

**THE DENTAL COMPLIANCE AND DENTAL HEALTH STATUS OF
SCHOOL-AGE CHILDREN OF KINDERGARTEN,
SECOND, AND SIXTH GRADES IN ILLINOIS
FOR THE 2006-2007 SCHOOL YEAR**

ILLINOIS STATE BOARD OF EDUCATION

**Data Analysis and Progress Reporting Division
September 2007**

**Jesse H. Ruiz, Chairman
State Board of Education**

**Christopher A. Koch, Ed. D.
State Superintendent
of Education**

TABLE OF CONTENTS

FOREWORD.....		iii
BACKGROUND.....		iv
MAJOR FINDINGS.....		1
LIMITATIONS.....		2
PROCEDURES.....		3
RESULTS.....		4
Compliance Data.....		4
Statewide Compliance.....		4
Public District Compliance.....		4
Nonpublic School Compliance.....		4
Compliance by Grade Level.....		5
Dental Health Status of Students with Complete Dental Examination.....		5
Table 1	2006-2007 Dental Compliance Summaries of Reported Educational Facilities.....	6
Table 2	2006-2007 Dental Examination Status for All Reported Illinois Public and Nonpublic School Students.....	7
Table 3	2006-2007 Dental Examination Status for All Reported Illinois Public School Students.....	8
Table 4	2006-2007 Dental Examination Status for All Reported Illinois Nonpublic School Students.....	9
Table 5	2006-2007 Dental Examination Status of <i>Kindergarten</i> Students in All Reported Public and Nonpublic Educational Facilities.....	10
Table 6	2006-2007 Dental Examination Status of 2 nd <i>Grade</i> Students in All Reported Public and Nonpublic Educational Facilities.....	11

Table 7	2006-2007 Dental Examination Status of 6 th <i>Grade</i> Students in All Reported Public and Nonpublic Educational Facilities.....	12
Table 8	2006-2007 Dental Health Status of All Students in All Reported Public and Nonpublic Educational Facilities.....	13
Table 9	2006-2007 Dental Health Status of <i>Kindergarten</i> Students in All Reported Public and Nonpublic Educational Facilities.....	14
Table 10	2006-2007 Dental Health Status of 2 nd <i>Grade</i> Students in All Reported Public and Nonpublic Educational Facilities.....	15
Table 11	2006-2007 Dental Health Status of 6 th <i>Grade</i> Students in All Reported Public and Nonpublic Educational Facilities.....	16

FOREWORD

Dental data are collected annually from Illinois Public and Nonpublic Schools as required by Section 27-8.1 (105 ILCS 5/27-8.1) of the School Code. This report is a compilation of the 2006-2007 data on the dental health of school-age children in grades kindergarten, second, and sixth in Illinois with the exception of Chicago Public Schools (CPS). The interpretations and conclusions expressed herein were based on the available data and do not necessarily reflect the official position or policy of the Illinois State Board of Education. Inquiries regarding this report should be directed to Md. Shafiqul Azam at 217 782-3950.

BACKGROUND

As mandated by Section 27-8.1 (105 ILCS 5/27-8.1) of the School Code, all children in kindergarten, second, and sixth grade are to have dental examinations by May 15th of each year in order to be in compliance with the rules adopted by the Department of Public Health. In addition, the School Code requires all public school districts and nonpublic schools to submit completed surveys to the Illinois State Board of Education summarizing the dental compliance status of all children in grades kindergarten, second, and sixth by June 30 of each year. This report provides a summary of the data collected. It should be noted that the City of Chicago Public Schools did not submit data on dental examinations.

MAJOR FINDINGS

The 2006-2007 dental examination status data of school-age children in kindergarten, second, and sixth grade reported in Illinois schools (except CPS) indicates the following:

- The compliance level of all students in all reported schools was 80.39%.
- The compliance level of public school students in all reported schools was 78.81%.
- The compliance level of nonpublic school students in all reported schools was 91.47%.
- A statewide total of 78,524 reported students (19.61%) of the total reported students (400,443) were in noncompliance with the dental examination mandates on May 15, 2007.
- The compliance level of all reported students in kindergarten was 86.10%. Compliance rates for public and nonpublic schools were 85.06% and 92.73% respectively.
- The compliance level of all reported students in 2nd grade was 81.48%. Compliance rates for public and nonpublic schools were 80.12% and 91.18% respectively.
- The compliance level of all reported students in 6th grade was 73.76%. Compliance rates for public and nonpublic schools were 71.55% and 90.35% respectively.
- Compliance levels obtained for nonpublic schools were much higher than those for public schools by overall measure as well as by grade levels.
- Data for one of the two Other State Funded Schools that submitted dental data was included in the public school data.

LIMITATIONS

The followings should be considered while interpreting the results provided in this report.

1. Dental data obtained from public schools does not include dental data from Chicago Public Schools, the largest public school district in Illinois.
2. Of the 2,470 active public schools (without CPS) in 768 active public school districts that serve any combination of kindergarten, 2nd, and 6th grades, dental data was obtained from 2,361 public schools.
3. Of the 1,174 active nonpublic schools dental data was obtained from 772 schools.
4. Public school dental data represents 750 of the 768 active public school districts (without CPS) that serve any combination of kindergarten, 2nd, and 6th grades.
5. In some instances total percentage may not add up to 100% due to rounding error.

PROCEDURES

Data collection instruments and procedures used to collect dental data were developed by staff of the Illinois State Board of Education in consultation with staff from the Illinois Department of Public Health. However, from the 2005-2006 school year, the paper-based instrument was replaced with a web-based online survey. Only students of kindergarten, second, and sixth grade require having dental examinations.

School administrators are required to provide information on the number of children who have received the required dental examination, the number of children who have not received the required dental examination, the number of children who are exempt from the dental examination on religious grounds, the number of children who have received a waiver or exemption, and the number of children with scheduled appointments. From 2006-2007 school year, additional data elements like counts on dental sealants, caries/restoration history, and untreated caries were also included in the collection process. The online dental survey must be completed between May 16 and June 30 of each year.

RESULTS

Compliance Data

Compliance for students (only those in kindergarten, second, and sixth grade) were calculated based upon the information provided by Illinois school officials. Data reported by school officials show overall compliance with the requirements of the dental examination mandate. Students in noncompliance (those in 2nd and 6th grade) could have their report cards withheld by school authorities.

Students were identified as being in compliance with state law if they presented proof of having a dental examination, had religious exemptions, had received a waiver for the dental examination due to undue burden or lack of access to a dentist, or if they were on an approved schedule for a dental examination.

Statewide Compliance. Table 1 provides the 2006-2007 compliance levels for all reported school-age children of kindergarten, 2nd, and 6th grades in Illinois. The compliance level for the total 400,443 reported public and nonpublic children in Illinois was 80.39%. The data shows 78,524 children (19.61%) are in noncompliance because they did not have a dental examination done or did not get a waiver/exemption on religious grounds.

Public District Compliance. For Illinois public school districts, the compliance level for the total 350,371 reported children was 78.81% (Table 1).

Nonpublic School Compliance. Of the 772 nonpublic schools that submitted dental data, the compliance level was 91.47% (Table 1), which is significantly higher than that for public schools.

Table 2 displays statewide dental examination status information including the number of students who obtained waivers, scheduled dental appointments, or obtained exemptions from dental examinations on religious grounds. Statewide, 78.54% of students had had dental examinations done, 1.85% complied by obtaining a waiver, religious exemption, or approved schedules for a dental appointment, and 19.61% were in noncompliance.

Table 3 displays public school dental examination status information including the number of students who obtained waivers, scheduled dental appointments, or obtained exemptions from dental examinations on religious grounds. Within public school districts, 76.97% of students had had dental examinations done, 1.84% complied by obtaining a waiver, religious exemption, or approved schedules for a dental appointment, and 21.19% were in noncompliance.

Table 4 displays nonpublic school dental examination status information including the number of students who obtained waivers, scheduled a dental appointment, or obtained exemptions from dental examinations on religious grounds. Within nonpublic schools, 89.50% of students had

had dental examinations done, 1.97% complied by obtaining a waiver, religious exemption, or approved schedules for a dental appointment, and 8.53% were in noncompliance. Compliance rates for nonpublic schools were much higher than that for public schools.

Compliance by Grade Level. Tables 5, 6, and 7 provide dental examination status for kindergarten, 2nd, and 6th grade students (statewide, public, and nonpublic facilities) respectively.

Kindergarten. When both public and nonpublic schools are considered, 86.10% students were found to be in compliance (including those with waivers, religious exemptions, or with approved schedules for dental examinations). For public schools, the compliance rate was 85.06%, and for nonpublic schools, the compliance rate was 92.73%, which is significantly higher than the public school compliance rate.

2nd Grade. A compliance rate of 81.48% was observed with combined public and nonpublic school students. The public school compliance rate was 80.12%. The nonpublic school compliance rate (91.18%) was higher than the public school compliance rate.

6th Grade. The 6th grade compliance rates were 73.76%, 71.55%, and 90.35% for all schools, public schools, and nonpublic schools respectively. We can see a wide gap in compliance levels between public and nonpublic schools.

A closer look at Tables 5, 6, and 7 reveals that the compliance rate gradually decreases with the increase in grade levels for both public and nonpublic schools. While this decline is insignificant for nonpublic schools, it is very pronounced in public schools. It is not clear why this is so.

Dental Health Status of Students with Complete Dental Examination. Table 8 provides dental health status (number students with or without dental sealants, number of children with or without caries experience, number of students with or without untreated caries, and number of students who need urgent dental treatment) for statewide, public, and nonpublic facilities respectively. A review of Table 8 indicates that among all examined public and nonpublic school students in grades Kindergarten, 2nd, and 6th, 28.51% had Dental Sealants, 27.93% were with Caries/Restoration History, 19.19% were with untreated caries, and 1.97% need urgent treatment. The corresponding figures for students from public and nonpublic educational entities were 28.23%, 28.33%, 20.57%, 2.22%, and 30.24%, 25.54%, 10.89%, 0.46% respectively. Statistics indicate that in general nonpublic school students had better dental health indices.

Tables 9, 10, and 11 provide dental health status for students in Kindergarten, 2nd, and 6th grades respectively.

Table1. 2006-2007 Dental Compliance Summaries of Reported Educational Facilities

Compliance Status	Public Schools		Nonpublic Schools		All Schools	
	Number of Students	Percent	Number of Students	Percent	Number of Students	Percent
Students in Compliance as of June 30, 2007	276,118	78.81	45,801	91.47	321,919	80.39
Students not in compliance	74,253	21.19	4,271	8.53	78,524	19.61
All Students	350,371	100.00	50,072	100.00	400,443	100.00

Table 2. 2006-2007 Dental Examination Status for All Reported Illinois Public and Nonpublic School Students

Compliance Status	Number of Students	Percent
In compliance with complete dental examination	314,506	78.54
Approved appointment scheduled	3,030	0.76
Religious Exemption	92	0.02
Waiver:		
Enrolled in the free and reduced lunch program and is ineligible for public insurance (Medicaid/All Kids)	453	0.11
Do not have any type of dental insurance, and there are no low-cost dental clinics in the community to see the children	915	0.23
Enrolled in the free and reduced lunch program and is not covered by private or public dental insurance (Medicaid/All Kids)	1,533	0.38
Enrolled in Medicaid/All Kids, but unable to find a dentist or dental clinic in the community that is able to see the children and accept Medicaid/All Kids	1,390	0.35
Students not in compliance	78,524	19.61
Total	400,443	100.00

Table 3. 2006-2007 Dental Examination Status for All Reported Illinois Public School Students

Compliance Status	Number of Students	Percent
In compliance with complete dental examination	269,690	76.97
Approved appointment scheduled	2,255	0.64
Religious Exemption	63	0.02
Waiver:		
Enrolled in the free and reduced lunch program and is ineligible for public insurance (Medicaid/All Kids)	435	0.12
Do not have any type of dental insurance, and there are no low-cost dental clinics in the community to see the children	852	0.24
Enrolled in the free and reduced lunch program and is not covered by private or public dental insurance (Medicaid/All Kids)	1,452	0.41
Enrolled in Medicaid/All Kids, but unable to find a dentist or dental clinic in the community that is able to see the children and accept Medicaid/All Kids	1,371	0.39
Students not in compliance	74,253	21.19
Total	350,371	100.00

Table 4. 2006-2007 Dental Examination Status for All Reported Illinois Nonpublic School Students

Compliance Status	Number of Students	Percent
In compliance with complete dental examination	44,816	89.50
Approved appointment scheduled	775	1.55
Religious Exemption	29	0.06
Waiver:		
Enrolled in the free and reduced lunch program and is ineligible for public insurance (Medicaid/All Kids)	18	0.04
Do not have any type of dental insurance, and there are no low-cost dental clinics in the community to see the children	63	0.13
Enrolled in the free and reduced lunch program and is not covered by private or public dental insurance (Medicaid/All Kids)	81	0.16
Enrolled in Medicaid/All Kids, but unable to find a dentist or dental clinic in the community that is able to see the children and accept Medicaid/All Kids	19	0.04
Students not in compliance	4,271	8.53
Total	50,072	100.00

Table 5. 2006-2007 Dental Examination Status of *Kindergarten* Students in All Reported Public and Nonpublic Educational Facilities

Compliance Status	Public Schools		Nonpublic Schools		All Schools	
	Number of Students	Percent	Number of Students	Percent	Number of Students	Percent
In compliance with complete dental examination	95,769	83.65	16,329	91.04	112,098	84.65
Approved appointment scheduled	583	0.51	245	1.37	828	0.63
Religious Exemption	20	0.02	12	0.07	32	0.02
Waiver:						
Enrolled in the free and reduced lunch program and is ineligible for public insurance (Medicaid/All Kids)	107	0.09	7	0.04	114	0.09
Do not have any type of dental insurance, and there are no low-cost dental clinics in the community to see the children	195	0.17	19	0.11	214	0.16
Enrolled in the free and reduced lunch program and is not covered by private or public dental insurance (Medicaid/All Kids)	288	0.25	12	0.07	300	0.23
Enrolled in Medicaid/All Kids, but unable to find a dentist or dental clinic in the community that is able to see the children and accept Medicaid/All Kids	424	0.37	8	0.04	432	0.33
Not in compliance	17,108	14.94	1,304	7.27	18,412	13.90
Total	114,494	100	17,936	100	132,430	100

Table 6. 2006-2007 Dental Examination Status of 2nd Grade Students in All Reported Public and Nonpublic Educational Facilities

Compliance Status	Public Schools		Nonpublic Schools		All Schools	
	Number of Students	Percent	Number of Students	Percent	Number of Students	Percent
In compliance with complete dental examination	91,173	78.46	14,472	89.25	105,645	79.78
Approved appointment scheduled	795	0.68	238	1.47	1,033	0.78
Religious Exemption	18	0.02	11	0.07	29	0.02
Waiver:						
Enrolled in the free and reduced lunch program and is ineligible for public insurance (Medicaid/All Kids)	139	0.12	10	0.06	149	0.11
Do not have any type of dental insurance, and there are no low-cost dental clinics in the community to see the children	251	0.22	23	0.14	274	0.21
Enrolled in the free and reduced lunch program and is not covered by private or public dental insurance (Medicaid/All Kids)	321	0.28	23	0.14	344	0.26
Enrolled in Medicaid/All Kids, but unable to find a dentist or dental clinic in the community that is able to see the children and accept Medicaid/All Kids	410	0.35	8	0.05	418	0.32
Not in compliance	23,099	19.88	1,430	8.82	24,529	18.52
Total	116,206	100	16,215	100	132,421	100

Table 7. 2006-2007 Dental Examination Status of 6th Grade Students in All Reported Public and Nonpublic Educational Facilities

Compliance Status	Public Schools		Nonpublic Schools		All Schools	
	Number of Students	Percent	Number of Students	Percent	Number of Students	Percent
In compliance with complete dental examination	82,748	69.15	14,015	88.03	96,763	71.36
Approved appointment scheduled	877	0.73	292	1.83	1,169	0.86
Religious Exemption	25	0.02	3	0.02	31	0.02
Waiver:						
Enrolled in the free and reduced lunch program and is ineligible for public insurance (Medicaid/All Kids)	189	0.16	1	0.01	190	0.14
Do not have any type of dental insurance, and there are no low-cost dental clinics in the community to see the children	406	0.34	21	0.13	427	0.31
Enrolled in the free and reduced lunch program and is not covered by private or public dental insurance (Medicaid/All Kids)	843	0.70	46	0.29	889	0.66
Enrolled in Medicaid/All Kids, but unable to find a dentist or dental clinic in the community that is able to see the children and accept Medicaid/All Kids	537	0.45	3	0.02	540	0.40
Not in compliance	34,046	28.45	1,537	9.65	35,583	26.24
Total	119,671	100	15,921	100	135,592	100

Table 8. 2006-2007 Dental Health Status of Students in All Reported Public and Nonpublic Educational Facilities

Dental Health Status	Public Schools		Nonpublic Schools		All Schools	
	Number of Students	Percent	Number of Students	Percent	Number of Students	Percent
In compliance with complete dental examination	269,690		44,816		314,506	
With Dental Sealants	76,127	28.23	13,552	30.24	89,679	28.51
Without Dental Sealants	193,563	71.77	31,264	69.76	224,827	71.49
With Caries Experience/Restoration History	76,395	28.33	11,448	25.54	87,843	27.93
Without Caries Experience/Restoration History	193,295	71.67	33,368	74.46	226,663	72.07
With Untreated Caries	55,485	20.57	4,880	10.89	60,365	19.19
Without Untreated Caries	214,205	79.43	39,936	89.11	254,151	80.81
Needing Urgent Treatment	5,991	2.22	204	0.46	6,195	1.97

Table 9. 2006-2007 Dental Health Status of Students in *Kindergarten* in All Reported Public and Nonpublic Educational Facilities

Dental Health Status	Public Schools		Nonpublic Schools		All Schools	
	Number of Students	Percent	Number of Students	Percent	Number of Students	Percent
In compliance with complete dental examination	95,769		16,329		112,098	
With Dental Sealants	8,137	8.50	2,571	15.74	10,708	9.55
Without Dental Sealants	87,632	91.50	13,758	84.26	101,390	90.45
With Caries Experience/Restoration History	19,410	20.27	3,120	19.11	22,530	20.10
Without Caries Experience/Restoration History	76,359	79.73	13,209	80.89	89,568	79.90
With Untreated Caries	20,261	21.16	1,833	11.23	22,094	19.71
Without Untreated Caries	75,508	78.84	14,496	88.77	90,004	80.29
Needing Urgent Treatment	2,400	2.51	67	0.41	2,467	2.20

Table 10. 2006-2007 Dental Health Status of 2nd Grade Students in All Reported Public and Nonpublic Educational Facilities

Dental Health Status	Public Schools		Nonpublic Schools		All Schools	
	Number of Students	Percent	Number of Students	Percent	Number of Students	Percent
In compliance with complete dental examination	91,173		14,472		105,645	
With Dental Sealants	29,236	32.07	4,494	31.05	33,730	31.93
Without Dental Sealants	61,937	67.93	9,978	68.95	71,915	68.07
With Caries Experience/Restoration History	29,187	32.01	3,908	27.00	33,095	31.33
Without Caries Experience/Restoration History	61,986	67.99	10,564	73.00	72,550	68.67
With Untreated Caries	21,688	23.79	1,718	11.87	23,406	22.16
Without Untreated Caries	69,485	76.21	12,754	88.13	82,239	77.84
Needing Urgent Treatment	2,519	2.76	90	0.62	2,609	2.47

Table 11. 2006-2007 Dental Health Status of 6th Grade Students in All Reported Public and Nonpublic Educational Facilities

Dental Health Status	Public Schools		Nonpublic Schools		All Schools	
	Number of Students	Percent	Number of Students	Percent	Number of Students	Percent
In compliance with complete dental examination	82,748		14,015		96,763	
With Dental Sealants	38,754	46.83	6,487	46.29	45,241	46.75
Without Dental Sealants	43,994	53.17	7,528	53.71	51,522	53.25
With Caries Experience/Restoration History	27,798	33.59	4,420	31.54	32,218	33.30
Without Caries Experience/Restoration History	54,950	66.41	9,595	68.46	64,545	66.70
With Untreated Caries	13,536	16.36	1,329	9.48	14,865	15.36
Without Untreated Caries	69,212	83.64	12,686	90.52	81,898	84.64
Needing Urgent Treatment	1,072	1.30	47	0.34	1,119	1.16