



Jeb Bush  
Governor

John O. Agwunobi, M.D., M.B.A.  
Secretary

### INTEROFFICE MEMORANDUM

**DATE:** May 6, 2004  
**TO:** County Health Department Directors/Administrators  
**FROM:** Bonita J. Sorensen, M.D., M.B.A. *B. Sorensen MD*  
Deputy State Health Officer  
**SUBJECT:** Assessment of County Health Department Clinic Immunization Coverage Levels (2004)

#### INFORMATION ONLY

In March 2004, the county health departments (CHDs) completed the annual assessment of immunization coverage levels for one- and two-year-old children receiving services in their facilities. They utilized the Clinic Assessment Software Application (CASA), developed by the Centers for Disease Control and Prevention, to assess clinic immunization coverage rates. These CASAs utilized immunization data exported from the Immunization Module of the Health Clinic Management System. The data exported contained all active records of children 12- to 23-months-old and children 24- to 35-months-old, with a common review date of January 1, 2004.

CASA provides an excellent means for assisting healthcare providers in assessing and managing the immunization status of their clients. Both public and private providers widely use this software to identify areas where intervention strategies may need to be developed or implemented for increasing immunization coverage levels. CASA will play a critical role in measuring Florida's success in achieving the state goal of 85 percent coverage at 24 months of age for each of the following by June 2005: four DTaP, three polio, one MMR, and three Hib (4/3/1/3).

Statewide CASA results, as detailed in Attachment 1, indicate that 79 percent of CHD clients between 24- and 35-months-old completed the 4/3/1/3 series by their second birthday. The assessment also revealed that 80 percent of CHD clients finished the four DTaP, three polio, and one MMR series (4/3/1) by 24-months-old. The results demonstrate a significant improvement from last year's coverage rates of 64 percent for the 4/3/1 series. To illustrate the improvement again, 14 CHDs have CASA levels of 90 percent or better in 2004. In addition, another 15 CHDs have CASA levels that were between 85 percent and 89 percent. In comparison, only 10 CHDs had CASA levels of 90 percent or better, and only seven CHDs had rates that were between 85 percent and 89 percent in 2003.

Nonetheless, CHDs must continue to focus their efforts on children 12- to 23-months-old in order to achieve the 85 percent goal. The assessment of this cohort of children in the public sector, as portrayed in Attachment 2, shows that only 76 percent completed 3 DTaP, 2 polio, 2 Hib, and 2 Hepatitis B vaccines by 12-months-old.

This year's coverage assessment also revealed issues with the proper spacing and timing of vaccinations. For example, as mentioned previously, the results provided an 80 percent coverage rate for the 4/3/1 series for all doses administered. However, there was only a 73 percent coverage rate for valid doses (doses given at the proper time and interval) for that same series. In other words, of the 18,481 CHD clients immunized with the 4/3/1 series by 24-months-old, 16,833 received immunizations with valid doses. Therefore, 1,648, or 8.9 percent (95 percent confidence interval = 8.5 percent - 9.3 percent), failed to receive their immunizations at the age-appropriate time or with a sufficient interval. These numbers demonstrate that the CHDs must evaluate their immunization practices to ensure the proper spacing and timing of doses.

The department conducts this assessment to determine the immunization coverage levels of one- and two-year-old children served by the CHDs. The assessment also identifies areas where CHDs can focus their efforts to improve coverage levels. Both clinic and countywide results should serve as a critical component of ongoing quality assurance reviews and play an important role in discussions to develop solutions to the problems identified. CHD staff can, as needed, routinely employ CASA to assess coverage levels and evaluate service delivery. Assessments provide data about vaccine delivery practices and vaccine coverage that motivate and assist staff in developing and implementing best practices. In addition, standard 14 of the *Standards of Pediatric Immunization Practices* promotes semi-annual audits to assess immunization coverage levels and a review of immunization records in the providers' patient population.

To reach and maintain the 85 percent coverage goal among our two-year-old children, CHDs must focus their energy and resources in the following key areas:

- Fully implement the CHD Guidebook immunization internal operating policies and technical assistance guidelines.
- Develop effective strategies for achieving high, sustainable vaccine coverage levels.
- Assess the impact of intervention and service delivery practices.
- Utilize all clinic encounters to assess immunization status and provide appropriate immunizations.
- Use the local immunization module and CASA Diagnostic Report for analysis of missed opportunities, simultaneous immunizations, and dropout rates.
- Use the Immunization Module reminder/recall function to maintain clients on the recommended schedule.
- Eliminate duplicate client records in the Health Clinic Management System.

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- Inactivate clients in the Immunization Module who are documented as having moved or gone elsewhere.
- Assign clients to the correct immunization record site location that reflects their immunization home; for example, CHD by specific clinic, specific private provider, or a generic private provider site.

If you have any questions or comments, please contact your area Bureau of Immunization field staff, as indicated in Attachment 3.

BJS/cha/dlb  
Attachments

cc: Shannon B. Lease, M.S.  
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County Health Department Nursing Directors  
Bureau of Immunization Field Staff

**COUNTY HEALTH DEPARTMENT CLIENT IMMUNIZATION COVERAGE  
LEVELS\* AT 24 MONTHS OF AGE, JANUARY 1, 2004**

County	Total Clients Sampled	Complete with 4/3/1**		Complete with 4/3/1/3***		Complete with 4/3/1/3/3****	
		Clients	%	Clients	%	Clients	%
Alachua	405	335	83%	330	81%	326	80%
Baker	38	32	84%	32	84%	32	84%
Bay	222	184	83%	184	83%	183	82%
Bradford	51	40	78%	40	78%	40	78%
Brevard	783	711	91%	706	90%	705	90%
Broward	906	537	59%	501	55%	485	54%
Calhoun	29	26	90%	26	90%	26	90%
Charlotte	437	365	84%	362	83%	359	82%
Citrus	283	249	88%	249	88%	249	88%
Clay	176	131	74%	131	74%	131	74%
Collier	625	523	84%	516	83%	510	82%
Columbia	8	7	88%	7	88%	7	88%
Miami-Dade	1101	696	63%	658	60%	650	59%
DeSoto	57	35	61%	33	58%	33	58%
Dixie	75	70	93%	70	93%	70	93%
Duval	1569	1213	77%	1205	77%	1187	76%
Escambia	875	693	79%	688	79%	687	79%
Flagler	33	31	94%	31	94%	31	94%
Franklin	50	45	90%	45	90%	45	90%
Gadsden	128	109	85%	109	85%	109	85%
Gilchrist	81	77	95%	76	94%	76	94%
Glades	12	7	58%	7	58%	7	58%
Gulf	34	29	85%	28	82%	28	82%
Hamilton	28	22	79%	22	79%	22	79%
Hardee	89	80	90%	79	89%	79	89%
Hendry	85	66	78%	66	78%	66	78%
Hernando	37	27	73%	26	70%	26	70%
Highlands	89	62	70%	59	66%	59	66%
Hillsborough	1584	1355	86%	1342	85%	1337	84%
Holmes	25	19	76%	19	76%	19	76%
Indian River	313	301	96%	300	96%	299	96%
Jackson	9	6	67%	6	67%	6	67%
Jefferson	13	11	85%	11	85%	11	85%
Lafayette	20	16	80%	16	80%	16	80%
Lake	263	232	88%	231	88%	231	88%
Lee	173	161	93%	157	91%	157	91%
Leon	164	144	88%	139	85%	139	85%
Levy	41	41	100%	41	100%	41	100%
Liberty	25	23	92%	22	88%	22	88%
Madison	69	46	67%	45	65%	45	65%
Manatee	483	417	86%	411	85%	410	85%
Marion	1085	796	73%	787	73%	779	72%
Martin	206	184	89%	184	89%	184	89%
Monroe	307	210	68%	207	67%	203	66%

**COUNTY HEALTH DEPARTMENT CLIENT IMMUNIZATION COVERAGE  
LEVELS\* AT 24 MONTHS OF AGE, JANUARY 1, 2004**

County	Total Clients Sampled	Complete with 4/3/1**		Complete with 4/3/1/3***		Complete with 4/3/1/3/3****	
		Clients	%	Clients	%	Clients	%
Nassau	55	32	58%	32	58%	32	58%
Okaloosa	611	516	84%	512	84%	512	84%
Okeechobee	14	12	86%	12	86%	12	86%
Orange	1545	1304	84%	1274	82%	1237	80%
Osceola	357	296	83%	294	82%	292	82%
Palm Beach	1436	1125	78%	1102	77%	1097	76%
Pasco	905	796	88%	793	88%	791	87%
Pinellas	614	584	95%	582	95%	581	95%
Polk	1077	778	72%	765	71%	755	70%
Putnam	98	86	88%	86	88%	86	88%
Saint Johns	334	179	54%	176	53%	174	52%
Saint Lucie	196	160	82%	160	82%	160	82%
Santa Rosa	260	225	87%	224	86%	223	86%
Sarasota	567	435	77%	427	75%	422	74%
Seminole	770	699	91%	691	90%	689	89%
Sumter	83	82	99%	82	99%	82	99%
Suwannee	117	79	68%	76	65%	76	65%
Taylor	12	7	58%	7	58%	7	58%
Union	43	37	86%	37	86%	37	86%
Volusia	652	513	79%	510	78%	506	78%
Wakulla	30	23	77%	23	77%	23	77%
Walton	144	114	79%	114	79%	114	79%
Washington	47	35	74%	34	72%	34	72%
<b>State Total</b>	<b>23,053</b>	<b>18,481</b>	<b>80%</b>	<b>18,217</b>	<b>79%</b>	<b>18,069</b>	<b>78%</b>

\* Review includes children who were 24-35 months of age on January 1, 2004, using Clinic Assessment Software Application (CASA) Version 2.5.

\*\* Immunization coverage level for DTP/DTaP 4, OPV/IPV 3, and MMR 1.

\*\*\* Immunization coverage level for DTP/DTaP 4, OPV/IPV 3, MMR 1, and Hib 3.

\*\*\*\* Immunization coverage level for DTP/DTaP 4, OPV/IPV 3, MMR 1, Hib 3, and Hep B 3.

**COUNTY HEALTH DEPARTMENT CLIENT IMMUNIZATION COVERAGE  
LEVELS\* AT 12 MONTHS OF AGE, JANUARY 1, 2004**

County	Total Clients Sampled	Up-to-Date with 3/2/2/2**	
		Clients	%
Alachua	371	302	81%
Baker	34	30	88%
Bay	213	178	84%
Bradford	43	39	91%
Brevard	604	450	75%
Broward	740	439	59%
Calhoun	48	36	75%
Charlotte	397	333	84%
Citrus	147	132	90%
Clay	128	112	88%
Collier	426	366	86%
Columbia	2	2	100%
Miami-Dade	848	624	74%
DeSoto	80	67	84%
Dixie	75	70	93%
Duval	1520	1163	77%
Escambia	1008	690	68%
Flagler	31	29	94%
Franklin	38	33	87%
Gadsden	158	136	86%
Gilchrist	82	68	83%
Glades	22	17	77%
Gulf	26	20	77%
Hamilton	36	32	89%
Hardee	135	88	65%
Hendry	77	61	79%
Hernando	34	23	68%
Highlands	117	85	73%
Hillsborough	1348	1114	83%
Holmes	41	31	76%
Indian River	279	268	96%
Jackson	15	12	80%
Jefferson	21	14	67%
Lafayette	16	10	63%
Lake	426	387	91%
Lee	380	312	82%
Leon	240	142	59%
Levy	78	74	95%
Liberty	26	18	69%
Madison	52	36	69%
Manatee	421	338	80%
Marion	838	697	83%
Martin	163	134	82%
Monroe	313	256	82%

**COUNTY HEALTH DEPARTMENT CLIENT IMMUNIZATION COVERAGE  
LEVELS\* AT 12 MONTHS OF AGE, JANUARY 1, 2004**

County	Total Clients Sampled	Up-to-Date with 3/2/2**	
		Clients	%
Nassau	48	32	67%
Okaloosa	594	529	89%
Okeechobee	53	28	53%
Orange	2098	1240	59%
Osceola	895	548	61%
Palm Beach	1375	1149	84%
Pasco	536	425	79%
Pinellas	504	445	88%
Polk	1077	762	71%
Putnam	76	67	88%
Saint Johns	326	247	76%
Saint Lucie	141	126	89%
Santa Rosa	179	142	79%
Sarasota	811	608	75%
Seminole	682	589	86%
Sumter	107	105	98%
Suwannee	120	84	70%
Taylor	12	4	33%
Union	51	36	71%
Volusia	642	502	78%
Wakulla	36	23	64%
Walton	111	96	86%
Washington	33	30	91%
<b>State Total</b>	<b>22604</b>	<b>17285</b>	<b>76%</b>

\* Review includes children who were 12-23 months of age on January 1, 2004, using Clinic Assessment Software Application (CASA) Version 2.5.

\*\* Immunization coverage level for DTP/DTaP 3, OPV/IPV 2, Hib 2, and Hep B 2

## BUREAU OF IMMUNIZATION FIELD STAFF

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