

**Mission:**

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



**Ron DeSantis**  
Governor

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

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**MEMORANDUM**

**DATE:** March 29, 2019

**TO:** County Health Department Health Officers  
*Robert Griffin*

**THROUGH:** Robert M. Griffin, Administrator  
Immunization Section  
*Carina Blackmore*

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

**SUBJECT:** Assessment of County Health Department Immunization Coverage Levels in 2-Year-Old Children (2019)

**INFORMATION ONLY**

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In January 2019, the Florida Department of Health's 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 2016 through December 2017, as provided by the Florida State Health Online Tracking System (SHOTS), with a common review date of January 1, 2019.

The purpose of this assessment was to estimate immunization coverage levels statewide and per CHD, for children from age 24 to 35 months and children from age 12 to 23 months. The below immunization coverage goals, recommended by the Advisory Committee on Immunization Practices, and indicated on the Department's *2019 CHD Performance Snapshot Fact Sheet*, available in *InsideFLHealth*, are as follows:

Children from age 24 to 35 months should have completed 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 [VZV], and four or more doses of pneumococcal conjugate vaccine [PCV] by 24 months of age [age 2]).

Children from age 12 to 23 months should have completed 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 12 months of age [age 1]).

The national goal (*Healthy People 2020*) is for 80 percent of 2-year-old children to complete the 4:3:1:3:3:1:4 vaccine series. The statewide goal, which increased from 90 to 95 percent in 2014,

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is again at 90 percent. This change better aligns with the national goal, and is consistent with our statewide random sample survey, the *Survey of Immunization Levels in 2-Year-Old-Children*. The national and statewide coverage goals for 1-year-old children remain at 90 percent.

**The 2019 statewide immunization coverage level for the 2-year-old children assessed is 92.1 percent.** Twenty-three of the 67 CHDs (34 percent) were excluded from this cohort because the "Total Clients" in their immunization home was  $\leq 10$ . Of the remaining 44 CHDs, coverage levels ranged from 64.7 percent to 100 percent. Thirty-three CHDs (75 percent) achieved or exceeded the statewide goal, 10 of which attained 100 percent coverage. Those 44 CHDs were the immunization home to 3,877 children (Enclosure 1).

For this assessment, CHDs were broken down by immunization site, number of 2-year-old children with a CHD immunization home, and immunization coverage level for the 4:3:1:3:3:1:4 immunization series. The 23 CHDs with  $\leq 10$  "Total Clients" were excluded from this report also, as were sites with no clients (Enclosure 2). Those CHDs not meeting the goal may find these data useful for determining if and where pockets of need exist.

Coverage levels for the 2-year-old children assessed in the past five years (2015–2019) was compiled. For 2019, 22 of the qualifying ( $>10$  "Total Clients") 42 CHDs (52 percent) had a decrease in coverage from 2018, 14 improved their coverage, and six remained the same (Enclosure 3). For this same five-year period, the data on the number of 2-year-old children with a CHD immunization home was compiled. Twenty-five of the 67 CHDs (37 percent) could not be compared for years 2018 and 2019 due to having  $\leq 10$  "Total Clients" in either or both years.

In the last year, 29 of the 44 (66 percent) CHDs with  $>10$  "Total Clients" showed a decrease in the 2-year-old population served. Statewide, 16 percent fewer children had a CHD as their immunization home in 2019 compared to 2018 (3,877 and 4,623 respectively). From 2015 to 2019, the population decreased by 50 percent from 7,730 to 3,877 (Enclosure 4). Private physicians continue to lead in 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 is 75.6 percent,** which is consistent with last year's 76.6 percent. Twenty-six CHDs (39 percent) were excluded from this cohort because the "Total Clients" in their immunization home were  $\leq 10$ . Of the remaining 41 CHDs, coverage levels ranged from 40 percent to 100 percent. Ten CHDs (24 percent) achieved or exceeded the goal, with one attaining 100 percent coverage. Those 41 CHDs were the immunization home to 4,299 children (Enclosure 5).

Children who do not receive the fourth dose of DTaP by 24 months negatively impact statewide efforts to achieve immunization coverage goals by about four percent each year. We 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 work toward complete 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.

Continue to use clinical and WIC visits to assess immunization status, encourage vaccination compliance, and provide age-appropriate immunizations.

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The Immunization Section's Quality Improvement Clinical Team is available to provide technical assistance and guidance as needed. These collaborative efforts will help us reach our coverage goals for Florida's 2-year-old children and enable us to achieve our common goal of providing Florida's infant population with the best protection possible against vaccine-preventable diseases.

CB/RMG/aw

Enclosures

cc: Jennifer S. Johnson, MPH  
Interim Assistant Deputy Secretary for Health  
Shamarial Roberson, DrPH, MPH, Interim Director  
Division of Community Health Promotion  
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Jeanne Lane, CPM, ASQ-CQIA, Interim Chief  
Bureau of Performance Assessment and Improvement  
County Health Department Nursing Directors  
Immunization Section Field Staff Representatives

County Health Department Immunization Clients  
Coverage Levels at 24 Months of Age, January 1, 2019<sup>1</sup>  
Florida<sup>2</sup>, by County

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>	
Alachua	97.8	87	89
Baker <sup>7</sup>	75.9	22	29
Bay	100.0	32	32
Bradford <sup>7</sup>	87.1	54	62
Brevard	94.6	106	112
Broward	94.0	328	349
Calhoun	96.8	30	31
Charlotte	100.0	31	31
Citrus <sup>8</sup>	NA	NA	NA
Clay <sup>7</sup>	75.7	28	37
Collier	98.6	139	141
Columbia <sup>8</sup>	NA	NA	NA
Dade	97.9	321	328
Desoto <sup>8</sup>	NA	NA	NA
Dixie <sup>8</sup>	NA	NA	NA
Duval	98.7	233	236
Escambia	95.3	183	192
Flagler	98.2	54	55
Franklin	97.2	35	36
Gadsden <sup>7</sup>	72.7	8	11
Gilchrist <sup>8</sup>	NA	NA	NA
Glades <sup>8</sup>	NA	NA	NA
Gulf	97.8	44	45
Hamilton <sup>8</sup>	NA	NA	NA
Hardee <sup>8</sup>	NA	NA	NA
Hendry	90.3	28	31
Hernando	96.2	25	26
Highlands <sup>8</sup>	NA	NA	NA
Hillsborough	98.5	64	65
Holmes <sup>8</sup>	NA	NA	NA
Indian River	100.0	96	96
Jackson <sup>7</sup>	64.7	11	17
Jefferson <sup>8</sup>	NA	NA	NA
Lafayette <sup>8</sup>	NA	NA	NA

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>	
Lake	96.3	52	54
Lee	91.7	122	133
Leon	100.0	22	22
Levy <sup>8</sup>	NA	NA	NA
Liberty	94.7	18	19
Madison <sup>8</sup>	NA	NA	NA
Manatee <sup>7</sup>	65.0	26	40
Marion	100.0	15	15
Martin <sup>8</sup>	NA	NA	NA
Monroe <sup>7</sup>	79.7	196	246
Nassau <sup>8</sup>	NA	NA	NA
Okaloosa	100.0	82	82
Okeechobee <sup>8</sup>	NA	NA	NA
Orange	97.4	152	156
Osceola	90.3	168	186
Palm Beach <sup>8</sup>	NA	NA	NA
Pasco	100.0	54	54
Pinellas <sup>7</sup>	79.6	39	49
Polk	90.2	194	215
Putnam	100.0	13	13
Santa Rosa <sup>7</sup>	66.7	48	72
Sarasota	96.0	97	101
Seminole	100.0	21	21
St Johns <sup>8</sup>	NA	NA	NA
St Lucie	90.9	20	22
Sumter <sup>8</sup>	NA	NA	NA
Suwannee <sup>8</sup>	NA	NA	NA
Taylor <sup>8</sup>	NA	NA	NA
Union	91.7	11	12
Volusia <sup>7</sup>	74.3	55	74
Wakulla	100.0	12	12
Walton <sup>7</sup>	85.1	194	228
Washington <sup>8</sup>	NA	NA	NA
Statewide <sup>9</sup>	<b>92.1</b>	3,570	3,877

<sup>1</sup>Children in this cohort were 24-35 months of age on January 1, 2019.

<sup>2</sup>Data collected from the Florida State Health Online Tracking System (SHOTS) on January 2, 2019.

<sup>3</sup>4:3:1:3:3:1:4 = Vaccine series 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 (VZV), 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 vaccine series.

<sup>5</sup>Estimated number of children who received all vaccines necessary to complete the 4:3:1:3:3:1:4 vaccine series 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 vaccine series 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.

County Health Department Immunization Clients  
Coverage Levels at 24 Months of Age, January 1, 2019<sup>1</sup>  
Florida<sup>2</sup>, by County and Site<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_Alachua Clinic	019000	100.0	18	18
Alachua CHD_Gainesville	017001	97.1	68	70
Alachua CHD_South West Clinic	700413	100.0	1	1
Baker CHD	020035	75.9	22	29
Bay CHD	030044	100.0	32	32
Bradford CHD_Bradford CHD	040034	50.0	1	2
Bradford CHD_New River Peds	700538	88.3	53	60
Brevard CHD_Melbourne	059005	95.2	60	63
Brevard CHD_Titusville	059004	90.0	9	10
Brevard CHD_Viera	059007	94.9	37	39
Broward CHD_Imm Outreach	700665	100.0	1	1
Broward CHD_Mills Health Center	061310	92.1	209	227
Broward CHD_Paul Hughes Health Ctr	069022	97.5	117	120
Broward CHD_Refugee Clinic	none	100.0	1	1
Calhoun CHD	070001	96.8	30	31
Charlotte CHD_Port Charlotte	080010	100.0	31	31
Citrus CHD <sup>8</sup>	097001	NA	NA	NA
Clay CHD_Bear Run Clinic	100043	75.7	28	37
Collier CHD_Immokalee	119003	97.6	41	42
Collier CHD_Naples	110037	99.0	98	99
Columbia CHD <sup>8</sup>	120001	NA	NA	NA
Dade CHD_Health District Center	137003	99.0	206	208
Dade CHD_Immunization Outreach	137002	75.0	3	4
Dade CHD_Little Haiti Health Center	139047	96.2	76	79
Dade CHD_Refugee Health Center	137001	100.0	12	12
Dade CHD_West Perrine Health Center	139012	96.0	24	25
Desoto CHD <sup>8</sup>	140001	NA	NA	NA
Dixie CHD <sup>8</sup>	150001	NA	NA	NA
Duval CHD_Beaches Family Health Center	169003	97.5	77	79
Duval CHD_Center For Women And Children	169008	100.0	113	113
Duval CHD_South Jax Imm Center	169002	100.0	31	31
Duval CHD_The Immunization Center	169007	100.0	11	11
Duval CHD_Wesconnett F.H.C	none	50.0	1	2
Escambia CHD	170041	95.3	183	192
Flagler CHD	180033	98.2	54	55
Franklin CHD_Franklin CHD	190001	96.9	31	32
Franklin CHD_Annex	199000	100.0	4	4
Gadsden CHD	207001	72.7	8	11
Gilchrist CHD <sup>8</sup>	210065	NA	NA	NA
Glades CHD <sup>8</sup>	220001	NA	NA	NA

County Health Department Immunization Clients  
Coverage Levels at 24 Months of Age, January 1, 2019<sup>1</sup>  
Florida<sup>2</sup>, by County and Site<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>	
Gulf CHD_Port St. Joe Clinic	230001	97.1	34	35
Gulf CHD_Wewahitchka Clinic	239000	100.0	10	10
Hamilton CHD <sup>8</sup>	240033	NA	NA	NA
Hardee CHD <sup>8</sup>	250037	NA	NA	NA
Hendry CHD_Clewiston Clinic	260036	92.9	13	14
Hendry CHD_Labelle Clinic	260007	88.2	15	17
Hernando CHD_Brooksville	270001	100.0	2	2
Hernando CHD_Spring Hill	279001	95.8	23	24
Highlands CHD <sup>8</sup>	280055	NA	NA	NA
Hillsborough CHD_Main Immunizations	299017	100.0	59	59
Hillsborough CHD_Refugee Clinic	299016	83.3	5	6
Holmes CHD <sup>8</sup>	300034	NA	NA	NA
Indian River CHD_Gifford Health Center	319000	100.0	96	96
Jackson CHD	320001	64.7	11	17
Jefferson CHD <sup>8</sup>	330001	NA	NA	NA
Lafayette CHD <sup>8</sup>	340001	NA	NA	NA
Lake CHD_Clermont	700062	92.3	12	13
Lake CHD_Leesburg	700010	96.7	29	30
Lake CHD_Umatilla	357002	100.0	11	11
Lee CHD_Michigan Avenue	360046	91.7	121	132
Lee CHD_Pondella Clinic	369000	100.0	1	1
Leon CHD_Roberts And Stevens	377001	100.0	22	22
Levy CHD <sup>8</sup>	380034	NA	NA	NA
Liberty CHD	390003	94.7	18	19
Madison CHD <sup>8</sup>	400036	NA	NA	NA
Manatee CHD	410001	69.0	20	29
Manatee CHD_Preventative Care Cl	700226	54.5	6	11
Marion CHD_Central Pharmacy	420001	100.0	15	15
Martin CHD <sup>8</sup>	430001	NA	NA	NA
Monroe CHD_Gato	440001	83.8	145	173
Monroe CHD_Roth Building-Tavernier	449001	50.0	9	18
Monroe CHD_Ruth Ivins Center-Marathon	449002	76.4	42	55
Nassau CHD <sup>8</sup>	450011	NA	NA	NA
Okaloosa CHD_Crestview	469000	100.0	18	18
Okaloosa CHD_Fort Walton Beach	460001	100.0	64	64
Okeechobee CHD <sup>8</sup>	470037	NA	NA	NA
Orange CHD_Bithlo	700418	100.0	2	2
Orange CHD_Central Immunizations	487003	96.8	122	126
Orange CHD_Eastside Clinic-FPPH	700681	100.0	1	1
Orange CHD_Engelwood	700420	100.0	5	5

County Health Department Immunization Clients  
Coverage Levels at 24 Months of Age, January 1, 2019<sup>1</sup>  
Florida<sup>2</sup>, by County and Site<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>	
Orange CHD_NCF	none	100.0	1	1
Orange CHD_Outreach Facility	700644	100.0	8	8
Orange CHD_Taft	700421	100.0	13	13
Osceola CHD_Imm Clinic	497001	90.3	168	186
Palm Beach CHD <sup>8</sup>	509012	NA	NA	NA
Pasco CHD_Dade City	517001	100.0	13	13
Pasco CHD_NPR	519001	100.0	27	27
Pasco CHD_Wesley Chapel	519004	100.0	14	14
Pinellas CHD_Clearwater Health	527002	60.0	6	10
Pinellas CHD_Midcounty Health	700069	91.7	11	12
Pinellas CHD_Pinellas Park Health	527005	85.7	6	7
Pinellas CHD_St Petersburg Health	527001	80.0	8	10
Pinellas CHD_Tarpon Springs Health	527006	80.0	8	10
Polk CHD_Auburndale	539003	87.8	36	41
Polk CHD_Haines City	700119	94.3	33	35
Polk CHD_Immunizations	539011	100.0	3	3
Polk CHD_Immunology Lakeland	700673	0.0	0	1
Polk CHD_Lake Wales	539001	94.4	17	18
Polk CHD_Lakeland	530001	89.7	105	117
Putnam CHD	540037	100.0	13	13
Santa Rosa CHD_Gulf Breeze	579002	70.6	12	17
Santa Rosa CHD_Milton Clinic	570036	65.5	36	55
Sarasota CHD_Childrens Health	589003	100.0	17	17
Sarasota CHD_Mobile Medical Unit	none	100.0	1	1
Sarasota CHD_North Port Clinic	589008	97.6	40	41
Sarasota CHD_Ringling Clinic	587001	92.9	39	42
Seminole CHD_Sanford	590051	100.0	21	21
St Johns CHD <sup>8</sup>	550037	NA	NA	NA
St Lucie CHD_Port St. Lucie	569005	90.9	20	22
Sumter CHD <sup>8</sup>	600034	NA	NA	NA
Suwannee CHD <sup>8</sup>	610001	NA	NA	NA
Taylor CHD <sup>8</sup>	620034	NA	NA	NA
Union CHD_New River Community	none	100.0	8	8
Union CHD_Union CHD	630033	75.0	3	4
Volusia CHD_Daytona Beach	640058	72.7	24	33
Volusia CHD_Hepatitis Program	none	100.0	1	1
Volusia CHD_New Smyrna Beach	649001	73.3	11	15
Volusia CHD_Orange	700508	76.0	19	25
Wakulla CHD	650033	100.0	12	12
Walton CHD_Coastal Branch	669001	82.8	101	122

County Health Department Immunization Clients  
Coverage Levels at 24 Months of Age, January 1, 2019<sup>1</sup>  
Florida<sup>2</sup>, by County and Site<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>	
Walton CHD_Walton CHD	660001	87.7	93	106
Washington CHD <sup>8</sup>	670033	NA	NA	NA

<sup>1</sup>Children in this cohort were 24-35 months of age on January 1, 2019.

<sup>2</sup>Data collected from the Florida State Health Online Tracking System (SHOTS) on January 2, 2019.

<sup>3</sup>Sites with no clients were removed from this report.

<sup>4</sup>4:3:1:3:3:1:4 = Vaccine series 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 (VZV), 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 vaccine series.

<sup>6</sup>Estimated number of children who completed the 4:3:1:3:3:1:4 vaccine series 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.

County Health Department Immunization Clients  
Coverage Levels<sup>1</sup> at 24 Months of Age<sup>2</sup>  
Florida<sup>3</sup>, by County, 2015–2019

County Health Department	4:3:1:3:3:1:4 <sup>4</sup>				
	2015 <sup>5</sup>	2016 <sup>5</sup>	2017 <sup>5</sup>	2018 <sup>5</sup>	2019 <sup>6</sup>
Alachua	96	95	91.0	97.1	97.8
Baker	78	94	100.0	100.0	75.9
Bay	92	95	69.2	NA <sup>7</sup>	100.0
Bradford	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	94.9	87.1
Brevard	99	99	97.0	97.5	94.6
Broward	97	95	91.0	99.0	94.0
Calhoun	88	96	90.0	94.6	96.8
Charlotte	89	100	100.0	100.0	100.0
Citrus	98	100	88.2	86.7	NA <sup>7</sup>
Clay	93	95	94.2	83.3	75.7
Collier	96	99	94.7	99.3	98.6
Columbia	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Dade	92	95	95.5	96.4	97.9
Desoto	80	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Dixie	88	80	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Duval	89	89	90.7	92.4	98.7
Escambia	93	81	91.7	91.3	95.3
Flagler	99	89	97.4	88.7	98.2
Franklin	97	98	98.6	100.0	97.2
Gadsden	97	78	62.5	64.7	72.7
Gilchrist	88	91	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	100	94	96.2	100.0	97.8
Hamilton	NA <sup>7</sup>	100	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Hardee	100	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Hendry	97	87	93.8	93.8	90.3
Hernando	90	93	97.6	75.0	96.2
Highlands	100	100	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Hillsborough	76	64	92.3	100.0	98.5
Holmes	100	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Indian River	100	100	100.0	100.0	100.0
Jackson	73	83	88.5	NA <sup>7</sup>	64.7
Jefferson	60	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	93	95	92.3	93.9	96.3
Lee	70	97	93.5	98.7	91.7
Leon	94	98	92.6	100.0	100.0
Levy	92	88	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Liberty	100	100	96.3	96.4	94.7
Madison	91	87	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Manatee	97	100	100.0	82.5	65.0

County Health Department Immunization Clients  
Coverage Levels<sup>1</sup> at 24 Months of Age<sup>2</sup>  
Florida<sup>3</sup>, by County, 2015–2019

County Health Department	4:3:1:3:3:1:4 <sup>4</sup>				
	2015 <sup>5</sup>	2016 <sup>5</sup>	2017 <sup>5</sup>	2018 <sup>5</sup>	2019 <sup>6</sup>
Marion	80	84	81.4	97.1	100.0
Martin	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Monroe	89	94	88.3	82.3	79.7
Nassau	78	NA <sup>7</sup>	84.2	NA <sup>7</sup>	NA <sup>7</sup>
Okaloosa	98	98	90.8	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	93	95	90.9	99.5	97.4
Osceola	92	96	82.5	83.7	90.3
Palm Beach	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>	NA <sup>7</sup>
Pasco	96	98	99.1	97.9	100.0
Pinellas	99	99	99.0	100.0	79.6
Polk	94	93	92.8	92.3	90.2
Putnam	100	91	NA <sup>7</sup>	100.0	100.0
Santa Rosa	85	96	82.6	100.0	66.7
Sarasota	92	98	NA <sup>7</sup>	97.4	96.0
Seminole	85	100	NA <sup>7</sup>	63.6	100.0
St Johns	100	95	100.0	NA <sup>7</sup>	NA <sup>7</sup>
St Lucie	94	96	97.6	95.7	90.9
Sumter	98	100	92.9	93.3	NA <sup>7</sup>
Suwannee	95	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	NA <sup>7</sup>	82	NA <sup>7</sup>	75.0	91.7
Volusia	92	95	93.8	91.7	74.3
Wakulla	100	100	100.0	100.0	100.0
Walton	84	90	87.9	85.9	85.1
Washington	100	100	NA <sup>7</sup>	91.7	NA <sup>7</sup>
<b>Statewide<sup>8</sup></b>	<b>91</b>	<b>93</b>	<b>92.0</b>	<b>93.1</b>	<b>92.1</b>

<sup>1</sup>Immunization levels (unweighted) presented as point estimate (%) for the 4:3:1:3:3:1:4 vaccine series.  
For years 2015–2016 the percent was rounded up.

<sup>2</sup>Children in this cohort were 24-35 months of age on January 1 of each year indicated.

<sup>3</sup>Data collected from the Florida State Health Online Tracking System (SHOTS) on January 2, 2019.

<sup>4</sup>4:3:1:3:3:1:4 = Vaccine series 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 (VZV), and four or more doses of pneumococcal conjugate vaccine (PCV).

<sup>5</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>6</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>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.

County Health Department Immunization Clients  
Number of Clients 24–35 Months of Age<sup>1</sup>  
Florida<sup>2</sup>, by County, 2015–2019

County Health Department	Number of Total Clients <sup>3</sup>				
	2015	2016	2017	2018	2019
Alachua	122	129	122	103	89
Baker	23	17	13	16	29
Bay	49	39	13	NA <sup>4</sup>	32
Bradford	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	39	62
Brevard	167	209	166	163	112
Broward	107	238	245	292	349
Calhoun	51	24	50	56	31
Charlotte	83	67	63	50	31
Citrus	48	19	17	15	NA <sup>4</sup>
Clay	56	119	86	18	37
Collier	352	275	187	140	141
Columbia	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Dade	418	485	199	366	328
Desoto	20	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Dixie	33	25	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Duval	1,071	793	408	383	236
Escambia	230	134	206	231	192
Flagler	88	90	77	53	55
Franklin	60	57	70	56	36
Gadsden	70	49	24	17	11
Gilchrist	33	23	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	22	34	53	50	45
Hamilton	NA <sup>4</sup>	11	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Hardee	23	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Hendry	60	61	65	48	31
Hernando	67	58	41	44	26
Highlands	11	11	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Hillsborough	196	152	26	53	65
Holmes	13	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Indian River	211	163	137	114	96
Jackson	41	41	26	NA <sup>4</sup>	17
Jefferson	15	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	136	102	104	99	54
Lee	181	132	154	156	133
Leon	52	52	54	26	22
Levy	24	16	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Liberty	20	31	27	28	19
Madison	34	15	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Manatee	34	42	26	40	40

County Health Department Immunization Clients  
Number of Clients 24–35 Months of Age<sup>1</sup>  
Florida<sup>2</sup>, by County, 2015–2019

County Health Department	Number of Total Clients <sup>3</sup>				
	2015	2016	2017	2018	2019
Marion	113	92	43	34	15
Martin	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Monroe	293	282	299	310	246
Nassau	23	NA <sup>4</sup>	19	NA <sup>4</sup>	NA <sup>4</sup>
Okaloosa	190	169	76	54	82
Okeechobee	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Orange	390	346	241	190	156
Osceola	421	363	343	294	186
Palm Beach	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>
Pasco	99	81	115	97	54
Pinellas	122	92	102	92	49
Polk	548	423	387	310	215
Putnam	20	11	NA <sup>4</sup>	11	13
Santa Rosa	123	52	23	29	72
Sarasota	490	374	NA <sup>4</sup>	76	101
Seminole	147	51	NA <sup>4</sup>	33	21
St Johns	32	21	25	NA <sup>4</sup>	NA <sup>4</sup>
St Lucie	77	49	41	23	22
Sumter	53	25	14	15	NA <sup>4</sup>
Suwannee	22	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	NA <sup>4</sup>	17	NA <sup>4</sup>	16	12
Volusia	119	93	64	72	74
Wakulla	16	28	25	29	12
Walton	187	190	231	270	228
Washington	24	18	NA <sup>4</sup>	12	NA <sup>4</sup>
<b>Statewide<sup>5</sup></b>	<b>7,730</b>	<b>6,490</b>	<b>4,707</b>	<b>4,623</b>	<b>3,877</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, 2019.

<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.

County Health Department Immunization Clients  
Coverage Levels at 12 Months of Age, January 1, 2019<sup>1</sup>  
Florida<sup>2</sup>, by County

County Health Department	3:2:2:2 <sup>3</sup>		Total Clients <sup>6</sup>
	% <sup>4</sup>	Complete <sup>5</sup>	
Alachua <sup>7</sup>	73.5	36	49
Baker	83.8	31	37
Bay	82.5	33	40
Bradford	96.8	61	63
Brevard	88.7	63	71
Broward <sup>7</sup>	66.7	333	499
Calhoun	90.9	30	33
Charlotte <sup>7</sup>	78.9	15	19
Citrus <sup>7</sup>	62.5	10	16
Indian River	97.3	109	112
Jackson <sup>8</sup>	NA	NA	NA
Jefferson <sup>8</sup>	NA	NA	NA
Lafayette <sup>8</sup>	NA	NA	NA

County Health Department	3:2:2:2 <sup>3</sup>		Total Clients <sup>6</sup>
	% <sup>4</sup>	Complete <sup>5</sup>	
Lake <sup>7</sup>	84.8	39	46
Lee	87.3	96	110
Leon	59.6	28	47
Lewy <sup>8</sup>	NA	NA	NA
Liberty	94.7	18	19
Madison <sup>8</sup>	NA	NA	NA
Manatee	53.8	21	39
Marion <sup>8</sup>	NA	NA	NA
Martin <sup>8</sup>	NA	NA	NA
Wakulla <sup>8</sup>	NA	NA	NA
Walton <sup>7</sup>	85.1	262	308
Washington <sup>8</sup>	NA	NA	NA
Statewide <sup>7,9</sup>	75.6	3,252	4,299

<sup>1</sup>Children in this cohort were 12-23 months of age on January 1, 2019.

<sup>2</sup>Data collected from the Florida State Health Online Tracking System (SHOTS) on January 2, 2019.

<sup>3</sup>3:2:2:2 = Vaccine series 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 vaccine series.

<sup>5</sup>Estimated number of children who received all vaccines necessary to complete the 3:2:2:2 vaccine series 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.