



Tripartite Collaboration to Improve Student Oral Health in Chicago

Chicago Department of Public Health

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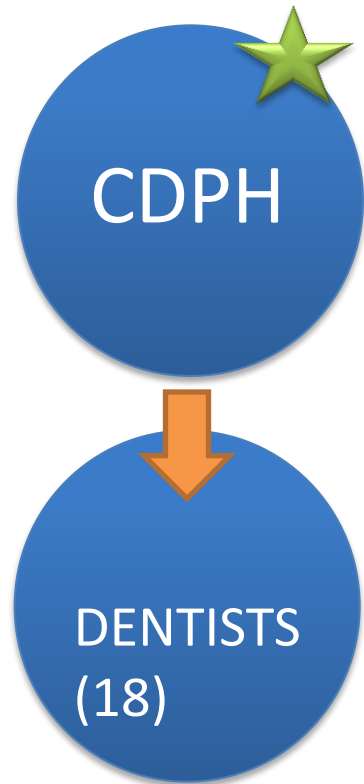
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Oral Health Partnership in Chicago

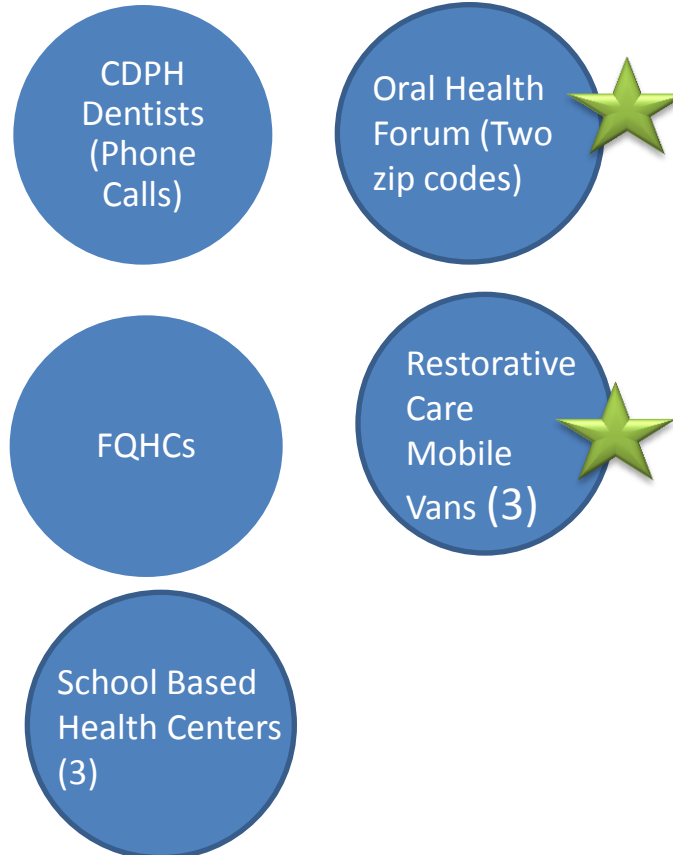
- Chicago Department of Public Health
- Chicago Public Schools
- The Oral Health Forum
- Restorative Care Van (Norwegian American Hospital Dental Van)

School – Based Oral Health Partners (Follow-Up Care)

SEALANT PROGRAM



CASE MANAGEMENT



ORAL HEALTH ED.



School - Based Sealant Program Overview



School Based Oral Health Program Overview

- Intergovernmental Agreement between Chicago Public Schools and Chicago Department of Public Health
- Established in 2000
- CDPH contracts with 18 Private Providers to deliver:
 - Exam, Cleaning, Fluoride treatment & Sealants
 - Referral for Follow-up (Scores of 1,2,3)
 - Quality Assurance

Program History

- Started in 2000 with 7 CPS schools
 - 2nd and 6th grades
 - Provided Oral Health Services for ~ 500 students
- Program developed over time to include all grades from Pre – K to High School
- Case Management Pilot initiated in 2013

Participation Numbers Over Time

- **Participation in the program decreased for the first time in the program's history in school year 2013-2014**
 - In SY 2011-2012, 118,000 students participated
 - In SY 2012-2013, 121,000 students participated
 - In SY 2013-2014, 113,000 students participated
 - In SY 2014-2015, 115,000 students participated
 - In SY 2015-2016, 109,000* students participated
- On average, up to 35% of students seen require restorative care
- * 2015 – 2016 schools have not all been reported

Healthy CPS Indicator



Launching SY 2015-2016. School dental participation a criterion in the Health Services category of the indicator. If a school does not participate, they will not achieve Healthy CPS status.

School Based Oral Health Program

Administrative Staffing

Chicago Department of Public Health	CPS
<ul style="list-style-type: none"> School Based Dental Staff includes a Director, assigned epidemiologist (data), a dentist, administrative support from CDPH Deputy Commissioner, and 4 quality assurance/case management staff 	<ul style="list-style-type: none"> CPS staff includes one FTE in OSHW that works on school based dental .16% of her time (115 funds)
<ul style="list-style-type: none"> CDPH and CPS enter IGA 	<ul style="list-style-type: none"> CPS and CDPH enter IGA
<ul style="list-style-type: none"> Manages the contracts with the private dentists (3 year duration) 	<ul style="list-style-type: none"> Ensures that dental consents are sent to schools at the beginning of the year
<ul style="list-style-type: none"> Assigns the dentists to schools and charter schools 	<ul style="list-style-type: none"> Communicates school dental assignments, dental FAQs, parent letters to schools via Knowledge Center, Weekly Alerts, etc.
<ul style="list-style-type: none"> Manages the scheduling (Google calendar). Dentists make first contact with schools and are beholden to a Medicaid billing cycle (will not enter school before they can bill) 	<ul style="list-style-type: none"> Presents on dental to CPS staff whenever possible (health fairs, counselors, school nurses)
<ul style="list-style-type: none"> Manages quality assurance (random visits to schools while dentists are providing services) 	<ul style="list-style-type: none"> Intervenes as necessary when a school refuses dental, or when a school has a complaint about a dental provider (emails, individual meetings, phone calls)
<ul style="list-style-type: none"> Collects dental data from dentists and shares with CPS for IMPACT upload 	<ul style="list-style-type: none"> Collects dental data from CDPH and uploads into IMPACT; enters PPM requests for changes to dental data

CPS School Based Dental Program

Program free to schools and students

All students PreK-12th grade are eligible

School Assigned Dentist schedules date with school

School provides school schedule and alpha list to dental team

Dental team provides dental exams, cleanings and sealants as necessary to consented students

School must assign a designee (must be at the school everyday)

School secures adequate space for the dental team (1-2 classrooms)

Average time per a student is 15-20 minutes and average students seen per a day is 60

School will collect as many dental consents as possible (schools with FRM over 80% should aim for 50%)

School promotes the dental program to staff, families and students

All students provided with Walk-Out Letter for parents, and dental program data uploaded into IMPACT SIM

Oral Health Education



The Beginning

- Conducted Focus Groups in Chicago Public Schools (CPS) with Parent Groups and Administration
- What we learned was the need for Oral Health Education back in the schools without adding to the teacher's workload
- This led to the development of the Oral Health Education Curriculum

Where We're at Now

- Have expanded our OHE network of schools throughout the City of Chicago
- Working hand in hand with case management team to get OHE in targeted zip codes (with high rates of dental caries)
- Train pre-dental and dental hygiene students as Oral Health Educators to expand outreach
- Participate in community wide events including health fairs and career days
- Educating parents to reinforce oral health topics

Oral Health Education

- A Comprehensive 20 minute presentation
- Covers variety of topics
 - Causes of Tooth Decay/Dental Caries
 - Brushing Teeth
 - Flossing
 - Fluoride
 - Eating healthy
 - Special Topics: Drugs, Mouth Guards
 - The Importance of seeing a dentist
- 10 Minutes for Q & A

The Oral Health Forum

- Numbers of students reached through Oral Health Education in proceeding years:
- 2012-13:12,559 (pilot)
- 2013-14:17,779
- 2014-15:27,455
- 2015-16: 27,137(In Progress)
- Park Districts



Oral Health Education

- School year 2015-16
 - Schools-43, a 19% increase in schools
 - Students-22,443
 - Park District- In progress
 - Health Fair-4,694 (In Progress) (2,816 children)
- Total of Children seen-25,259
- The average rating for teacher's evaluation
 - 4.93 on 5 points scale

Pre and Post Test Results

1. Should I brush my teeth 2x a day?

Pre-test results 94%

Post-test results 100%

2. Is pop/soda healthy for my teeth?

Pre-test results 88%

Post-test results 97%

3. Is a cavity caused by germs and sugar?

Pre-test results 81%

Post-test results 100%

4. If my adult teeth fall out, will they grow back?

Pre-test results 76%

Post-test results 98%

5. Do I use my teeth when I talk?

Pre-test results 82%

Post-test results 100%

Case Management/Restorative Care



School – Based Oral Health Case Management Overview

- Partnership with FQHCs, Dental Vans, Contracted Dentists
- Data Matching with HFS/ S.A. Sprague Grant
 - Target zip codes: 60623, 60629 & 60632
 - Partner with Oral Health Forum (OHF)
 - 2 Case managers to link ~800 students with urgent referrals to treatment
 - Oral Health Education and increase consent return
- Partnership with Chicago Dental Society
 - Increase private dental referral sites

Oral Health Forum: Case Management Pilot Project

- Started with 2 zip codes in Chicago with highest number of children with urgent dental needs: 60629 and 60632
 - 891 parents contacted
 - 365 children seen by dentist
 - 381 children have already an appointment
- In 2015-16, services expanded to an additional zip codes: 60623
 - 789 children seen by dentist
 - 261 children have already an appointment
 - 496 parents contacted

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Oral Health Education



Every year, OHF Oral Health (OH) Educators visit CPS classrooms to provide OH education and send written information and screening consent forms home to parents/caregivers (~20,000 students)

- Goals:
- Increase OH knowledge
 - Increase number of consent forms by 10%

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Screening & Prevention



All CPS students with a signed consent form receive OH services (fluoride, dental cleaning, sealants, screening) at school and are given an OH score:

- ① Good oral health
- ② 1-5 cavities; not urgent
- ③ Urgent: 5+ cavities/pain/infection

Oral Health Cycle
Overall Goal:
 Improve OH outcomes

Goal: 100% students to find a dental home

NEW

Case Management Pilot

For all students with an OH score of 3, a case manager will:

- Identify & address families' needs for additional information & resources
- Help families overcome barriers to accessing needed OH treatment
- Work with community dental providers to ensure that children receive timely treatment (~800 students)

Goal: 100% of parents and caregivers are informed about OH status

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Inform Parents/ Caregivers



Parents/caregivers receive a letter confirming the OH screening and informing them of the results.



OHF: The Oral Health Forum
 CDPH: Chicago Department of Public Health
 CPS: Chicago Public Schools
 OH: Oral Health

OHF: Pilot Environmental Scan (SY15-16)

- In SY15, a total of 1,715 children from the 39 schools targeted in this CM intervention were assigned to OHF for case management. From those:
 - **1,069** children were identified as having urgent dental needs.
 - Approximately **50%** of the children with urgent needs (**533**) were from **3** schools.
 - Case managers were able to contact and inform parents/caregivers of **1,349 children (79%)**, and of those contacted, **76% (n=1023)** reported not knowing/not remembering being informed of their children's dental needs.

OHF: Some Initial Findings (SY15-16)

- Parents need education
- Parent risk behaviors
- Community providers found it difficult to refer specialty care for cases that could not be handled in their office.
- Providers felt IDHS and HFS processes were frustrating

OHF: Oral Health Champion Initiative

- Three schools had 50% of the most 2s and 3s
- Three schools receive \$2,000 Mini-Grants to participate in the more intensive oral health initiatives
- Champions identified (all different roles in school – asst. principal, social worker, and office clerk)
- Different oral health activities at the schools

Restorative Van – Norwegian American Hospital Dental Van



Norwegian American Hospital Dental Van



- The Norwegian American Hospital Pediatric began to treat patients in April 2015.
- The mission of the Norwegian American Hospital Pediatric Dental Van is to address unmet needs of restorative dental care for the students of the Chicago Public Schools (CPS) and the community.

Norwegian American Hospital Dental Van



- In 2015, the Norwegian American Hospital Pediatric Dental Van served 665 patients. All 665 patients received preventive care with 212 patients receiving restorative treatment.
- In 2016, the Norwegian American Hospital Pediatric Dental Van has treated 360 patients creating a total of 1000 patients. All 360 patients received preventive care with 190 patients receiving restorative care. Of those seen 208 patients achieved treatment completion.

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