

EAU CLAIRE THIRD GRADE SURVEY RESULTS

2011-2012

SURVEY BACKGROUND:

In fall of 2011, as part of a community dental health class project, 12 second year dental hygiene students from Chippewa Valley Technical College and two registered dental hygienists contracted through the Eau Claire City-County Health Department conducted the first third grade survey for the County. At the beginning of the clinical year, the students were calibrated prior to the school screenings. The state oral epidemiologist determined the sample size and 10 schools out of 15 were selected. The screenings were conducted utilizing a nationally recognized basic screening survey recommended by the Association of State and Territorial Dental Directors (ASTDD). The survey was conducted over a 6 month period. The data entry was completed in early spring of 2012. The state oral epidemiologist assisted with the analysis and results.

Acknowledgements:

Funding assistance:

Luther Foundation – Mayo Health Systems in Eau Claire, WI

Technical Assistance:

Melissa Olson, MS, State Oral Epidemiologist,

Lisa Bell, RDH, MPH, state dental hygienist

Kelly O'Brien – data entry

Linda Bohacek, MA, CDHC, RDH, project coordinator/data entry/calibration

Sarah Pedersen, RDH, calibration

Monica Donnellan, BS, RDH, Instructor CVTC /calibration,

Debra Schumacher, ME-PD, RDH, Instructor CVTC/calibration

Survey Screeners: Chippewa Valley Technical College Dental Hygiene Program, Class of 2012

Jeanne Chastan, Wendy Dahleen, Brianna DeGrasse, Renee Dischler, Amanda Falch, Chelsea Frion, Ashley Hagmann, Ashley Lukas, Kelsey Lind, Cassandra Michels, Michelle Mogensen, and Kelly O'Brien

Table 1: Age, gender, race/ethnicity, location, and free/reduced meal eligibility of Eau Claire County third grade students with an oral health screening

Variable	Number of Children	Percent of Children*
Age		
8 years	416	77.8
9 years	118	22.1
10 years	1	0.2
Gender		
Female	240	44.9
Male	295	55.1
Race/Ethnicity		
White	457	85.4
Other	78	14.6
Location		
Eau Claire (City)	358	66.9
Other	177	33.1
Free/Reduced Meal Eligibility		
<35%	179	33.5
35-50%	212	39.6
>50%	144	26.9
Community Water Fluoridation Status		
Fluoridated	410	76.6
Not Fluoridated	125	23.4
Total with Oral Health Screening	535	100

*Percentages may not add up to 100 due to rounding

Table 2: Oral health status of Eau Claire County third grade students compared to 2007-08 regional and statewide survey results of third grade students

Variable	Eau Claire County Percent (95%CI)	Western Region Percent (95%CI)	Wisconsin Percent (95%CI)
Caries Experience	48.2 (44.0, 52.5)	53.8 (50.3, 57.3)	54.7(53.2, 56.2)
Untreated Decay	18.9 (15.6, 22.2)	20.7 (17.9, 23.5)	20.1 (18.9, 21.3)
Need Dental Care (early & urgent)	19.3 (15.9, 22.6)	-	19.7 (18.5, 20.9)
Need Early Care	15.5 (12.4, 18.6)	20.9 (18.1, 23.7)	17.0 (15.9, 18.2)
Need Urgent Care	3.7 (2.1, 5.4)	4.7 (3.2, 6.2)	2.7 (2.2,3.2)
Dental Sealants	66.2 (62.1, 70.2)	61.0 (57.7, 64.4)	50.8 (49.3, 52.3)

Table 3: Oral health status of Eau Claire County third grade students, by gender

Percent and 95% confidence interval

Variable	Gender	
	Female (n = 240)	Male (n = 295)
Caries Experience	44.2 (37.9, 50.5)	52.5 (45.8, 57.2)
Untreated Decay	13.8 (9.4, 18.1)	23.1 (18.2, 27.9)
Need Dental Care (early & urgent)	14.2 (9.7, 18.6)	23.4 (18.5, 28.2)
Dental Sealants	67.1 (61.1, 73.0)	65.4 (60.0, 70.9)

Values in shaded boxes had a Chi-square p-value <0.05 and are statistically significant

Table 4: Oral health status of Eau Claire County third grade students, by race/ethnicity

Percent and 95% confidence interval

Variable	Race/Ethnicity	
	White (n = 457)	Other (n = 78)
Caries Experience	46.2 (41.6, 50.8)	60.3 (49.4, 71.2)
Untreated Decay	16.8 (13.4, 20.3)	30.8 (20.5, 41.0)
Need Dental Care (early & urgent)	17.1 (13.6, 20.5)	32.1 (21.7, 42.4)
Dental Sealants	67.8 (63.5, 72.1)	56.4 (45.4, 67.5)

Values in shaded boxes had a Chi-square p-value <0.05 and are statistically significant

Table 5: Oral health status of Eau Claire County third grade students, by location

Percent and 95% confidence interval

Variable	Location of School	
	Eau Claire (n = 358)	Other (n = 177)
Caries Experience	43.6 (38.4, 48.7)	57.6 (50.3, 64.9)
Untreated Decay	15.1 (11.4, 18.8)	26.6 (20.0, 33.1)
Need Dental Care (early & urgent)	15.4 (11.6, 19.1)	27.1 (20.5, 33.7)
Dental Sealants	64.2 (59.3, 69.2)	70.1 (63.3, 76.8)

Values in shaded boxes had a Chi-square p-value <0.05 and are statistically significant

Table 6: Oral health status of Eau Claire County third grade students, by percent of students eligible for free/reduced price meals

Percent and 95% confidence interval

Variable	Percent of Students Eligible for Free/Reduced Price Meals		
	<35% (n =179)	35-50% (n = 212)	>50% (n = 144)
Caries Experience	36.9 (29.8, 44.0)	50.5 (43.7, 57.2)	59.0 (51.0, 67.1)
Untreated Decay	12.3 (7.5, 17.1)	17.9 (12.7, 23.1)	28.5 (21.1, 35.9)
Need Dental Care (early & urgent)	12.3 (7.5, 17.1)	18.4 (13.2, 23.6)	29.2 (21.7, 36.6)
Dental Sealants	65.9 (59.0, 72.9)	63.2 (56.7, 69.7)	70.8 (63.4, 78.3)

Values in shaded boxes had a Chi-square p-value <0.05 and are statistically significant

Table 7: Oral health status of Eau Claire County third grade students, by community water fluoridation status

Percent and 95% confidence interval

Variable	Fluoridation Status	
	Fluoridated (n = 410)	Not Fluoridated (n = 125)
Caries Experience	44.4 (39.6, 49.2)	60.8 (52.2, 69.4)
Untreated Decay	15.9 (12.3, 19.4)	28.8 (20.8, 36.8)
Need Dental Care (early & urgent)	16.1 (12.5, 19.7)	29.6 (21.6, 37.6)
Dental Sealants	65.9 (61.2, 70.5)	67.2 (58.9, 75.5)

Values in shaded boxes had a Chi-square p-value <0.05 and are statistically significant

