

Caries Risk Assessment

Dental Transformation Initiative (DTI)
September 2017 Webinar

Jan Carver, MSHS, RDH Dental Project Coordinator

Why Primary Care Clinicians?

Primary care clinicians are well positioned to promote oral health:

- 96% of children have access to primary medical care.
- Primary care clinicians have regular, consistent contact through well-child visits.
- Clinicians see children for well and acute care at least 8 times by age 2, and frequently thereafter.
- Few preschool children from low-income families receive regular dental care.



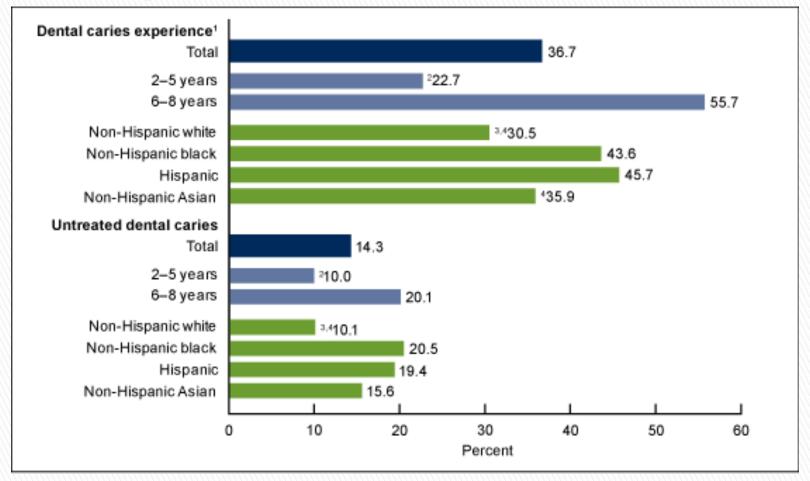
Prevalence of Tooth Decay— Primary Teeth

- → ~37% of children aged 2–8
 - ~14% untreated
- → ~23% of children aged 2–5
 - ~10% untreated
- ► ~56% of children aged 6-8
 - ~20% untreated





Prevalence of Tooth Decay— Primary Teeth





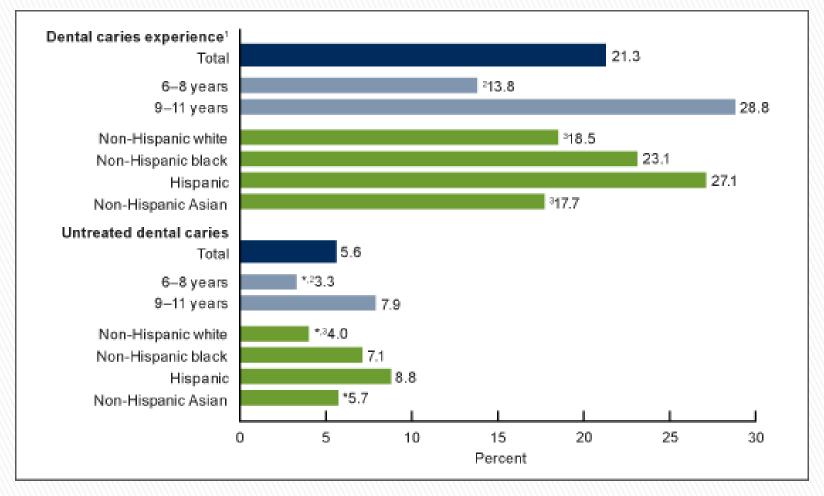
Prevalence of Tooth Decay— Permanent Teeth

- → ~21% of children aged 6–11
 - ∘ ~14% age 6–8
 - ∘ ~29% age 9–11
- - ∘ ~3% age 6–8
 - ∘ ~8% age 9-11





Prevalence of Tooth Decay— Permanent Teeth





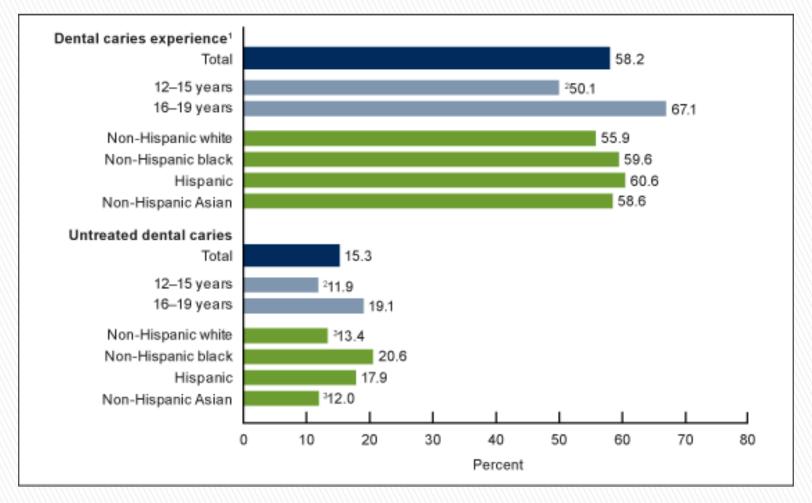
Prevalence of Tooth Decay— Adolescents

- ~58% of children aged 12-19
 - ∘ ~67% age 16-19
 - ∘ ~50% age 12–15
- - ∘ ~19% age 16–19
 - ∘ ~12% age 12–15





Prevalence of Tooth Decay— Adolescents





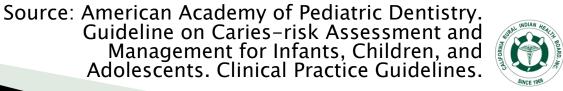
Reducing Tooth Decay: Strategies in DTI Domain 4 Pilot Program

- ► Ensure caries risk assessment (CRA) for children 0–20.
- ▶ Ensure fluoride varnish application for children 0–20.
- Ensure individualized care plans for high-risk children.
- Educate and engage families in caries risk management.



Individual Caries Risk Assessment

- Fosters the treatment of the disease process instead of treatment of the disease outcome (caries).
- Gives an understanding of the disease factors for each specific child and aids in individualizing preventive discussions (motivational interviewing).
- Individualizes, selects, and determines frequency of preventive treatment for a patient.
 - Fluoride varnish frequency.
- Anticipates caries progression or stabilization.



Individual Care Plans

- Provide dietary counseling.
- Guide and support parents and patients in self-management goals.
- Deliver preventive interventions.
 - Dental referrals
 - Fluoride varnish application
 - Recare based on caries risk



Caries Risk Assessment Tool

- Developed by the Department of Health Care Services CRA Workgroup for DTI.
- An adaptation of a nationally recognized caries risk assessment tool.
- Provides Oral Health Care Coordinators with a form to gather information for classifying children into high, moderate, or low caries risk categories.
- Identifies key clinical, risk, and protective factors for management of caries.
- Helps to set self-management goals and motivate patients.

California Department of Health Care Services
Domain #2 Caries Risk Assessment Form for Children <6 Years of Age

Patient Name:					
ID#	Age:		Date of Birth:		
Assessment Date:					
Please indicate whether this is a B. Provide follow-up visit #)			UP VISIT		
	RISK A	SSESSMENT			
Assessment through interview and clinical examination	High Risk Moderate Low risk Risk		Priority for Self- management		
	\\\\C	heck All That Ap	ply	goal	
1. Risk factors (Biological an	d Behavioral	Predisposing fac	tors)	a a a a a a a a a a a a a a a a a a a	
(a) Child sleeps with a bottle containing a liquid other than water, or nurses on demand		Yes □	·		
(b) Frequent use beverages other than water including sugary beverages, soda or juice		Yes □			
(c) Frequent (>3 times/day) between-meal snacks of packaged or processed sugary foods including dried fruit		Yes □			
(d) Frequent or regular use of asthma inhalers or other medications which reduce salivary flow		Yes □	No risk factors		
(e) Child has developmental disability/CSHCN (child with special health care needs)		Yes □			
(f) Child's teeth not brushed with fluoride toothpaste by an adult twice per day		Yes □			
(g) Child's exposure to other sources of fluoride (fluoridation or fluoride tablets) is inadequate		Yes □			
2. Disease indicators/risk fac	tors-clinical	examination of c	hild		
(a) Obvious white spots, decalcifications, enamel defects or obvious decay present on the child's teeth	Yes □	No disease indicators	No disease indicators		
(b) Restorations in the past 12 months (past caries experience for the child)	Yes □	indicators			
(c) Plaque is obvious on the teeth and/or gums bleed easily		Yes □			
OVERALL ASSESSMENT OF RISK* (Check)	HIGH □ Code 0603	MODERATE Code 0602	LOW Code 0601		



Caries Risk Assessment Tool

Patient Name:				
ID#	_ Age:	_ Date of Birth:		
Assessment Date:				
Please indicate whether this is a BASELINE assessment or a FOLLOW-UP VISIT Provide follow-up visit #)				

Ensure that the top portion is completed with all the information.



Biological & Behavioral Risk Factors

R	ISK ASSESSM	ENT		
Assessment through interview and clinical examination	CIRCLE High Risk if any "Yeses" are present		CIRCLE	Priority for Self- management goa
Risk factors (Biological and Behavioral Predispo	sing factors)			
 (a) Child sleeps with a bottle containing a liquid other than water, or nurses on demand 		Yes		
(b) Frequent use beverages other than water including sugary beverages, soda or WIC juice		Yes		
(c) Frequent (>3 times/day) between-meal snacks of-packaged or processed foods including dried fruit		Yes		
(d) Frequent or regular use of asthma inhalers or other medications which reduce salivary flow		Yes	No risk factors	
(e) Child has developmental disability /CSHCN (child with special health care needs)		Yes		
f) Child not brushed teeth by adult for 2 x day		Yes		
g) Child's exposure to other sources of fluoride fluoridation or fluoride tablets) is inadequate		Yes		

- Section litems (a)-(g) are completed via interview with caregiver.
- Factors that predispose a child to dental caries.
- Indicators for moderate risk.



Fluoride Exposure—Is Your Water Fluoridated?

 To determine if a water system is fluoridated, visit the <u>California State</u> <u>Water Resources</u> <u>Control Board</u> at

http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Fluoridation.shtml.



Clinical Indicators of Disease

2. Disease indicators/risk factors - clinical examination of child

 (a) Obvious white spots, decalcifications, enamel defects or obvious decay present on the child's teeth 	Yes			
(b) Restorations in the past 12 months (past caries experience for the child)	Yes		No disease indicators	
(c) Plaque is obvious on the teeth and/or gums bleed easily		Yes		
OVERALL ASSESSMENT OF RISK (Circle)	HIGH Code 0603	MODERATE Code 0602	LOW Code 0601	

- Section 2 items (a)-(c) are completed by visually inspecting the child's mouth for signs of disease.
- Signs that the disease process has affected tooth structure automatically place a child into a high risk category.

How to Spot Dental Disease



Look for obvious white spots, decalcifications, enamel defects, or obvious decay.

How to Spot Dental Disease



White spot lesions and decalcifications occur in areas where plaque builds up.

Dental Plaque and Inflamed Gums





CRA Results

- YES to any one indicator in the HIGH RISK COLUMN = HIGH RISK [Presence of disease or recent disease experience].
- YES to one or more factors/indicators in the MODERATE RISK COLUMN in the absence of any HIGH RISK indicators = MODERATE RISK [Presence of a risk indicator; no disease].
- Absence of factors in either high or moderate risk categories = LOW RISK.



CRA Summary

either category

Moderate Risk	High Risk	
Frequent carbohydrates	White spot lesions	
Visible plaque	Active caries	
Low fluoride exposure	Restorations previous 12 months	
Low saliva flow		
Low risk indicated by absence of factors in		



Self-Management Goals for Parent/Caregiver

Patient Name

DOB



Regular dental visits for child



Family receives dental treatment



Healthy snacks



Brush with fluoride toothpaste at least 2 times daily



No soda



Less or no juice



Wean off bottle (no bottles for sleeping)



Only water or milk in sippy cups



Drink tap water

Self-management goals 1)



Less or no junk food and candy



Use xylitol spray, gel or dissolving tablets

IMPORTANT: The last thing that touches your child's teeth before bedtime is the toothbrush with fluoride toothpaste.

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 Date

Practitioner signature

Date

Last Step—Self Management Goals & Plans

- We'll talk about this more next month.
- https://www.cda .org/Portals/0/p dfs/tyke_self_m gmt_goals_for_p arent.pdf.



Questions?

