

2004 SELECTIVE REVIEW RESULTS  
CALIFORNIA DEPARTMENT OF HEALTH SERVICES, 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 enforcement of the child care/school entry immunization requirements and follow-up of students who are missing immunizations. Results from the selective review are used to validate the assessment reports received from child care facilities and schools in the fall. This report presents results from this year's selective review and the attached tables present comparisons of immunization coverage in the selected child care facilities and schools between the fall 2003 assessments and spring 2004 selective review.

Methods and Participants

This year's selective review was conducted in a randomly selected sample of approximately 2-5% of California's child care facilities and schools. Local health departments visited 186 child care facilities, 224 schools with kindergartens, and 196 schools with seventh grades. During the site visit there is a short interview with child care/school staff and an assessment of student immunization records. Data are analyzed by comparing immunization coverage reported by child care facilities and schools during the fall assessment and that reported by local health departments during the spring selective review.

Results and Discussion

Overall, results of the 2004 selective review indicate that child care facilities and schools are in compliance with the California School Immunization Law. Immunization coverage for each antigen was above 95% for all children, except for hepatitis B among seventh grade students, which was 92.7%. Over 90% of children in the assessed child care facilities had received all required immunizations, while 92.7% of kindergarteners and 89.5% of seventh graders had received all required immunizations. The percent of seventh grade students who received all required immunizations measured in the spring selective review was 10% higher than that measured in the fall assessment.

Child Care (Table 1)

Selective review of child care facilities occurs biennially. The percent of children with all required immunizations measured in the spring selective review (90%) was lower than that measured in the fall assessment (93%). Immunization coverage varied by type of facility (public, private, or Head Start). In private facilities, the percent of children who received all required immunizations was lower in the spring (87%) than in the fall (91%). In public and Head Start facilities, the percent who received all required immunizations remained the same between the fall and the spring, 94% for public facilities and 96% for Head Start facilities.

### Kindergarten (Table 2)

The percent of kindergarten students with all required immunizations measured in the spring selective review (93%) was similar to that measured in the fall assessment (93%). Similar to the results for the child care facilities, measurements of immunization coverage in the selected kindergartens varied by the type of school (public or private). In public schools, the percent with all required immunizations was higher in the spring (94%) than in the fall (93%), while in private schools the percent of students with all required immunizations was lower the spring (83%) than in the fall (90%).

### Seventh Grade (Table 3)

The percent of seventh grade students with all required immunizations measured in the spring selective review (89%) was significantly higher than that measured in the fall assessment (79%). Most of this increase appears to be related to the rise in hepatitis B coverage, which went from 82.4% in the fall to 92.7% in the spring. Coverage for MMR remained stable at just over 96%. Measurements of immunization coverage also varied by type of school (public or private). In private schools, coverage levels were similar in the fall and the spring, approximately 85%. In public schools, the percent of children with all required immunizations was significantly higher in the spring (90%) than in the fall (78%).

### Conclusion

Maintaining compliance with the California School Immunization Law requires child care/school staff to have a thorough understanding of the entry requirements. Selective review provides an opportunity to educate child care/school 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 fall and spring coverage measurements could be an indication that more support and training for schools in conducting follow-up would be beneficial.

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Comparison of Fall 2003 Assessment and Spring 2004 Selective Review

Table 1: Child Care	All Facilities n = 186		Public Facilities n = 39		Private Facilities n = 117		Head Start Facilities n = 30	
	Fall 2003 Assessment	Spring 2004 Selective Review	Fall 2003 Assessment	Spring 2004 Selective Review	Fall 2003 Assessment	Spring 2004 Selective Review	Fall 2003 Assessment	Spring 2004 Selective Review
Total Enrollment	10,143	11,065	2,218	2,475	6,285	6,861	1,640	1,729
Percent Immunized for 4+ DTP	95.88%	95.79%	97.84%	97.62%	94.49%	94.33%	98.54%	98.96%
3+ Polio	97.09%	97.14%	98.87%	98.34%	95.89%	96.15%	99.27%	99.31%
1+ MMR	97.44%	96.77%	98.65%	98.22%	96.48%	95.69%	99.45%	99.02%
1+ Hib	97.63%	95.74%	98.69%	97.29%	96.96%	94.48%	98.78%	98.55%
3+ Hep B	96.25%	95.50%	97.66%	97.37%	95.08%	94.05%	98.84%	98.55%
1+ Var	95.90%	95.62%	97.84%	97.82%	94.56%	93.91%	98.41%	99.25%
Percent with All Required Immunizations	92.56%	90.32%	94.27%	94.55%	90.88%	87.35%	96.65%	96.07%
Percent Missing One or More Immunizations	5.98%	8.22%	4.64%	4.69%	7.21%	10.65%	3.11%	3.64%
Percent with Permanent Medical Exemptions	0.12%	0.07%	0.05%	0.16%	0.16%	0.04%	0.06%	0.06%
Percent with Personal Belief Exemptions	1.34%	1.38%	1.04%	0.61%	1.75%	1.95%	0.18%	0.23%

Table 2: Kindergarten	All Schools n = 224		Public Schools n = 144		Private Schools n = 80	
	Fall 2003 Assessment	Spring 2004 Selective Review	Fall 2003 Assessment	Spring 2004 Selective Review	Fall 2003 Assessment	Spring 2004 Selective Review
Total Enrollment	12,553	12,542	11,142	11,140	1,411	1,402
Percent Immunized for 4+ DTP	96.75%	97.38%	96.82%	98.07%	96.17%	91.94%
3+ Polio	97.36%	97.60%	97.44%	98.43%	96.67%	91.01%
2+ MMR	96.52%	97.23%	96.94%	98.07%	93.20%	90.58%
3+ Hep B	98.16%	98.45%	98.15%	98.63%	98.23%	97.08%
1+ Var	98.52%	98.62%	98.66%	98.88%	97.38%	96.58%
Percent with All Required Immunizations	92.63%	92.68%	92.95%	93.92%	90.08%	82.81%
Percent Missing One or More Immunizations	6.18%	5.83%	5.88%	4.68%	8.58%	14.98%
Percent with Permanent Medical Exemptions	0.14%	0.16%	0.12%	0.13%	0.28%	0.36%
Percent with Personal Belief Exemptions	1.05%	1.33%	1.05%	1.27%	1.06%	1.85%

Table 3: Seventh Grade	All Schools n = 196		Public Schools n = 100		Private Schools n = 96	
	Fall 2003 Assessment	Spring 2004 Selective Review	Fall 2003 Assessment	Spring 2004 Selective Review	Fall 2003 Assessment	Spring 2004 Selective Review
Total Enrollment	22,802	22,392	20,700	20,288	2,102	2,104
Records Reviewed	22,802	12,686	20,700	10,706	2,102	1,980
Percent Immunized for 2+ MMR	96.43%	96.80%	96.44%	97.28%	96.29%	94.19%
3+ Hep B	82.38%	92.69%	81.74%	92.94%	88.63%	91.36%
Percent with All Required Immunizations	79.20%	89.48%	78.64%	90.28%	84.73%	85.20%
Percent Missing One or More Immunizations	19.70%	9.04%	20.37%	8.43%	13.08%	12.32%
Percent with Permanent Medical Exemptions	0.12%	0.11%	0.11%	0.09%	0.24%	0.20%
Percent with Personal Belief Exemptions	0.99%	1.36%	0.89%	1.20%	1.95%	2.27%