

Educational Curriculum on
Perinatal and Infant Oral Health Care:
Current Standards of Care for
Dental and Dental Hygiene Students

Module 2 – Infant Oral Health

Acknowledgments

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Objectives

After viewing these resources students will be able to provide oral health education to parents and caregivers on the risk for, causes and consequences of early childhood caries and promote preventive oral care and treatment services for infants by:

1. Understanding the prevalence, etiology and consequences of early childhood caries.
2. Conducting a dental caries risk assessment.
3. Identifying stages of caries development.
4. Implementing prevention strategies (i.e. fluoride).
5. Providing appropriate anticipatory guidance.

Basic Screening Survey

Basic Screening Survey Indicator	Definition
Untreated Decay	The presence of a dental cavity (caries) in which the screener can readily observe breakdown of the enamel surface. This protocol only includes cavitated lesions as untreated decay.
Treated Decay	The presence of any type of filling, including temporary fillings. Treated decay also includes teeth that were extracted due to decay and crowns that cover the whole tooth or most of the tooth.
Caries Experience	This is a calculated indicator from untreated decay and treated decay. All children with either treated or untreated decay or both have caries experience.
Early Childhood Caries (ECC)	Any child with one of his or her six upper front teeth either decayed, filled, or missing due to caries was considered to have early childhood caries (ECC).
Urgency of Need for Dental Care	Children with no obvious problems were coded as having no treatment needs. Children with untreated decay without accompanying signs or symptoms of pain, infection, or swelling were coded as having early treatment needs, while those with accompanying signs or symptoms were coded as having urgent treatment needs.

Data was collected using the [Association for State and Territorial Dental Directors \(ASTDD\)](#) Basic Screening Survey. Dental providers complete the screenings using gloves, headlamps, and disposable mouth mirrors.



State of Oral Health of Young Children in Wisconsin

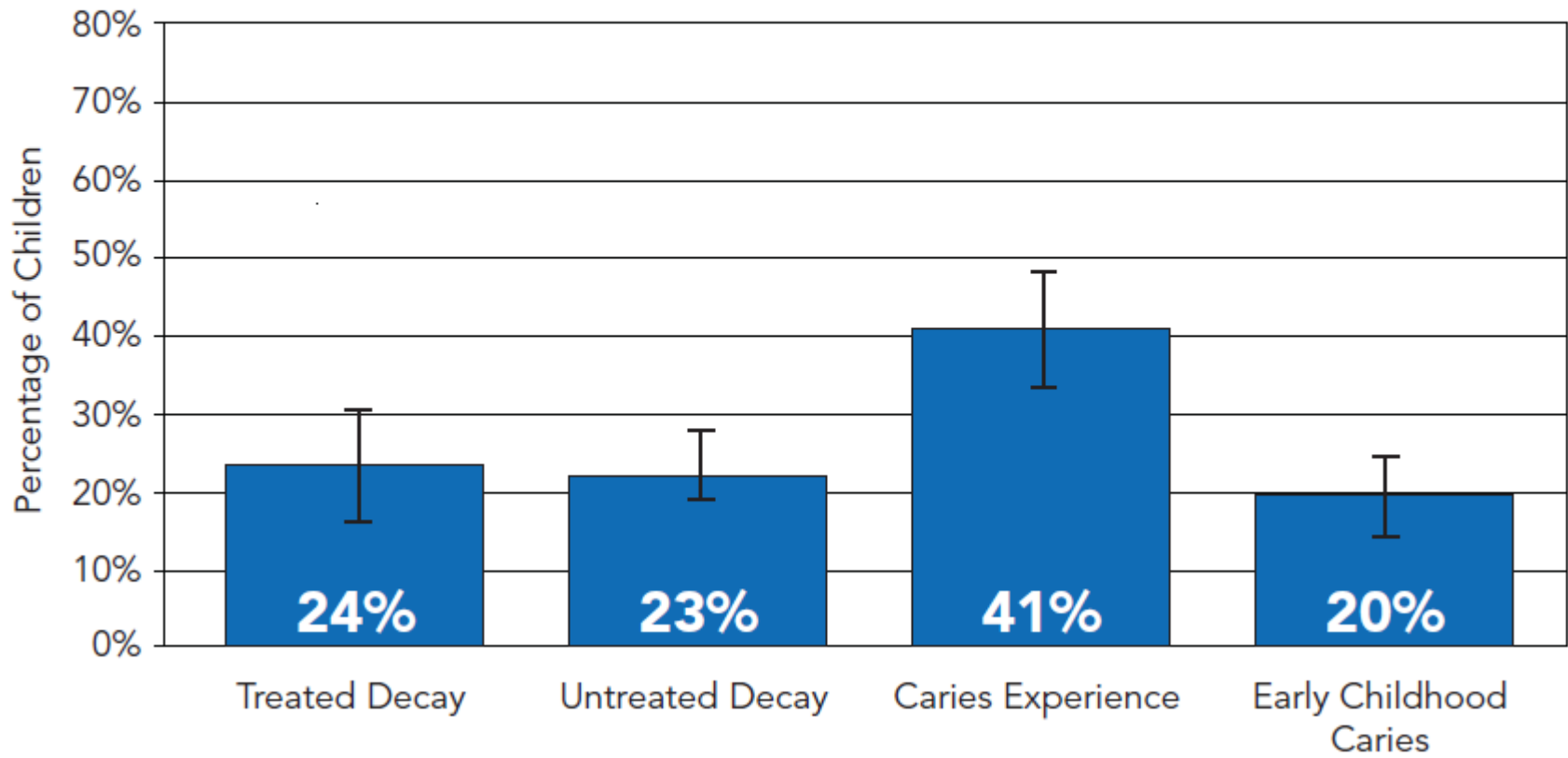
To begin this module, review the 2014, Wisconsin Healthy Smiles Survey - The Oral Health of Wisconsin's Head Start Children.

Results:

- Findings indicate that 23% of children had untreated tooth decay.
- The proportion of children with tooth decay increased with age; 15% of three-year-olds, 23% of four-year-olds and 31% of five-year-olds had fillings, crowns or extractions due to decay.
- Surveys conducted in 2002-03 and 2008-09 showed outcomes without change toward improved oral health.
- There is a need to identify high-risk children **before age 3** so effective preventive intervention can be provided.
- To view the entire report:
<https://www.dhs.wisconsin.gov/publications/p01702.pdf>

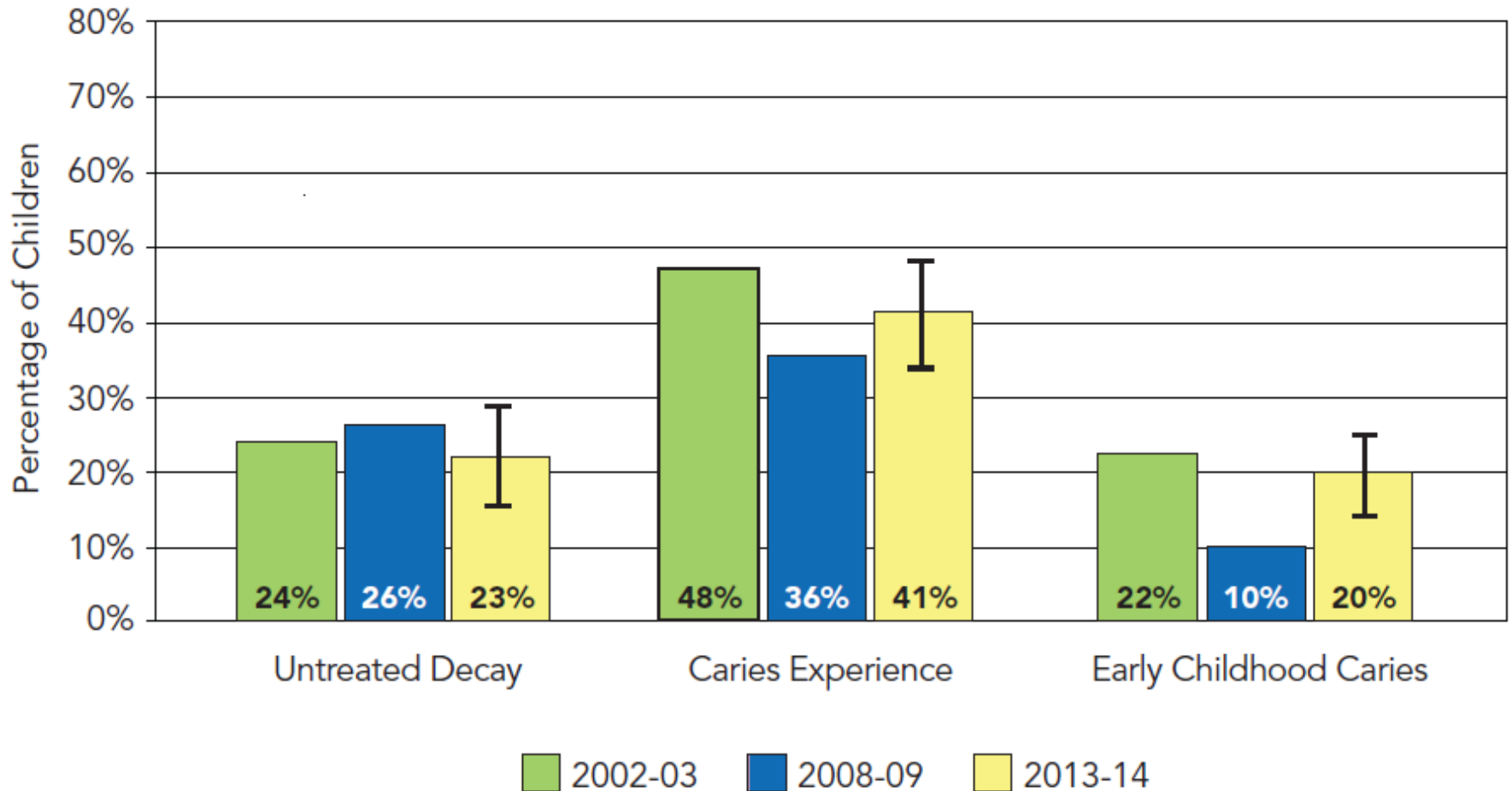
Wisconsin Head Start Survey

Figure 1: Percentage of Head Start Children with Treated Decay, Untreated Decay, Caries Experience, and Early Childhood Caries, 2013-14



Wisconsin Head Start Survey

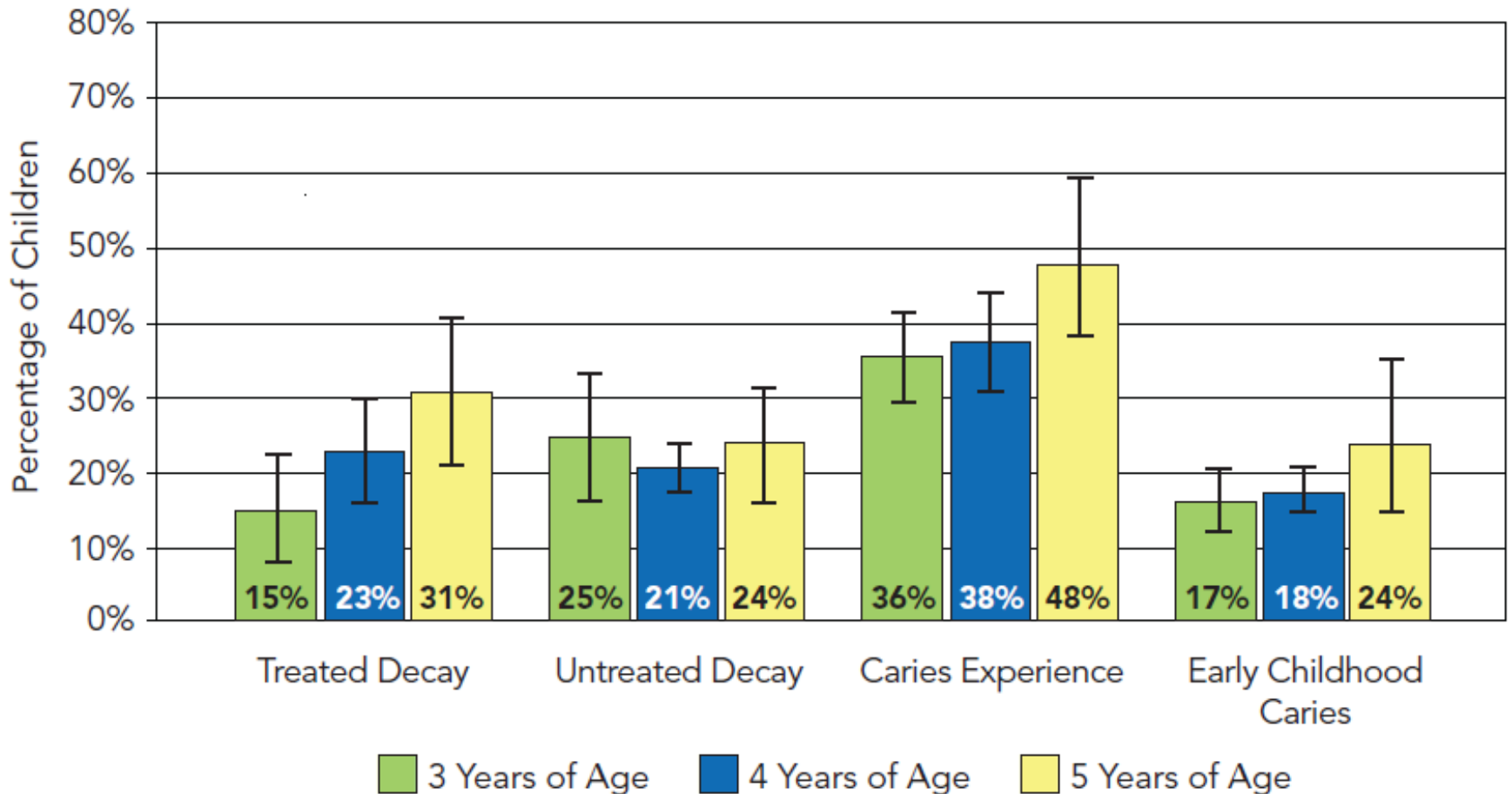
Figure 6: Percentage of Head Start Children with Untreated Decay, Caries Experience, and Early Childhood Caries 2002-03, 2008-09, and 2013-14



Source: Olson MA, Moss ME and Voelker MK. Healthy Smiles Survey: Wisconsin's Head Start Children, 2014. Wisconsin Oral Health Program, Wisconsin Department of Health Services.

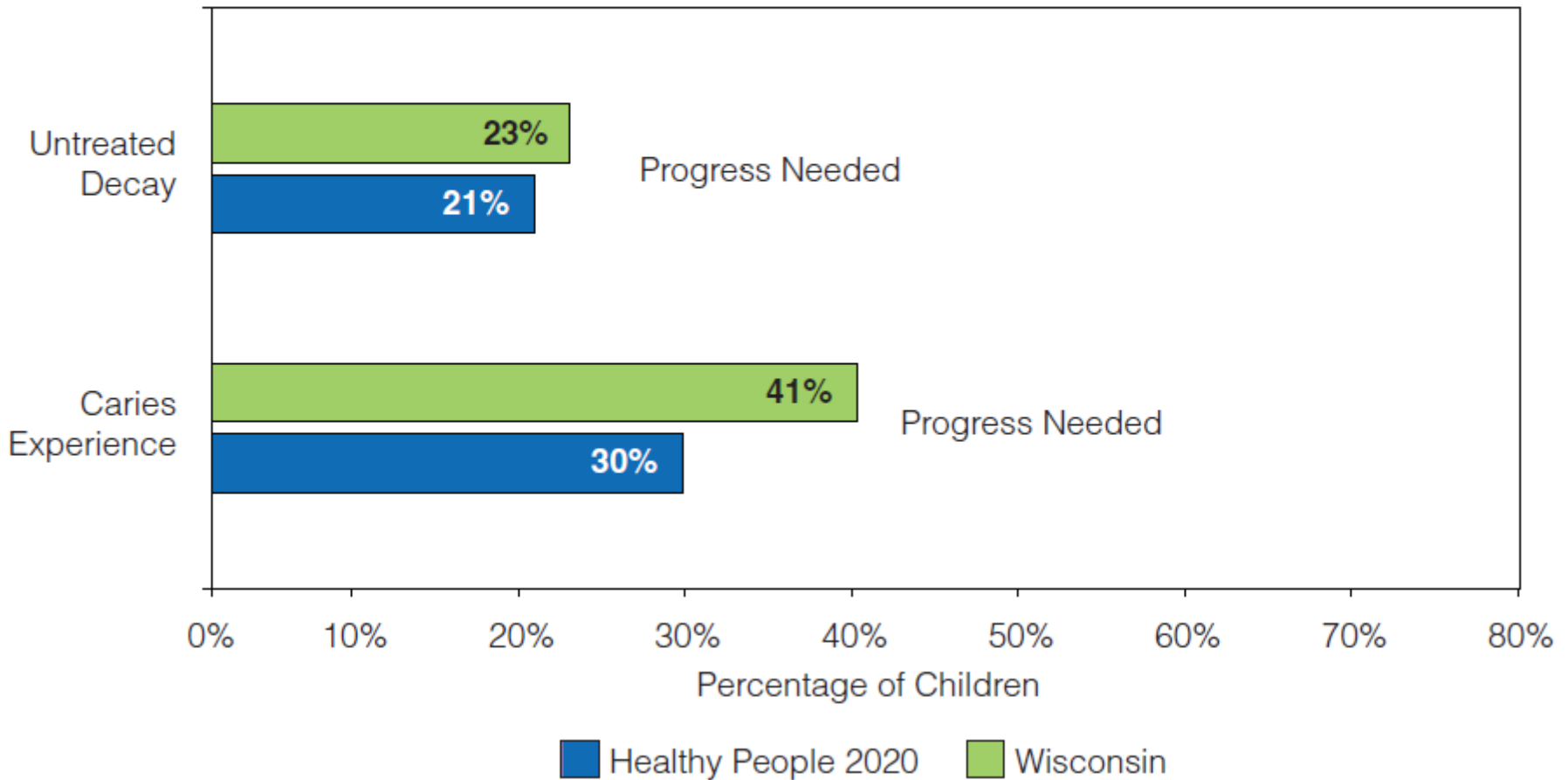
Wisconsin Head Start Survey

Figure 3: Percentage of Head Start Children with Treated Decay, Untreated Decay, Caries Experience, and Early Childhood Caries by Age, 2013-14



Wisconsin Head Start Survey

Figure 5: Oral Health of Head Start Children Compared to Healthy People 2020 Objectives



Source: Olson MA, Moss ME and Voelker MK. Healthy Smiles Survey: Wisconsin's Head Start Children, 2014. Wisconsin Oral Health Program, Wisconsin Department of Health Services.

Activity 1 – Online Learning Module

DentaQuest Institute Disease Management Series

- This learning series consists of 30 to 40 minute online learning modules. Each module is designed to promote and increase prevention-focused thinking about oral health care.
- Complete **Module 6: Dental Caries Management: Newborn to Age 5**. This module covers specialized disease management of dental caries for infants and toddlers, newborn to age five.
- <https://www.dentaquestinstitute.org/>

Register for DentaQuest Institute

The image shows a screenshot of the DentaQuest Institute website. At the top, there is a navigation bar with the DentaQuest INSTITUTE logo on the left and links for REGISTER, SIGN IN, and SUBSCRIBE on the right. Below this is a blue header with 'About' and 'Learn' tabs. The main banner features a smiling child and the text: 'We provide clinical care and practice management oral health care providers health'. Below the banner is a green navigation bar with three buttons: 'Online Learning Modules' (circled in red), 'Quality Improvement Initiatives', and 'Analytics and Publications'. To the left of the main content area, there is a 'Learn' sidebar menu with items: 'Analytics and Publication', 'Interprofessional Practice' (with sub-items: '- MORE Care', '- Partnership and Growth'), 'Online Learning Center' (with sub-items: '- My Learning', '- Instructional Webinars', '- Online Courseware', '- Resource Library'), 'Oral Health Center', and 'National Oral Health Quality Improvement Committee'. The main content area is titled 'Online Courseware' and features a red circle around the 'DentaQuest Disease Management Series' link. Below this link is a description: 'This learning series consists of 30 to 40 minute online learning modules including an Overview. Each module was designed to promote and increase prevention-focused thinking about oral health care.' and a 'View Course Table of Contents' link. To the right of the description are three course cards: 'DentaQuest Disease Management Series', 'Safety Net Dental Practice Management Series', and 'DentaQuest Special Topics Series'. Each card includes a brief description and a 'View Course Table of Contents' link. At the bottom left, there is a 'JUST RELEASED' banner for 'MORE Care: Narrowing the Rural Interprofessional Oral Health Care Gap' with a 'View White Paper' link. A video player for Carolyn Brown, DDS is also visible.

<https://www.dentaquestinstitute.org/>

Register for DentaQuest Institute

Welcome to DentaQuest Institute

Thank you for your interest in registering as a user on the DentaQuest Institute website! This website is for professionals and students working in the healthcare field who are interested in learning more about oral health. If you are a consumer looking for information regarding dental insurance options with our parent company, please visit www.dentaquest.com.

[Create new account](#) [Log in](#) [Request new password](#)

1. Personal Information

First Name *
* Denotes a Required field.

Last Name *

Organization *

Title *
Your current job title.

Street

Zip Code *

City

State
- None -

Phone Number

2. Your Role

Are you a provider? *
- Select -

3. Practice Information

Are you currently practicing?
- None -

4. Account Information

Username *
Spaces are allowed; punctuation is not allowed except for periods, hyphens, apostrophes, and underscores.

- Registration will allow you to:
 - Take the end of course assessment.
 - Receive the certificate of completion.
 - Return to complete additional courses.
- Write down your login and password for future course access.

Online Learning Module

Module 5: Dental Caries Management: Perinatal

This module will take a look at Dental Caries Management: Perinatal. You'll see how you can apply the preventive approach to perinatal oral health care. We will cover the current science, policies, clinical guidelines, and opportunities for providing improved care.

[Log in to view this Module](#)

Module 6: Dental Caries Management: Newborn to Age 5

This module will take a look at Dental Caries Management: Newborn to Age 5. You'll learn about specialized disease management of dental caries for infants and toddlers, newborn to age five.

[Log in to view this Module](#)

Module 7: Dental Caries Management: Age 6 through Adult

This module will take a look at Dental Caries Management: Age 6 through Adult. You'll learn about dental caries risk assessment and disease management for patients age 6 through adult.

[Log in to view this Module](#)

Module 8: Interim Therapeutic Restoration

This module will take a look at Interim Therapeutic Restoration, or ITR. You'll learn how this restorative technique stabilizes active lesions so that caries does not continue to progress. Taking a look at the three stages of disease and corresponding levels of prevention will help you identify how ITR can help individual patients. You'll even see the steps involved in performing ITR. Whether you've heard of ITR before or not, you'll come away from this module with a better understanding of its benefits and how it might fit into your practice.

[Log in to view this Module](#)

Module 6: Dental Caries Management: Newborn to Age 5

- Listen to the Case Study
- Complete the Module Quiz

Activity 1 – Assessment

OLC USER GUIDE

Learn

- Analytics and Publication
- Interprofessional Practice
 - MORE Care
 - Partnership and Growth
 - Interprofessional Practice (IPP) White Paper
- Online Learning Center
 - My Learning**
 - Instructional Webinars
 - Online Courseware
 - Resource Library
- Oral Health Center
- National Oral Health Quality Improvement Committee
- Quality Improvement Initiatives
 - Early Childhood Caries (ECC) Management Efforts
 - Dental Caries Management (DCM) Collaborative

My Learning

Currently Enrolled

Title	Series	Date Enrolled
Module 3: Caries Risk Assessment	DentaQuest Disease Management Series	2/19/17
Module 4: Caries Management by Risk Assessment: CAMBRA	DentaQuest Disease Management Series	2/13/17
Module 5: Dental Caries Management: Perinatal	DentaQuest Disease Management Series	1/26/17
Module 6: Dental Caries Management: Newborn to Age 5	DentaQuest Disease Management Series	1/30/17

Completed Modules

Title	Series	Score
Module 5: Dental Caries Management: Perinatal	DentaQuest Disease Management Series	87.5%
Module 6: Dental Caries Management: Newborn to Age 5	DentaQuest Disease Management Series	100%
Module 6: Dental Caries Management: Newborn to Age 5	DentaQuest Disease Management Series	90%
Module 6: Dental Caries Management: Newborn to Age 5	DentaQuest Disease Management Series	90%

Certificates

Title	Series	View Certificate
Modules 5, 6	DentaQuest Disease Management Series	View Certificate

- Go to the **learn** toolbar and in the dropdown select the **online learning center** then **my learning** page.

- Print the certificate for Module 5 and provide it to your instructor.

Activity 2 – Article Review

- Read the two articles described and accessed on the following slides.
- Complete the assessment activity described on slide 18 .

“Guidelines on Perinatal and Infant Oral Health Care”

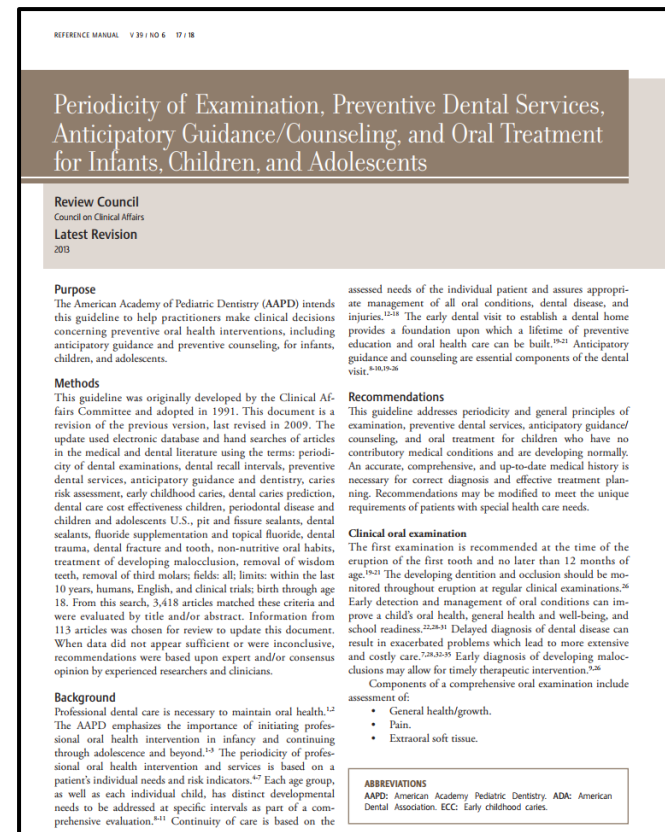
American Academy of Pediatric Dentistry (AAPD)

https://www.aapd.org/globalassets/medial/policies_guidelines/bp_perinataloralhealthcare.pdf



“Guideline on Periodicity of Examination, Preventive Dental Services, Anticipatory Guidance and Oral Treatment for Infants, Children and Adolescents”

http://www.aapd.org/media/Policies_Guidelines/BP_Periodicity.pdf



Source: The American Academy of Pediatric Dentistry Council on Clinical Affairs. (2013). *Guidelines on Examination, Preventive Dental Services, Anticipatory Guidance/Counseling, and Oral Treatment for Infants, Children, and Adolescents*. References Manual Volume 39(6): 17/18:188-195.

Activity 2 – Assessment

- Choose one of the scenarios about a family and child provided on the next slide. Using information from the articles in this section, create anticipatory guidance for the parent that is specific to the child's age and the scenario presented.
- Work in pairs/groups to create a role play depicting a hygienist providing anticipatory guidance to the parent.
- Record a video of the role play and share with the class/your teacher.

Scenario 1

Tanesha, a mom of 3 children comes into a dental clinic for appointments for her two older children. The children are 6 and 4 years old and this is their first visit to a dentist. Both older children are diagnosed with several areas of dental decay and need to return for restorative care. The youngest child is a toddler, age 18 months. The mom is concerned and wants to know what she can do to prevent her youngest from getting cavities.

- What anticipatory guidance would you provide to this mom to help her understand the young toddlers oral care needs and how she can reduce his risk of decay?

Scenario 2

During an outreach visit at the local WIC clinic, you are talking to a mom about the oral health of her 16 month old. The Mom says “yes”, I brush my toddler’s teeth, when she lets me, but they are just baby teeth.

As you observe the child you notice thick plaque formation and white line etching along the gum line on her upper front teeth.

- What anticipatory guidance would you provide to the mom on the importance of daily oral health care for her child’s baby teeth?

CODA Standard 2-12

Patient Care Competencies

2-12

- Graduates must be competent in providing dental hygiene care for the child, adolescent, adult and geriatric patient.
- Graduates must be competent in assessing the treatment needs of patients with special needs.

Intent:

- *Age appropriate patient pool should be available to provide a wide scope of patient experiences that include patients whose medical, physical, psychological, or social situations may make it necessary to modify procedures in order to provide dental hygiene treatment for that individual. Student experiences should be evaluated for competency and monitored to ensure equal opportunities for each enrolled student.*
- *Clinical instruction and experiences with special needs patients should include instruction in proper communication techniques and assessing the treatment needs compatible with these patients.*

CODA Standard 2-12 (continued)

Examples of evidence to demonstrate compliance may include:

- Program clinical and radiographic experiences, direct and non-direct patient contact assignments, and off-site enrichments experiences.
- Patient tracking data for enrolled and past students.
- Policies regarding selection of patients and assignments of procedures.
- Student clinical evaluation mechanism demonstrating student competences in clinical skills, communication and practice management.

CODA Standard 2-23

Critical Thinking Competencies

2-23

Graduates must be competent in problem solving strategies related to comprehensive patient care and management of patients.

Intent:

- *Critical thinking and decision making skills are necessary to provide effective and efficient dental hygiene services. Throughout the curriculum, the educational program should use teaching and learning methods that support the development of critical thinking and problem solving skills.*

Examples of evidence to demonstrate compliance may include:

- Evaluation mechanisms designed to monitor knowledge and performance.
- Outcomes assessment mechanisms demonstrating application of critical thinking skills.
- Activities or projects that demonstrate student experiences with analysis of problems related to comprehensive patient care.
- Demonstration of the use of active learning methods that promote critical appraisal of scientific evidence in combination with clinical application and patient factors.

Please Provide Feedback

- Use the link below to provide feedback on the content and how you used these modules.
- Thank you!
- <https://www.surveymonkey.com/r/66Q3ZQ2>
- For questions contact: dfischer@chw.org