PEDIATRIC ORAL HEALTH & ACCESS TO CARE IN RHODE ISLAND

JOHN KIANG DMD, MA

BACKGROUND

- John Kiang DMD, MA
 - Board Certified Pediatric Dentist
 - Associate Clinical Professor NYU Langone AEPD
 - Focus: Hospital dentistry and cleft and craniofacial anomalies
 - Private Practice in Rhode Island and Massachusetts
 - RI/Hasbro Hospital and UMass Memorial Medical Center Craniofacial Team Pediatric Dentist
 - Past President Rhode Island Dental Association
 - President Rhode Island Oral Health Foundation: Mission of Mercy
 - No Disclosures or Financial Interests



PEDIATRIC DENTISTRY

- Pediatric Dentistry Pediatric dentistry is an agedefined specialty that provides both primary and comprehensive preventive and therapeutic oral health care for infants and children through adolescence, including those with special health care needs adults.
 - Source: https://www.aapd.org/globalassets/media/policies_guide lines/i_overview.pdf





PEDIATRIC DENTAL PATIENTS

- · Medically compromised and special needs patients
 - Syndromes (Down, 22q, Williams, Noonan, Apert, etc)
 - Autism Spectrum
 - Immune compromised
 - Bleeding disorders
 - Oncology, transplant patients
 - · Cardiac/vascular diseases
 - Uncontrolled seizure disorders, etc.
- Children with craniofacial/structural anomalies
 - Genetic disorders, cleft lip and palate, craniofacial anomalies, VPI, sleep apnea
- · Healthy patients with significant dental issues



SIGNIFICANT DENTAL ISSUES

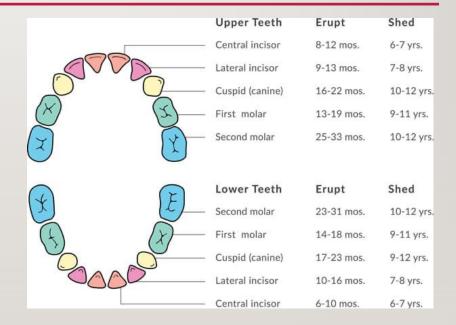
- Urgent, extensive or special oral needs
 - Early childhood caries (ECC)
 - Dental/Periodontal abscesses, facial cellulitis
 - Oral/Dental trauma
 - Oral Surgery needs (surgical extraction, frenectomy, gingivectomy, soft tissue biopsy
 - Unusual/rare dental conditions
 (amelogenesis imperfecta, dentinogenesis imperfecta, cleidocranial dysostosis, etc)



Dentinogenesis Imperfecta

WHY FIX BABY TEETH—THEY JUST FALL OUT

- Primary teeth are important for:
 - Chewing
 - Speaking
 - Esthetics
 - Hold space for adult teeth preventing orthodontic problems
 - Gives face shape and form for grown and development
- If not restored, decay will continue to worsen and eventually lead to pain, discomfort and infection



DENTAL CARIES/CAVITIES

- The CDC reports Dental Caries as being the, "most prevalent infectious disease in our nation's children."
- 5X more common than asthma
- Estimated that >40% of children have caries by kindergarten
- Preventable disease Education is key
- Source: https://www.cdc.gov/oralhealthdata/overview/nohss.html







EARLY CHILDHOOD CARIES

- Early Childhood Caries (ECC) is defined as the presence of one or more decayed (noncavitated or cavitated lesions), missing (due to caries), or filled tooth surfaces in any primary tooth in a child under the age of six.
 - Source: https://www.aapd.org/assets/1/7/d_ecc.pdf
- May be referred to as:
 - Baby bottle decay/Baby bottle mouth
 - Nursing bottle syndrome
 - Rampant caries

WHAT IS THE IMPACT OF ECC ON CHILDS QOL?

- Pre-school children do not necessarily complain of tooth pain
 - · They manifest the effects of pain by changing eating and sleeping patterns
- Reported effects of untreated caries include
 - · Low percentile weights and failure to thrive
 - Risk of delayed physical growth and development
 - Loss of school days
 - Diminished ability to learn: irritability., inability to concentrate
 - Pain
 - Risk of dental abscess, facial cellulitis, Ludwigs
 - · Hospitalizations and emergency room visits

Sources:

- Nora et. al. Ped. Dent. Vol.40/No.7 Nov/Dec 2018
- Fernandes et. al. Ped. Dent. Vol 39/No.2 Mar/Apr 2017



BEHAVIOR MANAGEMENT OPTIONS

- Non-pharmacological techniques
 - Tell-show-do
 - Positive reinforcement
 - Voice control
 - Distraction
 - Medical stabilization
- Nitrous oxide inhalation sedation
- Oral conscious sedation limited in RI
- Combination of oral and inhalation sedation
- General Anesthesia



RATIONALE FOR GENERAL ANESTHESIA

- Goal: Provide safe and comprehensive dental care for the pediatric patient with behavior, medical, or other problems that preclude treatment in the office setting by eliminating cognitive, sensory and skeletal motor activity in order to facilitate the delivery of quality comprehensive diagnostic, restorative, and other dental services
 - Provide safe, efficient, and effective dental care
 - Eliminate anxiety
 - Reduce untoward movement and reaction to dental treatment
 - Aid in treatment of the mentally, physically, or medically compromised
 - Eliminate the patients pain response



INDICATIONS FOR GENERAL ANESTHESIA

- Patients who cannot cooperate due to lack of psychological or emotional maturity and/or mental, physical or medical disability
- For whom local anesthesia is ineffective be of acute infection, anatomic variations or allergy
- Patients who are moderately to extremely uncooperative and have shown inability to respond to other behavioral guidance techniques (protect developing psyche of child)
- Those are who are verbally uncommunicative bc of psychosocial, medical or cultural situations
- Patients who have extensive orofacial and/or dental trauma
- Patients who require significant restorative/surgical procedures

OUT-PATIENT VS. IN-PATIENT

- Out-Patient (surgical center/same day)
 - Healthy Patient: ASAI/II
 - Advantages: More efficient, better tolerated by family, more patient friendly
- In-Patient (hospital setting)
 - ASA III and above
 - Possible overnight admission

Classification	Description
ASA 1	Healthy patients
ASA 2	Mild to moderate systemic disease caused by the surgical condition or by other pathological processes, and medically well controlled
ASA 3	Severe disease process which limits activity but is not incapacitating
ASA 4	Severe incapacitating disease process that is a constant threat to life
ASA 5	Moribund patient not expected to survive 24 hours with or without an operation
ASA 6	Declared brain-dead patient whose organs are being removed for donor purposes

PEDIATRIC DENTISTRY PROCEDURES IN OR: COMPREHENSIVE CARE

- Prevention
 - Cleaning, exam, fluoride tx, sealants
- Radiographs
 - X-rays of teeth
- Restorations
 - Composite restorations (white fillings)
 - Amalgam restorations (silver fillings)
 - Stainless steel crowns
 - Nerve treatments (pulpotomies, pulpectomies, root canal)



PEDIATRIC DENTISTRY PROCEDURES IN OR: COMPREHENSIVE CARE

- Extractions
 - Grossly decayed teeth
 - Extra teeth (supernumerary)
 - Orthodontic
- Space Maintainers
 - Guidance and growth



PEDIATRIC ORAL HEALTH IN RHODE ISLAND

- In 2022, there were 341 children & youth (under the age of 21) were treated for dental issues in the RI emergency departments. An increase from 2021 (288 children).
- In 2022, 58 children & youth were hospitalized with a dental problem diagnosis.
- Between 2019-2022, 21% of RI kindergartners and 24% of third graders had untreated tooth decay
 - Significant health disparities by race/ethnicity and income with Black, Hispanic and low-income children having the highest rates

Source: https://rikidscount.org/wp-content/uploads/2024/05/factbook2024_final-2.pdf

PEDIATRIC ORAL HEALTH IN PROVIDENCE

- Providence School System Dental Screening
 - K-5 annual dental screening, plus once from grades 6-8
- In 2024, 7483 students in the Providence School System screened
 - 1917 students in of dental care (routine care/fillings)
 - 506 students are in need of URGENT care: extreme oral health issues such as pain/swelling
 - In 2023, 3.7% of screened students need Urgent care vs 6.8% in 2024

Data: Provided by Dr. Gregory Stepka DMD

PEDIATRIC ORAL HEALTH IN RHODE ISLAND

- 12 access points to specialized pediatric dental care in RI (~27 providers)
 - Only 2 locations able to provide hospital services for pediatric patients
- Largest access point: NYU Langone/Providence and Samuels Sinclair Dental Clinic
 - Each are hospital-based with access to OR time
 - Difficulties in referring patients to these centers (no direct referrals)
- Limited oral and inhalation services available
 - Permitting issues for providers/offices

ACCESS TO CARE PROBLEMS IN RI

- Fatima and RI Hospital
 - Only two hospitals located in the northern part of the state providing GA services for dental Tx
 - Fatima: Limited availability as new surgeons from other services doing more "profitable" procedures
 - RI Hosp: will only allows union staff & OR time only available to Samuels doctors
- Newport, Kent Hospital (no longer doing dental services) & South County Hosp. (unable to provide services)
 - Southern RI with no access
 - Kent– lack of equipment
 - Anesthesia reimbursement issues?
 - Not profitable for hospital?
- There are NO in-patient hospital services available pediatric dental patients in RI
 - Patients must be referred out of state

WHAT CAN BE DONE TO IMPROVE ACCESS?

- Utilize existing out-patient surgical centers around the state
- In February 2023 Centers for Medicare & Medicaid Services with the input of ADA,
 AAPD, & AAOMS created HCPCS code G0330
 - This code allows for surgical centers to bill for dental rehabilitation in the outpatient setting. Historically, only cases completed in the hospital setting were eligible for payment.
- S-2751 sponsored by Senator Dipalma would adjust Medicaid reimbursement for dental procedures performed in ambulatory surgical centers.

RHODE ISLAND CHILDREN'S DENTISTRY

- Quick Look:
 - As of May 1, 2024:
 - 49 Patients awaiting OR treatment
 - 4 month wait if a patient is referred today



CONTACT INFORMATION

- John Kiang DMD
 - JohnPKiang@gmail.com
 - Cell: 617-480-6165
 - Office: 401-889-2638