

**IMMUNIZATION STATUS OF SCHOOL-  
AGE CHILDREN IN ILLINOIS FOR  
SCHOOL YEAR 2010-2011**

**ILLINOIS STATE BOARD OF EDUCATION  
Data Analysis and Progress Reporting Division**

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## TABLE OF CONTENTS

<b>Foreword</b> .....	<b>i</b>
<b>Background</b> .....	<b>ii</b>
<b>Major Findings</b> .....	<b>1</b>
<b>Procedure</b> .....	<b>2</b>
<b>Results</b> .....	<b>3</b>
<b>Compliance Data</b>	
<b>Statewide Compliance</b> .....	<b>3</b>
<b>Public School District Compliance</b> .....	<b>3</b>
<b>Nonpublic School Compliance</b> .....	<b>4</b>
<b>Protection Levels</b>	
<b>Statewide Protection</b> .....	<b>4</b>
<b>Public School District Protection</b> .....	<b>4</b>
<b>Nonpublic School Protection</b> .....	<b>5</b>
<b>Table 1. 2010-2011 Student Enrollment and Compliance Summary of Reported Educational Facilities</b> .....	<b>6</b>
<b>Table 2. 2010-2011 Immunization Status for All Reported Illinois Public and Nonpublic School Students, by Disease Category</b> .....	<b>7</b>
<b>Table 3. 2010-2011 Immunization Status for All Reported Illinois Public School Students, by Disease Category</b> .....	<b>8</b>
<b>Table 4. 2010-2011 Immunization Status for All Reported Illinois Nonpublic School Students, by Disease Category</b> .....	<b>9</b>

## **FOREWORD**

Immunization data are collected annually from Illinois public and nonpublic schools. This report is a compilation of data on the immunization status of school-age children in Illinois for school year 2010-2011. The interpretations and conclusions expressed herein are based on the available data and do not necessarily reflect the official position or policy of the Illinois State Board of Education. Direct inquiries regarding this report to Mr. Md. Shafiqul Azam in the Illinois State Board of Education Division of Data Analysis and Progress Reporting at 217/782-3950.

## **BACKGROUND**

As mandated by Section 27-8.1 of the Illinois School Code, all Illinois children must comply with immunization and health examination requirements established by the Illinois Department of Public Health. In addition, the Illinois School Code requires all public and nonpublic schools to submit to the Illinois State Board of Education completed surveys summarizing the compliance status of all children as of October 15, or an earlier exclusion date established by the public school district or nonpublic school. This report summarizes the statewide immunization and health examination compliance data.

## MAJOR FINDINGS

The 2010-2011 immunization status of school-age children, as reported by Illinois schools, reveals the following facts and figures:

- The compliance level of all students in all reported schools is 97.32 percent.
- The compliance level of public school students in all reported schools is 97.20 percent.
- The compliance level of nonpublic school students in all reported schools is 98.35 percent.
- The data by specific disease category, based on the percentage of total reported students, reveal that no more than 1.92 percent of reported Illinois students are unprotected and not in compliance in any of the eight disease categories (polio, DTP/DTaP/Td, measles, rubella, mumps, varicella/chickenpox, hepatitis B, and Haemophilus influenza type b–Hib). However, varicella/chickenpox, hepatitis B, and Hib percentages are calculated based on the number of children *required to be immunized*. For varicella/chickenpox, 0.81 percent of the required preK through Grade 8 students are unprotected and not in compliance. For hepatitis B, 0.62 percent of the required preK and Grades 5-12 children are unprotected and not in compliance. For Hib, 1.92 percent of the required preschool children are unprotected and not in compliance.
- Statewide, a total of 61,754 students (2.68 percent of the total reported student enrollment of 2,302,118) were not in compliance with immunization and/or health examination mandates as of October 15, 2010, or as of an earlier exclusion date established by a public district or nonpublic school. Of this number, 41,415 children were not in compliance with immunization requirements in at least one disease category, while 20,339 were not in compliance with the health examination requirement only.
- Of the submitted public school districts, four have compliance levels of less than 90 percent.
- None of the schools from nine public school districts submitted data. These are mainly small school districts.
- Not all schools from 32 public school districts submitted data. Most of these fall into the category of small school districts.
- Of the 1,109 reported nonpublic schools, 44 (3.97 percent) have compliance levels of less than 90 percent.

## **PROCEDURE**

Data collection instruments and procedures used to collect immunization and health examination data were developed by staff of the Illinois State Board of Education in consultation with staff from the Illinois Department of Public Health. Data collection of the Immunization School Survey was conducted using an online system.

School administrators are required to provide information on the total number of children enrolled, the total number of children in compliance, and the total number of children not in compliance for each of the eight disease categories, by grade level. The online immunization survey must be completed annually by November 15.

## RESULTS

### Compliance Data

Compliance and protection levels for students are calculated based on the information provided by Illinois school officials. Data reported by school officials show overall compliance with the requirements of the student health mandates for both immunizations and health examinations. Students not in compliance are required to be excluded from school until their health examination and immunization records are in compliance with state law. Protection levels refer only to immunizations and denote the reported immunity against specific communicable diseases.

Students are identified as being in compliance with state law if they present proof of immunizations and/or health examinations, have exemptions for religious or medical reasons on file with the local school authority, or are on an approved schedule for completion of immunizations in a series.

#### *Statewide Compliance*

Table 1 (page 6) presents the 2010-2011 compliance levels for all reported school-age children in Illinois. The compliance level for the total 2,302,118 reported public and nonpublic school children in Illinois is 97.32 percent. The data show 61,754 children (2.68 percent of the total student enrollment) are not in compliance with immunization and/or health examination mandates. Of this number, 41,415 (1.80 percent of the total student enrollment) children are not in compliance with immunization requirements in at least one disease category, while 20,339 (0.88 percent of the total student enrollment) were not in compliance with the health examination requirement only. As of October 15, 2010, or as of an earlier exclusion date established by a public school district or nonpublic school, 9,214 children were excluded from Illinois schools. The number of exclusions continues to be significantly lower than the actual number of children not in compliance. This may be attributed partly to transfer students without records. Transfer students cannot be excluded from school, but they must be reported as not being in compliance because records are not available to document immunization status.

#### *Public School District Compliance*

For Illinois public school districts, the compliance level for the total 2,067,753 reported children is 97.20 percent. (See Table 1, page 6). Of the 57,887 public school children not in compliance, 38,674 are not compliant in one or more disease categories, while 19,213 are not in compliance with the health examination requirement only. The number of students excluded from school as of October 15, 2010, or as of an earlier exclusion date established by a school district, was 8,834.

Four public school districts failed to meet 90 percent compliance. However, nine public school districts did not submit any data and 32 public school districts submitted partial data (i.e., not all schools in the district submitted data). Illinois law does not specify a compliance level for individual schools within public school districts.

### ***Nonpublic School Compliance***

Of the 1,109 nonpublic schools that submitted immunization data, 44 (3.97 percent) failed to meet the 90 percent compliance level.

Of the 3,867 nonpublic children reported to be not in compliance, 2,741 were not in compliance with immunization requirements in at least one disease category, while 1,126 were not in compliance with the health examination requirement only. The number of students excluded from school as of October 15, 2010, or as of an earlier exclusion date established by a nonpublic school, was 380.

### **Protection Levels**

In order to be counted as fully protected, a student must present proof that the immunization series has been completed and/or present verification of immunity. The Illinois Department of Public Health has determined that a 90 percent protection level against each disease is recommended in order to prevent epidemics.

#### ***Statewide Protection***

Table 2 (page 7) presents the numbers and protection-level percentages of all reported students who are fully protected against the diseases of polio, DTP/DTaP/Td, measles, rubella, mumps, varicella/chickenpox, hepatitis B, and Hib. Varicella/chickenpox, hepatitis B, and Hib protection-level percentages are determined based on the actual number of children *required to be immunized*. Hepatitis B is required for children in preK and grades 5-12. Hib is required only for children under 59 months of age entering a school program below the kindergarten level (all preK students). Varicella/chickenpox is required for all students entering preK through grade 8 for the 2010-2011 school year.

The 2010-2011 protection-level percentages of all reported students are 98.39 percent for polio, 97.94 percent for DTP/DTaP/Td, 98.31 percent for measles, 98.74 percent for rubella, and 98.74 percent for mumps. The reported levels of protection for varicella/chickenpox, hepatitis B, and Hib, based on the actual number of children *required to be immunized*, are 98.40 percent, 98.69 percent, and 96.71 percent, respectively.

The percentage of all reported students who are unprotected and not in compliance with immunization requirements is 1.92 percent or less across all eight disease categories. The reported percentages of students unprotected and not in compliance, based on the actual number of children *required to be immunized*, are 0.81 percent for varicella/chickenpox, 0.62 percent for hepatitis B, and 1.92 percent for Hib.

#### ***Public School District Protection***

As reported in Table 3 (page 8), the levels of protection for public school students, by disease category, are 98.47 percent for polio, 97.97 percent for DTP/DTaP/Td, 98.40 percent for measles, 98.86 percent for rubella, and 98.87 percent for mumps. The reported levels of protection for varicella/chickenpox, hepatitis B, and Hib, based on the actual number of children *required to be immunized*, are 98.56 percent, 98.81 percent, and 96.90 percent, respectively.



The percentage of all reported public school students who were unprotected and not in compliance with immunization requirements is 2.15 percent or less across all eight disease categories. The reported percentages of students unprotected and not in compliance, based on the actual number of children *required to be immunized*, are 0.80 percent for varicella/chickenpox, 0.60 percent for hepatitis B, and 2.15 percent for Hib.

### ***Nonpublic School Protection***

The levels of protection for nonpublic school students, by disease category, as reported in Table 4 (page 9), are 97.68 percent for polio, 97.61 percent for DTP/DTaP/Td, 97.56 percent for measles, 97.66 percent for rubella, and 97.65 percent for mumps. The reported levels of protection for varicella/chickenpox, hepatitis B, and Hib, based on the actual number of children *required to be immunized*, are 97.09 percent, 97.67 percent, and 96.28 percent, respectively.

The percentage of nonpublic school students who are unprotected and not in compliance with immunization requirements is 1.40 percent or less across all eight disease categories. The reported percentages of students unprotected and not in compliance, based on the actual number of children *required to be immunized*, are 0.90 percent for varicella/chickenpox, 0.81 percent for hepatitis B, and 1.40 percent for Hib.

**Table 1. 2010-2011 Student Enrollment and Compliance Summary 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 October 15, 2010	2,009,866	97.20	230,498	98.35	2,240,364	97.32
Students not in compliance with:						
Immunization requirements	38,674	1.87	2,741	1.17	41,415	1.80
Health examination only	19,213	0.93	1,126	0.48	20,339	0.88
<b>All Students</b>	<b>2,067,753</b>	<b>100.00</b>	<b>234,365</b>	<b>100.00</b>	<b>2,302,118</b>	<b>100.00</b>
Students excluded from school as of October 15, 2010, or as of an earlier exclusion date established by the district or nonpublic school.	8,834	0.43	380	0.16	9,214	0.40

**Table 2. 2010-2011 Immunization Status for All Reported Illinois Public and Nonpublic School Students, by Disease Category**

Immunization Status	Polio		DTP/DTaP/Td		Measles		Rubella		Mumps		Varicella/ChickenPox PreK-Grade 8		Hepatitis B PreK & Grades 5-12		Hib PreK	
	Number of Students	% of Total	Number of Students	% of Total	Number of Students	% of Total	Number of Students	% of Total	Number of Students	% of Total	Number of Students	% of Total	Number of Students	% of Total	Number of Students	% of Total
Protected and in compliance	2,265,126	98.39	2,254,609	97.94	2,263,227	98.31	2,273,159	98.74	2,273,194	98.74	1,595,325	98.40	1,447,060	98.69	106,697	96.71
Religious objection	9,167	0.40	9,540	0.41	9,528	0.41	8,937	0.39	8,953	0.39	7,162	0.44	4,836	0.33	596	0.54
Medical reasons	2,103	0.09	2,711	0.12	3,657	0.16	2,223	0.10	2,206	0.10	2,308	0.14	2,222	0.15	170	0.15
Approved schedule	4,927	0.21	6,251	0.27	4,711	0.20	3,821	0.17	3,808	0.17	3,312	0.20	3,042	0.21	737	0.67
Unprotected and in noncompliance	20,795	0.90	29,007	1.26	20,995	0.91	13,978	0.61	13,957	0.61	13,190	0.81	9,097	0.62	2,123	1.92
<b>Total</b>	<b>2,302,118</b>	<b>100.00</b>	<b>2,302,118</b>	<b>100.00</b>	<b>2,302,118</b>	<b>100.00</b>	<b>2,302,118</b>	<b>100.00</b>	<b>2,302,118</b>	<b>100.00</b>	<b>1,621,297</b>	<b>100.00</b>	<b>1,466,257</b>	<b>100.00</b>	<b>110,323</b>	<b>100.00</b>

Percentages may not equal 100 due to rounding.

**Table 3. 2010-2011 Immunization Status for All Reported Illinois Public School Students, by Disease Category**

Immunization Status	Polio		DTP/DTaP/Td		Measles		Rubella		Mumps		Varicella/ChickenPox PreK-Grade 8		Hepatitis B PreK & Grades 5-12		Hib PreK	
	Number of Students	% of Total	Number of Students	% of Total	Number of Students	% of Total	Number of Students	% of Total	Number of Students	% of Total	Number of Students	% of Total	Number of Students	% of Total	Number of Students	% of Total
Protected and in compliance	2,036,208	98.47	2,025,851	97.97	2,034,584	98.40	2,044,283	98.86	2,044,328	98.87	1,421,296	98.56	1,299,491	98.81	74,589	96.90
Religious objection	7,299	0.35	7,662	0.37	7,560	0.37	7,012	0.34	7,027	0.34	5,408	0.38	3,754	0.29	285	0.37
Medical reasons	1,784	0.09	2,414	0.12	3,240	0.16	1,817	0.09	1,799	0.09	1,726	0.12	1,951	0.15	87	0.11
Approved schedule	3,499	0.17	4,728	0.23	3,249	0.16	2,414	0.12	2,397	0.12	2,053	0.14	2,086	0.16	360	0.47
Unprotected and in noncompliance	18,963	0.92	27,098	1.31	19,120	0.92	12,227	0.59	12,202	0.59	11,568	0.80	7,880	0.60	1,655	2.15
<b>Total</b>	<b>2,067,753</b>	<b>100.00</b>	<b>2,067,753</b>	<b>100.00</b>	<b>2,067,753</b>	<b>100.00</b>	<b>2,067,753</b>	<b>100.00</b>	<b>2,067,753</b>	<b>100.00</b>	<b>1,442,051</b>	<b>100.00</b>	<b>1,315,162</b>	<b>100.00</b>	<b>76,976</b>	<b>100.00</b>

Percentages may not equal 100 due to rounding.

**Table 4. 2010-2011 Immunization Status for All Reported Illinois Nonpublic School Students, by Disease Category**

Immunization Status	Polio		DTP/DTaP/Td		Measles		Rubella		Mumps		Varicella/ChickenPox PreK-Grade 8		Hepatitis B PreK & Grade 5-12		Hib PreK	
	Number of Students	% of Total	Number of Students	% of Total	Number of Students	% of Total	Number of Students	% of Total	Number of Students	% of Total	Number of Students	% of Total	Number of Students	% of Total	Number of Students	% of Total
Protected and in compliance	228,918	97.68	228,758	97.61	228,643	97.56	228,876	97.66	228,866	97.65	174,029	97.09	147,569	97.67	32,108	96.28
Religious objection	1,868	0.80	1,878	0.80	1,968	0.84	1,925	0.82	1,926	0.82	1,754	0.98	1,082	0.72	311	0.93
Medical reasons	319	0.14	297	0.13	417	0.18	406	0.17	407	0.17	582	0.32	271	0.18	83	0.25
Approved schedule	1,428	0.61	1,523	0.65	1,462	0.62	1,407	0.60	1,411	0.60	1,259	0.70	956	0.63	377	1.13
Unprotected and in noncompliance	1,832	0.78	1,909	0.81	1,875	0.80	1,751	0.75	1,755	0.75	1,622	0.90	1,217	0.81	468	1.40
<b>Total</b>	<b>234,365</b>	<b>100.00</b>	<b>234,365</b>	<b>100.00</b>	<b>234,365</b>	<b>100.00</b>	<b>234,365</b>	<b>100.00</b>	<b>234,365</b>	<b>100.00</b>	<b>179,246</b>	<b>100.00</b>	<b>151,095</b>	<b>100.00</b>	<b>33,347</b>	<b>100.00</b>

Percentages may not equal 100 due to rounding.