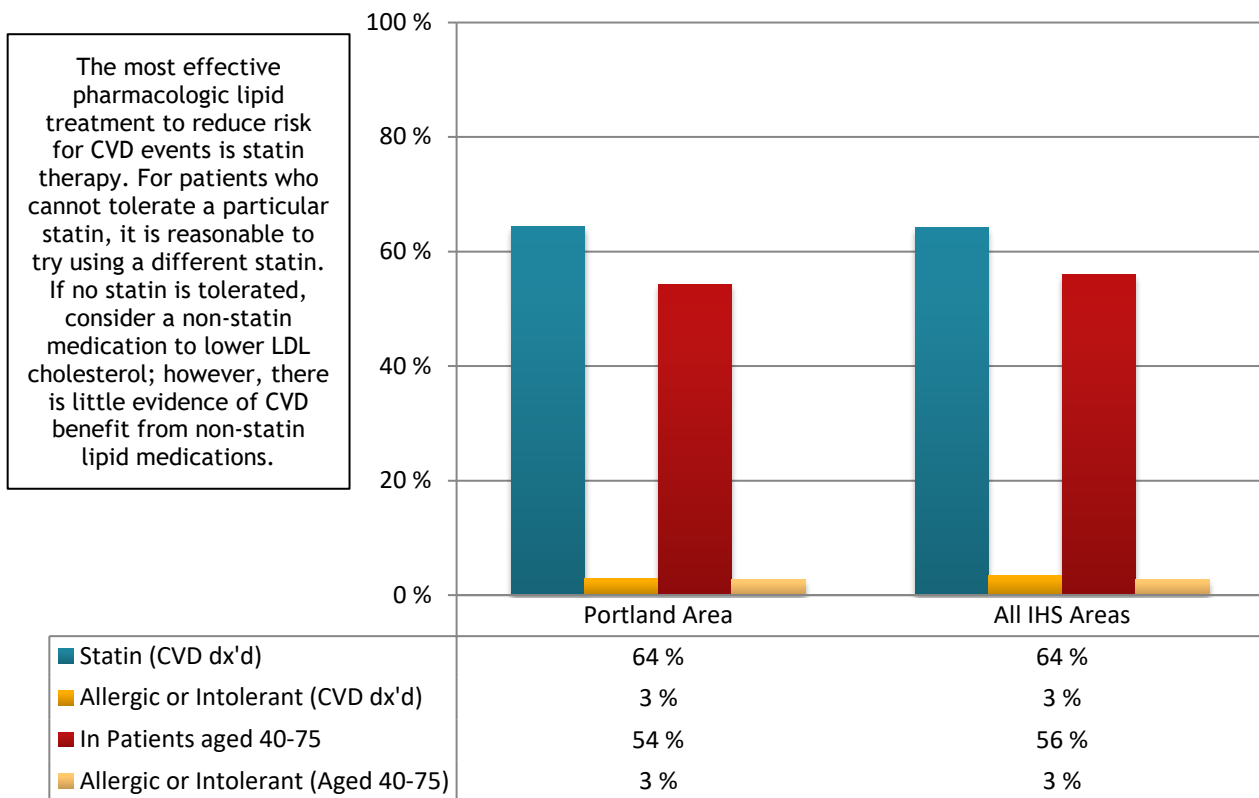
6699 sampled from 7109 active patients with diabetes (94%)

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Statin Prescribed



Statin Use in Patients dx'd with CVD and Patients aged 40-75



2016 Diabetes Audit: Dates of Service Calendar Year 2015

This information is for the following groups:

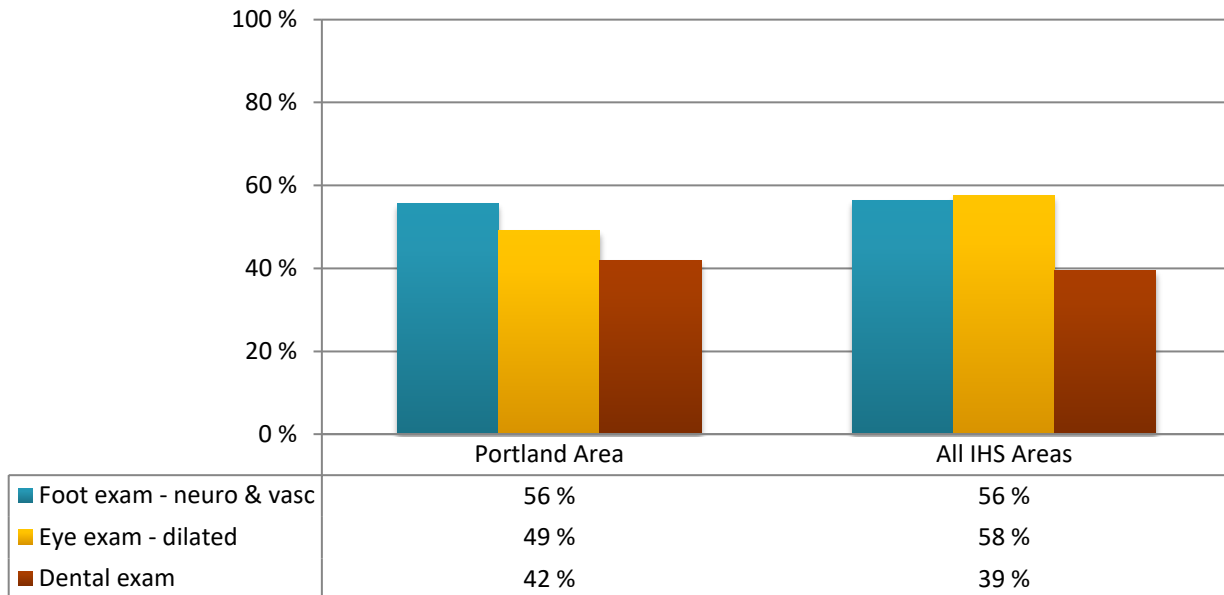
Portland Area (n=6699 patients)

All IHS Areas (n=122051 patients)

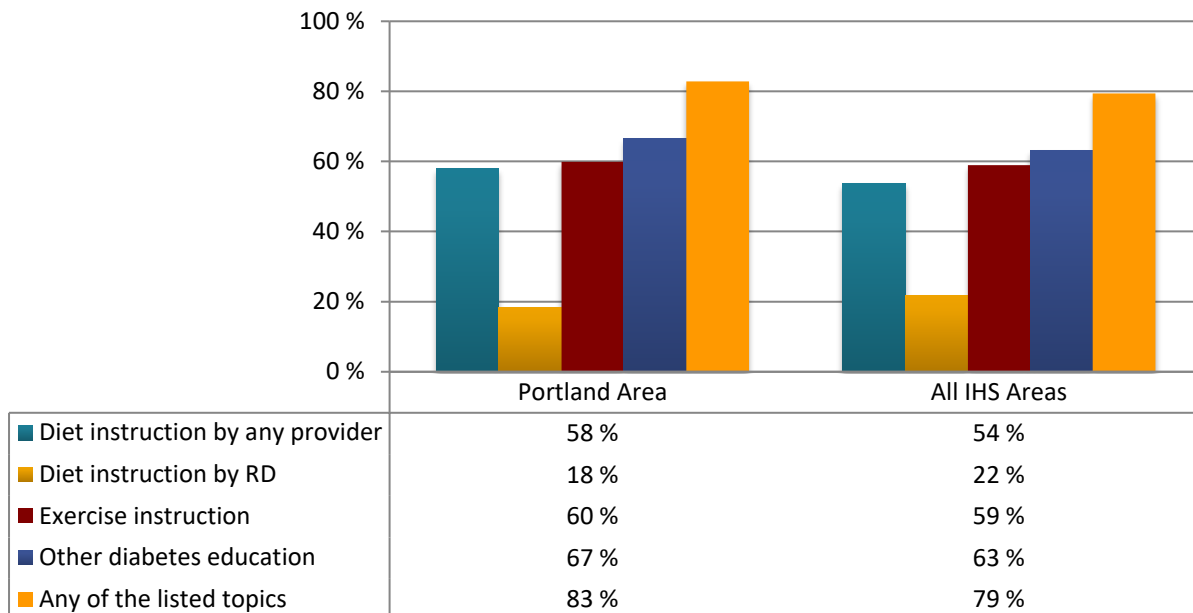
6699 sampled from 7109 active patients with diabetes (94%)

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Yearly Exams



Yearly Diabetes Education



2016 Diabetes Audit: Dates of Service Calendar Year 2015

This information is for the following groups:

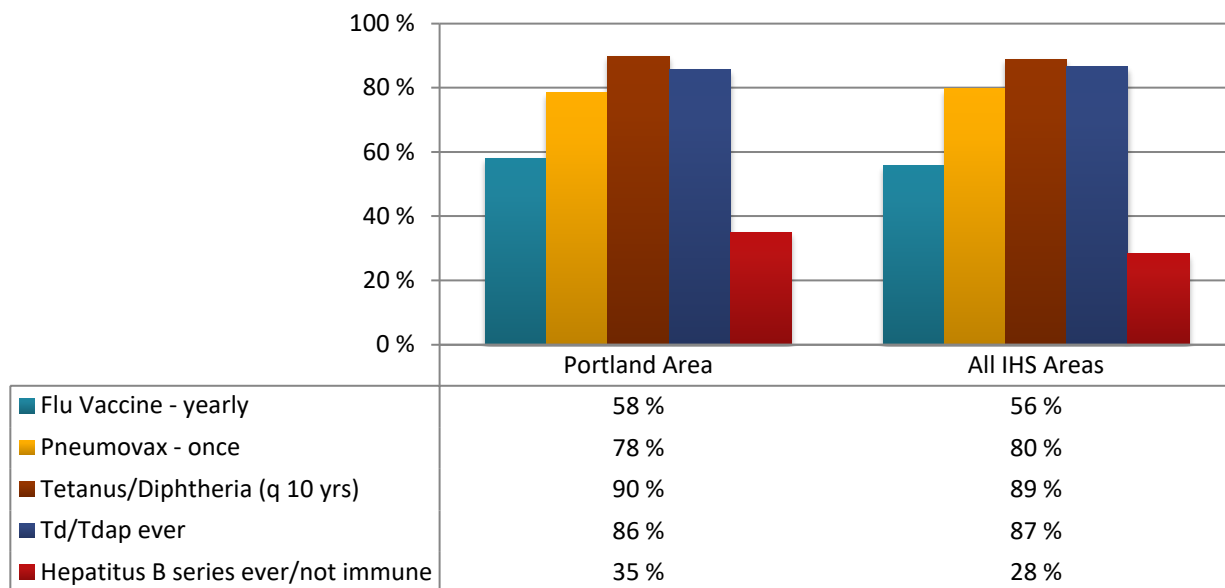
Portland Area (n=6699 patients)

All IHS Areas (n=122051 patients)

6699 sampled from 7109 active patients with diabetes (94%)

122051 sampled from 149218 active patients with diabetes (82%)

Immunizations



Portland Area

Flu Vaccine refused: 9.50016100074845%

Pneumovax refused: 4.3692775759912%

Tetanus/Diphtheria refused: 1.95560549049636%

Hepatitis B series refused/not immune: 4.0806594604%

All IHS Areas

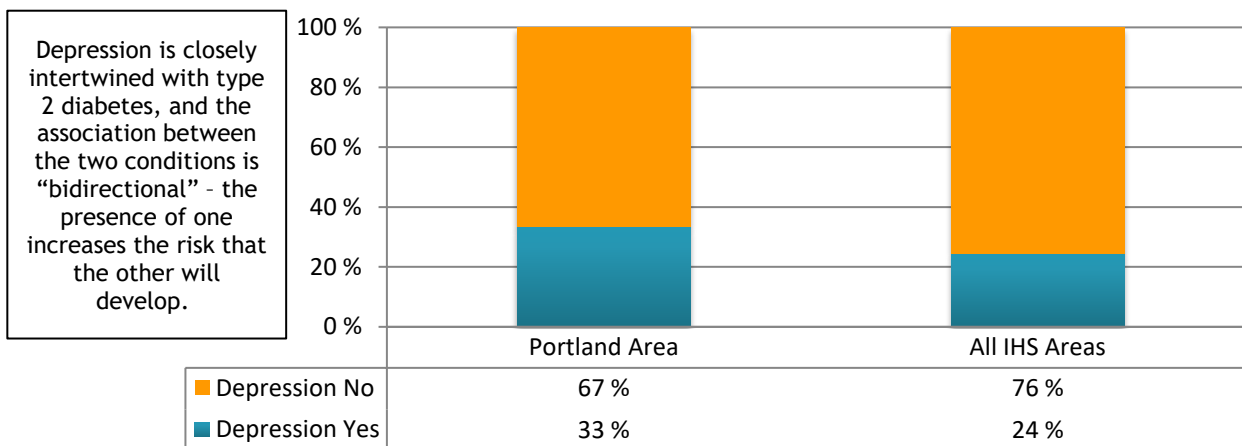
Flu Vaccine refused: 8%

Pneumovax refused: 4%

Tetanus/Diphtheria refused: 1%

Hepatitis B series refused/not immune: 3%

Depression Identified as Active Diagnosis



2016 Diabetes Audit: Dates of Service Calendar Year 2015

This information is for the following groups:

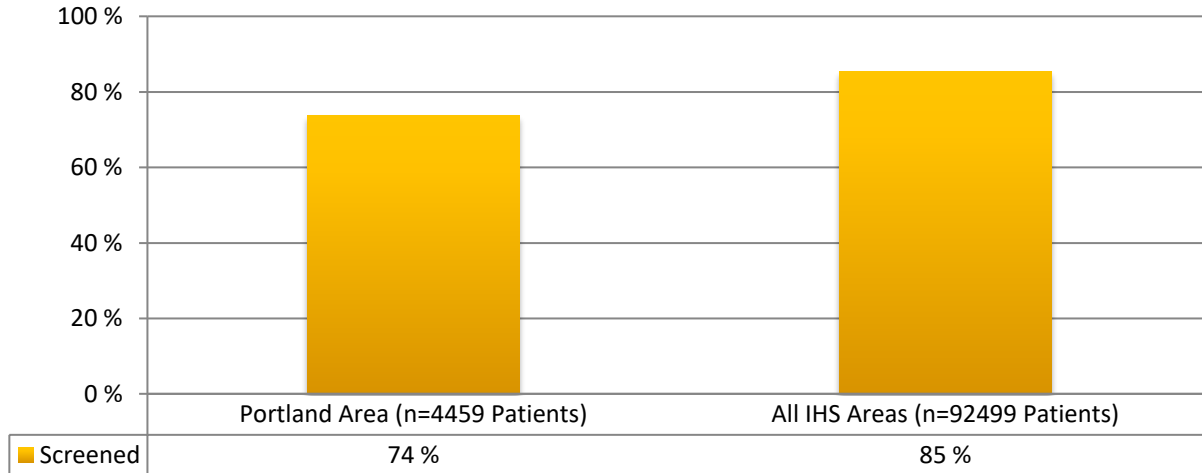
Portland Area (n=6699 patients)

All IHS Areas (n=122051 patients)

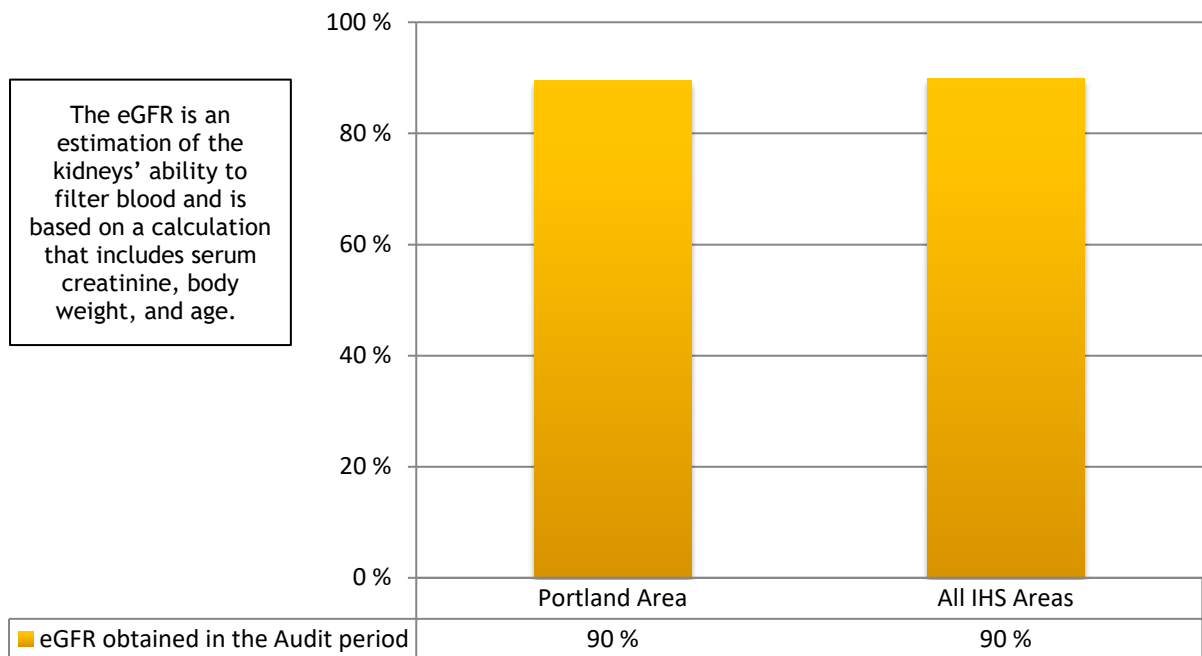
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Of Patients Without Active Depression Diagnosis, Proportion Screened for Depression in Past Year



Estimated GFR Testing



2016 Diabetes Audit: Dates of Service Calendar Year 2015

This information is for the following groups:

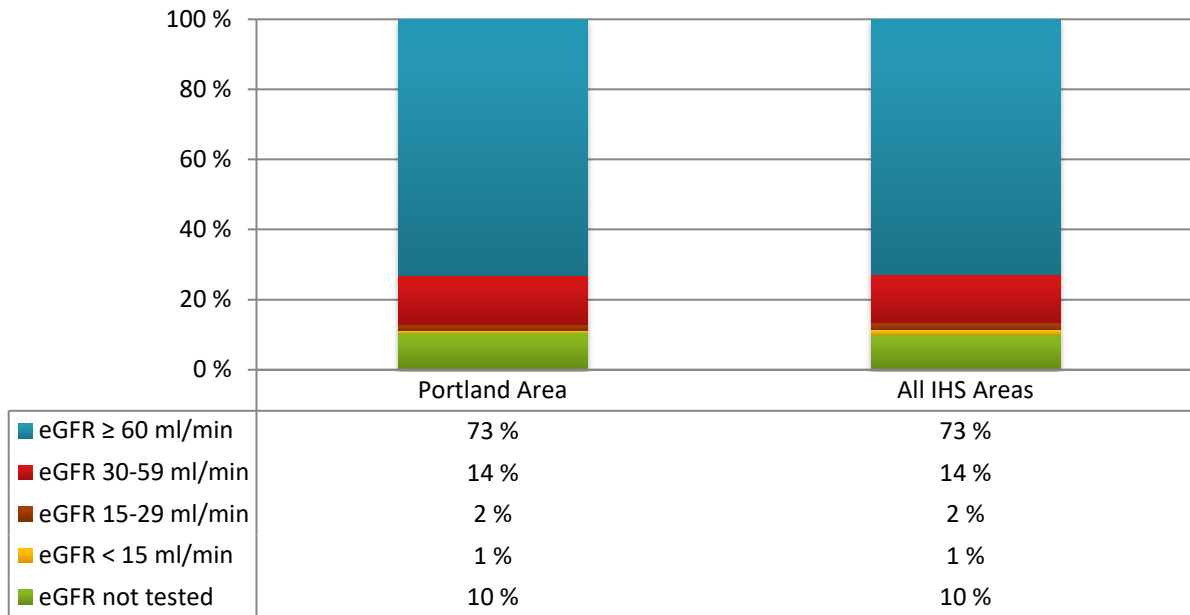
Portland Area (n=6699 patients)

All IHS Areas (n=122051 patients)

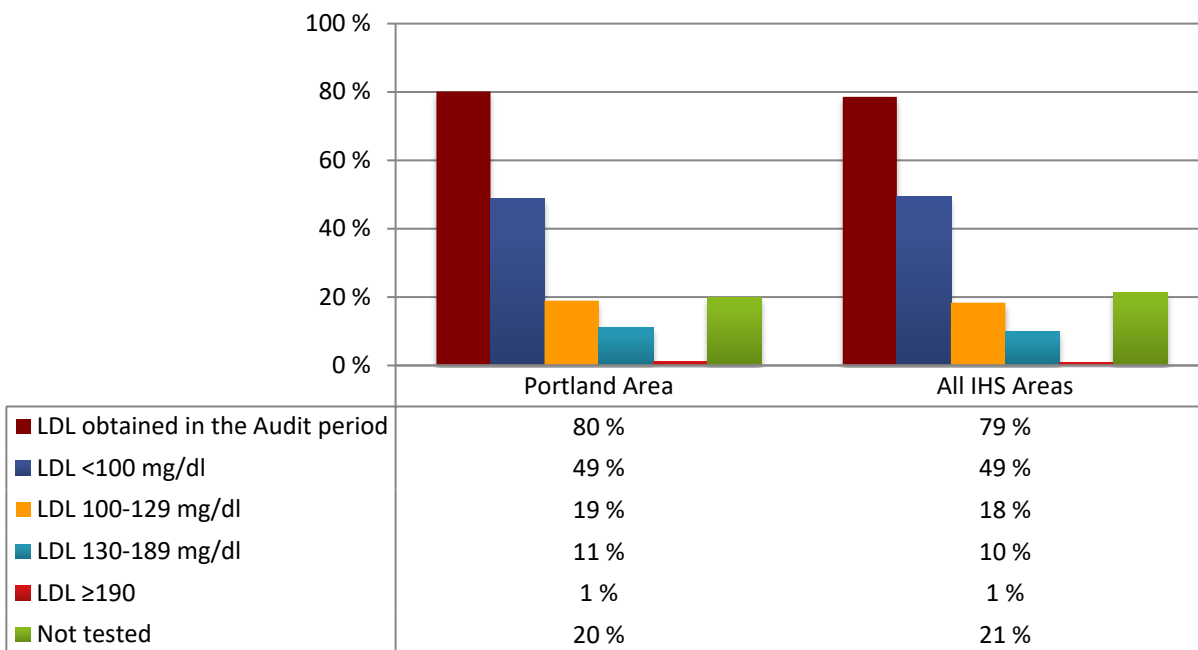
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Estimated GFR results



LDL Cholesterol



2016 Diabetes Audit: Dates of Service Calendar Year 2015

This information is for the following groups:

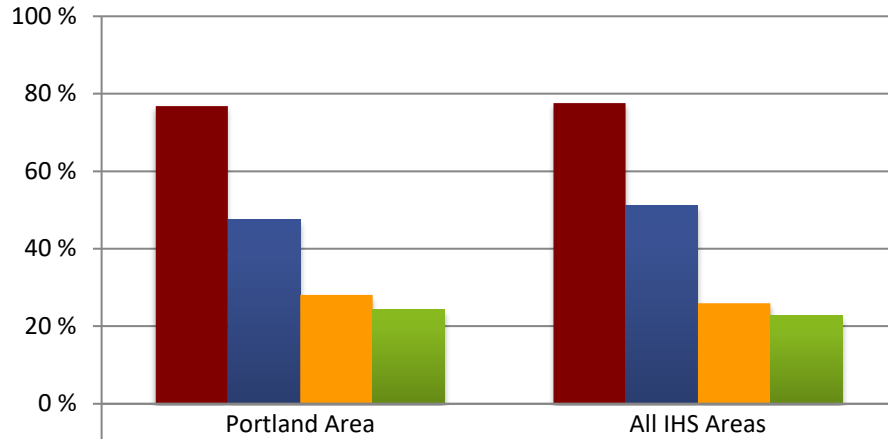
Portland Area (n=6699 patients)

All IHS Areas (n=122051 patients)

6699 sampled from 7109 active patients with diabetes (94%)

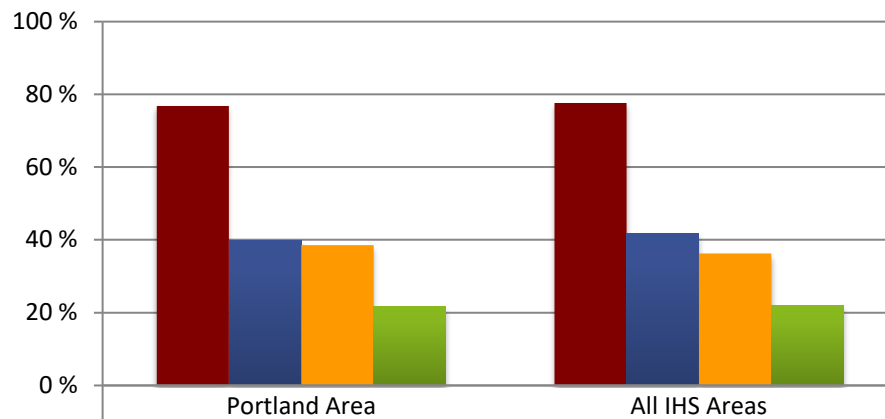
122051 sampled from 149218 active patients with diabetes (82%)

HDL Cholesterol Females



- HDL obtained in the Audit period(all patients)
- HDL < 50 mg/dl
- HDL ≥ 50 mg/dl
- HDL not done

HDL Cholesterol Males



- HDL obtained in the Audit period(all patients)
- HDL < 40 mg/dl
- HDL ≥ 40 mg/dl
- HDL not done

2016 Diabetes Audit: Dates of Service Calendar Year 2015

This information is for the following groups:

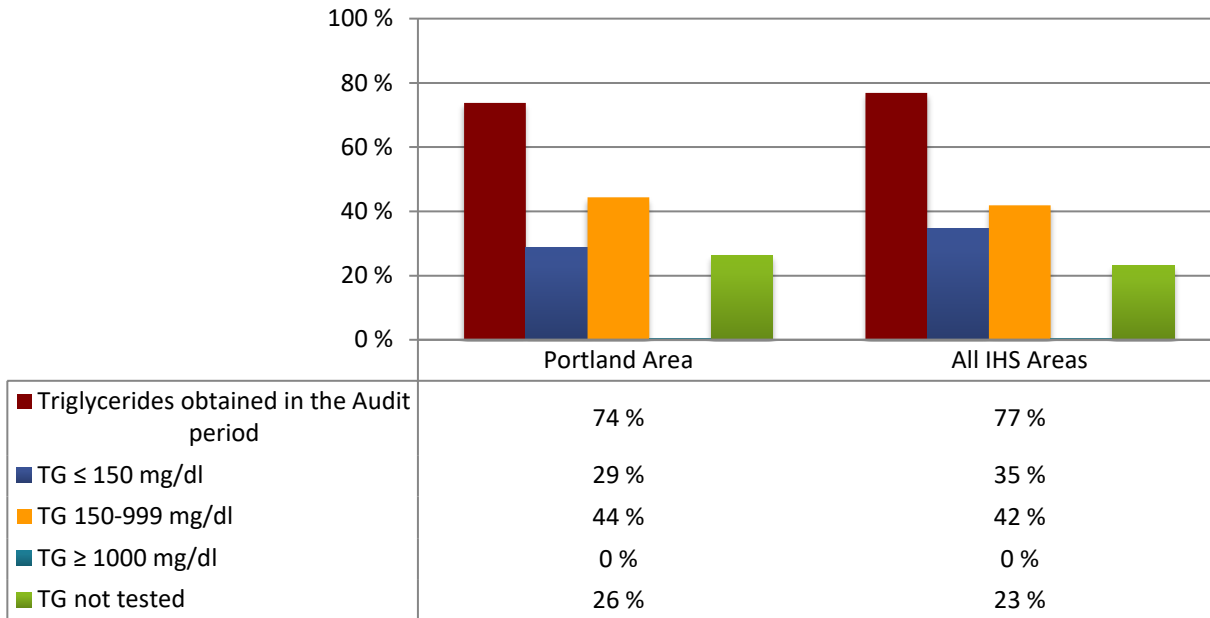
Portland Area (n=6699 patients)

All IHS Areas (n=122051 patients)

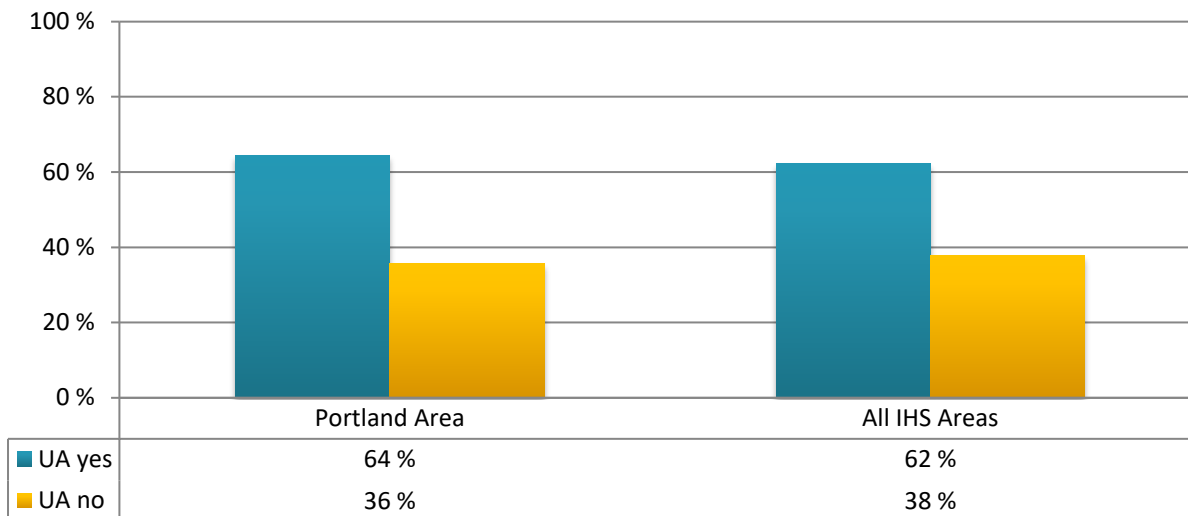
6699 sampled from 7109 active patients with diabetes (94%)

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Triglyceride Distribution



Urinalysis Performed



2016 Diabetes Audit: Dates of Service Calendar Year 2015

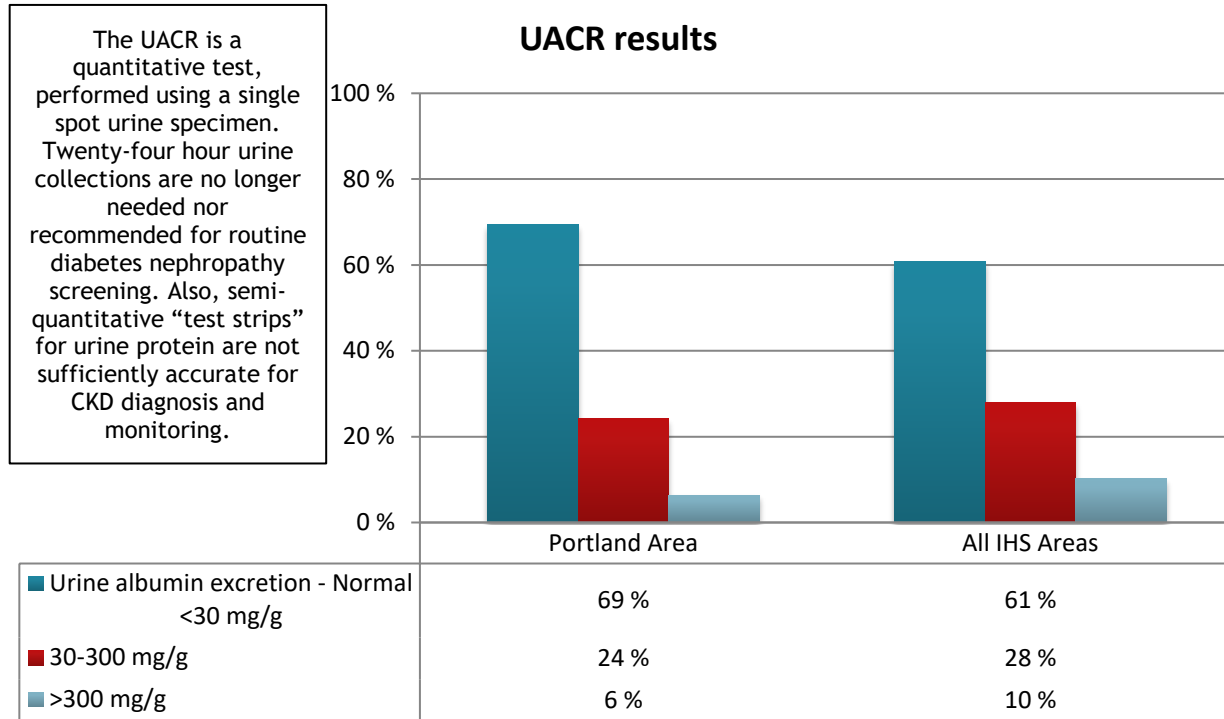
This information is for the following groups:

Portland Area (n=6699 patients)

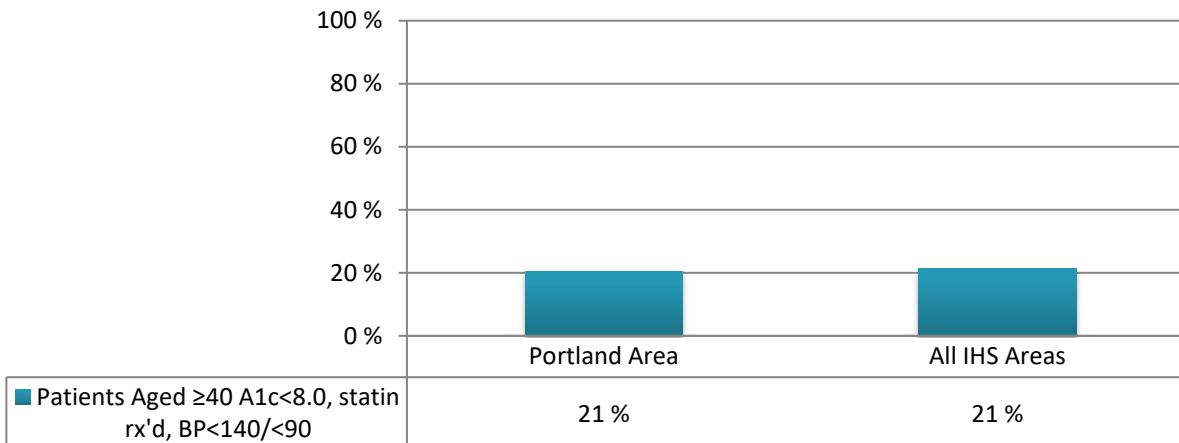
All IHS Areas (n=122051 patients)

6699 sampled from 7109 active patients with diabetes (94%)

122051 sampled from 149218 active patients with diabetes (82%)



Records meeting ALL of the criteria: A1c < 8.0, LDL < 100, and mean BP <140/<90



2016 Diabetes Audit: Dates of Service Calendar Year 2015

This information is for the following groups:

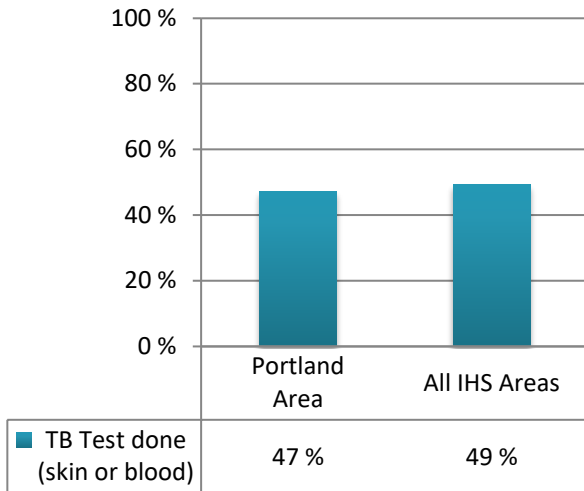
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All IHS Areas (n=122051 patients)

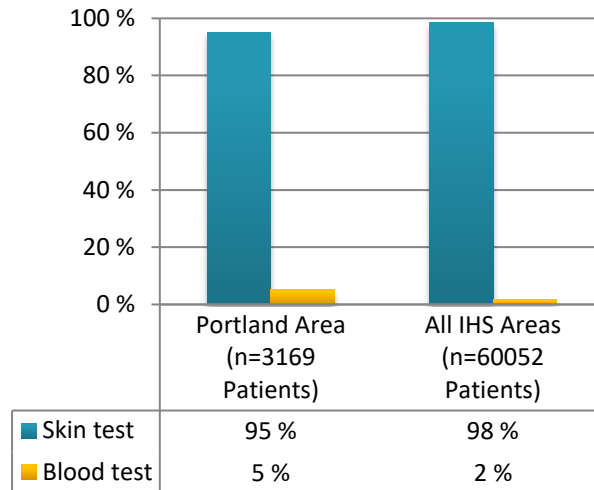
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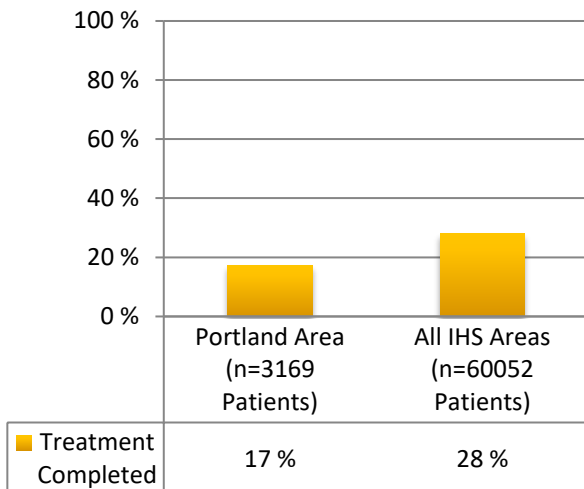
Tuberculosis Status



Type of TB test done



If Positive TB Test



If Negative TB Test

