Elimination of Dental Disease-Demonstration Project

ERIE FAMILY HEALTH CENTER
DR. LISA KEARNEY, DDS
CLINICAL DIRECTOR OF ORAL HEALTH
Erie Family Health Center

- Founded in 1957
- FQHC in Chicago, Illinois
- Provide comprehensive care to 45,000 patients annually at 12 sites
  - 6 primary health care centers
  - One adolescent-only health center
  - 5 school based health centers
  - 3 integrated dental centers serving 8,700 patients

At Erie Family Health Center, we believe health care is a right, not a privilege. Our mission is to provide accessible, affordable and high quality health care for those in need.
Erie Family Health Center Locations

Chicago

Evanston/Skokie
Erie Family Health Center
Who we treat at Erie Family Health Center

- Mostly children (~65-70% of all dental patients)
- Pregnant women (Erie medical patients)
- Diabetic adults (Erie medical patients)
- LHL patients (HIV/AIDS patients)
- Nuclear family members (parent/guardians of kids we see and are Erie medical patients)
- Erie employees
- Emergency treatment for all Erie medical patients

“Every human being has a right to the best health care that modern medicine can provide.”
Lee Francis, MD. MPH
President and CEO
Creating CRA for Erie - PDSAs

- Research and develop caries risk assessment for Erie for 0-5 year olds
- Discuss CRA with providers in dental provider meeting – make modifications as needed
- Entered necessary dummy codes in Dentrix for tracking
- Discuss new CRA with all dental staff
- PDSA cycles to test
  - Started with one patient, morning session - new patients under 5 only, all day, full week, all recall and new patients under 5
  - Spread to 2nd provider at HP clinic – changed to electronic format
  - Started tracking high, moderate and low risk patients
  - Created multicodes for high, moderate and low risk recall and new patients
  - Implementation to all dental providers at HP location
  - Spread to other clinics – AP (now EFA) and Evanston/Skokie
  - Repeated process for CRA for 6-18 year olds
Examples of Caries Risk Assessments

- Navy Caries Risk Assessment Tool

- American Dental Association
  - [http://www.ada.org](http://www.ada.org) – Caries risk assessment

- Carifree
  - [http://www.carifree.com](http://www.carifree.com)

- Cambra
  - [http://www.eda.org](http://www.eda.org)

All include risk factors, protective factors, and clinical findings
### Caries Risk Assessment for 0-5 year old

<table>
<thead>
<tr>
<th>Disease Indicators</th>
<th>At risk</th>
<th>Low risk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patient has visible decay</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>Patient has had active decay in past 12 months</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>Patient has white spot lesions</td>
<td>yes</td>
<td>no</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Risk Factors</th>
<th>At risk</th>
<th>Low risk</th>
</tr>
</thead>
<tbody>
<tr>
<td>plaque</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>bleeding gingiva</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>sleeps with beverage other than water</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>milk, juice, soft drink, energy drink consumption</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>frequently during day</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>only with meals</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>nurses on demand</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>snacking habits (between meals)</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>&gt; or = 3 x day</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>&lt; 2 x day</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>inadequate salivary flow</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>appliances present</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>medications</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>developmental problems</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>no dental home - previous episodic care</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>primary care giver has had active decay in past 12 month</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>(if primary care giver does not know circle yes)</td>
<td>yes</td>
<td>no</td>
</tr>
</tbody>
</table>

Patient overall risk - circle one: High Moderate Low

1 disease indicator or >4 risk factors = high risk
no disease indicators but 3 or 4 risk factors = moderate risk
less than 3 risk factors = low risk

How often does your child brush?
How often does your child floss?
Does your child drink tap water?
<table>
<thead>
<tr>
<th>Change Tested, Driver Addressed</th>
<th>Results</th>
<th>Lessons Learned</th>
<th>Next Steps</th>
</tr>
</thead>
</table>
| Implementation of caries risk assessment | Risk assessment done for 0-5 year olds patients (first for initial exams and then recalls were added) | Good measure of caries risk  
Good tool to discuss risk with patient  
Pts feel they have better understanding on how to reduce risk of decay | PDSA another provider using new CRA |
| Implementation of caries risk assessment by another provider | Risk assessment done for 0-5 year olds patients (first for initial exams and then recalls were added by a 2nd provider) | Did not like paper format | Develop template in Dentix for CRA  
PDSA implementation |
| Create CRA template in Dentrix | CRA was entered in Dentrix as default template when “Caries Risk Assessment” code is entered | Less personal, talk to computer rather than person  
Less scanning, easier to locate  
Within EDR | Use Dentrix template for CRA rather than paper version |
| Increasing recall frequency for high risk patients | High risk patients (0-2 years old) are given 4 m recalls rather than 6 m recalls | Parents are willing to commit to more frequent recalls, if covered | PDSA 1 month follow up rather than 4 m recalls  
Track to see if level of risk decreases over time |
Chronic Disease Management

- Caries Risk Assessment
- Self-Management Goals
- Treatment protocols based on risk
- Quality Improvement with Outcome Measures
- Care Coordination
Self-Management Goals:

1) ______________________________________________________________________________

2) ______________________________________________________________________________

On a scale of 1-10, how confident are you that you can accomplish the goals?  1 2 3 4 5 6 7 8 9 10

Signature of Parent or Guardian: ___________________________ Date: ______________

Signature of Practitioner: ___________________________ Date: ______________

Patient Name: ___________________________ DOB: ______________
## Treatment protocols based on risk

<table>
<thead>
<tr>
<th>Low Risk</th>
<th>Moderate Risk</th>
<th>High Risk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caries Risk Assessment</td>
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<td>Caries Risk Assessment</td>
</tr>
<tr>
<td>OHI - using fluoride toothpaste</td>
<td>OHI - using fluoride toothpaste</td>
<td>OHI - using fluoride toothpaste</td>
</tr>
<tr>
<td>Fluoride Treatment q 6 m</td>
<td>Oral disease instruction</td>
<td>Oral disease instruction</td>
</tr>
<tr>
<td>Sealants</td>
<td>Fluoride treatment q 4-6 m***</td>
<td>Fluoride treatment q 3 m***</td>
</tr>
<tr>
<td></td>
<td>Nutritional counseling</td>
<td>Nutritional counseling</td>
</tr>
<tr>
<td></td>
<td>ACT rinse or smear layer of toothpaste</td>
<td>ACT rinse or smear layer of toothpaste</td>
</tr>
<tr>
<td></td>
<td>Sealants</td>
<td>Sealants</td>
</tr>
<tr>
<td></td>
<td>Self-management goal setting</td>
<td>Caries elimination</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Active surveillance of incipient lesions***</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Self-Management goal setting</td>
</tr>
<tr>
<td>6 month recall</td>
<td>4-6 month recall</td>
<td>3 month recall</td>
</tr>
</tbody>
</table>
Successes of EDD

- Great dental team – willing to make changes
- Entire team is actively involved in process
- Organization wide support of Quality Improvement efforts: ELT, QI, IT
- Moving from a surgical approach of dental treatment to the Chronic Disease Management of dental disease to improve overall oral health
- Patient-Centered Care – patients take active role in their oral health care
- Change in perception to treatment of caries rather than treatment of cavities
- Patient success stories
- Medical and Dental integration and care coordination (hours of operation, same phone number, integrated front desk, non-dental staff making dental appts)
Challenges of EDD

- Budget cuts to adult dental in Illinois
- Illinois PPS rate
- Reimbursement for Chronic Disease Model
- Capturing data in Dentrix
- EMR and EDR do not talk
Questions?

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