

2007 SELECTIVE REVIEW RESULTS
CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, IMMUNIZATION BRANCH

Introduction

The annual selective review conducted each spring provides information on compliance with the California School Immunization Law. The purpose of this review is to evaluate the enforcement of the immunization requirements and the follow-up of students who are missing immunizations. This report presents results from this year's selective review and the attached tables present comparisons of immunization coverage among the selected schools.

Methods and Participants

This year's selective review was conducted in a sample of approximately 2-5% of California's schools. Local health departments visited 248 schools with kindergartens and 214 schools with seventh grades. During this site visit there was a short interview with school administrators. In addition, a complete review of student immunization records was conducted. For kindergarten, data were analyzed by comparing immunization coverage reported by schools during the fall and those reported by local health departments during the spring. For seventh grade, schools did not report on immunization coverage during the fall.

Results and Discussion

Overall, results of the 2007 selective review indicate that schools are in compliance with the California School Immunization Law. Over 90% of kindergarten and seventh grade students had received all the required immunizations and coverage for each vaccine was above 95%.

Kindergarten (Table 1)

The percent of kindergarten students with all required immunizations measured during the spring selective review ($95.2 \pm 0.9\%$) was similar to that measured during the fall assessment ($93.8 \pm 1.2\%$). As in previous years, estimates of immunization coverage in the selected kindergartens varied by the type of school (public or private). In the spring, the percent of students with all required immunizations was higher in public schools ($96.1 \pm 0.8\%$) than in private schools ($87.5 \pm 4.6\%$).

Seventh Grade (Table 2)

The percent of seventh grade students with all required immunizations measured during the spring selective review was $94.8 \pm 1.8\%$. Only $3.79 \pm 1.74\%$ of seventh grade students were missing one or more of the required immunizations. The percent of students with permanent medical exemptions and personal beliefs exemptions were $0.09 \pm 0.07\%$ and $1.38 \pm 0.48\%$, respectively.

Conclusion

Maintaining compliance with the California School Immunization Law requires school administrators to have a thorough understanding of the immunization requirements. Selective review provides an opportunity to educate staff regarding the requirements and to emphasize the importance of following up on students who are missing

immunizations. Higher coverage levels measured in the spring could be an indication that follow-up of conditional entrants is occurring. Conversely, similar or lower estimates of coverage measured in the spring could be an indication that more support and training for schools in conducting follow-up would be beneficial.

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SELECTIVE REVIEW
CALIFORNIA, 2007

Table 1: Kindergarten Immunization Coverage, Comparison of Fall 2006 Assessment and Spring 2007 Selective Review

	All Schools n = 248		Public Schools n = 165		Private Schools n = 83	
	Fall 2006 Assessment	Spring 2007 Selective Review	Fall 2006 Assessment	Spring 2007 Selective Review	Fall 2006 Assessment	Spring 2007 Selective Review
Total Enrollment	14,024	14,308	12,375	12,711	1,649	1,597
All Required Immunizations	93.8% \pm 1.2%	95.2% \pm 0.9%	94.1% \pm 1.3%	96.1% \pm 0.8%	92.1% \pm 3.9%	87.5% \pm 4.6%
Conditional Entrants	4.57% \pm 1.07%	2.87% \pm 0.71%	4.55% \pm 1.18%	2.26% \pm 0.71%	4.79% \pm 2.27%	8.04% \pm 3.32%
Permanent Medical Exemptions	0.15% \pm 0.10%	0.17% \pm 0.09%	0.16% \pm 0.11%	0.15% \pm 0.10%	0.06% \pm 0.12%	0.25% \pm 0.24%
Personal Belief Exemptions	1.43% \pm 0.51%	1.78% \pm 0.57%	1.22% \pm 0.46%	1.47% \pm 0.46%	3.09% \pm 2.63%	4.37% \pm 3.46%
DTaP (4+) ¹	97.2% \pm 0.7%	98.4% \pm 0.4%	97.2% \pm 0.7%	98.8% \pm 0.4%	96.8% \pm 1.9%	95.2% \pm 2.6%
Polio (3+) ²	97.5% \pm 0.7%	98.7% \pm 0.4%	97.5% \pm 0.7%	99.1% \pm 0.3%	97.3% \pm 1.7%	95.4% \pm 2.5%
MMR (2+) ³	97.3% \pm 0.7%	98.5% \pm 0.5%	97.4% \pm 0.8%	98.9% \pm 0.5%	97.0% \pm 1.8%	95.3% \pm 2.6%
Hep B (3+) ⁴	98.7% \pm 0.4%	99.3% \pm 0.2%	98.6% \pm 0.5%	99.4% \pm 0.2%	99.6% \pm 0.3%	98.9% \pm 0.6%
Var (1+) ⁵	99.0% \pm 0.4%	99.6% \pm 0.2%	99.1% \pm 0.4%	99.7% \pm 0.2%	98.9% \pm 0.9%	98.9% \pm 0.7%

1. Four or more doses of any diphtheria and tetanus toxoids and pertussis vaccines including diphtheria and tetanus toxoids, and any acellular pertussis vaccine

2. Three or more doses of any poliovirus vaccine

3. Two or more doses of measles, mumps, and rubella vaccines, separately or combined on or after the 1st birthday

4. Three or more doses of hepatitis B vaccine

5. One or more doses of varicella vaccine, adjusted for history of varicella disease

SELECTIVE REVIEW
CALIFORNIA, 2007

Table 2: Seventh Grade Immunization Coverage, Spring 2007 Selective Review

	All Schools n = 214	Public Schools n = 111	Private Schools n = 103
	Spring 2007 Selective Review	Spring 2007 Selective Review	Spring 2007 Selective Review
Records Reviewed	13,023	10,773	2,250
All Required Immunizations	94.8% \pm 1.8%	95.3% \pm 2.1%	92.6% \pm 2.5%
Conditional Entrants	3.79% \pm 1.74%	3.55% \pm 2.10%	4.93% \pm 1.49%
Permanent Medical Exemptions	0.09% \pm 0.07%	0.08% \pm 0.07%	0.18% \pm 0.21%
Personal Belief Exemptions	1.38% \pm 0.48%	1.20% \pm 0.44%	2.27% \pm 1.78%
MMR (2+) ¹	96.9% \pm 1.7%	97.1% \pm 2.0%	96.3% \pm 1.2%
Hep B (3+) ²	97.7% \pm 1.7%	97.7% \pm 2.1%	97.7% \pm 0.9%

1. Two or more doses of measles, mumps, and rubella vaccines, separately or combined on or after the 1st birthday

2. Three or more doses of hepatitis B vaccine