

## **2010 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 the enforcement of the immunization requirements and the follow-up of students who have not received all required immunizations. This report presents results from this year's selective review and the attached tables present comparisons of immunization coverage among the selected child care centers and schools.

#### Methods and Participants

This year's selective review was conducted in a sample of approximately 2.5% of California's child care centers and 3.5% of kindergartens. Local health department staff visited 286 child care centers and 395 schools with kindergartens. During the site visits a short interview was conducted with child care providers and school administrators. In addition, a complete review of student immunization records was performed. For child care centers and kindergartens, data were analyzed by comparing immunization coverage rates reported by centers and schools during the fall and those reported by local health departments during the spring.

#### Results and Discussion

Overall, results of the 2010 selective review indicate that child care centers and schools are in compliance with the California School Immunization Law. Over 92% of child care enrollees and kindergarten students had received all the required immunizations. Among child care centers, coverage for each required vaccine was above 95%. Among kindergartens, coverage for each required vaccine was above 95% for public schools and 87% for private schools.

##### Child Care (Table 1)

Selective review of child care centers occurs biennially. The percentage of children with all required immunizations measured during this year's spring selective review ( $92.0 \pm 1.6\%$ ) was similar to that measured during the fall assessment ( $91.1 \pm 1.6\%$ ). Estimates of immunization coverage in the selected child care centers varied across different types of facilities (public, private, or Head Start).

##### Kindergarten (Table 2)

The percentage of kindergarten students with all required immunizations measured during the spring selective review ( $93.9 \pm 1.2\%$ ) was similar to that measured during the fall assessment ( $90.5 \pm 1.9\%$ ). 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 percentage of students with all required immunizations was higher in public schools ( $94.8 \pm 1.2\%$ ) than in private schools ( $84.7 \pm 4.1\%$ ).

#### Conclusion

Maintaining compliance with the California School Immunization Law is labor intensive and requires child care providers and school administrators to have a thorough understanding of the immunization requirements. Selective review provides an opportunity to emphasize the importance of following up on students who are missing required immunizations.

Higher coverage levels measured in the spring could be an indication that follow-up of conditional entrants is occurring. Similar or lower estimates of coverage measured in the spring could be an indication that follow-up is not occurring or that there may be a great deal of student movement with continuing enrollment of students with conditional entry throughout the school year. Overall, the results indicate that child care centers and schools are in compliance with the California School Immunization Law.

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Table 1: Childcare Immunization Coverage, Comparison of Fall 2009 Assessment and Spring 2010 Selective Review

	All Facilities n = 286		Public Facilities n = 70		Private Facilities n = 169		Head Start Facilities n = 47	
	Fall 2009 Assessment	Spring 2010 Selective Review	Fall 2009 Assessment	Spring 2010 Selective Review	Fall 2009 Assessment	Spring 2010 Selective Review	Fall 2009 Assessment	Spring 2010 Selective Review
Total Enrollment	15,050	16,100	3,754	3,877	8,377	9,559	2,919	2,664
All Required Immunizations	91.1% $\pm$ 1.6%	92.0% $\pm$ 1.6%	92.1% $\pm$ 4.4%	95.5% $\pm$ 1.8%	88.4% $\pm$ 1.9%	88.8% $\pm$ 2.6%	97.6% $\pm$ 1.4%	98.4% $\pm$ 1.1%
Conditional Entrants	7.07% $\pm$ 1.54%	5.83% $\pm$ 1.52%	6.71% $\pm$ 4.31%	3.30% $\pm$ 1.58%	8.95% $\pm$ 1.84%	8.12% $\pm$ 2.46%	2.12% $\pm$ 1.44%	1.28% $\pm$ 1.07%
Permanent Medical Exemptions	0.09% $\pm$ 0.07%	0.21% $\pm$ 0.18%	0.05% $\pm$ 0.07%	0.08% $\pm$ 0.09%	0.12% $\pm$ 0.11%	0.30% $\pm$ 0.30%	0.07% $\pm$ 0.10%	0.08% $\pm$ 0.11%
Personal Belief Exemptions	1.72% $\pm$ 0.47%	1.93% $\pm$ 0.47%	1.12% $\pm$ 0.96%	1.13% $\pm$ 0.88%	2.52% $\pm$ 0.69%	2.73% $\pm$ 0.69%	0.21% $\pm$ 0.15%	0.23% $\pm$ 0.18%
DTaP (4+) <sup>1</sup>	93.3% $\pm$ 2.7%	95.5% $\pm$ 0.9%	96.0% $\pm$ 2.2%	97.1% $\pm$ 1.4%	92.7% $\pm$ 1.4%	93.9% $\pm$ 1.3%	91.3% $\pm$ 13.4%	98.9% $\pm$ 0.8%
Polio (3+) <sup>2</sup>	95.3% $\pm$ 2.7%	96.8% $\pm$ 0.7%	97.6% $\pm$ 1.7%	98.2% $\pm$ 1.2%	95.5% $\pm$ 0.9%	95.6% $\pm$ 1.1%	92.0% $\pm$ 13.5%	99.1% $\pm$ 0.7%
MMR (1+) <sup>3</sup>	94.7% $\pm$ 2.7%	96.3% $\pm$ 0.8%	96.8% $\pm$ 2.3%	98.2% $\pm$ 1.2%	94.7% $\pm$ 1.2%	94.8% $\pm$ 1.2%	92.1% $\pm$ 13.5%	99.0% $\pm$ 0.7%
Hib (1+) <sup>4</sup>	96.1% $\pm$ 2.7%	98.1% $\pm$ 0.5%	97.3% $\pm$ 2.4%	98.4% $\pm$ 1.3%	96.9% $\pm$ 0.8%	97.7% $\pm$ 0.8%	92.0% $\pm$ 13.5%	99.4% $\pm$ 0.6%
Hep B (3+) <sup>5</sup>	94.7% $\pm$ 2.7%	96.4% $\pm$ 0.7%	96.9% $\pm$ 2.0%	97.8% $\pm$ 1.2%	94.8% $\pm$ 1.0%	95.1% $\pm$ 1.1%	91.8% $\pm$ 13.5%	99.2% $\pm$ 0.7%
Var (1+) <sup>6</sup>	93.8% $\pm$ 2.7%	96.3% $\pm$ 0.8%	96.4% $\pm$ 2.5%	98.2% $\pm$ 1.3%	93.3% $\pm$ 1.2%	94.7% $\pm$ 1.2%	92.1% $\pm$ 13.5%	99.2% $\pm$ 0.6%

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

4. One or more doses of *haemophilus influenzae* type b vaccine on or after the 1st birthday

5. Three or more doses of hepatitis B vaccine

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

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Table 2: Kindergarten Immunization Coverage\*, Comparison of Fall 2009 Assessment and Spring 2010 Selective Review

	All Schools n = 395		Public Schools n = 275		Private Schools n = 120	
	Fall 2009 Assessment	Spring 2010 Selective Review	Fall 2009 Assessment	Spring 2010 Selective Review	Fall 2009 Assessment	Spring 2010 Selective Review
Total Enrollment	24,439	24,211	22,218	22,016	2,221	2,195
All Required Immunizations	90.5% $\pm$ 1.9%	93.9% $\pm$ 1.2%	90.3% $\pm$ 2.1%	94.8% $\pm$ 1.2%	91.9% $\pm$ 2.8%	84.7% $\pm$ 4.1%
Conditional Entrants	7.65% $\pm$ 1.88%	3.63% $\pm$ 1.05%	7.93% $\pm$ 2.05%	2.87% $\pm$ 1.09%	4.82% $\pm$ 2.37%	11.44% $\pm$ 3.73%
Permanent Medical Exemptions	0.15% $\pm$ 0.09%	0.11% $\pm$ 0.07%	0.12% $\pm$ 0.07%	0.11% $\pm$ 0.07%	0.54% $\pm$ 0.74%	0.05% $\pm$ 0.09%
Personal Belief Exemptions	1.72% $\pm$ 0.45%	2.31% $\pm$ 0.53%	1.61% $\pm$ 0.48%	2.17% $\pm$ 0.56%	2.79% $\pm$ 1.10%	3.78% $\pm$ 1.45%
DTaP (4+) <sup>1</sup>	92.3% $\pm$ 1.7%	95.2% $\pm$ 1.0%	92.2% $\pm$ 1.9%	95.8% $\pm$ 1.0%	93.5% $\pm$ 2.5%	88.6% $\pm$ 3.5%
Polio (3+) <sup>2</sup>	92.9% $\pm$ 1.6%	95.4% $\pm$ 1.0%	92.9% $\pm$ 1.8%	96.0% $\pm$ 1.0%	93.5% $\pm$ 2.4%	88.7% $\pm$ 3.3%
MMR (2+) <sup>3</sup>	93.1% $\pm$ 1.6%	95.2% $\pm$ 1.0%	93.1% $\pm$ 1.7%	96.0% $\pm$ 1.0%	93.0% $\pm$ 2.6%	87.6% $\pm$ 3.5%
Hep B (3+) <sup>4</sup>	96.4% $\pm$ 0.9%	96.8% $\pm$ 0.7%	96.4% $\pm$ 1.0%	97.0% $\pm$ 0.8%	96.0% $\pm$ 1.5%	94.9% $\pm$ 1.7%
Var (1+) <sup>5</sup>	96.8% $\pm$ 0.9%	96.9% $\pm$ 0.7%	96.8% $\pm$ 0.9%	97.1% $\pm$ 0.8%	96.0% $\pm$ 1.4%	95.3% $\pm$ 1.5%

\* Immunization coverage for individual antigens is unavailable for students with Personal Beliefs Exemptions and therefore may be underestimated;

Anecdotal evidence suggests a small percentage of students may have some but not all required immunizations.

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