

PCMH 3: Population Health Management

Element 3B: Clinical Data

Factor 1: An up-to-date problem list with current and active diagnoses for more than 80 percent of patients

The patient's problem list can be found on the medical summary screen within PCC EHR. From here PCC EHR users can add, remove, or rearrange problems.

Problem List				
Status	Problem	Problem Note	Onset	Resolved
Active	Obesity Exogenous (278.00)			
Active	Asthma Mild Persist (493.00)			
Resolved	Urinary Tract Infection (599.0)		04/01/09	04/12/09

Each problem includes a diagnosis description (from SNOMED-CT, or ICD-9 for pre-2014 Problems) and a Resolved/Active/Inactive status. There are also optional fields for Problem Note, Onset date, and Resolved date.

If you wish to view active, inactive, and/or resolved problems, you can use the Display filter menu to change which problem statuses should be visible. PCC EHR will remember your preferences across all charts.

Problem List	Modified 02/28/12	Display: Active ☐ All Statuses ☒ Active ☐ Inactive ☐ Resolved
Status	Problem	Problem Note
Active	Obesity Exogenous (278.00)	
Active	Asthma Mild Persist (493.00)	

You can add a problem while charting the diagnosis during a visit:

Sick - Bright Futures	Pebbles Flintstone	10 years	12/01/01	F
Diagnoses				
☒ Otitis Media (382.9)				
sample note for today's chart note				
☒ Add to Problem List				
Onset:		12/23/11	Problem Note: sample note for problem list	
☐ Allergy Eggs (V15.02)				

You can also add a new problem on the Medical Summary screen by clicking in a blank field. You can type a few letters and PCC EHR will search through your practice's Favorites list.

Problem List			
	Status	Problem	Problem Note
	Active	Obesity Exogenous (278.00)	
	Active	Asthma Mild Persist (493.00)	
	Resolved	Urinary Tract Infection (599.0)	
	Active	Foreign	
		930.9 Foreign bdy ext ey...	
		916.7 Foreign bdy hip/le...	
		939.9 Foreign Body	
		911.6 Foreign Body Abd	

The list of available problems comes from a subset of the SNOMED-CT library. You can right-click on the field to search the entire SNOMED-CT library of diagnosis descriptions.

You can select "No Known Problems" from the drop-down list of problems in order to indicate you have reviewed the patient's history and are maintaining a problem list for them.

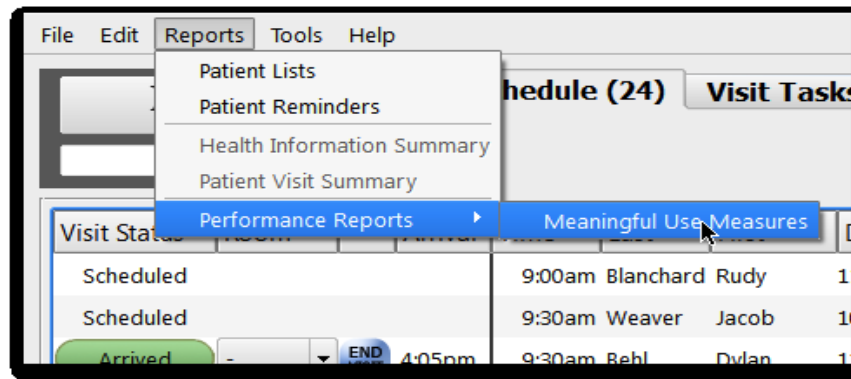
Problem List		
Status	Problem	Prob
Active	No Known Problems	

Using this indicator is recommended, especially if you are attempting to meet Meaningful Use requirements or wish to apply for the ARRA incentive. Leaving the Problem List blank is not the same as indicating "No Known Problems".

While prescribing a medication, you can attach any item from the patient's Problem List to the prescription. Use the drop-down Problem menu on the details screen while prescribing.

Quantity:	32	tablet
Refills:	none	
Directions to Pharmacist:	Substitution permitted	
Directions to Patient:	(Sample Directions)	
Associated Problem:		
Comments (For office use)	382.9 (Otitis Media Chronic) 465.9 (Upper Respiratory Infection) 493.00 (Asthma Sev Persist) 932 (Foreign Body Nose) E930.0 (Adv React Amoxicillin)	
Continue Change Drug Cancel		

PCC EHR has a Meaningful Use report that will show the percentage of patients who have an up-to-date problem list:



Meaningful Use Measures

View Meaningful Use Measures

Record Demographics

1471

patients who meet criteria

1676

qualifying patients

= 87%

Maintain Up-to-Date Problem List

1617

patients who meet criteria

1676

qualifying patients

= 96%

Active Medication List

1601

patients who meet criteria

1676

qualifying patients

= 95%

Active Medication Allergy List

1613

patients who meet criteria

1676

qualifying patients

= 96%

Record and Chart Changes in Vital Signs

1347

patients who meet criteria

1383

qualifying patients (2 years or older)

= 97%

Factor 2: Allergies, including medication allergies and adverse reactions, for more than 80 percent of patients

PCC EHR has two distinct allergy lists and they both appear on the Medical Summary screen.

Allergies

Status	Allergy	Reaction	Onset	Resolved
Active	Allergy Peanuts (V15.01)	rash		
Active	Allergy Cat Hair (477.8)	sneezing, asthma		

PCC eRx Managed Allergies Updated 11/30/11 2:31 PM

Drug	Reaction	Onset
penicillin v potassium	unspecified	

The first list contains any allergy you wish to note in the patient's chart. The second allergy list is managed through PCC eRx, the Prescriptions section of the patient's chart.

If you wish to view active, inactive, and/or resolved allergies, you can use the Display filter menu to change which problem statuses should be visible on the Allergies list. PCC EHR will remember your preferences across all charts.

Click "Edit" to add, edit, or remove allergy information on the main Allergies list.

Medication History Updated 10/27/11 11:11 AM

Active	Drug
✓	Children's Allegra Allergy (fexofenadine)

Edit **Ad**



Allergies

	Status	Allergy	Reaction	Onset	Resolved
	Active	Allergy Peanuts	rash		
	Active	Allergy Cat Hair (477.8)	sneezing, asthma		
	Active				

Click to Drag (points to drag handle icon)

Right-Click to Delete (points to Allergy Peanuts)

Enter Optional Reaction, Onset, Resolution (points to Reaction, Onset, and Resolved columns)

Visit the Prescriptions section of the patient's chart to edit PCC eRx-managed allergies.

Allergies/Adverse Reactions [\[Manage Allergies\]](#)

Drug	Reaction
penicillin v potassium	unspecified



Patient: Dino Flinstone DOB: 07/09/2006 Phone: (802) 987-6578 Last Office Visit: 02/24/2010 [Visit Today](#)

[Pharmacy:](#) No pharmacy [\[Change\]](#) [Formulary:](#) None

Allergy History

You must first enter allergy information, or Indicate 'No Known Drug Allergies (NKDA)', before prescribing medications.

Add an allergy to a medication or group.

Common Allergies:

-Select Common Allergy- [Add Common Allergy](#)

Allergy: [Find](#)

[Done with Allergies](#) [Display Full Medication Report](#)

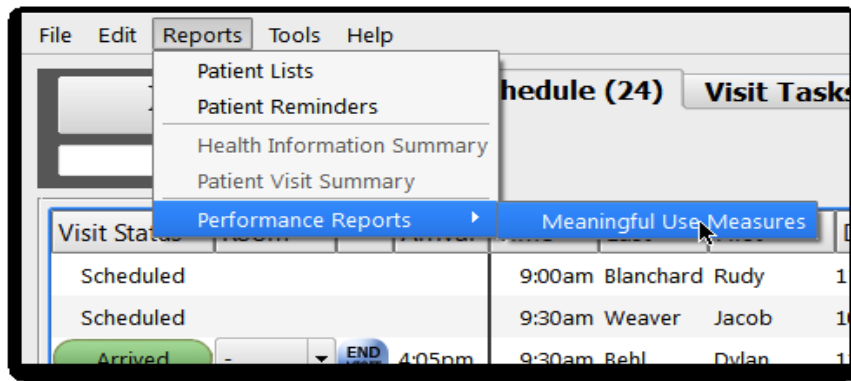
No allergy data has been entered for this patient.

click for NKDA (points to [Indicate 'No Known Drug Allergies \(NKDA\)'](#))

choose from common allergies or search (points to [Add Common Allergy](#))

If a patient has no known drug allergies, be sure to indicate this by clicking the link in PCC eRx (highlighted above). Any medication allergies (or NKDA) entered here should be added to the PCC eRx Managed allergies list and count towards the relevant Meaningful Use measure.

PCC EHR has a Meaningful Use report that will show the percentage of patients who have an active medication allergy list:



Meaningful Use Measures			
View Meaningful Use Measures			
Record Demographics			
1471	patients who meet criteria		
1676	qualifying patients		= 87%
Maintain Up-to-Date Problem List			
1617	patients who meet criteria		
1676	qualifying patients		= 96%
Active Medication List			
1601	patients who meet criteria		
1676	qualifying patients		= 95%
Active Medication Allergy List			
1613	patients who meet criteria		
1676	qualifying patients		= 96%
Record and Chart Changes in Vital Signs			
1347	patients who meet criteria		
1382	qualifying patients (2 years or older)		= 97%

Factor 3: Blood pressure, with the date of update for more than 80 percent of patients 2 years and older

Within the standard “intake” component of PCC EHR, clinicians have the opportunity to record blood pressure including the location it was taken and position (sitting, lying, standing, etc).



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PCC EHR

9-10 Yr Well - Demo II **Pebbles Flintstone 10 yrs, 1 mo 3/08/04**

Intake

Informant/Relationship

Vitals

Weight lbs oz 68th percentile_(CDC) (36.571 kg) +

Height in 4th percentile_(CDC) (127.00 cm) +

Blood Pressure systolic/diastolic Location Position +

Pebbles Flintstone... PCC# 3336

Medical Summary

Demographics

History

Visit: 04/08/14

9-10 Yr Well - Demo II

Factor 4: Height for more than 80 percent of patients 2 years and older

Factor 5: Weight for more than 80 percent of patients 2 years and older

Within the standard “Intake” component of PCC EHR, clinicians can enter a height and weight for a patient:

Sick - Bright Futures **Pebbles Flintstone 10 years 6/16/01 F**

Intake

Informant/Relationship

Chief Complaint

Vitals

Weight lbs oz +

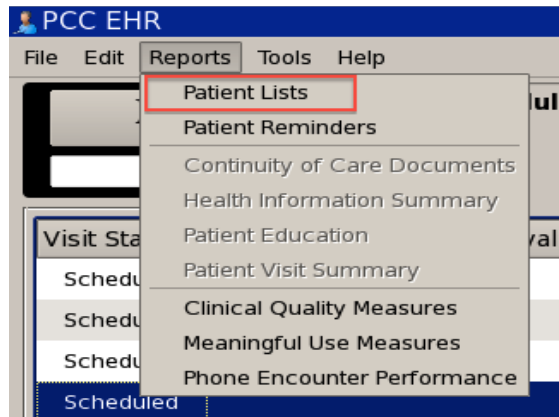
Height in +

Temperature °F Method +

BMI

[More](#)

With the “Patient Lists” reporting feature, PCC EHR has the ability to generate a count of patients who had blood pressure, height, and/or weight recorded during a specified time period. This allows you to calculate the percentage of patients having values stored for this clinical data, a report that would be useful for factors 3-5 above:



Here is an example of how to find patients who had blood pressure recorded during a specified time period. You start by entering a time period. For this example, we're looking at patients seen within the past year:

 A screenshot of the 'Edit Patient List' form. The 'Patient List Name' field contains 'Patients With Blood Pressure Recorded'. Under the 'Time Range for Criteria' section, the 'Within the past' radio button is selected, with '1' in the years field. Other options include 'From patient's birth through today', 'From start date to end date', and 'From 1 years ago through 1 years ago'.

Then you'd enter the blood pressure criteria, simply specifying "greater than 0/0" to capture patients with any blood pressure recorded:

 A screenshot of the 'Criteria' form. It shows sections for 'Demographics', 'Lab Test Results', 'Medications', 'Medication Allergies', and 'Problems/Diagnoses', each with an 'Add' button. The 'Vitals' section is expanded, showing 'Blood Pressure' criteria. The first row has 'is greater than' selected with '0 /0' in the systolic/diastolic fields. The second row has 'is equal to' selected with '/' in the fields. 'DISCARD CHANGES' and 'SAVE' buttons are at the bottom right.

The output includes a count and list of unique patients having a blood pressure recorded in the specified time period:

View Patient Lists

View Patient List

Patients With Blood Pressure Recorded

PCC Pediatric Test Associates
Generated 04/09/2014 10:51am
Time Range for Criteria: Within the past 1 years

9 Unique Patients Found

Patient	Date of Birth	Sex
Eckerd, Sally PCC# 3343	02/14/65	Female
Gray, Julie PCC# 3333	08/13/95	Female
Jenson, Astro PCC# 0	06/22/09	Male
Jenson, Elroy PCC# 0	09/28/02	Male
Kneasel, Joseph PCC# 2425	10/16/10	Male
Measure, John PCC# 3345	03/14/44	Male
Ness, Kaitlin M. PCC# 3223	06/01/93	Female
Quarry, Hope PCC# 2045	02/20/04	Female
Wanner, Rachel PCC# 1351	04/08/09	Female

Criteria Column to Include: Standard Columns Only - patients will be listed only once

Save as File **Close** **Back to Patient Lists**

You can create a similar patient count and listing based on height and weight criteria.

Factor 6: System calculates and displays BMI

When appropriate, PCC EHR will automatically calculate and display BMI based on the height and weight entered by the clinician during intake. It will also display BMI percentile based on the patient's age and CDC benchmarks:

Sick - Bright Futures **Pebbles Flintstone** **10 years** **6/16/01** **F**

Vitals

Weight	96 lbs	2 oz	89th percentile	(43.602 kg)	+
Height	55 in		57th percentile	(139.70 cm)	+
Temperature	99.9 °F	Method	+	+	
		Tympanic			

BMI **22.3** kg/m² 93rd percentile

In the same manner described above for height, weight, and blood pressure, PCC EHR can also generate lists and counts of patients having BMI recorded in a specified time period. This same functionality can be used to generate a list of patients with elevated BMI which is useful for chronic care management of obese patients.

Factor 7 - System plots and displays growth charts (length/height, weight and head circumference) and BMI percentile (0-20 years) (NA for adult practices).

Within PCC EHR, growth charts display plotted growth data, such as patient weight, height, and other vitals over time.

You can review growth charts in the Growth Charts section of the patient's chart. Click on the History button and then select "Growth Charts".

Medical Summary

History

Visit History

Immunization History

Flowsheets

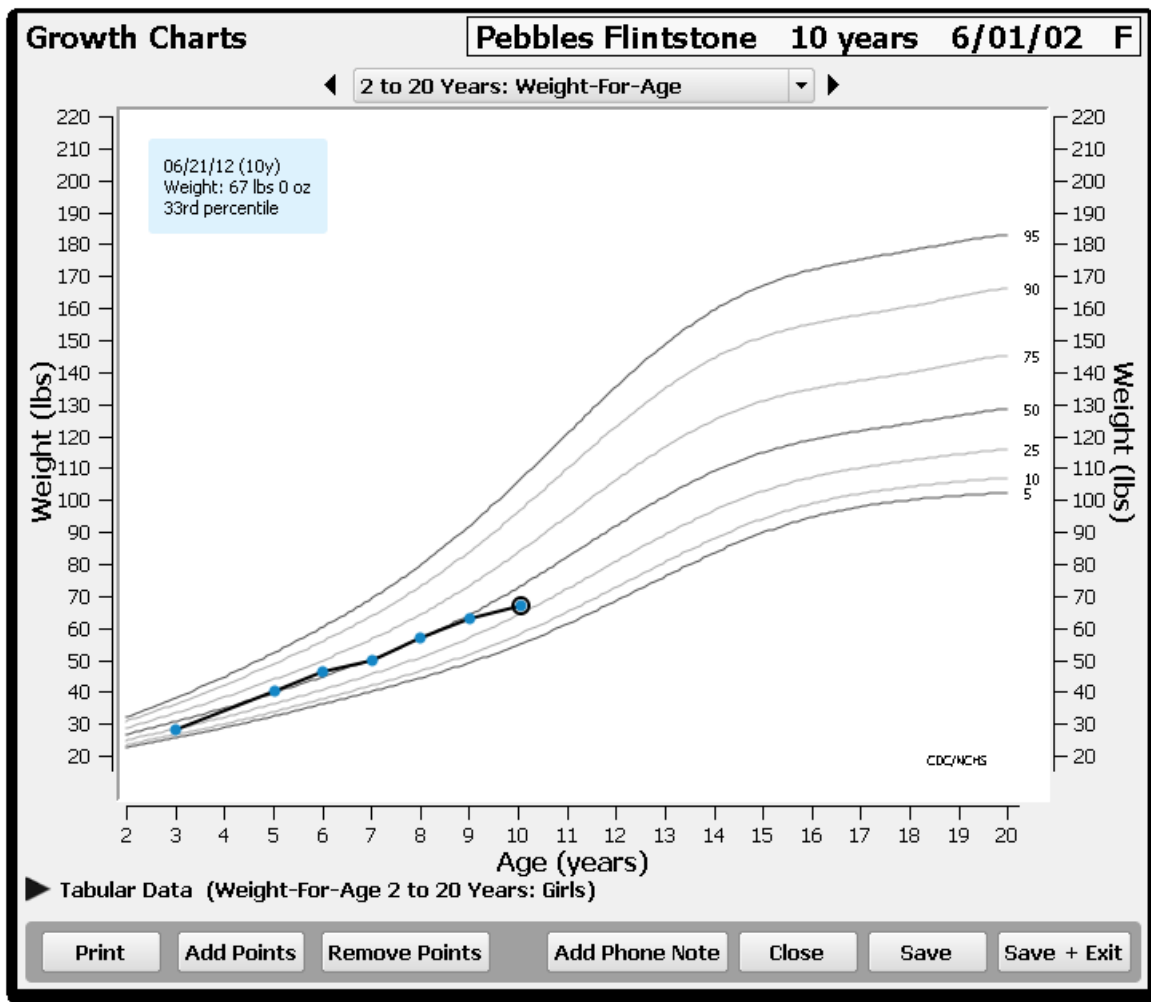
Growth Charts

Demographics

Documents

Prescriptions

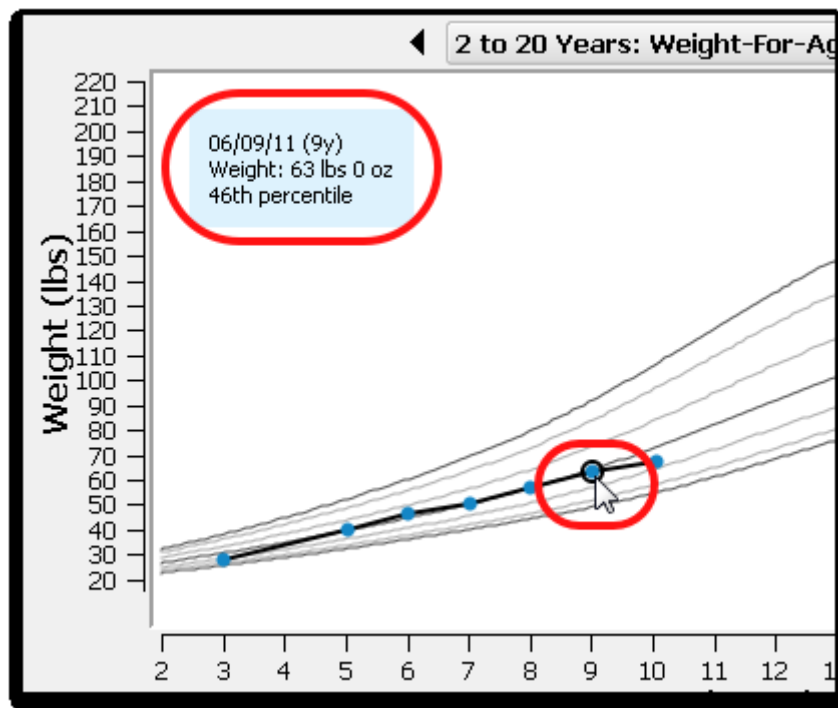




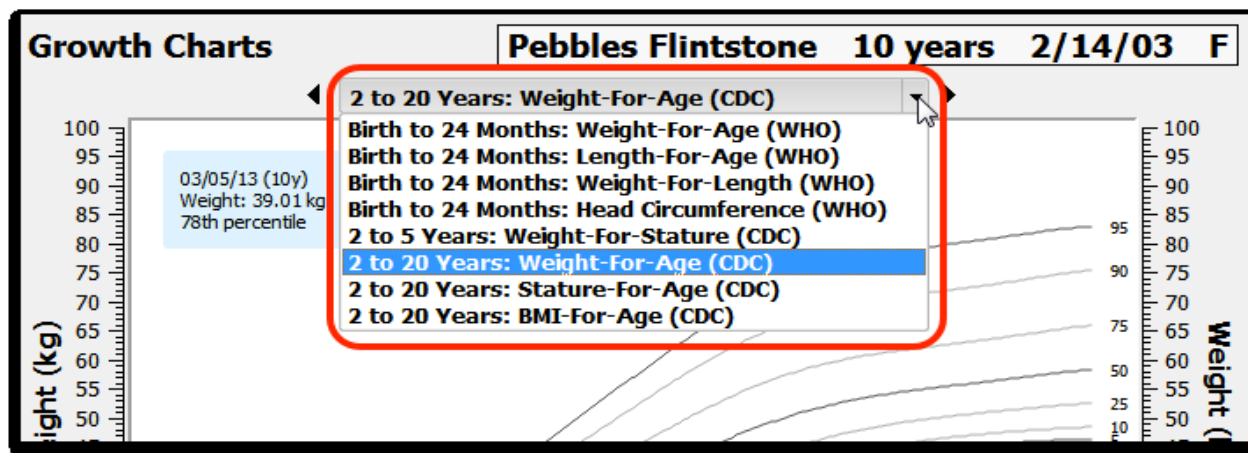
PCC EHR plots patient data on each chart and also indicates percentile rankings with gray lines. Percentile ranges come from the World Health Organization (WHO) and the Centers for Disease Control (CDC).

PCC EHR updates growth charts automatically when you enter vitals on a visit chart note. You can also click "Add Points" to add details manually.

Clicking on any point will show the relevant details and percentiles for that data point:

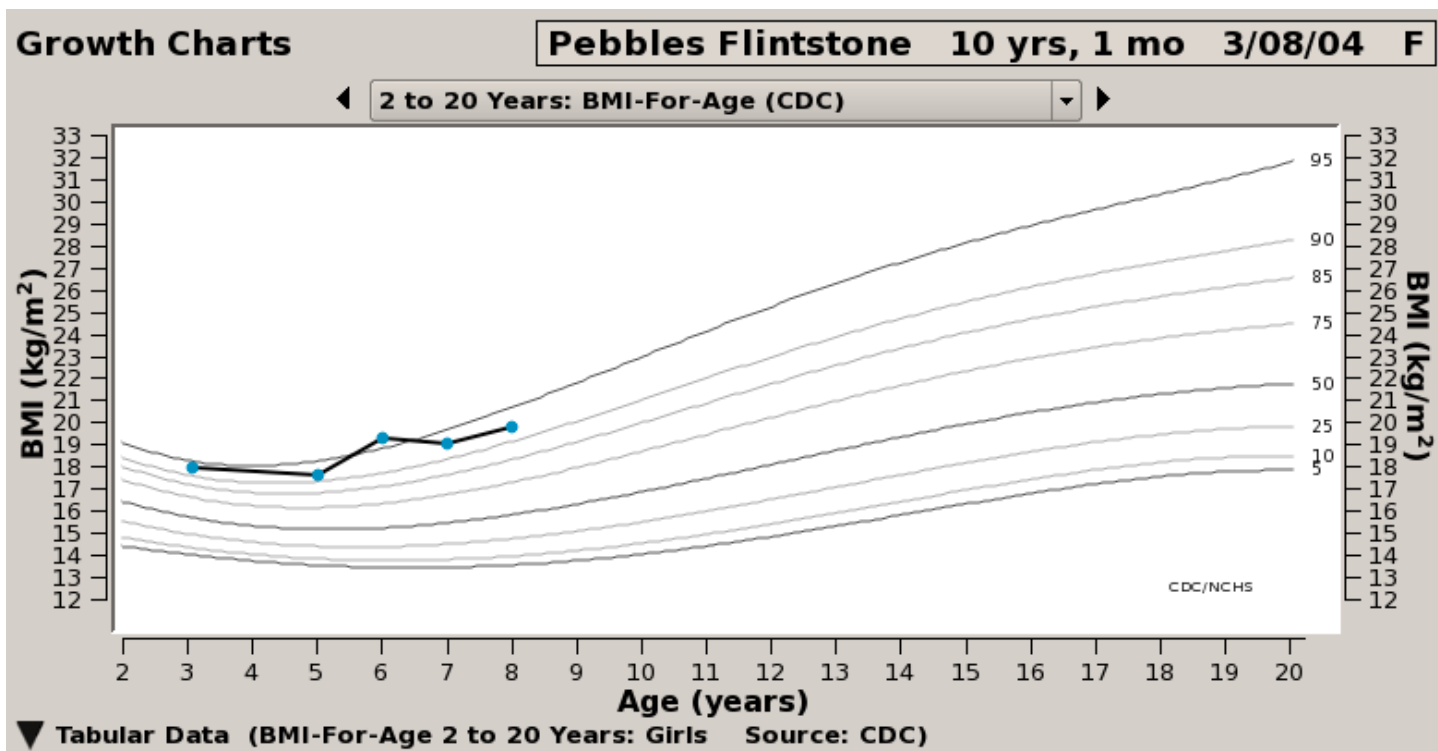


With growth charts in PCC EHR, you can select from several different comparison charts for various age ranges as shown in the screen shot below. Click on the pull-down menu or use the right and left arrow buttons to choose a different growth chart.



By default, PCC uses WHO growth chart data for patients up to age two, and uses CDC data for all patients over age two. This can be configured in the Practice Preferences. You can also use the Growth Chart Configuration tool to specify precisely which growth charts are visible in the pull-down menu.

PCC EHR automatically calculates BMI whenever the staff enters a height and a weight value for the same date. You can enter this data during a visit on a chart note or on the Growth Charts screen. The BMI-For-Age Growth chart displays plotted points for the patient's BMI percentile:



Factor 8: Status of tobacco use for patients 13 years and older for more than 80 percent of patients (NA for pediatric practices if all patients <13 years)

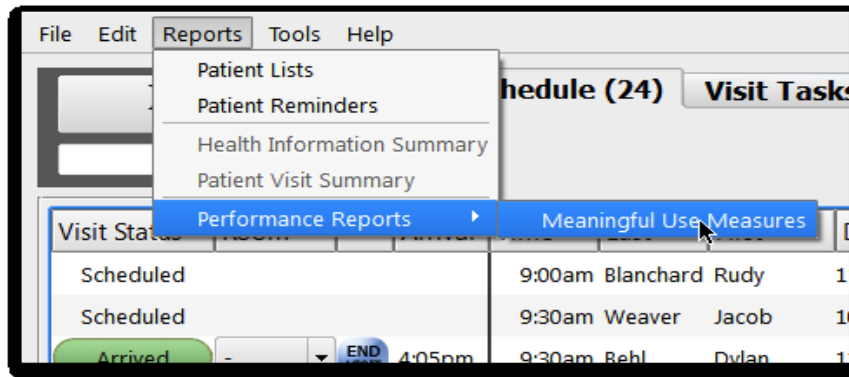
PCC EHR has a special “Smoking Status” charting component that can be added to charting protocols for patients ages 13 and older. The component uses a standard set of smoking statuses.

Smoking Status (ARRA)

select smoking status

- Never Smoker
- Current Every Day Smoker
- Current Some Day Smoker
- Former Smoker
- Heavy tobacco smoker
- Light tobacco smoker
- Smoker, Current Status Unknown
- Unknown If Ever Smoked

PCC EHR has a Meaningful Use report that will show the percentage of patients ages 13 and older seen during a date range that had smoking status recorded:



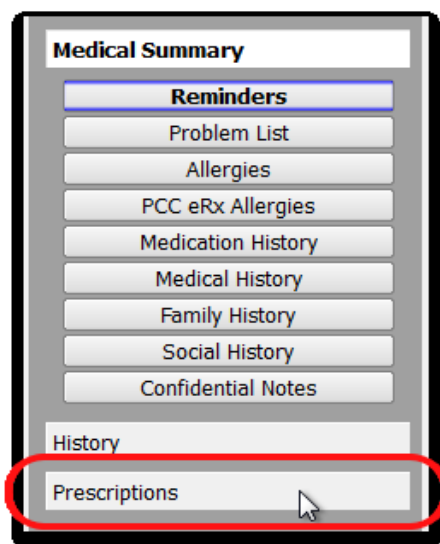
Meaningful Use Measures			
View Meaningful Use Measures			
Active Medication Allergy List			
1613	patients who meet criteria		
1676	qualifying patients		= 96%
Record and Chart Changes in Vital Signs			
1347	patients who meet criteria		
1383	qualifying patients (2 years or older)		= 97%
Record Smoking Status			
380	patients who meet criteria		
410	qualifying patients (13 years or older)		= 92%
Electronic Access			
72	patients who meet criteria		
1662	qualifying patients		= 4%
Provide Clinical Summaries to Patients for Each Visit			
2966	office visits that meet criteria		
3049	qualifying office visits		= 97%
		Save as PDF	Print
		Close	

Factor 9: List of prescription medications with the date of updates for more than 80 percent of patients

PCC EHR includes a list of prescription medications (including date of updates) in the patient's Medical Summary:

Medication History Updated 01/11/10 2:31 PM			
Active	Drug	Formula	Details
✓	Augmentin (amoxicillin-pot clavulanate)	Suspension for Reconstitution 125-31.25 mg/5 mL	Take 1 teaspoon by mouth twice a day Dsp. 140 ml (last 01/11/10) by Admin Admin
✓	Erythromycin (erythromycin)	Tablet 250 mg	Take 1 tablet by mouth once a day Dsp. 21 tablet by Admin Admin

You can visit the Prescriptions section of a patient's chart to view a more detailed medication history and other tools.



Prescriptions
Pebbles Flinstone 11 yrs, 2 mos 10/21/98 F

Patient: Pebbles Flinstone
DOB: 10/21/1998
Phone: (802) 987-6578
Last Office Visit: 01/13/2010
[Visit Today](#)

Pharmacy:
RITE AID-321 MAIN ST. - 321 MAIN STREET, WINOOSKI, VT
[\[View\]](#)
[\[Change\]](#)
Formulary: None

Prescribe a Medication

Select Medication for Prescription

Name:

[Find](#)
[Category Search](#)

Favorites:
-Choose a Favorite-
[Use](#)
[View/Edit](#)

Medications
[\[Manage Medications\]](#)

View:
[\[Detail\]](#)
[\[Mini\]](#)
[\[PBM/Pharmacy History\]](#)
Actions:
[\[Renew Selected\]](#)
[\[Select All\]](#)
[\[Select None\]](#)
[\[Check Interactions for Selected\]](#)

☒ **Augmentin (amoxicillin-pot clavulanate)** Suspension for Reconstitution 125-31.25 mg/5 mL : 1 teaspoon by mouth twice a day Disp. 140 NR (last: 01/11/2010) by PCDo
Actions:
[\[Renew\]](#)
[\[Prescribe\]](#)
[\[Stop\]](#)
[\[Copy To Patient\]](#)

☒ **erythromycin** Tablet 250 mg : 1 tablet by mouth once a day Disp. 21 NR by PCDo
Actions:
[\[Renew\]](#)
[\[Prescribe\]](#)
[\[Stop\]](#)

Pending prescriptions for this patient:
[\(Show All\)](#)

None.

Allergies/Adverse Reactions
[\[Manage Allergies\]](#)

No known drug allergies (NKDA) .

Problems
[\[Manage Problems\]](#)

Code	Description
465.9	Upper Respiratory Infection
477.8	Allergy Cat Hair
493.00	Asthma Sev Persist
932	Foreign Body Nose

Active medications are listed in the patient Medications list on the Prescriptions screen. If a patient has no medications, you must select "Patient Takes No Medications" in order to indicate you have reviewed the patient's active medications. Either entering medications or selecting "Patient Takes No Medications" will increase your reporting percentage for the "Active Medication List" Meaningful Use measure.

Medications
[\[Manage Medications\]](#)

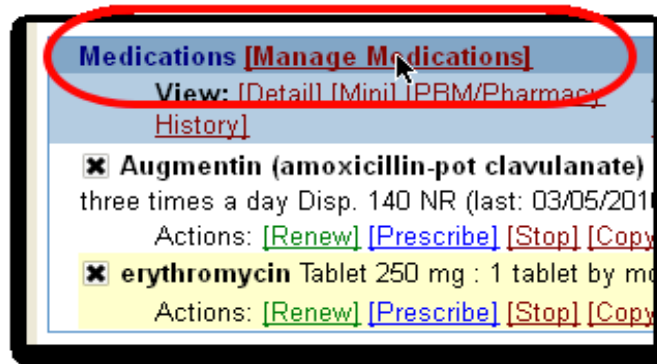
View:
[\[Detail\]](#)
[\[Mini\]](#)
[\[Medication History\]](#)
Actions:

Medication History is:
☐ Unknown or Incomplete
☒ **Patient Takes No Medications**
[\[Medications Reviewed\]](#)

None.

Once you select "Patient Takes No Medications", that status will appear on the patient's Medical Summary screen and in patient reports, like the Health Information Summary report.

For even more details, and to review old or "stopped" medications, click "Manage Medications", and then click to show historical medications.



Patient: Pebbles Flinstone **DOB:** 12/07/1998 **Phone:** (802) 987-6578 **Last Office Visit:** 03/03/2010 [Visit Today](#)

Pharmacy: [RITE AID-321 MAIN ST. - 321 MAIN STREET, WINOOSKI, VT](#) [\[View\]](#) [\[Change\]](#) **Formulary:** None

Patient Medication Report
This screen is for viewing and modifying the patient's medication list, and adding medications that have been prescribed previously or elsewhere.
Add a medication: [Find](#)

Favorites: amoxicillin Capsule 250 mg 1 single dose #14 [Add](#)

[View/Update](#)

Medication List for Pebbles Flinstone (DOB: 12/07/1998)
[Display Detailed Medication Report](#)

Drug	Formula	Sig	Qty	Notes	Rfl(s)	Start Date	Last Fill Date	Action
Augmentin (amoxicillin-pot clavulanate)	Suspension for Reconstitution 125-31.25 mg/5 mL	1 teaspoon by mouth three times a day	140 ml		No Rfl	03/05/2010	03/05/2010	Delete Modify Stop
erythromycin	Tablet 250 mg	1 tablet by mouth three times a day	21 tablet		No Rfl	03/05/2010	03/05/2010	Delete Modify Stop

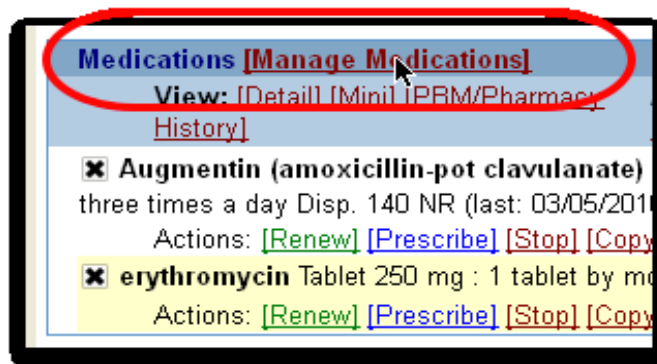
[Show Medication History](#)



Medication List for Pebbles Flinstone (DOB: 12/07/1998)								
Display Detailed Medication Report								
Drug	Formula	Sig	Qty	Notes	Rfl(s)	Start Date	Last Fill Date	Action
Augmentin (amoxicillin-pot clavulanate)	Suspension for Reconstitution 125-31.25 mg/5 mL	1 teaspoon by mouth three times a day	140 ml		No Rfl	03/05/2010	03/05/2010	Delete Modify Stop
erythromycin	Tablet 250 mg	1 tablet by mouth three times a day	21 tablet		No Rfl	03/05/2010	03/05/2010	Delete Modify Stop
Hide Medication History								
Drug	Formula	Sig	Qty	Started	Stopped	Reason Stopped	Action	
aspirin	Tablet, Chewable 81 mg	1 tablet by mouth	tablet	02/01/2006	04/01/2006		Delete Restart Prescribe Renew	

The Manage Medications list displays more details about the patient medication history.

PCC EHR also allows you to add a medication to a patient's record without creating a prescription. For example, you may give a patient a sample of a medication, the medication you recommend (or that the patient reports) may not require a prescription, or you may learn of past medication history that you wish to note in the patient's record. In the prescription section of the patient's chart, click the "Manage Medications" link to view the patient's complete medication record:



Use the "Add a Medication" find field or the Favorites list to select a medication for the patient's record:

Patient Medication Report	
This screen is for viewing and modifying the patient's medication list, and adding medications that have been prescribed previously or elsewhere.	
Add a medication:	
	Find
Favorites:	amoxicillin Capsule 250 mg 1 single dose #14 Add
View/Update	

After finding and selecting a medication, enter any additional relevant details. All details are optional, but a start and stop date will make the patient's medication history easier to understand.

Enter Details - Oral/Topical Drugs

Provider: Williams, Mark

Drug: amoxicillin Suspension for Reconstitution 250 mg/5 mL

Sig: Take

Duration:

Quantity:

Refills: none

Directions to Pharmacist: Substitution permitted

Directions to Patient:

Patient Weight: 31.82 kg Show Dose Calculator

Date Started: [today]

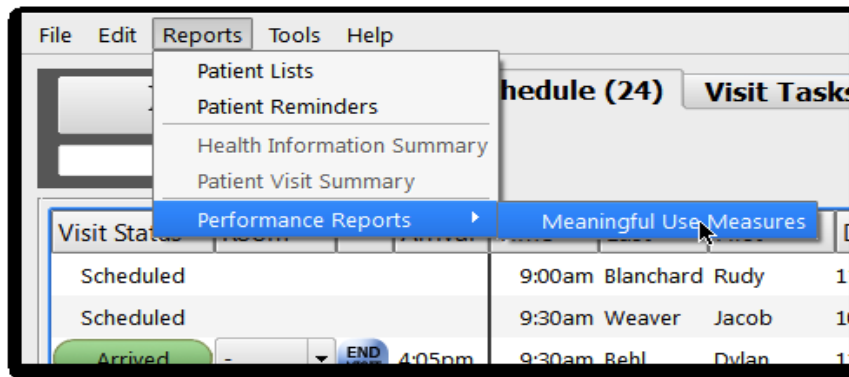
Date Last Filled: [today]

Date Stopped: [today]

Comments (For office use only; will not appear on prescription):

Continue Change Drug Cancel

PCC EHR has a Meaningful Use report that will show the percentage of patients who have a medication or an indication that the patient is currently not prescribed any medications:



View Meaningful Use Measures

Record Demographics

1471	patients who meet criteria	= 87%
1676	qualifying patients	

Maintain Up-to-Date Problem List

1617	patients who meet criteria	= 96%
1676	qualifying patients	

Active Medication List

1601	patients who meet criteria	= 95%
1676	qualifying patients	

Active Medication Allergy List

1613	patients who meet criteria	= 96%
1676	qualifying patients	

Record and Chart Changes in Vital Signs

1347	patients who meet criteria	= 97%
1382	qualifying patients (2 years or older)	

