

MARQUETTE UNIVERSITY SCHOOL OF DENTISTRY

# Demonstration of Dental Rounds Model in Public Health



Group 5

# Rounds Team

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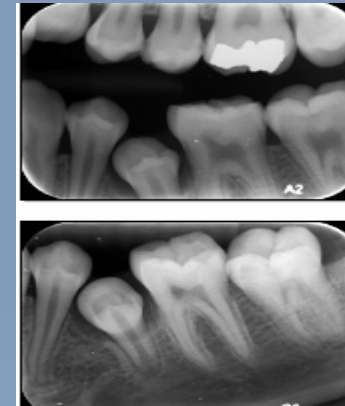
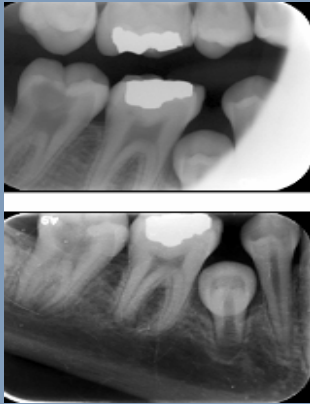
**Specialty Leader: Dr. Christopher Okunseri**

### **Patient: Rebecca**

- **14 year old Caucasian female**
- **East Troy, WI (Walworth)**
- **Medicaid Patient**
- **CC: “I want braces and my teeth hurt.”**

### **Medical and Dental History**

- **Asthma: uses Albuterol prn**
- **Irregular dental visits**
- **Brushes 2 times a day / Never flosses**
- **Consumes more than 3 snacks between meals, chews gum, and drinks 1-2 sodas a day**



## Significant Findings

- Past caries experience and restorations
- Untreated carious lesions
- Space loss/ Impacted Teeth
  - #6, 20 and 29
- Poor OH and heavy plaque

## Problem List

- Caries/Gross Caries
- Pain
- Home Care
- Crowding/Impacted Teeth
- Esthetics
- Diagnosis
  - primary caries and gingivitis

# Access (to Care)

## Definition

- McGraw-Hill Dictionary of Medical Medicine
- Institute of Medicine

## Factors Affecting Use of/Access to Services

- Gender
- Age
- Socioeconomic Status
- Race & Ethnicity
- Geographic Location
- General Health
- Dental Insurance

### Resources

Burt, Brian A., and Stephen A. Eklund. *Dentistry, Dental Practice, and the Community*. St. Louis, MO: Elsevier/Saunders, 2005.

Millman, Michael L. *Access to Health Care in America*. Washington, D.C.: National Academy, 1993.

Segen, J. C. *Concise Dictionary of Modern Medicine*. New York: McGraw-Hill, 2006.

# Medicaid Overview

- A Federally and State funded program for eligible individuals and families with low incomes
- Covers limited amount of procedures
- HMO's and SEDA (Southeast Dental Associates)
- Early Periodic Screening, Diagnosis and Treatment (EPSDT)
  - Comprehensive Child Care
- **Barrier's to Medicaid (43% WI Dentist participate)**
  - Low Reimbursement Rates
  - Low Patient Reliability
  - Limited Coverage
  - Extensive Paperwork

## References

Wisconsin Dental Association webpage [www.wda.org](http://www.wda.org)

US Department of Health and Human Services webpage- Centers for Medicare & Medicaid Services  
[www.cms.gov/home/medicaid](http://www.cms.gov/home/medicaid)

Dental Care Financing - Dr. Okunseri

# Clinical Question

- Is Fluoridated water effective in reducing dental caries in children?

## PICO

- P – Children
- I – Fluoridated Water
- C – Non-Fluoridated Water
- O – Dental Caries

## PICO Formatted Question

- In children, does fluoridated water reduce caries rate when compared to non-fluoridated water?

# Clinical Bottom Line

- **Children with fluoridated water had lower caries prevalence and less caries experience than children with non-fluoridated water.**



# Search Background

- **Dates of Search**

11/4-8/2011

- **Database used**

PubMed

- **Search strategy/Keywords**

- Fluoridated water in children: 533
- Fluoridated water dental caries: 503
- Fluoridated water dental caries in children: 363
- Effectiveness of fluoridated water: 58
- Fluoridated water dental caries in children with Medicaid: 2

## MeSH terms used

- "dental caries"[MeSH Terms]
- "fluoridation"[MeSH Terms]
- "public health"[MeSH Terms]
- "child"[MeSH Terms]

# Articles Cited

- Geographic variation in medicaid claims for dental procedures in New York State: role of fluoridation under contemporary conditions. Kumar JV, Adekugbe O, Melnik TA. Public Health Rep. 2010 Sep-Oct;125(5):647-54.
  - Study Design: Retrospective secondary data analysis
- Community Effectiveness of Public Water Fluoridation in Reducing Children's Dental Disease. Jason Mathew Armfield. Public Health Rep. 2010 Sep-Oct; 125(5): 655–664.
  - Study Design: Randomized Controlled Clinical Trial
- Is water fluoridation still necessary? Kumar JV. Adv Dent Res. 2008 Jul 1;20(1):8-12.
  - Study Design: Review

# Conclusion

- **Fluoridation in water decreased both dental caries prevalence and dental caries experience in children.**

# Discussion Questions??

