

Chemo without Cavities

Erin Hartnett DNP, APRN, PPCNP-BC, CPNP

2000 - Surgeon General Report -
Oral Health in America

Oral Health in America

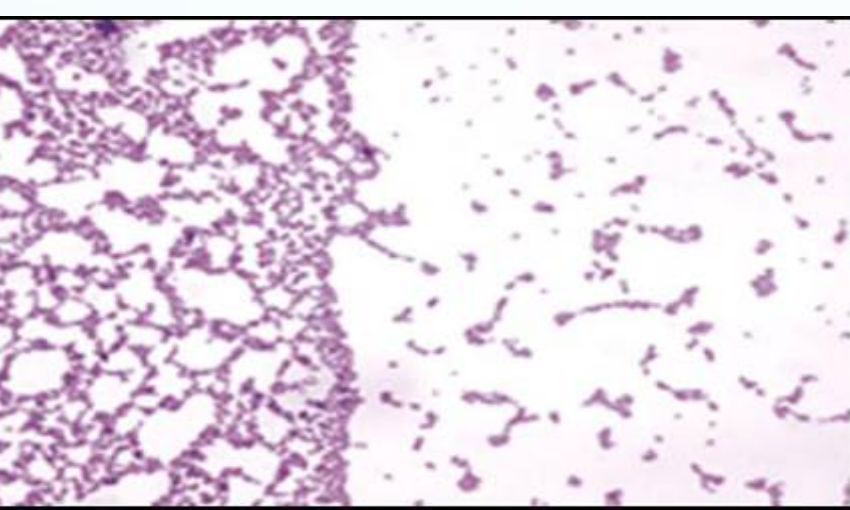
Problem

Dental Caries in Children

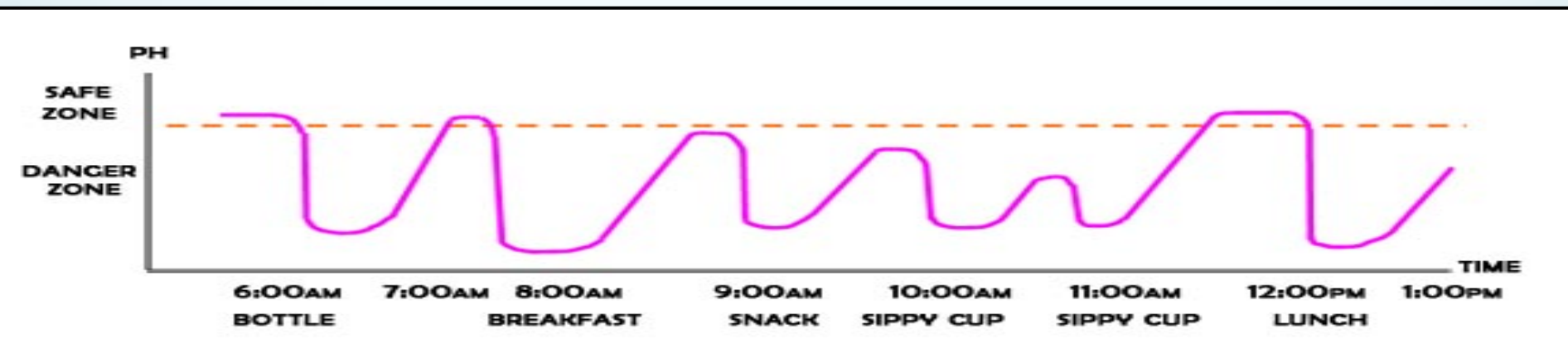


Professional Policy Updates

- 2001 AAPD: Define a Dental Home (2012)
- 2002 AAPD: Develop a Caries Risk Assessment Tool -
- 2003 AAP : Oral Health Risk Assessment and Dental Home (2009)
- 2006 ADA : First EBP guideline : Topical fluoride
- 2008 AAP : Policy on Preventive Oral Health Intervention for Pediatricians
- 2008 AAPD: Updates Guideline for pediatric oncology patients (2013)
- 2009 Medicaid coverage for Fluoride varnish (FV) application by non-dental providers
- 2009: State Children's Health Insurance Program (SCHIP) covers FV
- 2010 & 2020: Healthy People choose Oral Health as health indicator



Where do Caries Come from ??



Early Childhood Caries Can Lead to...

- Extreme pain
- Spread of infection
- Difficulty chewing, poor weight gain
- Falling off the growth curve
- Extensive and costly dental treatment
- Risk of dental decay in adult teeth
- Missed school days
- Impaired language development
- Inability to concentrate in school
- Reduced self-esteem
- Possible facial **cellulitis** requiring hospitalization
- **SEPSIS** - Possible systemic illness for children with special health care needs



Pediatric Oncology Issues Related to Cancer Treatment

- Pain
- Fever
- Mucositis
- Xerostomia
- Fungal infection
- Gingival bleeding
- Vomiting
- Lack of appetite
- Poor nutrition
- Treatment delay

Carillo et al., 2010; daFonesca, 2004;
Moursi et al.,2010; NIH, 1989

Imagine!

Pediatric Oncology Patients with Dental Caries



WHY ??

- Immunocompromised
- Infectious disease
- Impaired saliva
- Poor nutrition
- Frequent feeding
- Most frequent source of sepsis is the *mouth*,
- Families are *overburdened* with medical appointments
- 90% cancer patients develop an oral problem
- 30% - 95% survivors report dental abnormalities
- Tooth formation is occurring during treatment
- Separation of medicine and dentistry

Significance:
Pediatric-Oncology Population

Caries are Preventable



Oral Assessment & Fluoride Varnish Program

Oncology Staff Education Program

- Pre-Survey
- Education Class
 - Handouts
 - PPT
 - Post test
 - Skills Lab
- Post- survey

Child Oral Health Assessment and Fluoride Varnish



Stages of Early Childhood Caries





Damage caused by holding medications in mouth

Hematological considerations

ANC

- >2000- No need for antibiotic prophylaxis
- 1000-2000 – use clinical judgement
- <1000 defer dental care

Platelets

- >75,000 no support needed
- 40,000- 75,000 transfusion considered
- <40,000 defer care

Educate Family and Staff

- Awareness
- Toothbrushing
- Nutrition
- Fluoride
- Frequent water
- Hematologic Considerations

Resources

- Oral Health in America: Report of the Surgeon General
<http://www.nidcr.nih.gov/DataStatistics/SurgeonGeneral/sgr/>
- AAPD Guidelines for Caries Risk Assessment
http://www.aapd.org/media/Policies_Guidelines/G_CariesRiskAssessment.pdf
- American Academy of Pediatrics Policy Statement. (2008). Preventive oral health intervention for pediatricians. *Pediatrics*, 122, 1387-94.
- AAPD: Policy on the Dental Home. (2012). http://www.aapd.org/media/Policies_Guidelines/P_DentalHome.pdf
- AAPD: Guideline of Caries-risk Assessment and Management for Infants, Children, and Adolescents. (2002).
http://www.aapd.org/media/Policies_Guidelines/G_CariesRiskAssessment.pdf
- AAP: Oral Health Risk Assessment Tool. (2009). <http://www2.aap.org/oralhealth/docs/riskassessmenttool.pdf>
- ADA: Professionally Applied Topical Fluoride: Evidence-based Clinical Recommendations. (2006).
http://ebd.ada.org/fluoride_chairside.pdf
- AAP: Preventive Oral Health Intervention for Pediatricians. (2008).
<http://pediatrics.aappublications.org/content/122/6/1387.full.pdf+html>
- AAPD: Guideline on Dental Management of Pediatric Patients Receiving Chemotherapy, Hematopoietic Cell Transportation, and/or Radiation. (2013). http://www.aapd.org/media/Policies_Guidelines/G_Chemo.pdf
- Medicaid coverage for Fluoride Varnish (FV) Application by Non-Dental Providers (2013).
<http://www2.aap.org/oralhealth/docs/OHReimbursementChart.pdf>
- State Children's Health Insurance Program (SCHIP) Covers Fluoride Varnish. (2009).
<http://www2.aap.org/oralhealth/docs/CelebratingOurWins.pdf>
- 2010 & 2020: Healthy People choose Oral Health as Health Indicator.
<http://www.healthypeople.gov/2020/topicsobjectives2020/overview.aspx?topicid=32>