

Mission:

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



Rick Scott
Governor

Celeste Philip, MD, MPH
Surgeon General and Secretary

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

MEMORANDUM

DATE: January 31, 2018

TO: County Health Department Directors/Administrators

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 (2018)

INFORMATION ONLY

In January 2018, the Florida Department of Health's Immunization Section completed an annual immunization assessment of all children from 12 to 35 months of age 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. The Florida State Health Online Tracking System (SHOTS) provided the population and data collection for this assessment, with a common review date of January 1, 2018.

The purpose of this assessment was to estimate immunization coverage levels statewide and for each of Florida's 67 counties, for children 24 to 35 months of age and children 12 to 23 months of age. Immunization coverage was determined using the following recommendations of the Advisory Committee on Immunization Practices:

Children from 24 to 35 months of age should have completed the 4:3:1:3:3:1:4 immunization 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 12 to 23 months of age should have completed the 3:2:2:2 immunization 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 coverage goal for 2-year-old children to complete the 4:3:1:3:3:1:4 immunization series is 80 percent, while the Florida CHD client immunization coverage goal is 95 percent. The national and Florida CHD client immunization coverage goal for 1-year-old children to complete the 3:2:2:2 immunization series is 90 percent. **The 2018 statewide CHD immunization coverage level for the 2-year-old children assessed is 93.1 percent, which is consistent with last year's 92 percent.**

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Twenty-two of the 67 CHDs (33 percent) were excluded from this cohort because the "Total Clients" immunized at their health department was ≤ 10 . Of those remaining 45 CHDs, 24 (53 percent) achieved or exceeded the statewide CHD client coverage, 12 of which attained 100 percent coverage. Those 45 CHDs were the immunization home to 4,623 children (Enclosure 1).

For this assessment, CHDs were broken down by site(s), number of 2-year-old children with a CHD as their immunization home, and immunization coverage level for the 4:3:1:3:3:1:4 immunization series. The 22 CHDs with ≤ 10 "Total Clients" were excluded from this report also, as well as sites with no clients (Enclosure 2). Those CHDs not meeting the statewide CHD coverage goal may find these data useful for determining if and where pockets of need exist at one or more sites providing immunization services.

Coverage levels for the 2-year-old children assessed in the past five years (2014–2018) was compiled. For 2018, 12 of the qualifying 39 CHDs (31 percent) had a decrease in coverage from 2017, 22 improved their coverage, and five 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 were compiled. Twenty-eight of the 67 CHDs (42 percent) could not be compared for years 2017 and 2018 due to having ≤ 10 "Total Clients" in either or both years. In the last year alone, 23 of the 45 (51 percent) CHDs with more than 10 clients decreased the 2-year-old population served. Statewide, only two percent fewer children had a CHD as their immunization home in 2018 compared to 2017 (4,707 and 4,623 respectively). From 2014 to 2018, the population decreased by 55 percent from 10,201 to 4,623 (Enclosure 4). Private physicians continue to lead in volume of childhood immunization service delivery, while CHDs provide about four percent annually.

The 2018 statewide CHD immunization coverage level for the 1-year-old children assessed is 76.6 percent, which is consistent with last year's 76.1 percent. Twenty CHDs (30 percent) were excluded from this cohort because the "Total Clients" in their immunization home were ≤ 10 percent. Of the remaining 47 CHDs, only eight (17 percent) achieved or exceeded the 90 percent statewide CHD goal (Enclosure 5).

Failures to ensure that children receive the fourth dose of DTaP negatively impact statewide efforts to achieve immunization coverage goals. We must focus on the following areas to improve our 2-year-old CHD immunization coverage rates:

Administer simultaneously all vaccines a child is eligible to receive at the time of each visit.

Conduct quarterly audits via Florida SHOTS to ensure complete immunization coverage of children with a CHD immunization home.

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

Use clinical and WIC visits to assess immunization status, encourage vaccination compliance, and provide appropriate immunizations.

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

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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: Kelli T. Wells, MD
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County Health Department Immunization Clients
Coverage Levels at 24 Months of Age, January 1, 2018¹
Florida², by County

County Health Department	4:3:1:3:3:1:4 ³		Total Clients ⁶
	% ⁴	Complete ⁵	
Alachua	97.1	100	103
Baker	100.0	16	16
Bay	N/A ⁷	N/A ⁷	N/A ⁷
Bradford	94.9	37	39
Brevard	97.5	159	163
Broward	99.0	289	292
Calhoun	94.6	53	56
Charlotte	100.0	50	50
Citrus	86.7	13	15
Clay	83.3	15	18
Collier	99.3	139	140
Columbia	N/A ⁷	N/A ⁷	N/A ⁷
Dade	96.4	353	366
Desoto	N/A ⁷	N/A ⁷	N/A ⁷
Dixie	N/A ⁷	N/A ⁷	N/A ⁷
Duval	92.4	354	383
Escambia	91.3	211	231
Flagler	88.7	47	53
Franklin	100.0	56	56
Gadsden	64.7	11	17
Gilchrist	N/A ⁷	N/A ⁷	N/A ⁷
Glades	N/A ⁷	N/A ⁷	N/A ⁷
Gulf	100.0	50	50
Hamilton	N/A ⁷	N/A ⁷	N/A ⁷
Hardee	N/A ⁷	N/A ⁷	N/A ⁷
Hendry	93.8	45	48
Hernando	75.0	33	44
Highlands	N/A ⁷	N/A ⁷	N/A ⁷
Hillsborough	100.0	53	53
Holmes	N/A ⁷	N/A ⁷	N/A ⁷
Indian River	100.0	114	114
Jackson	N/A ⁷	N/A ⁷	N/A ⁷
Jefferson	N/A ⁷	N/A ⁷	N/A ⁷
Lafayette	N/A ⁷	N/A ⁷	N/A ⁷

County Health Department	4:3:1:3:3:1:4 ³		Total Clients ⁶
	% ⁴	Complete ⁵	
Lake	93.9	93	99
Lee	98.7	154	156
Leon	100.0	26	26
Levy	N/A ⁷	N/A ⁷	N/A ⁷
Liberty	96.4	27	28
Madison	N/A ⁷	N/A ⁷	N/A ⁷
Manatee	82.5	33	40
Marion	97.1	33	34
Martin	N/A ⁷	N/A ⁷	N/A ⁷
Monroe	82.3	255	310
Nassau	N/A ⁷	N/A ⁷	N/A ⁷
Okaloosa	100.0	54	54
Okeechobee	N/A ⁷	N/A ⁷	N/A ⁷
Orange	99.5	189	190
Osceola	83.7	246	294
Palm Beach	N/A ⁷	N/A ⁷	N/A ⁷
Pasco	97.9	95	97
Pinellas	100.0	92	92
Polk	92.3	286	310
Putnam	100.0	11	11
Santa Rosa	100.0	29	29
Sarasota	97.4	74	76
Seminole	63.6	21	33
St Johns	N/A ⁷	N/A ⁷	N/A ⁷
St Lucie	95.7	22	23
Sumter	93.3	14	15
Suwannee	N/A ⁷	N/A ⁷	N/A ⁷
Taylor	N/A ⁷	N/A ⁷	N/A ⁷
Union	75.0	12	16
Volusia	91.7	66	72
Wakulla	100.0	29	29
Walton	85.9	232	270
Washington	91.7	11	12
Statewide ⁸	93.1	4,302	4,623

¹ Children in this cohort were 24-35 months of age on January 1, 2018.

² Data collected from the Florida State Health Online Tracking System (SHOTS) on January 2, 2018.

³ 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 (VZV), and four or more doses of pneumococcal conjugate vaccine (PCV).

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

⁵ Estimated number of children who have received all vaccines necessary to complete the measure by 24 months of age.

⁶ Total 2-year-old children with a county health department immunization home.

⁷ County-specific data (from Florida SHOTS) excluded due to ≤10 "Total Clients" in their immunization home.

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

County Health Department Immunization Clients
Coverage Levels at 24 Months of Age, January 1, 2018¹
Florida², by County and Site³

County Health Department, by Site	VFC PIN #	4:3:1:3:3:1:4 ⁴		Total Clients ⁷
		% ⁵	Complete ⁶	
Alachua CHD_Alachua Clinic	019000	90.9	10	11
Alachua CHD_Gainesville	017001	97.8	88	90
Alachua CHD_South West Clinic	700413	100.0	2	2
Baker CHD	020035	100.0	16	16
Bay CHD	030044	N/A ^B	N/A ^B	N/A ^B
Bradford CHD_Bradford CHD	040034	88.9	8	9
Bradford CHD_New River Peds	700538	96.7	29	30
Brevard CHD_Melbourne	059005	97.5	78	80
Brevard CHD_Titusville	059004	100.0	30	30
Brevard CHD_Viera	059007	96.2	51	53
Broward CHD_Ft. Lauderdale Imm Clinic	700065	100.0	3	3
Broward CHD_Ft. Lauderdale Health Center	067001	100.0	1	1
Broward CHD_Hepatitis Clinic	none	100.0	1	1
Broward CHD_Mills Health Center	061310	98.9	188	190
Broward CHD_Paul Hughes Health Center	069022	99.0	96	97
Calhoun CHD	070001	94.6	53	56
Charlotte CHD_Port Charlotte	080010	100.0	50	50
Citrus CHD_Inverness Health Unit	none	50.0	1	2
Citrus CHD_Lecanto Main Health Unit	097001	92.3	12	13
Clay CHD_Bear Run Clinic	100043	83.3	15	18
Collier CHD_Adult Clinic	none	100.0	3	3
Collier CHD_Immokalee	119003	97.3	36	37
Collier CHD_Naples	110037	100.0	100	100
Columbia CHD	120001	N/A ^B	N/A ^B	N/A ^B
Dade CHD_Health District Center	137003	96.6	226	234
Dade CHD_Little Haiti Health Center	139047	98.0	49	50
Dade CHD_North Miami Health Center	none	92.9	26	28
Dade CHD_Refugee Health Center	137001	0.0	0	1
Dade CHD_West Perrine Health Center	139012	98.1	52	53
Desoto CHD	140001	N/A ^B	N/A ^B	N/A ^B
Dixie CHD	150001	N/A ^B	N/A ^B	N/A ^B
Duval CHD_BCC Refugee	169017	0.0	0	1
Duval CHD_Beaches Family Health Center	169003	90.3	65	72
Duval CHD_Center For Women And Children	169008	91.6	153	167
Duval CHD_South Jax Imm Center	169002	97.8	88	90
Duval CHD_The Immunization Center	169007	90.6	48	53
Escambia CHD	170041	91.3	211	231
Flagler CHD	180033	88.7	47	53
Franklin CHD_Franklin CHD	190001	100.0	46	46
Franklin CHD_Annex	199000	100.0	10	10
Gadsden CHD	207001	64.7	11	17

County Health Department Immunization Clients
Coverage Levels at 24 Months of Age, January 1, 2018¹
Florida², by County and Site³

County Health Department, by Site	VFC PIN #	4:3:1:3:3:1:4 ⁴		Total Clients ⁷
		% ⁵	Complete ⁶	
Gilchrist CHD	210065	N/A ^B	N/A ^B	N/A ^B
Glades CHD	220001	N/A ^B	N/A ^B	N/A ^B
Gulf CHD_Port St. Joe Clinic	230001	100.0	40	40
Gulf CHD_Wewahitchka Clinic	239000	100.0	10	10
Hamilton CHD	240033	N/A ^B	N/A ^B	N/A ^B
Hardee CHD	250037	N/A ^B	N/A ^B	N/A ^B
Hendry CHD_Clewiston Clinic	260036	92.3	12	13
Hendry CHD_Labelle Clinic	260007	94.3	33	35
Hernando CHD_Brooksville	270001	72.7	8	11
Hernando CHD_Spring Hill	279001	75.8	25	33
Highlands CHD	280055	N/A ^B	N/A ^B	N/A ^B
Hillsborough CHD_Main Immunizations	299017	100.0	39	39
Hillsborough CHD_Refugee Clinic	299016	100.0	14	14
Holmes CHD	300034	N/A ^B	N/A ^B	N/A ^B
Indian River CHD_Gifford Health Center	319000	100.0	114	114
Jackson CHD	320001	N/A ^B	N/A ^B	N/A ^B
Jefferson CHD	330001	N/A ^B	N/A ^B	N/A ^B
Lafayette CHD	340001	N/A ^B	N/A ^B	N/A ^B
Lake CHD_Clermont	700062	94.1	16	17
Lake CHD_Leesburg	700010	93.0	40	43
Lake CHD_Umatilla	357002	94.9	37	39
Lee CHD_Michigan Avenue	360046	98.7	154	156
Leon CHD_Roberts And Stevens	377001	100.0	26	26
Levy CHD	380034	N/A ^B	N/A ^B	N/A ^B
Liberty CHD	390003	96.4	27	28
Madison CHD	400036	N/A ^B	N/A ^B	N/A ^B
Manatee CHD_Manatee CHD	410001	84.6	33	39
Manatee CHD_Preventative Care Clinic	700226	0.0	0	1
Marion CHD_Central Pharmacy	420001	97.1	33	34
Martin CHD_Stuart Clinic	430001	N/A ^B	N/A ^B	N/A ^B
Monroe CHD_Gato	440001	76.8	53	69
Monroe CHD_Roosevelt Sands Center	none	87.7	135	154
Monroe CHD_Roth Building-Tavernier	449001	71.4	15	21
Monroe CHD_Ruth Ivins Center-Marathon	449002	78.8	52	66
Nassau CHD_Yulee	450012	N/A ^B	N/A ^B	N/A ^B
Okaloosa CHD_Crestview	469000	100.0	9	9
Okaloosa CHD_Fort Walton Beach	460001	100.0	45	45
Okeechobee CHD	470037	N/A ^B	N/A ^B	N/A ^B
Orange CHD_Bithlo	700418	100.0	4	4
Orange CHD_Central Immunizations	487003	99.3	143	144
Orange CHD_Engelwood	700420	100.0	10	10

County Health Department Immunization Clients
Coverage Levels at 24 Months of Age, January 1, 2018¹
Florida², by County and Site³

County Health Department, by Site	VFC PIN #	4:3:1:3:3:1:4 ⁴		Total Clients ⁷
		% ⁵	Complete ⁶	
Orange CHD_NCF	none	100.0	2	2
Orange CHD_Outreach Facility	700644	100.0	6	6
Orange CHD_School Health	487004	100.0	3	3
Orange CHD_Taft	700421	100.0	21	21
Osceola CHD_Imm Clinic	497001	81.2	199	245
Osceola CHD_Poinciana	499001	95.8	23	24
Osceola CHD_School Health	497003	100.0	1	1
Osceola CHD_St. Cloud	499000	100.0	2	2
Osceola CHD_Stadium Place	497002	95.5	21	22
Palm Beach CHD	509012	N/A ^B	N/A ^B	N/A ^B
Pasco CHD_Dade City	517001	96.6	28	29
Pasco CHD_NPR	519001	100.0	27	27
Pasco CHD_Zephyrhills Clinic	519004	97.6	40	41
Pinellas CHD_Clearwater Health	527002	100.0	29	29
Pinellas CHD_Midcounty Health	700069	100.0	20	20
Pinellas CHD_Pinellas Park Health	527005	100.0	8	8
Pinellas CHD_St Petersburg Health	527001	100.0	19	19
Pinellas CHD_Tarpon Springs Health	527006	100.0	16	16
Polk CHD_Auburndale	539003	93.9	62	66
Polk CHD_Haines City	700119	100.0	40	40
Polk CHD_Lake Wales	539001	93.5	29	31
Polk CHD_Lakeland	530001	89.6	155	173
Putnam CHD	540037	100.0	11	11
Santa Rosa CHD_Gulf Breeze	579002	100.0	5	5
Santa Rosa CHD_Milton Clinic	570036	100.0	24	24
Sarasota CHD_Childrens Health	589003	100.0	15	15
Sarasota CHD_Mobile Medical Unit	none	0.0	0	1
Sarasota CHD_North Port Clinic	589008	100.0	26	26
Sarasota CHD_Ringling Clinic	587001	97.1	33	34
Seminole CHD_Sanford	590051	63.6	21	33
St Johns CHD	550037	N/A ^B	N/A ^B	N/A ^B
St Lucie CHD_Port St. Lucie	569005	95.7	22	23
Sumter CHD_Bushnell	600034	100.0	6	6
Sumter CHD_Wildwood	609000	88.9	8	9
Suwannee CHD	610001	N/A ^B	N/A ^B	N/A ^B
Taylor CHD	620034	N/A ^B	N/A ^B	N/A ^B
Union CHD_Union CHD	630033	71.4	5	7
Union CHD_New River Community	none	77.8	7	9
Volusia CHD_Daytona Beach	640058	94.7	36	38
Volusia CHD_Deland	none	0.0	0	1
Volusia CHD_New Smyrna Beach	649001	100.0	6	6

County Health Department Immunization Clients
Coverage Levels at 24 Months of Age, January 1, 2018¹
Florida², by County and Site³

County Health Department, by Site	VFC PIN #	4:3:1:3:3:1:4 ⁴		Total Clients ⁷
		% ⁵	Complete ⁶	
Volusia CHD_Orange	700508	88.9	24	27
Wakulla CHD	650033	100.0	29	29
Walton CHD_Walton CHD	660001	86.0	111	129
Walton CHD_Coastal Branch	669001	85.8	121	141
Washington CHD	670033	91.7	11	12

¹Children in this cohort were 24-35 months of age on January 1, 2018.

²Data collected from the Florida State Health Online Tracking System (SHOTS) on January 2, 2018.

³Sites with no clients were removed from this report.

⁴4:3:1:3:3:1:4 = 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 (VZV), and four or more doses of pneumococcal conjugate vaccine (PCV).

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

⁶Estimated number of children who have received all vaccines necessary to complete the measure by 24 months of age.

⁷Total 2-year-old children with a county health department immunization home.

⁸County-specific data (from Florida SHOTS) excluded due to ≤ 10 "Total Clients" in their immunization home.

County Health Department Immunization Clients
Coverage Levels¹ at 24 Months of Age²
Florida³, by County, 2014–2018

County Health Department	4:3:1:3:3:1:4 ⁴				
	2014	2015	2016	2017	2018
Alachua	90	96	95	91.0	97.1
Baker	92	78	94	100.0	100.0
Bay	73	92	95	69.2	N/A ⁵
Bradford	100	N/A ⁵	N/A ⁵	N/A ⁵	94.9
Brevard	98	99	99	97.0	97.5
Broward	50	97	95	91.0	99.0
Calhoun	95	88	96	90.0	94.6
Charlotte	77	89	100	100.0	100.0
Citrus	94	98	100	88.2	86.7
Clay	88	93	95	94.2	83.3
Collier	95	96	99	94.7	99.3
Columbia	56	N/A ⁵	N/A ⁵	N/A ⁵	N/A ⁵
Dade	91	92	95	95.5	96.4
Desoto	67	80	N/A ⁵	N/A ⁵	N/A ⁵
Dixie	85	88	80	N/A ⁵	N/A ⁵
Duval	89	89	89	90.7	92.4
Escambia	97	93	81	91.7	91.3
Flagler	98	99	89	97.4	88.7
Franklin	100	97	98	98.6	100.0
Gadsden	80	97	78	62.5	64.7
Gilchrist	93	88	91	N/A ⁵	N/A ⁵
Glades	75	N/A ⁵	N/A ⁵	N/A ⁵	N/A ⁵
Gulf	91	100	94	96.2	100.0
Hamilton	82	N/A ⁵	100	N/A ⁵	N/A ⁵
Hardee	93	100	N/A ⁵	N/A ⁵	N/A ⁵
Hendry	85	97	87	93.8	93.8
Hernando	95	90	93	97.6	75.0
Highlands	100	100	100	N/A ⁵	N/A ⁵
Hillsborough	82	76	64	92.3	100.0
Holmes	81	100	N/A ⁵	N/A ⁵	N/A ⁵
Indian River	100	100	100	100.0	100.0
Jackson	82	73	83	88.5	N/A ⁵
Jefferson	88	60	N/A ⁵	N/A ⁵	N/A ⁵
Lafayette	83	N/A ⁵	N/A ⁵	N/A ⁵	N/A ⁵
Lake	94	93	95	92.3	93.9
Lee	85	70	97	93.5	98.7
Leon	95	94	98	92.6	100.0
Levy	90	92	88	N/A ⁵	N/A ⁵
Liberty	88	100	100	96.3	96.4
Madison	88	91	87	N/A ⁵	N/A ⁵
Manatee	96	97	100	100.0	82.5

County Health Department Immunization Clients
Coverage Levels¹ at 24 Months of Age²
Florida³, by County, 2014–2018

County Health Department	4:3:1:3:3:1:4 ⁴				
	2014	2015	2016	2017	2018
Marion	88	80	84	81.4	97.1
Martin	93	N/A ⁵	N/A ⁵	N/A ⁵	N/A ⁵
Monroe	91	89	94	88.3	82.3
Nassau	100	78	N/A ⁵	84.2	N/A ⁵
Okaloosa	97	98	98	90.8	100.0
Okeechobee	N/A ⁵	N/A ⁵	N/A ⁵	N/A ⁵	N/A ⁵
Orange	83	93	95	90.9	99.5
Osceola	90	92	96	82.5	83.7
Palm Beach	82	N/A ⁵	N/A ⁵	N/A ⁵	N/A ⁵
Pasco	99	96	98	99.1	97.9
Pinellas	96	99	99	99.0	100.0
Polk	89	94	93	92.8	92.3
Putnam	77	100	91	N/A ⁵	100.0
Santa Rosa	78	85	96	82.6	100.0
Sarasota	90	92	98	N/A ⁵	97.4
Seminole	98	85	100	N/A ⁵	63.6
St Johns	79	100	95	100.0	N/A ⁵
St Lucie	89	94	96	97.6	95.7
Sumter	97	98	100	92.9	93.3
Suwannee	95	95	N/A ⁵	N/A ⁵	N/A ⁵
Taylor	31	N/A ⁵	N/A ⁵	N/A ⁵	N/A ⁵
Union	N/A ⁵	N/A ⁵	82	N/A ⁵	75.0
Volusia	91	92	95	93.8	91.7
Wakulla	100	100	100	100.0	100.0
Walton	85	84	90	87.9	85.9
Washington	100	100	100	N/A ⁵	91.7
Statewide⁶	88	91	93	92.0	93.1

¹Immunization levels (unweighted) presented as point estimate (%) for the 4:3:1:3:3:1:4 measure. For years 2014–2016 the percent was rounded up.

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

³Data collected from the Florida State Health Online Tracking System (SHOTS) on January 12, 2018.

⁴4:3:1:3:3:1:4 = 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 (VZV), and four or more doses of pneumococcal conjugate vaccine (PCV).

⁵County-specific data (from Florida SHOTS) excluded due to ≤ 10 "Total Clients" in their immunization home.

⁶Adjusted 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 Age¹
 Florida², by County, 2014–2018

County Health Department	Number of Total Clients ³				
	2014	2015	2016	2017	2018
Alachua	143	122	129	122	103
Baker	52	23	17	13	16
Bay	104	49	39	13	N/A ⁴
Bradford	11	N/A ⁴	N/A ⁴	N/A ⁴	39
Brevard	164	167	209	166	163
Broward	223	107	238	245	292
Calhoun	59	51	24	50	56
Charlotte	146	83	67	63	50
Citrus	54	48	19	17	15
Clay	51	56	119	86	18
Collier	361	352	275	187	140
Columbia	18	N/A ⁴	N/A ⁴	N/A ⁴	N/A ⁴
Dade	504	418	485	199	366
Desoto	27	20	N/A ⁴	N/A ⁴	N/A ⁴
Dixie	40	33	25	N/A ⁴	N/A ⁴
Duval	1,247	1,071	793	408	383
Escambia	387	230	134	206	231
Flagler	96	88	90	77	53
Franklin	37	60	57	70	56
Gadsden	108	70	49	24	17
Gilchrist	29	33	23	N/A ⁴	N/A ⁴
Glades	12	N/A ⁴	N/A ⁴	N/A ⁴	N/A ⁴
Gulf	35	22	34	53	50
Hamilton	17	N/A ⁴	11	N/A ⁴	N/A ⁴
Hardee	61	23	N/A ⁴	N/A ⁴	N/A ⁴
Hendry	88	60	61	65	48
Hernando	78	67	58	41	44
Highlands	22	11	11	N/A ⁴	N/A ⁴
Hillsborough	415	196	152	26	53
Holmes	31	13	N/A ⁴	N/A ⁴	N/A ⁴
Indian River	249	211	163	137	114
Jackson	50	41	41	26	N/A ⁴
Jefferson	16	15	N/A ⁴	N/A ⁴	N/A ⁴
Lafayette	12	N/A ⁴	N/A ⁴	N/A ⁴	N/A ⁴
Lake	143	136	102	104	99
Lee	184	181	132	154	156
Leon	96	52	52	54	26
Levy	29	24	16	N/A ⁴	N/A ⁴
Liberty	24	20	31	27	28
Madison	68	34	15	N/A ⁴	N/A ⁴
Manatee	56	34	42	26	40

County Health Department Immunization Clients
Number of Clients 24–35 Months of Age¹
Florida², by County, 2014–2018

County Health Department	Number of Total Clients ³				
	2014	2015	2016	2017	2018
Marion	251	113	92	43	34
Martin	29	N/A ⁴	N/A ⁴	N/A ⁴	N/A ⁴
Monroe	289	293	282	299	310
Nassau	12	23	N/A ⁴	19	N/A ⁴
Okaloosa	98	190	169	76	54
Okeechobee	N/A ⁴	N/A ⁴	N/A ⁴	N/A ⁴	N/A ⁴
Orange	393	390	346	241	190
Osceola	469	421	363	343	294
Palm Beach	197	N/A ⁴	N/A ⁴	N/A ⁴	N/A ⁴
Pasco	137	99	81	115	97
Pinellas	276	122	92	102	92
Polk	679	548	423	387	310
Putnam	52	20	11	N/A ⁴	11
Santa Rosa	154	123	52	23	29
Sarasota	802	490	374	N/A ⁴	76
Seminole	164	147	51	N/A ⁴	33
St Johns	53	32	21	25	N/A ⁴
St Lucie	73	77	49	41	23
Sumter	63	53	25	14	15
Suwannee	39	22	N/A ⁴	N/A ⁴	N/A ⁴
Taylor	13	N/A ⁴	N/A ⁴	N/A ⁴	N/A ⁴
Union	N/A ⁴	N/A ⁴	17	N/A ⁴	16
Volusia	162	119	93	64	72
Wakulla	18	16	28	25	29
Walton	214	187	190	231	270
Washington	17	24	18	N/A ⁴	12
Statewide⁵	10,201	7,730	6,490	4,707	4,623

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

²Data collected from the Florida State Health Online Tracking System (SHOTS) on January 2, 2018.

³Total 2-year-old children with a county health department immunization home.

⁴County-specific data (from Florida SHOTS) excluded due to ≤10 "Total Clients" in their immunization home.

⁵Adjusted to exclude county health departments with ≤10 "Total Clients" in their immunization home.

County Health Department Immunization Clients
Coverage Levels at 12 Months of Age, January 1, 2018¹
Florida², by County

County Health Department	3:2:2:2 ³		Total Clients ⁶
	% ⁴	Complete ⁵	
Alachua	81.7	85	104
Baker	66.7	20	30
Bay	68.8	11	16
Bradford	98.1	51	52
Brevard	97.0	128	132
Broward	66.7	335	502
Calhoun	84.4	38	45
Charlotte	75.7	28	37
Citrus	52.9	9	17
Clay	85.7	30	35
Collier	84.1	95	113
Columbia	N/A ⁷	N/A ⁷	N/A ⁷
Dade	68.5	337	492
Desoto	75.0	9	12
Dixie	N/A ⁷	N/A ⁷	N/A ⁷
Duval	86.7	301	347
Escambia	88.0	234	266
Flagler	66.7	50	75
Franklin	88.0	44	50
Gadsden	45.5	5	11
Gilchrist	N/A ⁷	N/A ⁷	N/A ⁷
Glades	N/A ⁷	N/A ⁷	N/A ⁷
Gulf	89.3	50	56
Hamilton	N/A ⁷	N/A ⁷	N/A ⁷
Hardee	N/A ⁷	N/A ⁷	N/A ⁷
Hendry	86.7	26	30
Hernando	76.0	19	25
Highlands	N/A ⁷	N/A ⁷	N/A ⁷
Hillsborough	63.5	61	96
Holmes	N/A ⁷	N/A ⁷	N/A ⁷
Indian River	96.8	121	125
Jackson	N/A ⁷	N/A ⁷	N/A ⁷
Jefferson	N/A ⁷	N/A ⁷	N/A ⁷
Lafayette	N/A ⁷	N/A ⁷	N/A ⁷

County Health Department	3:2:2:2 ³		Total Clients ⁶
	% ⁴	Complete ⁵	
Lake	62.0	67	108
Lee	96.4	135	140
Leon	96.4	27	28
Levy	N/A ⁷	N/A ⁷	N/A ⁷
Liberty	81.5	22	27
Madison	N/A ⁷	N/A ⁷	N/A ⁷
Manatee	68.6	24	35
Marion	88.2	30	34
Martin	N/A ⁷	N/A ⁷	N/A ⁷
Monroe	86.4	254	294
Nassau	N/A ⁷	N/A ⁷	N/A ⁷
Okaloosa	86.3	63	73
Okeechobee	N/A ⁷	N/A ⁷	N/A ⁷
Orange	67.2	158	235
Osceola	59.6	202	339
Palm Beach	52.0	13	25
Pasco	70.1	54	77
Pinellas	98.8	80	81
Polk	62.4	217	348
Putnam	72.7	8	11
Santa Rosa	72.3	47	65
Sarasota	80.2	81	101
Seminole	63.2	24	38
St Johns	80.0	16	20
St Lucie	92.0	23	25
Sumter	N/A ⁷	N/A ⁷	N/A ⁷
Suwannee	N/A ⁷	N/A ⁷	N/A ⁷
Taylor	N/A ⁷	N/A ⁷	N/A ⁷
Union	71.9	23	32
Volusia	78.4	58	74
Wakulla	92.3	12	13
Walton	85.8	211	246
Washington	N/A ⁷	N/A ⁷	N/A ⁷
Statewide ⁸	76.6	3,936	5,137

¹ Children in this cohort were 12-23 months of age on January 1, 2018.

² Data collected from the Florida State Health Online Tracking System (SHOTS) on January 2, 2018.

³ 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.

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

⁵ Estimated number of children who have received all vaccines necessary to complete the measure by 12 months of age.

⁶ Total 1-year-old children with a county health department immunization home.

⁷ County-specific data (from Florida SHOTS) excluded due to ≤ 10 "Total Clients" in their immunization home.

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