

Comprehensive CVD Measure

Chris Lamer PharmD, MHS, BCPS, CDE
Federal Lead, Clinical Reporting System

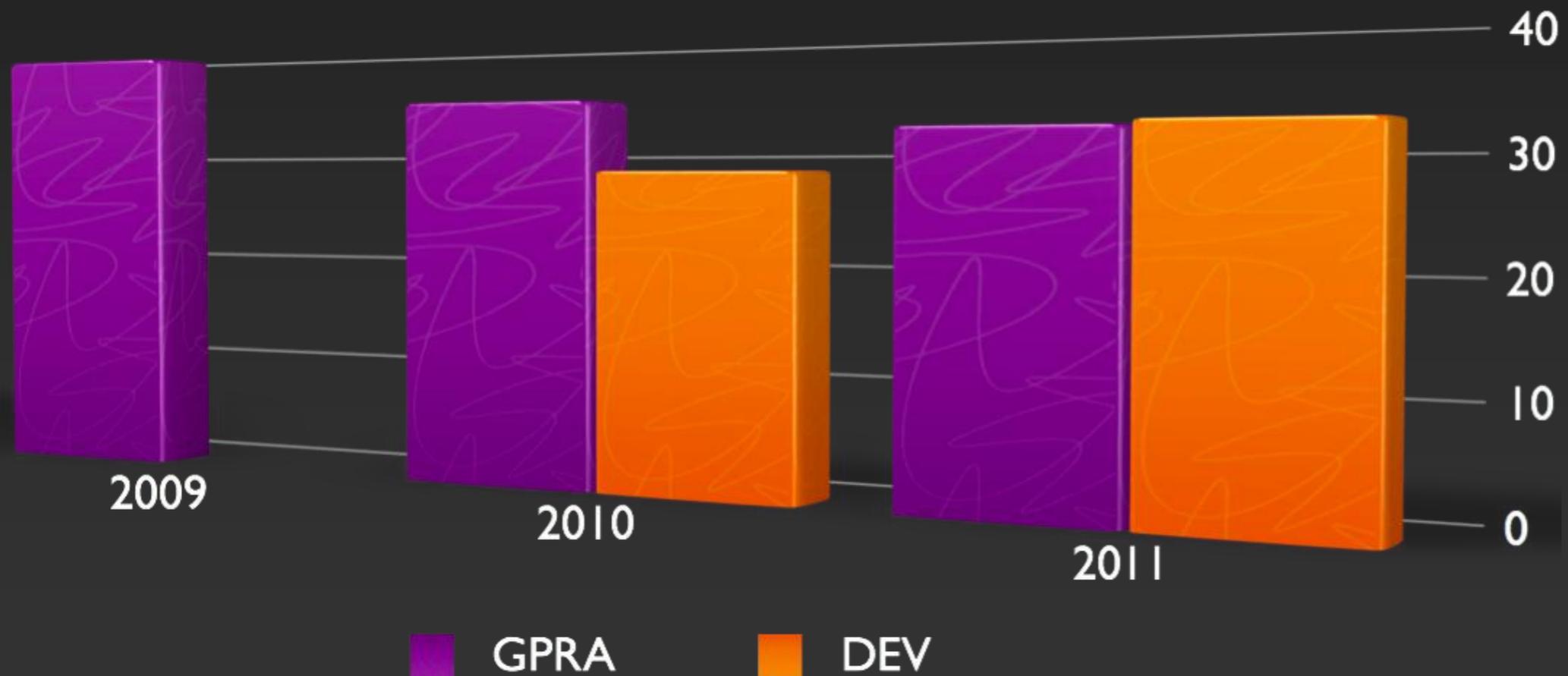
Mark Veazie, DR. P.H.
Health Metrics & Evaluation Consultant
Native American Cardiology - Phoenix
Chinle Division of Public Health - Navajo

Agenda

- Discuss history of the measure
 - Review the logic for the measure
 - Differentiate GPRA logic from GPRA Dev logic
 - Look at how we meet the measure
 - Discuss the logic and methods for documentation for each component of the measure
 - Discuss ways to improve documentation
- 

Comprehensive CVD Measure

- GPRA Measure
- GPRA Development Measure
- GPRAMA Measure



GPRA 2012

**GPRAMA 2013
GPRA Dev 2012**

IHD patients

CHD patients

BP Documented

BP Documented

LDL in past 5 years

LDL in past year

Screened for tobacco

Screened for tobacco

BMI Calculated

BMI Calculated

Lifestyle Counseling

Lifestyle Counseling

Depression Screening

Depression Screening

BMI Refused

Denominators

GPRA 2012

Active clinical patients

Age 22 years and older

At least 2 visits

POV 410.0-412.*, 414.0-414.9,
428.* or 429.2

GPRAMA 2013

Active clinical patients

Age 22 years and older

At least 2 visits

POV 410.0-413.*, 414.0-414.9,
429.2, or v45.81

CPT 33510-33513, 33516-
33519, 33521-33523, 33533-
33536, s2205-s2209, 92980,
92982, 92995, G0290

Procedure 36.1*, 36.2*, 00.66,
36.01, 36.02, 36.05, 36.06-
36.07

Targets

GPRA 2012

40.6%

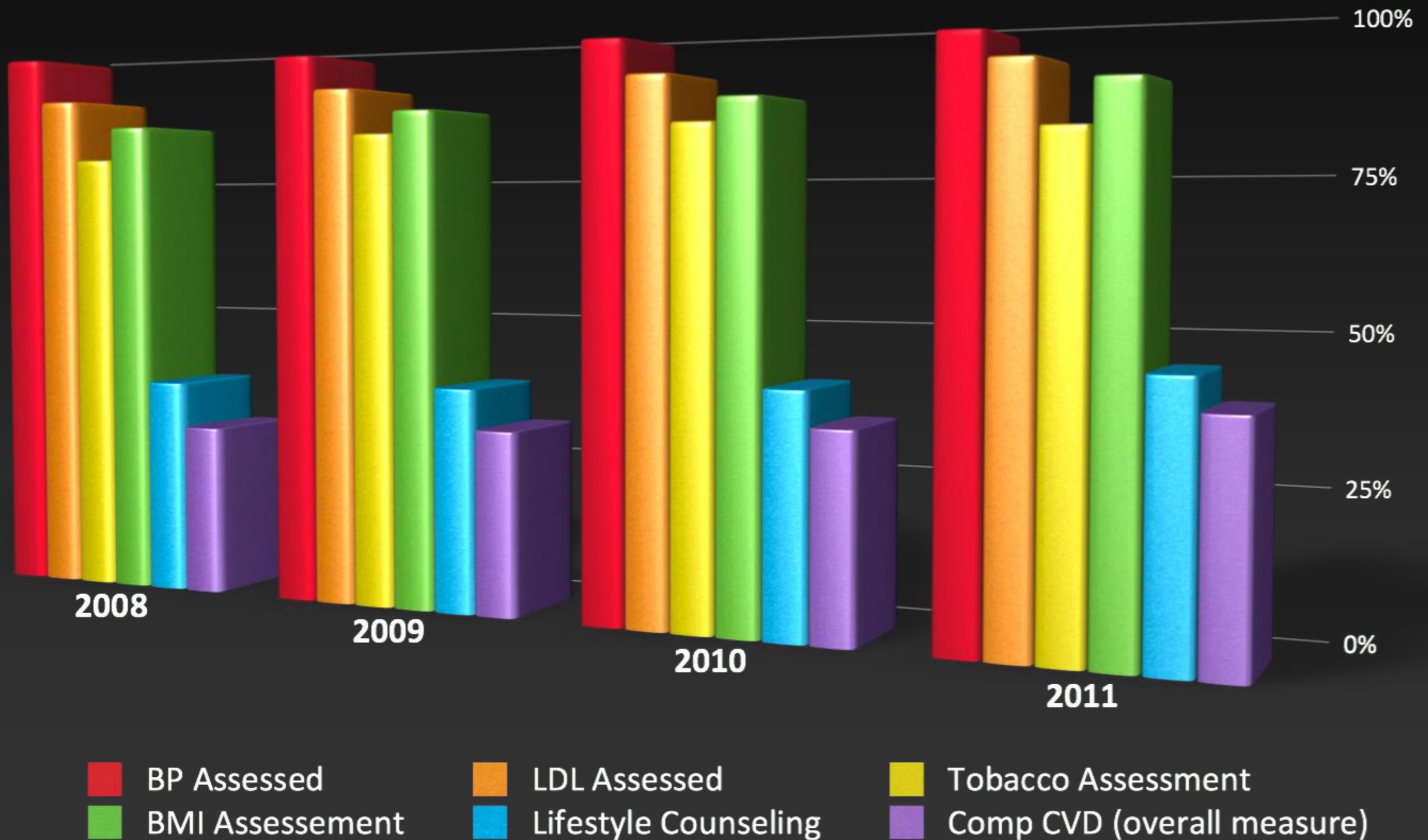
GPRAMA 2013

32.3%

Numerators

- Patients with BP value documented at least twice in prior two years.
- Patients with LDL completed in **past year (GPRAMA)**, regardless of result.
- Patients who have been screened for tobacco use during the report period.
- BMI Available: Patients for whom a BMI could be calculated.
- Lifestyle Counseling: Patients who have received any lifestyle adaptation counseling, including medical nutrition therapy, or nutrition, exercise or other lifestyle education during the current report period.
- GPR: Patients with comprehensive CVD assessment, defined as having BP, LDL, and tobacco use assessed, BMI calculated and lifestyle counseling.
- Refusal of BMI: Patients who refused a height or weight measurement and for whom a BMI could not be calculated.
- Patients screened for depression or diagnosed with a mood disorder at any time during the report period.

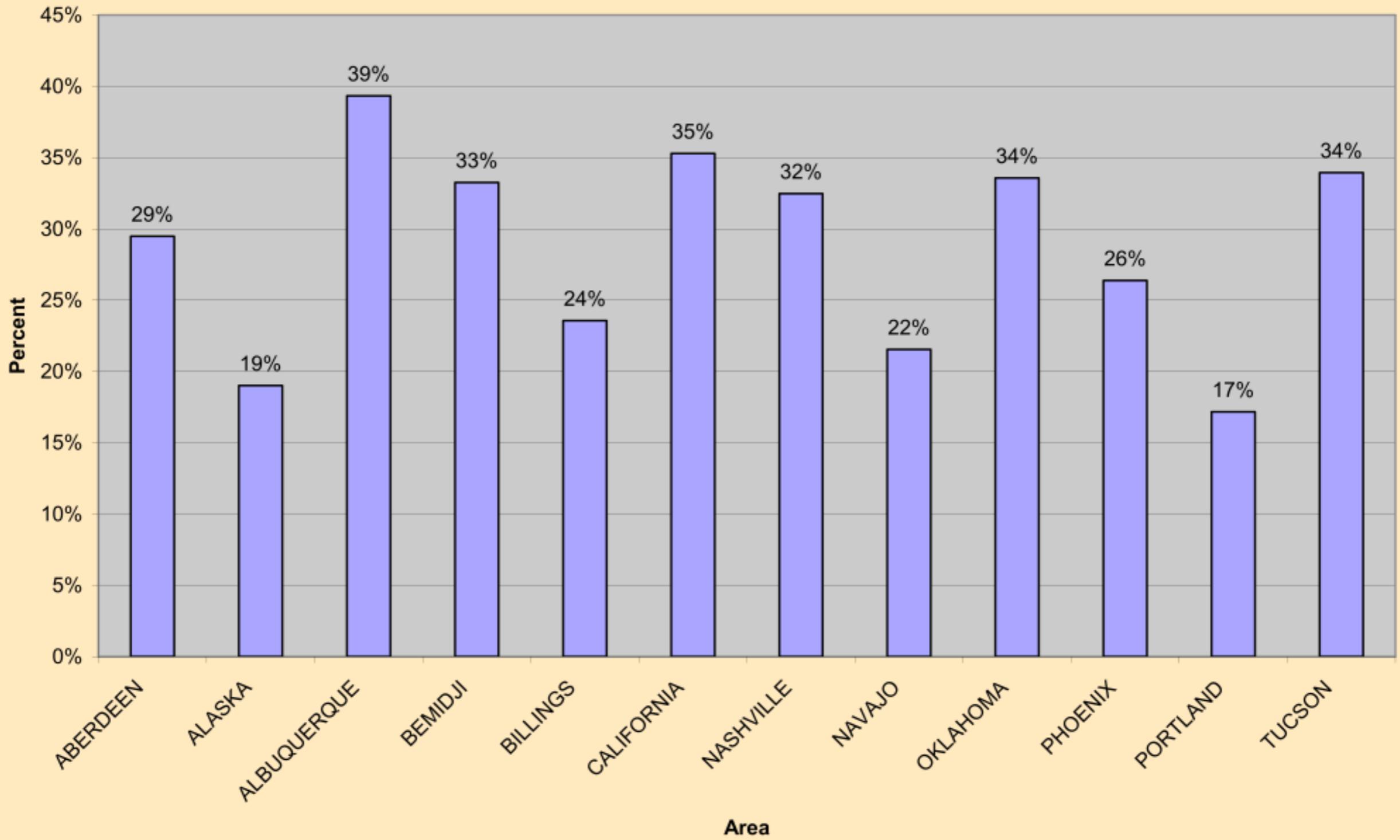
Measure by Component



Measure by Component



Comprehensive CVD GPRA Measure by Area, 2010



Average rate across 12 IHS Areas, coefficient of variation, and difference between 95th and 75th percentiles by component of Comprehensive CVD GPRA Indicator

Component	Average across 12 IHS Areas	CV% *	95-75tile*
BP Assessed	92	3.3	0.15
Tobacco	83	7.0	1.34
BMI	86	7.0	4.96
Lifestyle	43	21.9	7.11
Comprehensive—All vs. None	29	25.7	4.26
Comprehensive--Average	80	4.6	-
Depression Screening	72	16.0	5.29

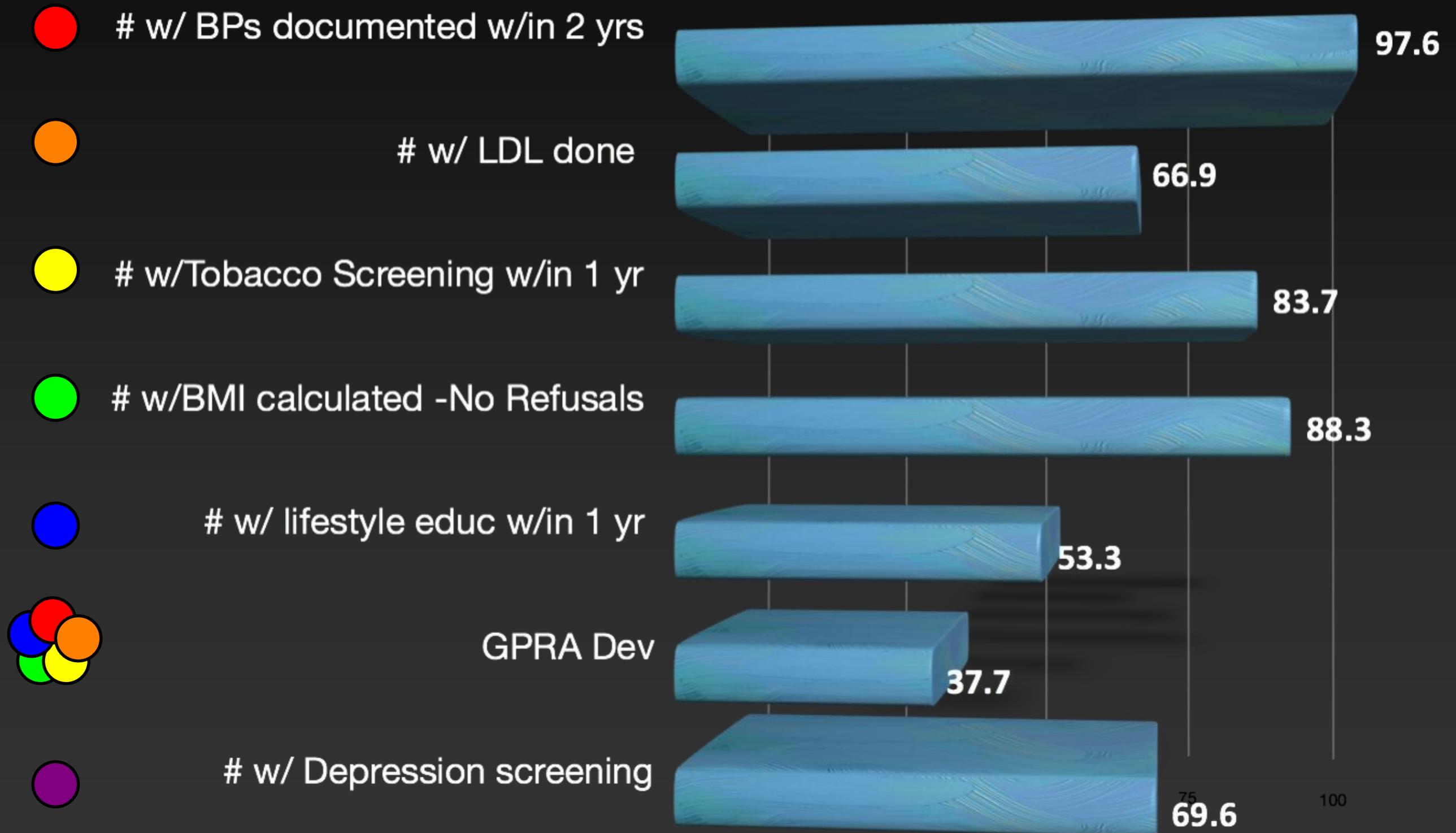
*CV%=Coefficient of Variation=standard deviation expressed as a percent of the average rate.

Answers: Is there enough variation for meaningful comparisons between sites?

*Difference between the 95th-75th percentile.

Answers: Is the measure topped out with respect to the highest performers?

California Area 2011



Blood Pressure

- Having a minimum of two BPs documented on non-ER visits in past two years.
- If CRS does not find two BPs, it will search for CPT 0001F, 2000F, 3074F–3080F or POV v81.1 documented during the past two years.

GPRRA Exclusion: ER visits

GPRAMA Exclusion: Service category:
Hospitalization, In Hospital, Day
Surgery, Observation; Clinic code:
Surgical, ER, Day surgery,
Neurosurgery, Anesthesiology



LDL

- Finds the most recent test done in the last year, regardless of the results of the measurement.
- LDL Definition
 - CPT 80061, 83700, 83701, 83704, 83715 (old code), 83716 (old code), 83721, 3048F, 3049F, 3050F
 - LOINC taxonomy
 - Site-populated taxonomy DM AUDIT LDL CHOLESTEROL TAX

Tobacco Screening

- Any health factor for category Tobacco, TOBACCO (SMOKING), TOBACCO (SMOKELESS–CHEWING/DIP), or TOBACCO (EXPOSURE) documented during current report period
- Tobacco-related diagnoses (POV or current Active Problem List) 305.1, 305.1* (old codes), 649.00–649.04, or V15.82
- Dental code 1320
- Any patient education code containing "TO-", "-TO", "-SHS", 305.1, 305.1* (old codes), 649.00–649.04, V15.82, D1320, 99406, 99407, G0375 (old code), G0376 (old code), 1034F, 1035F, 1036F, 1000F, G8455-G8457 (old codes), G8402 (old code) or G8453 (old code)
- CPT D1320, 99406, 99407, G0375 (old code), G0376 (old code), 1034F, 1035F, 1036F, 1000F, G8455-G8457 (old codes), G8402 (old code) or G8453 (old code)

ASK

Do you smoke tobacco?
(Cigarettes, Cigars, Pipe)

Never Smoked

Current Smoker

Current EVERY day smoker
Current SOME day smoker
Current Smoker but smoking status is unknown

Cessation Smoker

First 6 months after quitting

Previous (former) Smoker

Quit for more than 6 months

Smoking Status Unknown

Ceremonial Use

ASK

Do you use smokeless tobacco?
(Chewing tobacco, Snuff, Dip)

Never used Smokeless Tobacco

Current Smokeless

Cessation Smokeless

First 6 months after quitting

Previous (former) Smokeless

Quit for more than 6 months

Smokeless Tobacco Status Unknown

ASK

Are you exposed to tobacco smoke in the home or at work?

Smoker in the Home

Smoke Free Home

Exposure to Environmental Tobacco Smoke

Health Factors: Smoking

- This health factor is used to document whether the patient smokes tobacco (cigarettes, pipe, or cigars) or has a history of smoking.
 - Using the Smoking Assessment Health Factor
 - Ask the patient if he or she smokes tobacco or has smoked tobacco in the past (cigarettes, pipe, or cigars).
 - Ask the patient if he or she smokes tobacco products for cultural or religious purposes.
 - Document the Smoking Assessment factor screening results using the values in the table.

Smoking Assessment

HEALTH FACTOR	DEFINITION
Current every day smoker	Currently smokes tobacco (cigarettes, cigars, pipe, etc.) every day
Current some day smoker	Currently smokes tobacco (cigarettes, cigars, pipe, etc.) on some days (but not every day)
Current smoker, status unknown	Currently smokes tobacco (cigarettes, cigars, pipe, etc.) but the amount smoked is unknown
Cessation smoker	Is transitioning from a Current Smoker to a Previous Smoker. The time period between the stop date and the present date is less than 6 months.
Previous (former) smoker	Has quit smoking tobacco for 6 months or more
Ceremonial Use	Uses tobacco for ceremonial or religious purposes only
Never smoked	Does not and has never smoked tobacco products
Smoking status unknown	Unable to assess the patient's smoking status (they may be unconscious or unresponsive)

Health Factor: Smokeless

- This health factor is used to document whether the patient uses smokeless tobacco (chewing tobacco, dip) or has a history of using smokeless tobacco.
 - Using the Smokeless Tobacco Use Health Factor
 - Ask the patient if he or she uses smokeless tobacco products (Chewing tobacco, snuff, dip, etc.).
 - Document the health factor screening results using the values in the table.

Smokeless Tobacco Assessment

HEALTH FACTOR	DEFINITION
Current Smokeless	Currently uses smokeless tobacco (chew, dip, snuff, etc.)
Cessation smokeless	Is transitioning from a Current Smokeless tobacco user to a Previous Smokeless tobacco user. The time period between stopping smokeless tobacco and the present date is less than 6 months.
Previous (former) smokeless	Has quit smokeless tobacco for 6 months or more
Never used smokeless tobacco	Does not and has never used smokeless tobacco products
Smokeless tobacco status unknown	Unable to assess the patient's smokeless tobacco use status (they may be unconscious or unresponsive)

Health Factor: Environmental

- This health factor is used to document whether the patient is exposed to tobacco smoke at home or work.
 - Using the Tobacco Use and Exposure Health Factor
 - Ask the patient if he or she is exposed to tobacco smoke at work.
 - Ask the patient if anyone uses tobacco products at home.
 - Document the health factor screening results using the values in the table.

Environmental Tobacco Smoke

HEALTH FACTOR	DEFINITION
Exposure to Environmental Tobacco Smoke	Is exposed to secondhand smoke at work or outside the home
Smoker in Home	Is exposed to secondhand smoke at home
SmokeFree Home	No exposure to tobacco smoke at home

Documenting in EHR

The screenshot shows an EHR interface for a patient named Abeita, Kimberly Sue. The interface includes a top menu bar with options like 'User', 'Patient', 'Refresh Data', 'Tools', 'Help', 'eSig', 'Clear', 'Clear and Lock', 'Community Alerts', 'Dosing Calculator', 'Rx Print Settings', 'GRU - Audit Log', and 'Universal Client'. Below the menu bar are tabs for 'PRIVACY', 'PATIENT CHART', 'RESOURCES', and 'RCIS'. The patient information section displays 'Abeita, Kimberly Sue' with ID '179159' and birth date '01-Mar-1963 (48) F'. The provider information shows '01 GENERAL LAMER, CHRIS' with a date and time '08-Feb-2012 11:39' and location 'Ambulatory'. A green box indicates 'Primary Care Team Unassigned'. The main navigation bar includes 'Postings', 'POC Lab Entry', 'Pharm Ed', 'Problem List', 'Advs React', 'Medications', 'PWH Med Rec', 'eRx Receipt', 'Reviewed/ Updated', and 'Visit Summary'. The 'WELLNESS' tab is highlighted with a red circle. Below the navigation bar are sections for 'Education' and 'Health Factors'. The 'Education' section has a table with columns for 'Visit Date', 'Education Topic', 'Comprehension', 'Status', 'Objectives', and 'Col'. The 'Health Factors' section has a table with columns for 'Visit Date', 'Health Factor', 'Category', and 'Comment'.

Visit Date	Education Topic	Comprehension	Status	Objectives	Col
07/28/2008	Diabetes I/ juv Not Uncontrl-Anatomy And Physiology 2006	GOOD			

Visit Date	Health Factor	Category	Comment
02/02/1998	Non-tobacco User	Tobacco	

Wellness Tab

Documenting in EHR

The screenshot shows a software window titled "Health Factors" with a "no smoking" icon in the top-left corner. The window has three buttons in the top-right: "Add", "Edit", and "Delete". On the left side, there is a table with the following data:

Visit Date
02/02/1998
02/02/1998
02/02/1998

The main area of the window is a dialog box titled "Add Health Factor" with a close button (X) in the top-right. It contains a list of health factors under the heading "Items":

- + ACTIVITY LEVEL
- + ALCOHOL/DRUG
- + ASTHMA TRIGGERS
- + BARRIERS TO LEARNING
- + CONFIDENCE IN MANAGING HEALTH PROBLEMS
- + DIABETES SELF MONITORING
- + LEARNING PREFERENCE
- + OCCUPATION
- + TB STATUS
- + TOBACCO (EXPOSURE)
- + TOBACCO (SMOKELESS - CHEWING/DIP)
- + **TOBACCO (SMOKING)**

Below the list is a "Comment" text box.

On the right side of the dialog box, there are two buttons: "Add" and "Cancel".

Documenting in EHR

 **Health Factors** Add Edit Delete

Visit Date
02/02/1998
02/02/1998
02/02/1998

Add Health Factor X

Items

- OCCUPATION
- TB STATUS
- TOBACCO (EXPOSURE)
- TOBACCO (SMOKELESS - CHEWING/DIP)
- TOBACCO (SMOKING)
 - CEREMONIAL USE ONLY
 - CESSATION-SMOKER
 - CURRENT SMOKER, EVERY DAY**
 - CURRENT SMOKER, SOME DAY
 - CURRENT SMOKER, STATUS UNKNOWN
 - NEVER SMOKED
 - PREVIOUS (FORMER) SMOKER
 - SMOKING STATUS UNKNOWN

Comment: Smokes 2 packs per day (optional free text area) 2 Optional

Add 3 Cancel

Documenting in EHR

The screenshot shows a software window titled "Health Factors" with a "no" symbol in the top-left corner. The window contains a table with "Visit Date" and three entries of "02/02/1998". An "Add Health Factor" dialog box is open, displaying a list of health factor items. The items are grouped into categories: OCCUPATION, TB STATUS, TOBACCO (EXPOSURE), TOBACCO (SMOKELESS - CHEWING/DIP), and TOBACCO (SMOKING). The "TOBACCO (SMOKING)" category is expanded, showing sub-items like "CEREMONIAL USE ONLY". A "Comment" field at the bottom of the dialog contains the text "Smokes 2 packs per day (optional free text area)".

Visit Date
02/02/1998
02/02/1998
02/02/1998

Add Health Factor

Items

- OCCUPATION**
- TB STATUS**
- TOBACCO (EXPOSURE)**
 - EXPOSURE TO ENVIRONMENTAL TOBACCO SMOKE
 - SMOKE FREE HOME
 - SMOKER IN HOME
- TOBACCO (SMOKELESS - CHEWING/DIP)**
 - CESSATION-SMOKELESS
 - CURRENT SMOKELESS
 - NEVER USED SMOKELESS TOBACCO
 - PREVIOUS (FORMER) SMOKELESS
 - SMOKELESS TOBACCO, STATUS UNKNOWN
- TOBACCO (SMOKING)**
 - CEREMONIAL USE ONLY

Comment: Smokes 2 packs per day (optional free text area)

Repeat for Smokeless and Exposure Health Factors

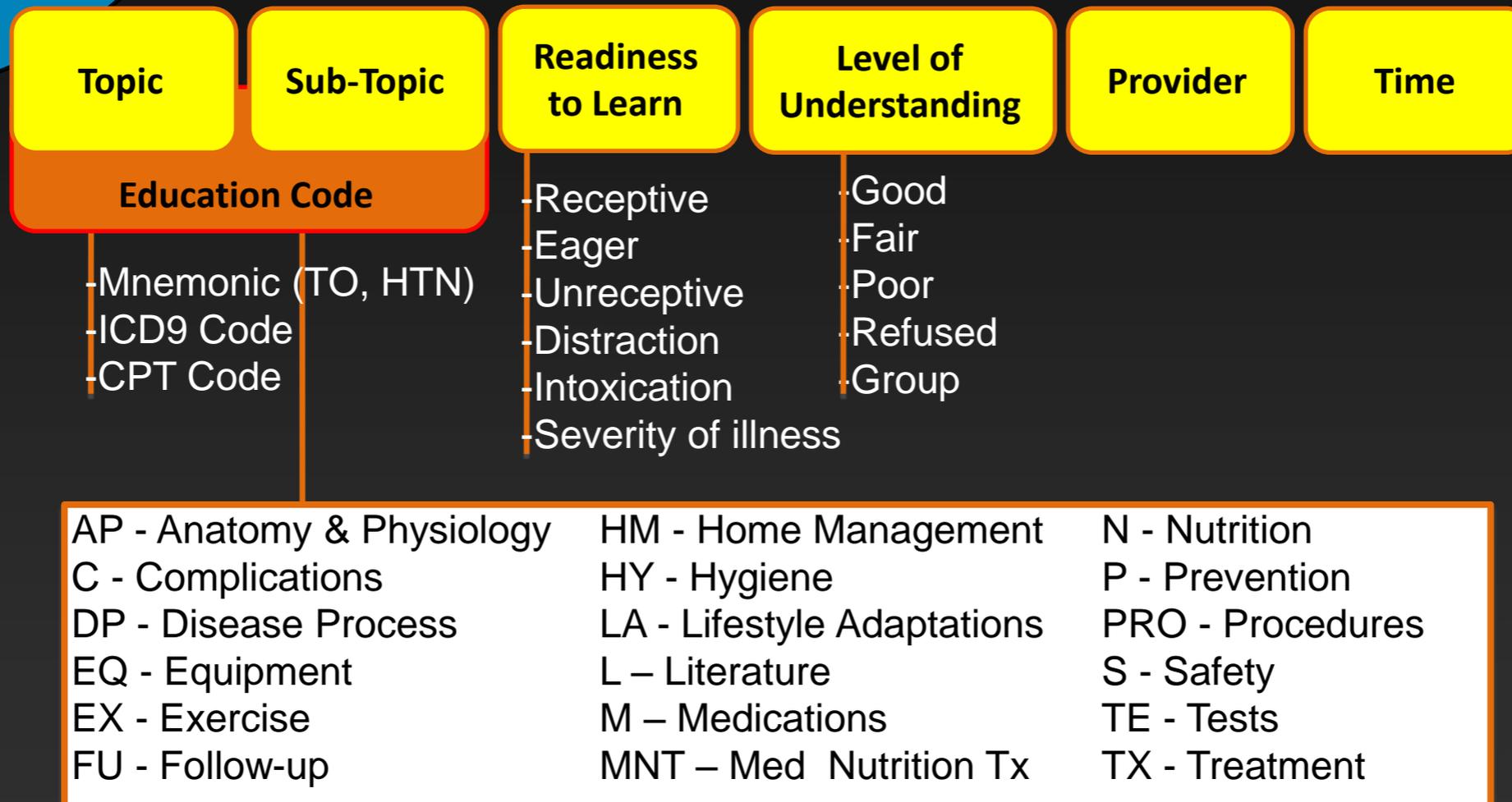
BMI Calculation

- CRS calculates BMI at the time the report is run, using NHANES II.
 - Age **19 through 50**, height and weight must be recorded within **last 5 years**, not required to be on the same day.
 - Age **over 50**, height and weight within **last 2 years** not required to be recorded on same day.

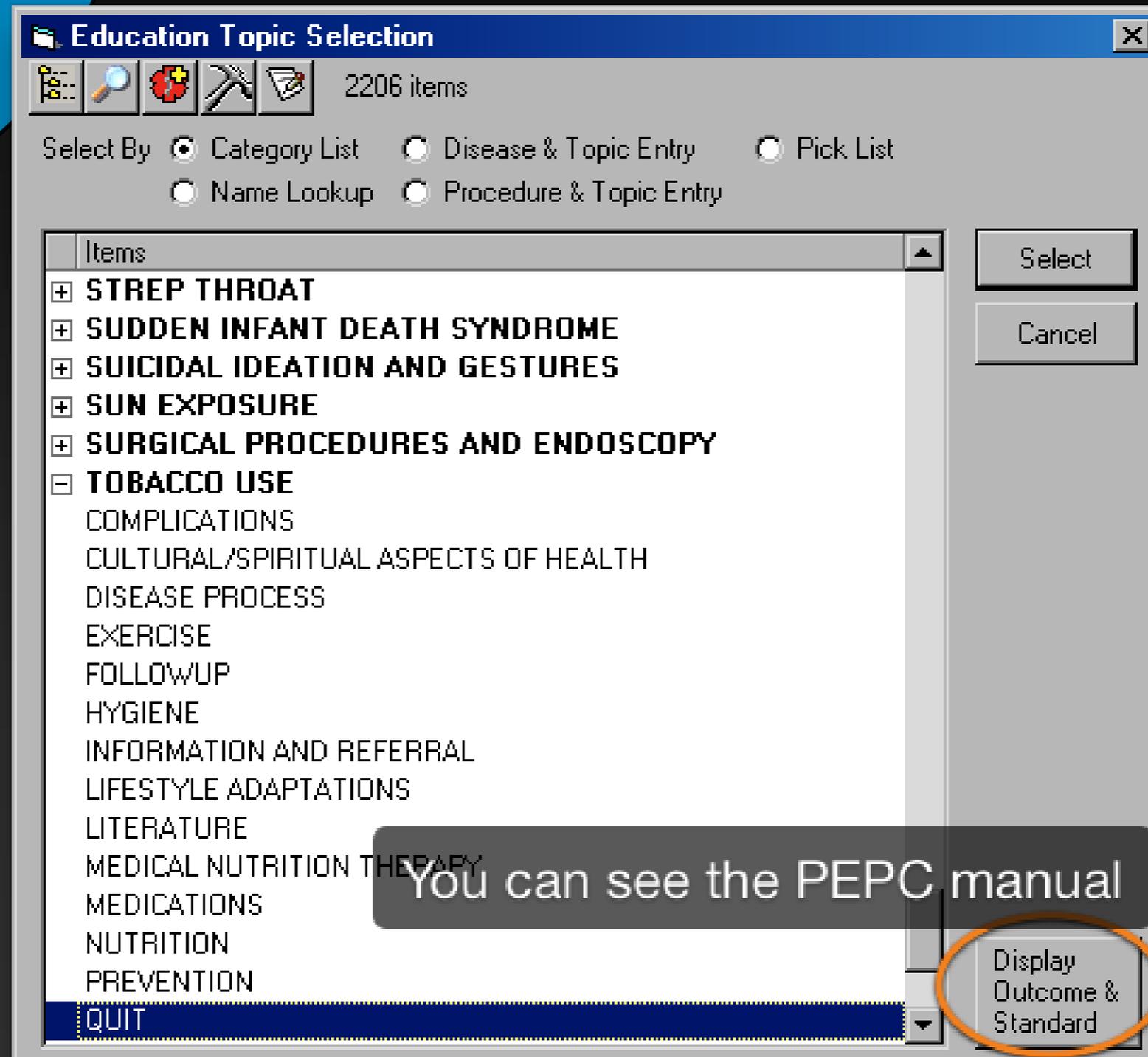
Lifestyle Counseling

- **Medical Nutrition Therapy**
 - CPT 97802–97804, G0270, G0271
 - Primary or secondary provider codes 07, 29, 97, 99
 - Clinic Codes 67 (dietary) or 36 (WIC)
- **Nutrition education:**
 - POV V65.3 dietary surveillance and counseling
 - Patient education codes ending “-N” (Nutrition) or “-MNT” or containing V65.3 (or old code “-DT” (Diet))
- **Exercise education:**
 - POV V65.41 exercise counseling
 - Patient education codes ending “-EX” (Exercise) or containing V65.41
- **Related exercise and nutrition education:**
 - Patient education codes ending “-LA” (lifestyle adaptation) or containing “OBS-” (obesity) or 278.00 or 278.01.

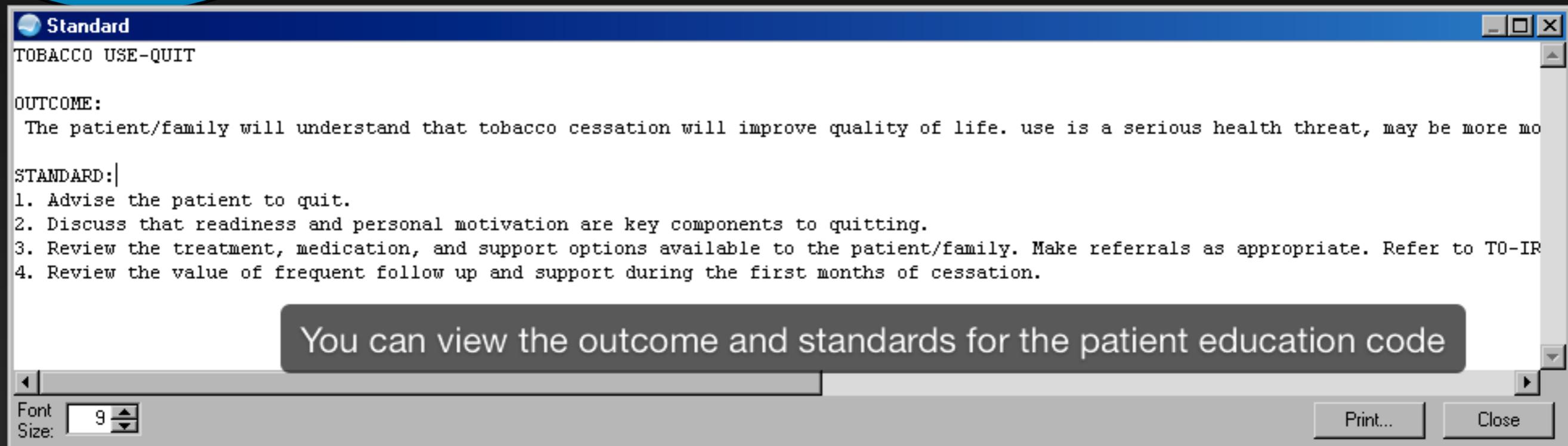
Patient Education Codes



Adding Patient Education



Outcome and Standards



The screenshot shows a software window titled "Standard" with a blue header bar. The main content area displays the following text:

TOBACCO USE-QUIT

OUTCOME:
The patient/family will understand that tobacco cessation will improve quality of life. use is a serious health threat, may be more mo

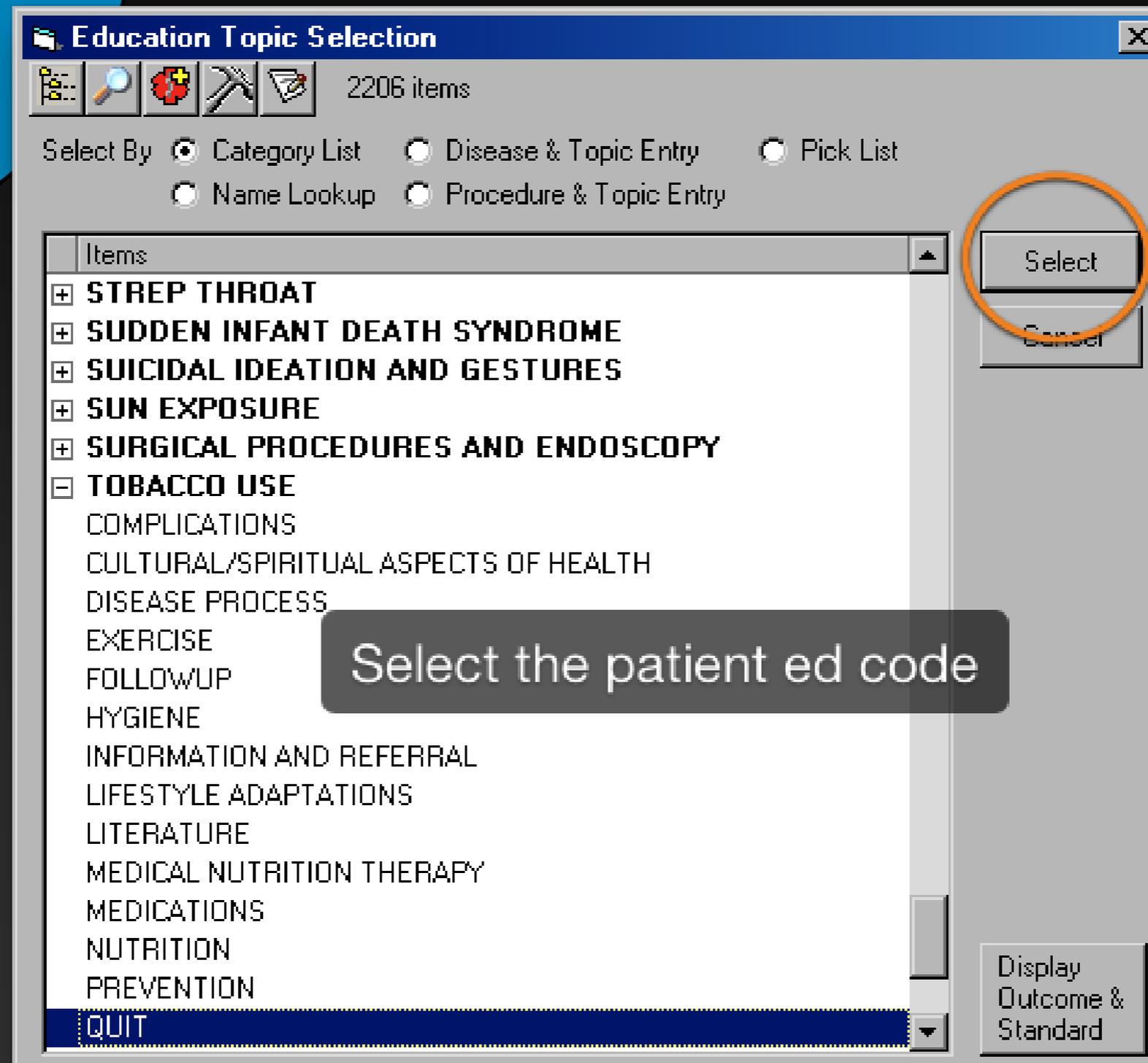
STANDARD:|

1. Advise the patient to quit.
2. Discuss that readiness and personal motivation are key components to quitting.
3. Review the treatment, medication, and support options available to the patient/family. Make referrals as appropriate. Refer to T0-IR
4. Review the value of frequent follow up and support during the first months of cessation.

A dark grey callout box with white text is overlaid on the bottom right of the window, stating: "You can view the outcome and standards for the patient education code".

At the bottom left of the window, there is a "Font Size:" control set to "9". At the bottom right, there are "Print..." and "Close" buttons.

Select the code you want



Document Education

Add Patient Education Event

Education Topic: Tobacco Use-Quit
(Tobacco Use)

Type of Training: Individual Group

Comprehension Level: GOOD

Length: 5 (min)

Comment:

Provided By: LAMER, CHRISTOPHER CLAYTON

Status/Outcome: **Readiness to learn will be added soon**

Buttons: Add, Cancel, Historical, Display Outcome & Standard, Patient's Learning Health Factors

Pick Lists

Education Topic Selection [X]

2206 items

Select By Category List Disease & Topic Entry Pick List
 Name Lookup Procedure & Topic Entry

Pick Lists: Tobacco

Show All

- Tobacco Use-complica
- Tobacco Use-cultural/
- Tobacco Use-disease Process
- Tobacco Use-exercise
- Tobacco Use-followup
- Tobacco Use-hygiene
- Tobacco Use-information And Referral
- Tobacco Use-lifestyle Adaptations
- Tobacco Use-literature
- Tobacco Use-medical
- Tobacco Use-nutrition
- Tobacco Use-prevention
- Tobacco Use-quit
- Tobacco Use-safety
- Tobacco Use-secondhand Smoke
- Tobacco Use-stress Management

Type of Training Individual Group

Comprehension Level: GOOD

Length: [] (min)

OK
Cancel

Use pick lists to select multiple education codes at the same time

Info Button

File View Action

Active Only Chronic Only 180 days Print... Process... New... Check 

Action	Chronic	Outpatient Medications
		AMOXICILLIN 250MG CAP Qty: 10 for 4 days Sig: TAKE ONE (1) CAPSULE BY MOUTH EVERY 12 HOURS
		CLONIDINE 0.2MG TAB Qty: 60 for 30 days Sig: TAKE ONE (1) TABLET BY MOUTH TWICE A DAY FOR BLOOD PRESSURE
		TRIAMCINOLONE 75MCG/SPRAY INH Qty: 60 for 30 days Sig: INHALE 2 PUFFS BY MOUTH EVERY 12 HOURS SHAKE WELL
		ROSIGLITAZONE 4MG TAB Qty: 180 for 90 days Sig: TAKE ONE (1) TABLET BY MOUTH TWICE A DAY FOR DIABETES

Info Button

File	View	Action
Active Only	Chronic Only	180 days
Print...	Process...	New...
Check		
		Outpatient Medications
		AMOXICILIN Sig: TAK
	✓	CLONIDINE Sig: TAK
		TRIAMCINOLONE Sig: INH.
		ROSIGLITAZONE Sig: TAK

Rosiglitazone: MedlinePlus Drug Information

Home About MedlinePlus Site Map FAQs Contact Us

Search MedlinePlus GO

Health Topics Drugs & Supplements Videos & Cool Tools ESPAÑOL

Rosiglitazone

(roe si gli' ta zone)

Print Email

- [Why is this medication prescribed?](#)
- [How should this medicine be used?](#)
- [Other uses for this medicine](#)
- [What special precautions should I follow?](#)
- [What special dietary instructions should I follow?](#)
- [What should I do if I forget a dose?](#)
- [What side effects can this medication cause?](#)
- [What storage conditions are needed for this medicine?](#)
- [In case of emergency/overdose](#)
- [What other information should I know?](#)
- [Brand names](#)
- [Brand names of combination products](#)

Notice:

[UPDATED 02/04/2011] FDA notified healthcare professionals and patients that information on the cardiovascular risks (including heart attack) of rosiglitazone has been added to the physician labeling and patient Medication Guide. This information was first announced by FDA on September 23, 2010 as part of new restrictions for prescribing and use of this drug.

Rosiglitazone is sold as a single-ingredient product under the brand name Avandia. Rosiglitazone is also sold as a combination product under the brand name Avandamet (contains rosiglitazone and metformin) and under the brand name Avandaryl (contains rosiglitazone and glimepiride).

Info Button

File View Action

Active Only Chronic Only 180 days Print... Process... New... Check

Action	Chronic	Outpatient Medications
		AMOXICILIN Sig: TAK
	✓	CLONIDINE Sig: TAK
		TRIAMCINOLONE Sig: INH
		ROSIGLITAZONE Sig: TAK

Rosiglitazone: MedlinePlus Drug Information

Home About MedlinePlus Site Map FAQs Contact Us Search MedlinePlus GO

MedlinePlus
Trusted Health Information for You

A service of the U.S. National Library of Medicine
NIH National Institutes of Health

Add Patient Education Event

Education Topic: Medications-Literature (Medications)

Type of Training: Individual Group

Comprehension Level: GOOD

Length: 4 (min)

Comment:

Provided By: USER, SUPER

Readiness to Learn: RECEPTIVE

Status/Outcome: Goal Set Goal Met Goal Not Met

Buttons: Add, Cancel, Historical, Display Outcome & Standard, Patient's Learning Health Factors

BMI Refusals

- Refusals of a height and weight measurement include REF, NMI, and UAS and must be documented during the past year. For ages 19 and older, the height and the weight must be refused during the past year and are not required to be on the same visit.

Depression Screening

- **Depression Screening:**
 - Exam Code 36
 - POV V79.0
 - CPT 1220F
 - BHS Problem Code 14.1 (screening for depression)
 - V Measurement in PCC or BH of PHQ2 or PHQ9
- **Mood Disorder DX**
 - At least two visits in PCC or BHS during the report period with POV for: Major Depressive Disorder, Dysthymic Disorder, Depressive Disorder NOS, Bipolar I or II Disorder, Cyclothymic Disorder, Bipolar Disorder NOS, Mood Disorder Due to a General Medical Condition, Substance-induced Mood Disorder, or Mood Disorder NOS.
 - These POV codes are: 296.*, 291.89, 292.84, 293.83, 300.4, 301.13, or 311 or BHS POV 14 or 15
 - Suicide ideation: POV v62.84, BHS problem code 39 during the report period

Depression Screening

PROBLEM	FREQUENCY	RATING
a) Little interest or pleasure in doing things	Not at all	0
	Several days	1
	More than half the days	2
	Nearly every day	3
b) Feeling down, depressed, or hopeless	Not at all	0
	Several days	1
	More than half the days	2
	Nearly every day	3
Total PHQ-2 Score Range: 0-6		

SCORE	RESULT
Rating 0-2	Depression screening exam code result: NEGATIVE
Rating 3-6	Depression screening exam code result: POSITIVE

The image features a dark background with four large, faint concentric circles arranged in a 2x2 grid. In the center, the word "Discussion" is written in a light orange, sans-serif font. Surrounding the text are four sets of five curved, parallel orange lines, each set positioned between the circles of a quadrant. At the bottom of the image, there is a decorative, wavy horizontal line in a bright yellow-orange color.

Discussion

Patient's active iCare Diagnostic Tag is CVD Highest Risk

No ASA prescribed: Patient is over 30 years old and not documented as currently on ASA, Warfarin medications or any other anti-platelet therapy. Consider aspirin or alternative, if not contraindicated.

High BP: At least 2 recent BP values for this patient were greater than (>) 130/80. Consider more aggressive anti hypertensive therapy.

Treatment Recommendation: This patient has the following documented condition(s):

HTN

High BP

Consider an Ace Inhibitor or an ARB, if not contraindicated.

No LDL: Patient has no documented LDL in past year. Needs Lipid evaluation, either fasting LP or lipid profile with direct LDL.

Low HDL: On MAR 16, 2006, patient's HDL was 32. Consider therapeutic lifestyle changes and medical intervention if needed.

No EKG: Patient has no documented EKG ever. EKG should be ordered.

No Recent Nutrition Education: Discuss and document nutrition education with this patient.

Measurements

- Height:
- Weight:
- Blood Pressure:

Orders

- Ordered EKG
 - per standing order
 - per provider order
 - per provider referral
- Ordered lipid profile
 - per standing order
 - per provider order
 - per provider referral

Education

- Health Promotion Disease Prevention-Exercise education provided.
- Health Promotion Disease Prevention-Nutrition education provided.

Tobacco use and exposure

- Tobacco Use Assessment --
- Tobacco Exposure Assessment --

<<< View Allergies, Medications and Problems >>>

* Indicates a Required Field

Numerators

- Patients with BP value documented at least twice in prior two years.
- Patients with LDL completed in past five years, regardless of result.
- Patients who have been screened for tobacco use during the report period.
- BMI Available: Patients for whom a BMI could be calculated.
- Lifestyle Counseling: Patients who have received any lifestyle adaptation counseling, including medical nutrition therapy, or nutrition, exercise or other lifestyle education during the current report period.
- GPRA: Patients with comprehensive CVD assessment, defined as having BP, LDL, and tobacco use assessed, BMI calculated and lifestyle counseling.
- Refusal of BMI: Patients who refused a height or weight measurement and for whom a BMI could not be calculated.
- Patients screened for depression or diagnosed with a mood disorder at any time during the report period.