

**Mission:**

To protect, promote & improve the health of all people in Florida through integrated state, county & community efforts.



**Ron DeSantis**  
Governor

**Scott A. Rivkees, MD**  
State Surgeon General

**Vision:** To be the **Healthiest State** in the Nation

---

**MEMORANDUM**

**DATE:** May 15, 2020

**TO:** County Health Department Health Officers

**THROUGH:** Amy C. Rigger, BSN, RN, Administrator *Amy C. Rigger*  
Immunization Section

**FROM:** Carina Blackmore, DVM, PhD, Dipl ACVPM *Carina Blackmore*  
Director, Division of Disease Control and Health Protection

**SUBJECT:** Assessment of County Health Department Immunization Coverage Levels in 2-Year-Old Children (2020)

---

**INFORMATION ONLY**

In January 2020, the Florida Department of Health's (FDOH) Immunization Section completed an annual immunization assessment of all children from age 12 to 35 months whose parents rely on a county health department (CHD) as their child's immunization home. That is, the child receives most or all vaccines at the CHD. This assessment includes those children born from January 2017 through December 2018, as provided by the Florida State Health Online Tracking System (SHOTS), with a common review date of January 1, 2020.

The purpose of this assessment is to estimate immunization coverage levels for children from age 24 to 35 months and children from age 12 to 23 months. The immunization coverage goals, recommended by the Advisory Committee on Immunization Practices and indicated on the Department's *2020 CHD Performance Snapshot Fact Sheet* available in *InsideFLHealth*, are:

Children from age 24 to 35 months should complete the 4:3:1:3:3:1:4 vaccine series (four or more doses of diphtheria, tetanus toxoids, and acellular pertussis [DTaP] vaccine; three or more doses of inactivated poliovirus vaccine [IPV]; one or more doses of measles, mumps and rubella [MMR] vaccine; three or more doses of *Haemophilus influenzae* type b [Hib] vaccine; three or more doses of hepatitis B vaccine; one or more doses of varicella vaccine (or physician documented disease history); and four or more doses of pneumococcal conjugate vaccine [PCV] by age 24 months [age 2]).

Children from age 12 to 23 months should complete the 3:2:2:2 vaccine series (three or more doses of DTaP vaccine, two or more doses of IPV, two or more doses of Hib vaccine, and two or more doses of hepatitis B vaccine by age 12 months [age 1]).

The national target (*Healthy People 2020*) is for 80 percent of 2-year-old children to complete the 4:3:1:3:3:1:4 vaccine series, while the statewide target is 90 percent. The national and statewide targets for 1-year-old children are 90 percent.

**The 2020 statewide immunization coverage level for the 2-year-old children assessed was 93.4 percent.** Twenty-nine of the 67 CHDs (43.3 percent) were excluded from this cohort because the “Total Clients” in their immunization home was  $\leq 10$ . Of the remaining 38 CHDs, coverage levels ranged from 5.3 percent (Hillsborough) to 100 percent (eight CHDs). Twenty-eight CHDs (73.7 percent) achieved or exceeded the statewide target, eight of which attained 100 percent coverage. Those 38 CHDs were the immunization home to 3,228 children (Enclosure 1).

CHDs were broken down by immunization site, Vaccines for Children personal identification number, number of 2-year-old children with a CHD immunization home, and immunization coverage level for the 4:3:1:3:3:1:4 vaccine series. The 29 CHDs with  $\leq 10$  “Total Clients” were excluded from this report, as were sites with no clients (Enclosure 2).

Coverage levels for the 2-year-old children assessed in the past five years (2016–2020) were compiled. From 2019 to 2020, 18 (47.4 percent) of the qualifying ( $>10$  “Total Clients”) 38 CHDs had a decrease in coverage, 16 (42.1 percent) improved their coverage, and four (10.5 percent) remained the same. Fifteen CHDs maintained coverage levels  $\geq 90$  percent for the past five years. Seven CHDs were excluded from this annual assessment for the past five years because they had  $\leq 10$  “Total Clients” in their immunization home (Enclosure 3).

For this same five-year period, data on the number of 2-year-old children with a CHD immunization home were compiled. Twenty-nine of the 67 CHDs (43.3 percent) could not be compared for years 2019 and 2020 due to having  $\leq 10$  “Total Clients” in either or both years. Of the remaining 38 CHDs, 25 (65.8 percent) showed a decrease in the 2-year-old population served. Statewide, 20 percent fewer children had a CHD as their immunization home in 2020 compared to 2019 (3,228 and 3,877 respectively). From 2016 to 2020, the number of 2-year-old children with a CHD as their immunization home decreased by 50 percent from 6,490 to 3,228 (Enclosure 4). Private physicians continue to lead in the volume of childhood immunization service delivery, while CHDs provide about four percent annually.

**The 2019 statewide immunization coverage level for the 1-year-old children assessed was 73.0 percent,** down from last year’s 75.6 percent. Twenty-five CHDs (37 percent) were excluded from this cohort because the “Total Clients” in their immunization home were  $\leq 10$ . Of the remaining 42 CHDs, coverage levels ranged from 42.4 percent (Hillsborough) to 95.3 percent (Pinellas). Four CHDs (9.5 percent) achieved or exceeded the statewide target for their age group. Those 42 CHDs were the immunization home to 3,762 children (Enclosure 5).

CHDs must focus on the following areas to improve our 2-year-old CHD immunization coverage rates:

**At each visit, simultaneously administer all vaccines a child is eligible to receive.**

Conduct quarterly audits via Florida SHOTS to strive for complete (100 percent) immunization coverage of children with a CHD immunization home.

Regularly schedule reminder and recall processes via Florida SHOTS to identify active clients and improve compliance with the recommended immunization schedule, particularly for the fourth dose of DTaP and PCV vaccines.

Assess immunization status and encourage and provide age-appropriate vaccinations during clinical and WIC visits.

Assessment of County Health Department Immunization Coverage Levels  
In 2-Year-Old Children (2020)  
Page Three  
May 15, 2020

The Immunization Section's Quality Improvement Clinical Team is available to provide technical assistance and guidance to CHDs as needed. These collaborative efforts should assist us in protecting Florida's infant and 2-year-old population against vaccine-preventable diseases.

If you have any questions about the data in this report, please contact our survey and assessment consultant, Ms. Amy Wilson, at 850-901-6806.

CB/AR/aw  
Enclosures

cc: Shamarial Roberson, DrPH, MPH  
Deputy Secretary for Health  
Beth A. Paterniti, MPA, Director  
County Health Systems  
Ursula Keller Weiss, MD, Chief  
Bureau of Community Health Assessment  
County Health Department Nursing Directors  
Immunization Section Field Staff Representatives

TABLE 1. Estimated vaccination coverage by age 24 months among children<sup>1</sup> with a county health department immunization home, for 4:3:1:3:3:1:4 vaccine series, Florida, by county—Assessment of County Health Department Immunization Coverage Levels in 2-Year-Old Children 2020<sup>2</sup>

County Health Department	4:3:1:3:3:1:4 <sup>3</sup>		Total Clients <sup>6</sup>		County Health Department	4:3:1:3:3:1:4 <sup>3</sup>		Total Clients <sup>6</sup>
	% <sup>4</sup>	Complete <sup>5</sup>				% <sup>4</sup>	Complete <sup>5</sup>	
Alachua	97.0	64	66		Lake	97.3	36	37
Baker	91.7	22.0	24.0		Lee	100.0	100	100
Bay	96.9	31	32		Leon <sup>7</sup>	86.7	26	30
Bradford	90.3	65	72		Levy <sup>8</sup>	NA	NA	NA
Brevard	90.3	131	145		Liberty <sup>7</sup>	83.3	10	12
Broward	93.8	335	357		Madison <sup>8</sup>	NA	NA	NA
Calhoun	90.5	19	21		Manatee	100.0	25	25
Charlotte	100.0	16	16		Marion <sup>8</sup>	NA	NA	NA
Citrus <sup>8</sup>	NA	NA	NA		Martin <sup>8</sup>	NA	NA	NA
Clay <sup>7</sup>	70.8	34	48		Monroe	96.4	217	225
Collier	98.4	124	126		Nassau <sup>8</sup>	NA	NA	NA
Columbia <sup>8</sup>	NA	NA	NA		Okaloosa	100.0	87	87
Dade	97.3	216	222		Okeechobee <sup>8</sup>	NA	NA	NA
Desoto <sup>8</sup>	NA	NA	NA		Orange	99.2	119	120
Dixie <sup>8</sup>	NA	NA	NA		Osceola	94.9	94	99
Duval	100.0	147	147		Palm Beach <sup>8</sup>	NA	NA	NA
Escambia	92.6	100	108		Pasco	100.0	37	37
Flagler	97.8	45	46		Pinellas	99.2	122	123
Franklin	96.2	51	53		Polk <sup>7</sup>	80.4	111	138
Gadsden <sup>7</sup>	85.0	17	20		Putnam <sup>8</sup>	NA	NA	NA
Gilchrist <sup>8</sup>	NA	NA	NA		Santa Rosa <sup>7</sup>	81.8	36	44
Glades <sup>8</sup>	NA	NA	NA		Sarasota	96.9	94	97
Gulf	95.8	68	71		Seminole <sup>7</sup>	54.5	18	33
Hamilton <sup>8</sup>	NA	NA	NA		St Johns <sup>8</sup>	NA	NA	NA
Hardee <sup>8</sup>	NA	NA	NA		St Lucie <sup>8</sup>	NA	NA	NA
Hendry <sup>7</sup>	88.9	24	27		Sumter <sup>8</sup>	NA	NA	NA
Hernando	100.0	19	19		Suwannee <sup>8</sup>	NA	NA	NA
Highlands <sup>8</sup>	NA	NA	NA		Taylor <sup>8</sup>	NA	NA	NA
Hillsborough <sup>7</sup>	5.3	1	19		Union <sup>8</sup>	NA	NA	NA
Holmes <sup>8</sup>	NA	NA	NA		Volusia	98.4	61	62
Indian River	100.0	62	62		Wakulla <sup>8</sup>	NA	NA	NA
Jackson <sup>8</sup>	NA	NA	NA		Walton <sup>7</sup>	89.9	232	258
Jefferson <sup>8</sup>	NA	NA	NA		Washington <sup>8</sup>	NA	NA	NA
Lafayette <sup>8</sup>	NA	NA	NA		Statewide <sup>9</sup>	<b>93.4</b>	3,016	3,228

<sup>1</sup>Children in this cohort were 24-35 months of age on January 1, 2020.

<sup>2</sup>Data collected from the Florida State Health Online Tracking System (SHOTS) on January 2, 2020.

<sup>3</sup>4:3:1:3:3:1:4 = Measure of four or more doses of diphtheria, tetanus toxoids, and acellular pertussis (DTaP) vaccine, three or more doses of inactivated poliovirus vaccine (IPV), one or more doses of measles, mumps and rubella (MMR) vaccine, three or more doses of *Haemophilus influenzae* type b (Hib) vaccine, three or more doses of hepatitis B vaccine, one or more doses of varicella vaccine (or physician documented disease history), and four or more doses of pneumococcal conjugate vaccine (PCV).

<sup>4</sup>Immunization levels (unweighted) presented as point estimate (%) for the 4:3:1:3:3:1:4 measure.

<sup>5</sup>Estimated number of children who received all vaccines necessary to complete the 4:3:1:3:3:1:4 measure by 24 months of age.

<sup>6</sup>Total 2-year-old children with a county health department (CHD) immunization home.

<sup>7</sup>Did not meet the coverage goal for 90% of "Total Clients" to complete the 4:3:1:3:3:1:4 measure by 24 months of age.

<sup>8</sup>Not Applicable, as data (from Florida SHOTS) was excluded due to ≤10 "Total Clients" in their immunization home.

<sup>9</sup>Adjusted to exclude CHDs with ≤10 "Total Clients" in their immunization home.

TABLE 2. Estimated vaccination coverage by age 24 months among children<sup>1</sup> with a county health department immunization home, for 4:3:1:3:3:1:4 vaccine series, Florida, by county and site<sup>2</sup>—Assessment of County Health Department Immunization Coverage Levels in 2-Year-Old Children 2020<sup>3</sup>

County Health Department (CHD), by Site	VFC PIN	4:3:1:3:3:1:4 <sup>4</sup>		Total Clients <sup>7</sup>
		% <sup>5</sup>	Complete <sup>6</sup>	
Alachua CHD_Gainesville	017001	96.2	51	53
Alachua CHD_Alachua Clinic	019000	100.0	11	11
Alachua CHD_South West Clinic	700413	100.0	2	2
Baker CHD	020035	91.7	22	24
Bay CHD	030044	96.9	31	32
Bradford CHD	040034	100.0	3	3
Bradford CHD_New River Peds	700538	89.9	62	69
Brevard CHD_Melbourne	059005	93.7	59	63
Brevard CHD_Rockledge	none	100.0	1	1
Brevard CHD_Titusville	059004	84.0	21	25
Brevard CHD_Viera	059007	89.3	50	56
Broward CHD_Ft. Lauderdale Health Ctr	067001	100.0	1	1
Broward CHD_Mills Health Center	061310	93.4	197	211
Broward CHD_Paul Hughes Health Ctr	069022	94.4	136	144
Broward CHD_PHHC TB Clinic	none	0.0	0	1
Calhoun CHD	070001	90.5	19	21
Charlotte CHD_Port Charlotte	080010	100.0	16	16
Citrus CHD_Lecanto Main Health Unit	097001	NA	NA	NA
Clay CHD_Bear Run Clinic	100043	70.8	34	48
Collier CHD_Immokalee	119003	100.0	29	29
Collier CHD_Naples	110037	97.9	95	97
Columbia CHD	120001	NA	NA	NA
Dade CHD_Health District Center	137003	96.0	119	124
Dade CHD_Immunization Outreach	137002	100.0	1	1
Dade CHD_Little Haiti Health Center	139047	100.0	63	63
Dade CHD_Refugee Health Center	137001	80.0	4	5
Dade CHD_West Perrine Health Center	139012	100.0	29	29
Desoto CHD	140001	NA	NA	NA
Dixie CHD	150001	NA	NA	NA
Duval CHD_Beaches Family Health Center	169003	100.0	62	62
Duval CHD_Center For Women And Children	169008	100.0	41	41
Duval CHD_South Jax Imm Center	169002	100.0	38	38
Duval CHD_The Immunization Center	169007	100.0	6	6
Escambia CHD	170041	92.6	100	108
Flagler CHD	180033	97.8	45	46
Franklin CHD	190001	95.8	46	48
Franklin CHD_Annex	199000	100.0	5	5
Gadsden CHD	207001	85.0	17	20
Gilchrist CHD	210065	NA	NA	NA
Glades CHD	220001	NA	NA	NA
Gulf CHD_Port St. Joe Clinic	230001	96.2	50	52
Gulf CHD_Wewahitchka Clinic	239000	94.7	18	19
Hamilton CHD	240033	NA	NA	NA
Hardee CHD	250037	NA	NA	NA

TABLE 2. Estimated vaccination coverage by age 24 months among children<sup>1</sup> with a county health department immunization home, for 4:3:1:3:3:1:4 vaccine series, Florida, by county and site<sup>2</sup>—Assessment of County Health Department Immunization Coverage Levels in 2-Year-Old Children 2020<sup>3</sup>

County Health Department (CHD), by Site	VFC PIN	4:3:1:3:3:1:4 <sup>4</sup>		Total Clients <sup>7</sup>
		% <sup>5</sup>	Complete <sup>6</sup>	
Hendry CHD_Clewiston Clinic	260036	90.9	20	22
Hendry CHD_Labelle Clinic	260007	80.0	4	5
Hernando CHD_Brooksville	270001	0.0	0	3
Hernando CHD_Spring Hill	279001	100.0	16	16
Highlands CHD	All Sites	NA	NA	NA
Hillsborough CHD_Main Immunizations	299017	5.6	1	18
Hillsborough CHD_Regugee Clinic	299016	0.0	0	1
Holmes CHD	300034	NA	NA	NA
Indian River CHD	310033	100.0	61	61
Indian River CHD_Gifford Health Center	none	100.0	1	1
Jackson CHD	320001	NA	NA	NA
Jefferson CHD	330001	NA	NA	NA
Lafayette CHD	340001	NA	NA	NA
Lake CHD_Clermont	700062	92.3	12	13
Lake CHD_Leesburg	700010	100.0	14	14
Lake CHD_Umatilla	357002	100.0	10	10
Lee CHD_Michigan Avenue	360046	100.0	96	96
Lee CHD_Pondella Clinic	369000	100.0	4	4
Leon CHD_Roberts and Stevens	377001	86.7	26	30
Levy CHD	380034	NA	NA	NA
Liberty CHD	390003	83.3	10	12
Madison CHD	400036	NA	NA	NA
Manatee CHD	410001	100.0	16	16
Manatee CHD_Preventative Care Clinic	700226	100.0	9	9
Marion CHD	420001	NA	NA	NA
Martin CHD	430001	NA	NA	NA
Monroe CHD_Gato	440001	96.3	180	187
Monroe CHD_Roth Building_Tavernier	449001	100.0	7	7
Monroe CHD_Ruth Ivins Center_Marathon	449002	96.8	30	31
Nassau CHD_Yulee Clinic	450012	NA	NA	NA
Okaloosa CHD_Crestview	469000	100.0	15	15
Okaloosa CHD_Fort Walton Beach	460001	100.0	72	72
Okeechobee CHD	470037	NA	NA	NA
Orange CHD_Bithlo	700418	100.0	2	2
Orange CHD_Central Immunizations	487003	98.9	92	93
Orange CHD_Engelwood	700420	100.0	1	1
Orange CHD_NCF	none	100.0	2	2
Orange CHD_Outreach Facility	700644	100.0	19	19
Orange CHD-Taft	700421	100.0	3	3
Osceola CHD_Imm Clinic	497001	94.9	94	99
Palm Beach CHD	All Sites	NA	NA	NA
Pasco CHD_Dade City	517001	100.0	11	11
Pasco CHD_NPR	519001	100.0	14	14
Pasco CHD_Wesley Chapel	519004	100.0	12	12

TABLE 2. Estimated vaccination coverage by age 24 months among children<sup>1</sup> with a county health department immunization home, for 4:3:1:3:3:1:4 vaccine series, Florida, by county and site<sup>2</sup>—Assessment of County Health Department Immunization Coverage Levels in 2-Year-Old Children 2020<sup>3</sup>

County Health Department (CHD), by Site	VFC PIN	4:3:1:3:3:1:4 <sup>4</sup>		Total Clients <sup>7</sup>
		% <sup>5</sup>	Complete <sup>6</sup>	
Pinellas CHD_Clearwater Health	527002	100.0	40	40
Pinellas CHD_Largo High Clinic	700531	100.0	1	1
Pinellas CHD_Midcounty Health Center	700069	100.0	18	18
Pinellas CHD_Pinellas Park Health	527005	100.0	14	14
Pinellas CHD_St Petersburg Health	527001	100.0	30	30
Pinellas CHD_Tarpon Springs Health	527006	95.0	19	20
Polk CHD_Auburndale	539003	66.7	20	30
Polk CHD_Haines City	700119	74.5	38	51
Polk CHD_Immunizations	539011	100.0	1	1
Polk CHD_Lake Wales	539001	100.0	11	11
Polk CHD_Lakeland	530001	91.1	41	45
Putnam CHD	540037	NA	NA	NA
Santa Rosa CHD_Milton Clinic	570036	82.9	29	35
Santa Rosa CHD_Gulf Breeze	579002	77.8	7	9
Sarasota CHD_Childrens Health	589003	94.4	17	18
Sarasota CHD_Mobile Medical Unit	700819	100.0	1	1
Sarasota CHD_North Port Clinic	589008	100.0	43	43
Sarasota CHD_Ringling Clinic	587001	94.3	33	35
Seminole CHD_Sanford	590051	54.5	18	33
St. Johns CHD	550037	NA	NA	NA
St. Lucie CHD	569005	NA	NA	NA
Sumter CHD_Bushnell	600034	100.0	4	4
Sumter CHD_Wildwood	609000	100.0	3	3
Suwannee CHD_Live Oak	610001	75.0	3	4
Taylor CHD	620034	0.0	0	1
Union CHD	630033	0.0	0	1
Volusia CHD_Daytona Beach	640058	100.0	24	24
Volusia CHD_New Smyrna Beach	649001	100.0	8	8
Volusia CHD_Orange	700508	96.7	29	30
Wakulla CHD	650033	100.0	6	6
Walton CHD	660001	88.6	109	123
Walton CHD_Coastal Branch	669001	91.1	123	135
Washington CHD	670033	100.0	7	7

<sup>1</sup>Children in this cohort were 24-35 months of age on January 1, 2020.

<sup>2</sup>Sites with no clients were removed from this report.

<sup>3</sup>Data collected from the Florida State Health Online Tracking System (SHOTS) on January 2, 2020.

<sup>4</sup>4:3:1:3:3:1:4 = Measure of four or more doses of diphtheria, tetanus toxoids, and acellular pertussis (DTaP) vaccine, three or more doses of poliovirus vaccine (IPV), one or more doses of measles, mumps and rubella (MMR) vaccine, three or more doses of *Haemophilus influenzae* type b (Hib) vaccine, three or more doses of hepatitis B vaccine, one or more doses of varicella vaccine (or physician documented disease history), and four or more doses of pneumococcal conjugate vaccine (PCV).

<sup>5</sup>Immunization levels (unweighted) presented as point estimate (%) for the 4:3:1:3:3:1:4 measure.

<sup>6</sup>Estimated number of children who completed the 4:3:1:3:3:1:4 measure by 24 months of age.

<sup>7</sup>Total number of 2-year-old children with a CHD immunization home.

<sup>8</sup>Not Applicable, as data (from Florida SHOTS) was excluded due to ≤10 "Total Clients" in their immunization home.

Table 3. Estimated vaccination coverage by age 24 months among children<sup>1</sup> with a county health department immunization home, for 4:3:1:3:3:1:4<sup>2</sup> vaccine series, Florida, by county, 2016–2020<sup>3</sup>—Assessment of County Health Department Immunization Coverage Levels in 2-Year-Old Children 2020

County Health Department	2016 <sup>4</sup>	2017 <sup>4</sup>	2018 <sup>4</sup>	2019 <sup>5</sup>	2020 <sup>5</sup>
	% <sup>6</sup>				
Alachua	95	91.0	97.1	97.8	97.0
Baker	94	100.0	100.0	75.9	91.7
Bay	95	69.2	NA <sup>7</sup>	100.0	96.9
Bradford	NA <sup>7</sup>	NA <sup>7</sup>	94.9	87.1	90.3
Brevard	99	97.0	97.5	94.6	90.3
Broward	95	91.0	99.0	94.0	93.8
Calhoun	96	90.0	94.6	96.8	90.5
Charlotte	100	100.0	100.0	100.0	100.0
Citrus	100	88.2	86.7	NA <sup>7</sup>	NA <sup>7</sup>
Clay	95	94.2	83.3	75.7	70.8
Collier	99	94.7	99.3	98.6	98.4
Columbia	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Dade	95	95.5	96.4	97.9	97.3
Desoto	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Dixie	80	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Duval	89	90.7	92.4	98.7	100.0
Escambia	81	91.7	91.3	95.3	92.6
Flagler	89	97.4	88.7	98.2	97.8
Franklin	98	98.6	100.0	97.2	96.2
Gadsden	78	62.5	64.7	72.7	85.0
Gilchrist	91	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Glades	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Gulf	94	96.2	100.0	97.8	95.8
Hamilton	100	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Hardee	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Hendry	87	93.8	93.8	90.3	88.9
Hernando	93	97.6	75.0	96.2	100.0
Highlands	100	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Hillsborough	64	92.3	100.0	98.5	5.3
Holmes	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Indian River	100	100.0	100.0	100.0	100.0
Jackson	83	88.5	NA <sup>7</sup>	64.7	NA <sup>7</sup>
Jefferson	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Lafayette	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Lake	95	92.3	93.9	96.3	97.3
Lee	97	93.5	98.7	91.7	100.0
Leon	98	92.6	100.0	100.0	86.7
Levy	88	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Liberty	100	96.3	96.4	94.7	83.3
Madison	87	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>



Table 3. Estimated vaccination coverage by age 24 months among children<sup>1</sup> with a county health department immunization home, for 4:3:1:3:3:1:4<sup>2</sup> vaccine series, Florida, by county, 2016–2020<sup>3</sup>—Assessment of County Health Department Immunization Coverage Levels in 2-Year-Old Children 2020

County Health Department	2016 <sup>4</sup>	2017 <sup>4</sup>	2018 <sup>4</sup>	2019 <sup>5</sup>	2020 <sup>5</sup>
	% <sup>6</sup>				
Manatee	100	100.0	82.5	65.0	100.0
Marion	84	81.4	97.1	100.0	NA <sup>7</sup>
Martin	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Monroe	94	88.3	82.3	79.7	96.4
Nassau	NA <sup>7</sup>	84.2	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Okaloosa	98	90.8	100.0	100.0	100.0
Okeechobee	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Orange	95	90.9	99.5	97.4	99.2
Osceola	96	82.5	83.7	90.3	94.9
Palm Beach	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Pasco	98	99.1	97.9	100.0	100.0
Pinellas	99	99.0	100.0	79.6	99.2
Polk	93	92.8	92.3	90.2	80.4
Putnam	91	NA <sup>7</sup>	100.0	100.0	NA <sup>7</sup>
Santa Rosa	96	82.6	100.0	66.7	81.8
Sarasota	98	NA <sup>7</sup>	97.4	96.0	96.9
Seminole	100	NA <sup>7</sup>	63.6	100.0	54.5
St Johns	95	100.0	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
St Lucie	96	97.6	95.7	90.9	NA <sup>7</sup>
Sumter	100	92.9	93.3	NA <sup>7</sup>	NA <sup>7</sup>
Suwannee	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Taylor	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Union	82	NA <sup>7</sup>	75.0	91.7	NA <sup>7</sup>
Volusia	95	93.8	91.7	74.3	98.4
Wakulla	100	100.0	100.0	100.0	NA <sup>7</sup>
Walton	90	87.9	85.9	85.1	89.9
Washington	100	NA <sup>7</sup>	91.7	NA <sup>7</sup>	NA <sup>7</sup>
<b>Statewide<sup>8</sup></b>	<b>93</b>	<b>92.0</b>	<b>93.1</b>	<b>92.1</b>	<b>93.4</b>

<sup>1</sup>Children in this cohort were 24-35 months of age on January 1 of each year indicated.

<sup>2</sup>4:3:1:3:3:1:4 = measure of four or more doses of diphtheria, tetanus toxoids, and acellular pertussis (DTAP) vaccine, three or more doses of inactivated poliovirus vaccine (IPV), one or more doses of measles, mumps, and rubella (MMR) vaccine, three or more doses of *Haemophilus influenzae* type b (Hib) vaccine, three or more doses of hepatitis B vaccine, one or more doses of varicella vaccine (or physician documented disease history), and four or more doses of pneumococcal conjugate vaccine (PCV).

<sup>3</sup>Data collected from the Florida State Health Online Tracking System (SHOTS) on January 2, 2020.

<sup>4</sup>Coverage goal is for 95% of "Total Clients" to complete the 4:3:1:3:3:1:4 vaccine series by 24 months of age.

<sup>5</sup>Coverage goal is for 90% of "Total Clients" to complete the 4:3:1:3:3:1:4 vaccine series by 24 months of age.

<sup>6</sup>Immunization levels (unweighted) presented as point estimate (%) for the 4:3:1:3:3:1:4 vaccine series. For 2016, the percent was rounded up.

<sup>7</sup>Not Applicable, as data (from Florida SHOTS) was excluded due to ≤10 "Total Clients" in their immunization home.

<sup>8</sup>Adjusted to exclude county health departments with ≤10 "Total Clients" in their immunization home.

Table 4. Estimated number of children age 24–35<sup>1</sup> months with a county health department immunization home, Florida, by county, 2016–2020—  
Assessment of County Health Department Immunization Coverage Levels in  
2-Year-Old Children 2020<sup>2</sup>

County Health Department	Number of Total Clients <sup>3</sup>				
	2016	2017	2018	2019	2020
Alachua	129	122	103	89	66
Baker	17	13	16	29	24
Bay	39	13	NA <sup>4</sup>	32	32
Bradford	NA <sup>4</sup>	NA <sup>4</sup>	39	62	72
Brevard	209	166	163	112	145
Broward	238	245	292	349	357
Calhoun	24	50	56	31	21
Charlotte	67	63	50	31	16
Citrus	19	17	15	NA <sup>4</sup>	NA <sup>4</sup>
Clay	119	86	18	37	48
Collier	275	187	140	141	126
Columbia	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Dade	485	199	366	328	222
Desoto	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Dixie	25	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Duval	793	408	383	236	147
Escambia	134	206	231	192	108
Flagler	90	77	53	55	46
Franklin	57	70	56	36	53
Gadsden	49	24	17	11	20
Gilchrist	23	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Glades	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Gulf	34	53	50	45	71
Hamilton	11	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Hardee	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Hendry	61	65	48	31	27
Hernando	58	41	44	26	19
Highlands	11	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Hillsborough	152	26	53	65	19
Holmes	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Indian River	163	137	114	96	62
Jackson	41	26	NA <sup>4</sup>	17	NA <sup>4</sup>
Jefferson	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Lafayette	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Lake	102	104	99	54	37
Lee	132	154	156	133	100
Leon	52	54	26	22	30
Levy	16	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Liberty	31	27	28	19	12
Madison	15	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Manatee	42	26	40	40	25

Table 4. Estimated number of children age 24–35<sup>1</sup> months with a county health department immunization home, Florida, by county, 2016–2020—  
Assessment of County Health Department Immunization Coverage Levels in  
2-Year-Old Children 2020<sup>2</sup>

County Health Department	Number of Total Clients <sup>3</sup>				
	2016	2017	2018	2019	2020
Marion	92	43	34	15	NA <sup>4</sup>
Martin	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Monroe	282	299	310	246	225
Nassau	NA <sup>4</sup>	19	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Okaloosa	169	76	54	82	87
Okeechobee	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Orange	346	241	190	156	120
Osceola	363	343	294	186	99
Palm Beach	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Pasco	81	115	97	54	37
Pinellas	92	102	92	49	123
Polk	423	387	310	215	138
Putnam	11	NA <sup>4</sup>	11	13	NA <sup>4</sup>
Santa Rosa	52	23	29	72	44
Sarasota	374	NA <sup>4</sup>	76	101	97
Seminole	51	NA <sup>4</sup>	33	21	33
St Johns	21	25	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
St Lucie	49	41	23	22	NA <sup>4</sup>
Sumter	25	14	15	NA <sup>4</sup>	NA <sup>4</sup>
Suwannee	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Taylor	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Union	17	NA <sup>4</sup>	16	12	NA <sup>4</sup>
Volusia	93	64	72	74	62
Wakulla	28	25	29	12	NA <sup>4</sup>
Walton	190	231	270	228	258
Washington	18	NA <sup>4</sup>	12	NA <sup>4</sup>	NA <sup>4</sup>
<b>Statewide<sup>5</sup></b>	<b>6,490</b>	<b>4,707</b>	<b>4,623</b>	<b>3,877</b>	<b>3,228</b>

<sup>1</sup>Children in this cohort were 24-35 months of age on January 1 of each year indicated.

<sup>2</sup>Data collected from the Florida State Health Online Tracking System (SHOTS) on January 2, 2020.

<sup>3</sup>Total 2-year-old children with a county health department (CHD) immunization home.

<sup>4</sup>Not Applicable, as data (from Florida SHOTS) was excluded due to ≤10 "Total Clients" in their immunization home.

<sup>5</sup>Adjusted to exclude CHDs with ≤10 "Total Clients" in their immunization home.

TABLE 5. Estimated vaccination coverage by age 12 months among children<sup>1</sup> with a county health department immunization home, for 3:2:2:2 vaccine series, Florida, by county—Assessment of County Health Department Immunization Coverage Levels in 1-Year-Old Children 2020<sup>2</sup>

County Health Department	3:2:2:2 <sup>3</sup>		Total Clients <sup>6</sup>		County Health Department	3:2:2:2 <sup>3</sup>		Total Clients <sup>6</sup>
	% <sup>4</sup>	Complete <sup>5</sup>				% <sup>4</sup>	Complete <sup>5</sup>	
Alachua <sup>7</sup>	83.8	57	68		Lake <sup>7</sup>	54.2	26	48
Baker <sup>7</sup>	80.8	21	26		Lee <sup>7</sup>	76.7	79	103
Bay <sup>7</sup>	63.6	21	33		Leon <sup>7</sup>	66.0	33	50
Bradford <sup>7</sup>	85.5	59	69		Levy <sup>8</sup>	NA	NA	NA
Brevard <sup>7</sup>	78.4	116	148		Liberty <sup>7</sup>	85.0	17	20
Broward <sup>7</sup>	65.9	327	496		Madison <sup>8</sup>	NA	NA	NA
Calhoun <sup>7</sup>	83.3	25	30		Manatee <sup>7</sup>	67.4	31	46
Charlotte <sup>7</sup>	66.7	20	30		Marion <sup>8</sup>	NA	NA	NA
Citrus <sup>7</sup>	70.0	14	20		Martin <sup>8</sup>	NA	NA	NA
Clay <sup>7</sup>	63.3	19	30		Monroe <sup>7</sup>	82.2	213	259
Collier <sup>7</sup>	87.9	94	107		Nassau <sup>8</sup>	NA	NA	NA
Columbia <sup>8</sup>	NA	NA	NA		Okaloosa <sup>7</sup>	61.2	85	139
Dade <sup>7</sup>	75.0	261	348		Okeechobee <sup>8</sup>	NA	NA	NA
Desoto	93.3	14	15		Orange <sup>7</sup>	62.6	107	171
Dixie <sup>8</sup>	NA	NA	NA		Osceola <sup>7</sup>	73.8	90	122
Duval <sup>7</sup>	81.9	113	138		Palm Beach <sup>7</sup>	69.7	23	33
Escambia <sup>7</sup>	65.7	65	99		Pasco <sup>7</sup>	57.1	40	70
Flagler <sup>7</sup>	63.9	46	72		Pinellas	95.3	82	86
Franklin <sup>7</sup>	87.8	43	49		Polk <sup>7</sup>	63.5	87	137
Gadsden <sup>7</sup>	75.0	9	12		Putnam	90.9	10.0	11.0
Gilchrist <sup>8</sup>	NA	NA	NA		Santa Rosa <sup>7</sup>	78.4	29	37
Glades <sup>8</sup>	NA	NA	NA		Sarasota <sup>7</sup>	67.7	90	133
Gulf <sup>7</sup>	85.5	47	55		Seminole <sup>7</sup>	75.7	28.0	37.0
Hamilton <sup>8</sup>	NA	NA	NA		St Johns <sup>8</sup>	NA	NA	NA
Hardee <sup>8</sup>	NA	NA	NA		St Lucie <sup>8</sup>	NA	NA	NA
Hendry <sup>7</sup>	72.2	13	18		Sumter <sup>8</sup>	NA	NA	NA
Hernando	95.2	20	21		Suwannee <sup>8</sup>	NA	NA	NA
Highlands <sup>8</sup>	NA	NA	NA		Taylor <sup>8</sup>	NA	NA	NA
Hillsborough <sup>7</sup>	42.4	14	33		Union <sup>8</sup>	NA	NA	NA
Holmes <sup>8</sup>	NA	NA	NA		Volusia <sup>7</sup>	58.9	53	90
Indian River <sup>7</sup>	76.5	13	17		Wakulla <sup>8</sup>	NA	NA	NA
Jackson <sup>8</sup>	NA	NA	NA		Walton <sup>7</sup>	80.9	191	236
Jefferson <sup>8</sup>	NA	NA	NA		Washington <sup>8</sup>	NA	NA	NA
Lafayette <sup>8</sup>	NA	NA	NA		Statewide <sup>9</sup>	73.0	2,745	3,762

<sup>1</sup>Children in this cohort were 12-23 months of age on January 1, 2020.

<sup>2</sup>Data collected from the Florida State Health Online Tracking System (SHOTS) on January 2, 2020.

<sup>3</sup>3:2:2:2 = Measure of three or more doses of diphtheria, tetanus toxoids, and acellular pertussis (DTaP) vaccine, two or more doses of inactivated poliovirus vaccine (IPV), two or more doses of *Haemophilus influenzae* type b (Hib) vaccine, and two or more doses of hepatitis B vaccine.

<sup>4</sup>Immunization levels (unweighted) presented as point estimate (%) for the 3:2:2:2 measure.

<sup>5</sup>Estimated number of children who received all vaccines necessary to complete the 3:2:2:2 measure by 12 months of age.

<sup>6</sup>Total number of 1-year-old children with a county health department (CHD) immunization home.

<sup>7</sup>Did not meet the coverage goal for 90% of "Total Clients" to complete the 3:2:2:2 vaccine series by 12 months of age.

<sup>8</sup>Not Applicable, as data (from Florida SHOTS) was excluded due to ≤10 "Total Clients" in their immunization home.

<sup>9</sup>Adjusted to exclude CHDs with ≤10 "Total Clients" in their immunization home.