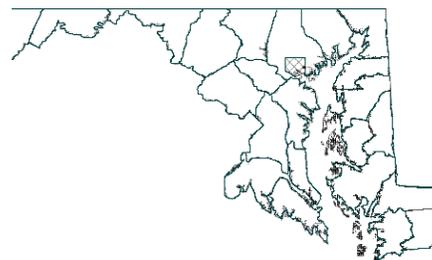


ISSUE 1— CHILDREN'S ORAL HEALTH , FEBRUARY 2013

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Oral Health Status of Maryland School Children

The Office of Oral Health (OOH), in conjunction with the University of Maryland Dental School, periodically surveys the oral health status of school children in Maryland (SB 596 - 1998). The surveys, conducted in 2000, 2005, and 2012, sample children in kindergarten and third grade (except in 2000 when ninth and tenth graders were also included).



For each survey year, the sample included all Maryland counties except for the following:

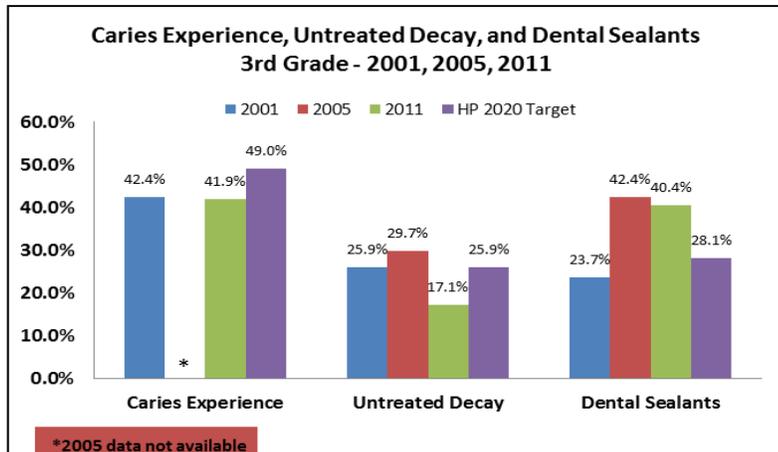
- 2000—Carroll and Worcester Counties
- 2005—Baltimore, Montgomery and Talbot Counties
- 2012—Montgomery County

The survey includes: (1) a health questionnaire that is sent to parents to assess the child's oral health including access to dental services; (2) a screening (oral examination) to determine the current oral health status of the child; and (3) a report sent to parents with the child's screening results.

Overall, the oral health status of Maryland school children has improved over the last decade. The number of children with untreated decay decreased by approximately 41% between 2001 and 2011 (23.1% to 13.7%). This decrease may be attributable to many factors, including an increase in access to care, more preventive programs, and an increase in community awareness. Additionally, there was an increase in the number of children who had at least one dental sealant on a permanent molar.

The 2011-2012** Oral Health Survey of Maryland School Children revealed that:

- ◆ 17.1% of third graders had untreated dental caries.
- ◆ 40.4% of third graders had at least one dental sealant on a permanent molar.
- ◆ 41.9% of third graders had experienced dental caries.



Dental caries experience is defined as the presence of either untreated or treated (restored in primary teeth; restored and extracted in permanent teeth) tooth decay.

The most recent survey results reveal that the prevalence of caries experience, untreated decay and the receipt of dental sealants in 3rd graders in Maryland met the recommended targets provided by Healthy People 2020 (HP 2020). In fact, Maryland exceeded the HP 2020 target for dental sealants by 12%.

**Macek MD, Chen H, Manz M, Collier S - 2011-2012 Oral Health Survey of MD School Children

Access, Disease, and Prevention

Dental caries is the most common chronic disease found in children. Preliminary results from the 2011-2012 oral health survey showed an overall dental caries prevalence of 33.2% for the State of Maryland. Dental caries cause irreversible damage to teeth, but dental sealants protect against them. Maryland's overall dental sealant prevalence is 32.9% on the permanent first molars of kindergarten and 3rd grade school children. In 2011, 17.1% of third graders had untreated dental caries compared to 29.7% in 2001.

When the data is broken down by regions, the results showed:

- ◆ The Eastern Shore had the highest prevalence of dental caries while MD/DC Metro Counties had the lowest.

- ◆ The Eastern Shore and Southern Maryland regions had the highest overall rate of dental sealants on permanent first molars.

In addition, preliminary analysis revealed that:

- ◆ Maryland public school children in kindergarten and 3rd grade without dental insurance (39.3%) were significantly less likely to report having a usual source of dental care ("dental home") than were those with private dental insurance (82.5%) or Medicaid/MCHP (76.9%).
- ◆ Maryland public school children in kindergarten and 3rd grade without dental insurance (54.4%) were significantly more likely to have reported not seeking dental care in

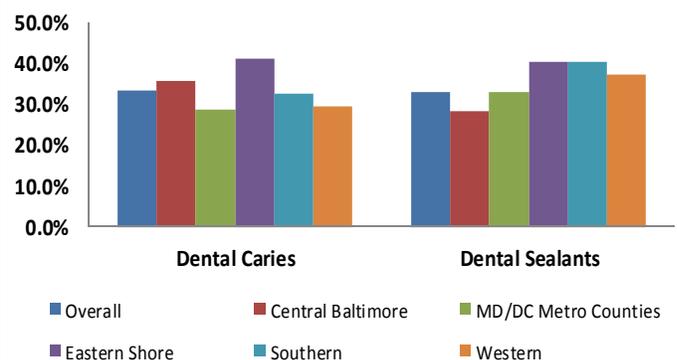
the last 12 months compared with those with private dental insurance (5.7%) or Medicaid/MCHP (5.0%).

- ◆ Maryland public school children in kindergarten and 3rd grade without dental insurance (27.0%) were significantly more likely to have had untreated dental caries in both the primary and permanent dentitions combined than were those with private dental insurance (10.6%).



The number of children with untreated decay decreased by approximately 41% between 2001 and 2011. In addition, Maryland met the recommended target provided by Healthy People 2020 for caries experience, untreated decay, and dental sealants. In fact, Maryland exceeded the HP 2020 target for dental sealants by 12%.

Prevalence of Dental Caries and Sealants by Regions for K and 3rd Grade, 2011



Central Baltimore – Anne Arundel, Baltimore City, Baltimore County, Harford

MD/DC Metro Counties – Howard, Montgomery, Prince George's

Eastern Shore – Caroline, Cecil, Dorchester, Kent, Queen Anne's, Somerset, Talbot, Wicomico

Southern – Calvert, Charles, St. Mary's

Western – Allegany, Carroll, Frederick, Garrett, Washington

Emergency Room Oral Health Visits: Children 0—20 Years Old*

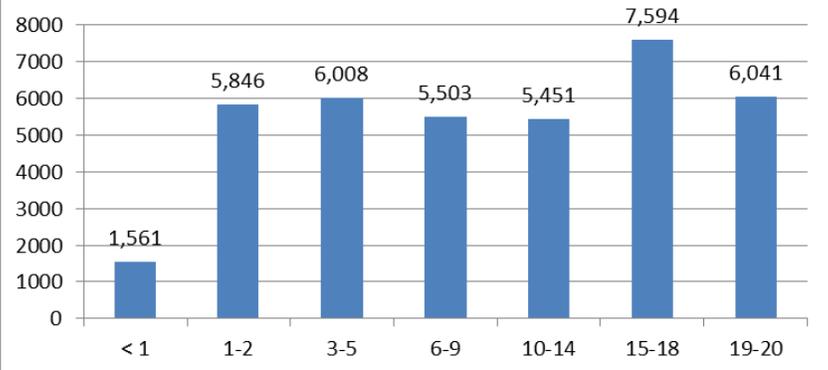
Between 2010 and 2011, children ages 0–20 accounted for approximately 38,000 emergency room visits related to dental conditions and/or injuries in Maryland. The cost of these dental visits and/or injuries totaled roughly \$17 million. In 2011, Medicaid paid for 43% of the total costs, private health insurance covered 42% of individuals, and 11% of patients were self-paying.

About 20% of children with dental related emergency room visits were 15-18 years old. The majority (98%) of children in this age group were outpatient cases. Children under 2 years of age had the second highest number of emergency department visits.

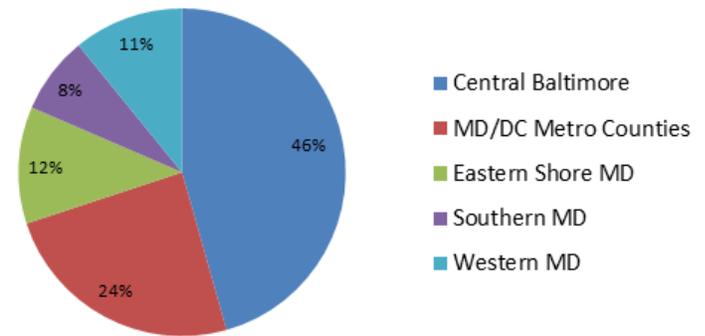
ER Visits by MD Regions:

Between 2010-2011, the majority of children's (0-20) emergency room dental visits were in Central Baltimore (46%). Baltimore City accounts for approximately 38% of all visits in Central Baltimore and the highest (6,053) amongst all the counties in Maryland. Baltimore County had the second highest number (5,018) of dental emergency room visits in children, followed by Prince George's County.

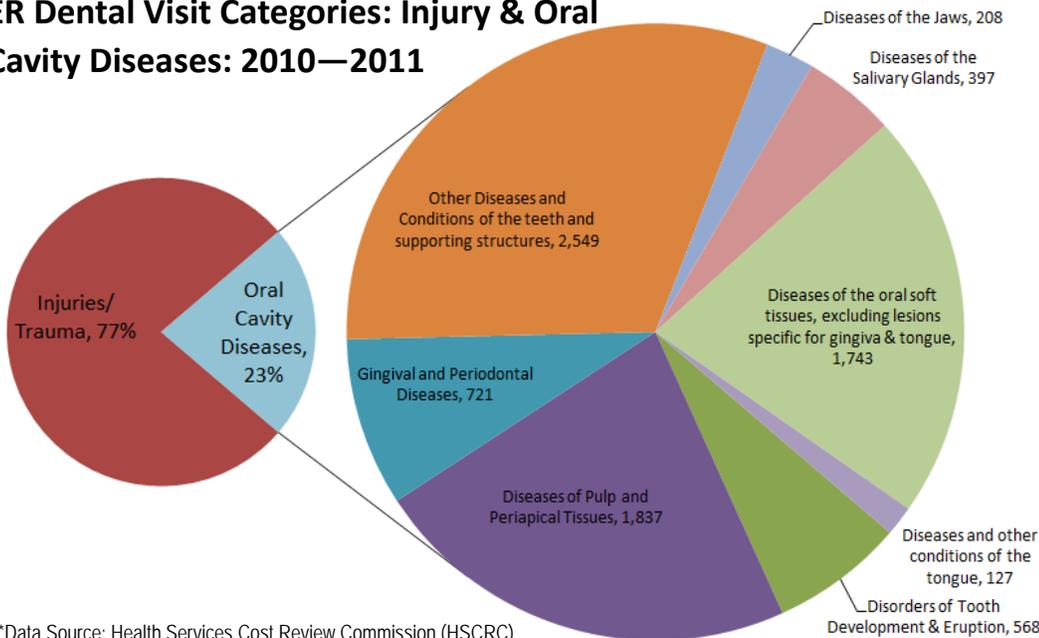
Total ER Dental Visits by Age Groups 2010-2011



Percentage of Dental ER Visits (Children 0-20) by Region, 2010- 2011



ER Dental Visit Categories: Injury & Oral Cavity Diseases: 2010—2011



Dental Codes:

Of all children's (0-20) emergency room dental visits in Maryland in 2010-2011, **77% of the children's conditions were injury and/or trauma-related**, while 23% were actual dental diseases and/or conditions of the oral cavity. Further examination of the dental diseases of the oral cavity showed that 31% were conditions of the teeth and supporting structures, 22% diseases of pulp and periapical tissues, and 21% diseases of the oral soft tissues.

*Data Source: Health Services Cost Review Commission (HSCRC)

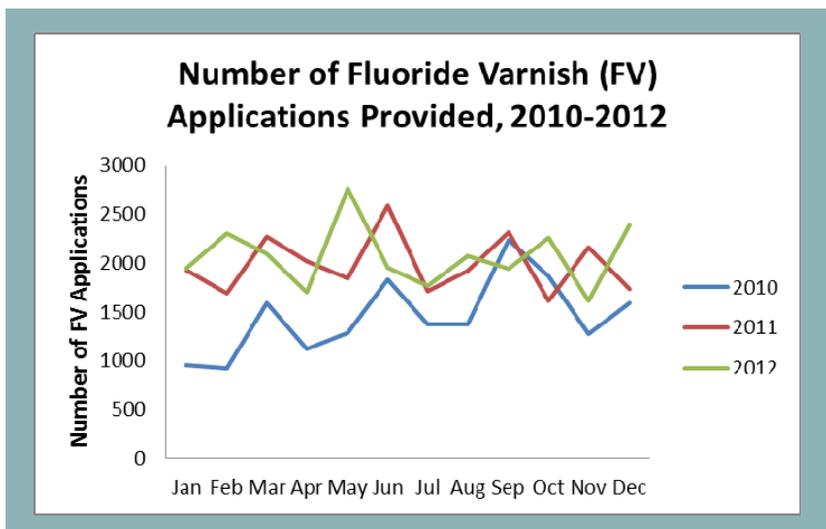
MARYLAND'S MOUTHS MATTER

Fluoride Varnish and Oral Health Screening Program

The goal of the Maryland's Mouths Matter: Fluoride Varnish (FV) and Oral Health Screening Program for Kids is to reduce the incidence of tooth decay in children ages 3 and under and contribute to the establishment of a dental home. Established in July 2009, the program began with approximately 278 providers who were enrolled, trained and ready to bill with DentaQuest (Maryland's Medicaid Dental Administrator). By December of 2012, that number increased to 397 providers.

As of December 2012, the Maryland's Mouths Matter: Fluoride Varnish Program:

- ◆ Trained approximately 700 providers, of which 500 are Early & Periodic Screening, Diagnosis and Treatment service providers (EPSDT).
- ◆ Provided approximately 71,000 fluoride varnish applications to children ages three and under.



ORAL DISEASE AND INJURY PREVENTION PROGRAM

Children's Clinical Program

Every year, the Office of Oral Health (OOH) awards grants to local health departments to provide oral health services to their communities based on specified need. Priority is given to: (1) children's oral health care clinical programs; (2) off-site component dental programs that include screening and fluoride treatment services; (3) adult oral health care clinical program; (4) oral cancer primary and secondary prevention services; and (5) water fluoridation.

- ◆ Overall, the local health departments provided services to 57,441 children in FY11 and FY12. These children averaged 1.5 visits per year at their local health department.
- ◆ In an effort to expand the statewide dental sealant program, the OOH funded 4 additional LHDs sealant initiatives, in addition to the existing seven awards in FY 2013.

Office of Oral Health Funded Children's Clinical Visits at Local Health Departments

	Total Number of Children Seen	Total Number of Children with Clinical Visits	Number of Dental Sealants On-Site/Off-Site
FY 2011	27,386	45,570	8,679*
FY 2012	30,055	41,864	8,818*

*Please note, not all local health departments operate Dental Sealant Programs.

GET THE FACTS

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Helping Maryland Smile

<http://phpa.dhmh.maryland.gov/oralhealth/>