



Pediatric Oral Health in Primary Care Practices: Measuring and Tracking Oral Health Services

Quality improvement is an effective way to improve patient care. In the primary care setting, there are multiple opportunities to develop, test and optimize processes. Quality improvement should be a continual and integral process.

The document is a guide for practices focusing on the integration of early pediatric oral health in primary care practices. This guide outlines four general areas for consideration:

1. Defining an Aim Statement
2. Identifying Measures and Targets
3. Creating a Measurement Plan/Data Collection
4. Demonstrating Impact/Reporting

1. Defining an Aim Statement

Aim statements should easily answer the question “What are we trying to accomplish?”. Aim statements should be SMART = specific, measurable, achievable, realistic and timely. They should also provide value to your patients.

Specific	Describe on one, precise goal, or intent, to be achieved
Measurable	Are you going to increase or decrease a measure and over what time frame. (Start your aim with increase/decrease and then describe what is going to be measured)
Achievable	Ensure that your practice can overcome barriers in achieving the measured results
Realistic	Consider resources available or competing priorities
Timely	Include specific target dates

Consider the following early pediatric oral health aim statements:

- Increase the percent of children ages 12 through 35 months who receive an oral evaluation from x to y by date
- Increase application of fluoride varnish for children ages 12 through 47 months from x to y by date

2. Identifying Measures and Targets

Performance measures can be used as indicators of change that provide feedback during a quality improvement initiative. By breaking your Aim Statement into smaller, concrete measures and targets, it will form a link between strategy and clinical workflow.

The most common quality performance measures used in healthcare setting are:

Outcome Measures	Evaluate patient health as a result of the care received
Process Measures	Determines if the services provided to patients are consistent with routine clinical care

Common measures include:

- Numerator: The number of patients that meet the criteria
- Denominator: The number of patients that are considered eligible
- Exclusion: The number of specific patients who should be subtracted from the denominator

Once you have identified measures, the next step is to set performance **targets**. Targets help to provide a clear sense of what to aim for.

Consider monitoring the following process measures and targets for early pediatric oral health:

Measures	Suggested Target
Well Child Visit: Percent of well child visits in a specific month/quarter for children ages 12 through 47 months (or other appropriate age range) that have an oral health related/dental procedure code associated with the visit (e.g., D1206 or D0145 or 99188).	50%
One Year Olds: Percent of children ages 12 through 23 months who have received at least one fluoride varnish.	80% or higher
4 by 4: Percent of children who receive at least four fluoride varnish applications by age four years.	45%

3. Creating a Measurement Plan/Data Collection

After selecting appropriate measures, it is important to identify the data source, frequency of collection and distribution of data. It is also important to determine who will be responsible for measurement and how the measures will be shared with the team, leadership and the organization.

Data Collection Plan:

Data Sources

How are you going to collect your data? Data sources can include:

- Hospital's information technology (IT) system or Electronic Health Record (EHR)
 - EHR data collection may involve meeting with Information System staff to develop reports and schedule of data extraction

- Sample chart review
 - If doing manual chart reviews, keep information required brief, focused and easy to locate within the chart

Sample Plan:

How much data should be collected?

- Full population
- By Primary Payer Type (MaineCare, Commercial, Self-Pay)

How often are you going to collect the data?

- Weekly
- Monthly
- Quarterly
- Yearly

When developing a data plan, specify your measure, especially if requesting a report be run through an EHR. This can be done in a few simple steps.

Step	Example
1. Define the measure	Percentage of children, ages 12 through 47 months, who have received fluoride varnish in the primary care setting
2. Define eligibility in the patient population	Patients ages 12 through 47 months who have had at least 1 visit in the primary care setting during a specified time
3. Set the denominator	Patients ages 12 through 47 months with a visit during a specified time
4. Set the numerator	Patients who have had fluoride varnish applied
5. Divide the numerator by the denominator to get the performance percentage	(# of patients, ages 12 through 47 months old who have had fluoride varnish applied) divided by (# of patients ages 12 through 47 months old who have had a primary care visit during a specified time)

4. Demonstrating Impact/Reporting

Analyzing data over time, through a graphic display, will make it easy to assess the impact of your quality improvement initiative.

Tips when analyzing data:

- Plot data over a specified time period
- Track a few, key measures
- Report and display timely data

Sample Templates

Attached, please find a Microsoft Excel template that you can use to monitor early pediatric oral health in your practice/system. These template spreadsheets can be saved and populated with your data. They will automatically display charts that reflect performance progress.

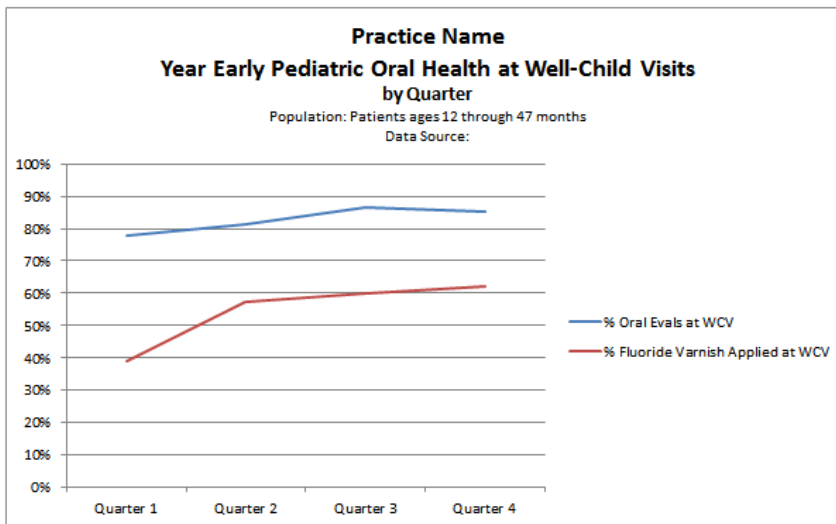
Examples of these templates:

Sample 1:

Sample 1 displays a line graph, by quarter, of early pediatric oral health provided at well-child visits. This line graph can be replicated for individual providers if data are available.

*Green and red dots indicate if a percentage does not meet or meets and exceeds the specified target. This is done through MS Excel conditional formatting and can be edited to reflect your individual measure targets.

Practice Name						
Early Pediatric Oral Health at Well-Child Visits						
Population: Patients ages 12 through 47 months						
Source:						
	Target	Quarter 1	Quarter 2	Quarter 3	Quarter 4	
Number of Well Child Visits		113	133	165	158	
Oral Evaluation Completed		88	108	143	135	
% Oral Evals at WCV	75% ●	78% ●	81% ●	87% ●	85% ●	
Fluoride Varnish		44	76	99	98	
% Fluoride Varnish Applied at WCV	50% ●	39% ●	57% ●	60% ●	62% ●	

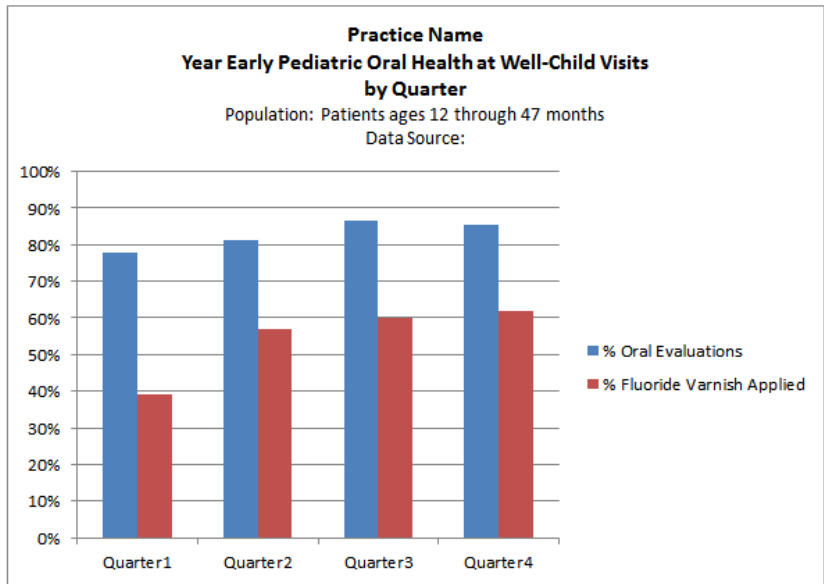


Sample 2:

Sample 2 displays a bar graph, by quarter, of early pediatric oral health provided at well-child visits. This bar graph can be replicated for individual providers if data are available.

*Green and red dots indicate if a percentage does not meet or meets and exceeds the specified target. This is done through MS Excel conditional formatting, and can be edited to reflect your individual measure targets.

Practice Name Early Pediatric Oral Health at Well-Child Visits Population: Patients ages 12 through 47 months Source:					
			Target 75%		Target 50%
	Well Child Visits	Oral Evals Completed	% Oral Evaluations	Fluoride Varnish Applied	% Fluoride Varnish Applied
Quarter1	113	88	78%	44	39%
Quarter2	133	108	81%	76	57%
Quarter3	165	143	87%	99	60%
Quarter4	158	135	85%	98	62%



Sample 3:

Sample 3 displays a snapshot of the entire practice’s performance on one chart. The first row provides your practice’s overall performance, with individual provider performance listed on rows below.

Line graphs can be populated by entering practice or provider level data into the chart to the left of the line chart.

*Green and red dots indicate if a percentage does not meet or meets and exceeds the specified target. This is done through MS Excel conditional formatting, and can be edited to reflect your individual measure targets.

Practice Name																				
Early Pediatric Oral Health at Well-Child Visits																				
Population: Patients ages 12 through 47 months																				
Source:																				
	Quarter 1					Quarter 2					Quarter 3					Quarter 4				
	Well Child Visits		Oral Evaluation		Fluoride Varnish Applied	Well Child Visits		Oral Evaluation		Fluoride Varnish Applied	Well Child Visits		Oral Evaluation		Fluoride Varnish Applied	Well Child Visits		Oral Evaluation		Fluoride Varnish Applied
Targets			75.0%		50.0%			75.0%		50.0%			75.0%		50.0%			75.0%		50.0%
	Total Number	Total Number	Percent	Total Number	Percent	Total Number	Total Number	Percent	Total Number	Percent	Total Number	Total Number	Percent	Total Number	Percent	Total Number	Total Number	Percent	Total Number	Percent
Peds Practice Name	102	65	63.7%	44	43.1%	157	89	56.7%	60	38.2%	182	121	66.5%	73	60.3%	160	118	73.8%	78	48.8%
Provider A	35	20	57.1%	13	37.1%	60	40	66.7%	28	46.7%	58	38	65.5%	27	71.1%	55	41	74.5%	33	60.0%
Provider B	51	35	68.6%	23	45.1%	72	35	48.6%	23	31.9%	88	62	70.5%	38	61.3%	76	64	84.2%	42	55.3%
Provider C	16	10	62.5%	8	50.0%	25	14	56.0%	9	36.0%	36	21	58.3%	8	38.1%	29	13	44.8%	3	10.3%

Peds Practice Name			
	Oral Evals	Fluoride Varnish Applied	
Q1	63.7%	43.1%	
Q2	56.7%	38.2%	
Q3	66.5%	66.5%	
Q4	73.8%	73.8%	

