Emerging Challenges of Serving
Ohio's Children with Special Health Care Needs

Appendix

2012 Variable List

Variable	SAS variable name in public use data		Comments
	Child version	*Adult version*	
Gender	p148_imp	s15_imp	Some values imputed by the OMAS staff.
Age	i90a_imp	s14_imp	Some values imputed by the OMAS staff.
Race/Ethnicity	race5_c_rec_imp	race5_a_rec_imp	Some values constructed by the OMAS staff.
Parent/Legal guardian's marital status	marital	marital	Used i90b_rec to limit findings to parents/legal guardians.
Parent/Legal guardian's education	educ_imp	educ_imp	Some values imputed by the OMAS staff. Used i90b_rec to limit findings to parents/legal guardians.
Medicaid Managed Care Region	MedicaidRegion	MedicaidRegion	
Family income (% of the FPL)	h87_imp	h87_imp	Derived variable constructed by the OMAS staff.
Health insurance	i_type_c_imp	i_type_a_imp	Derived variable constructed by the OMAS staff.
Medicaid vs. non-Medicaid	medicd_c_imp	medicd_a_imp	Some variables imputed by OMAS. Used for analyses comparing CSHCN with Medicaid.
Medical home	mhlevel_c	mhlevel_a	Derived variable constructed by the OMAS staff; see text for description.
Usual source of care	usual_c	usual_a	
Level of complexity of need	*[not available]*	*[not available]*	Variable was constructed from L126a through L126n; see text for description.
Currently has diabetes	LAS5	D43	
Currently has asthma	LAS1b	*[not available]*	Variable was recoded to include skip pattern from LAS1a.
Has unmet dental needs	O139	f68	
Has unmet prescription needs	O140	f68b	
Has other unmet needs	O141	*[not used]*	
Care is harder to get compared to three years ago	O144	f69	

2012 Variable List

Variable	SAS variable name in public use data		Comments
	Child version	*Adult version*	
Received enough help coordinating child health care	J108b	*[not available]*	Derived variable constructed by the OMAS staff.
Number of emergency room visits in past year	M134	E62	
Any well-child visit/check-up in past year	M130	E59Adays	
Any hospital stay in past year	M132	E60	
Any dental visit in past year	M135days	E63days	
General health status	L125_imp	d30_imp	Some values imputed by the OMAS staff.
Vision health status	LAS13	d30a2	
Dental health status	LAS14	d30a1	
Special health care needs status	shcn_c	shcn_a	Derived variable was constructed by the OMAS staff using multiple variables; see text for description.
Small or big problem to see specialist	K4Q26	*[not used]*	Variables were recoded to include skip patterns from K4Q24 and K4Q25.
County type	region	region	

NOTES: Additional information about the imputed or constructed variables can be found elsewhere. For the comparison analysis, variable names in 2008 may differ from variable names in 2012. Variable names/categories in the national dataset (NS-CSHCN) may also differ.

Guide to Tables

(a) "Unweighted N" refers to how many cases are in the sample.

(b) "Weighted N" refers to the estimated number of people in Ohio with this characteristic.

(c) "Weighted Distribution" refers to the estimate of the percent (%) of CSHCN (or YASHCN) who have this characteristic. The denominator includes individuals who have missing or incomplete data on the CSHCN status.

(d) "Weighted Prevalence" refers to the percent (%) of all children with this characteristic who are CSHCN (or YASHCN). The denominator includes people with missing or incomplete data.

(e) Examples of "Other" health insurance includes Medicare and privately purchased plans.

Abbreviations

AOR = adjusted odds ratio

CI = confidence interval

CSHCN = children with special health care needs

df = degrees of freedom

FPL = federal poverty level

GED = General Educational Development

NS-CSHCN = National Survey - Children with Special Health Care Needs

OFHS = Ohio Family Health Survey

OMAS = Ohio Medicaid Assessment Survey

PCMH = patient-centered medical home

SHCN = special health care needs

YASHCN = young adults (19-25 years old) with special health care needs

Table A1.1 Comparison of children with special health care needs vs. children without special health care needs (ages 0-18 years old)

	Children with special health care needs (CSHCN)							Children without SHCN			Statistical testing		
	Unweighted N[a]	Weighted N[b]		Weighted Distribution[c]		Weighted Prevalence[d]		Unweighted N[a]	Weighted Distribution[c]		Rao Scott χ² value	df	P-value
		estimate	90% CI	%	std error	%	std error		%	std error			
TOTAL	1,302	669,777	(637,018 - 702,535)	100.0%	0.73	23.10		3,926	100.0%	0.73			
Demographic characteristics													
Gender													
Male	748	385,095	(366,379 - 403,811)	57.50	1.70	25.99	1.01	2,029	49.44	0.98	16.67	1	<0.01*
Female	554	284,682	(265,966 - 303,398)	42.50	1.70	20.09	0.95	1,897	50.56	0.98			
Age													
0-2	57	39,326	(29,552 - 49,099)	5.87	0.89	9.38	1.39	572	17.35	0.77			
3-5	130	86,908	(73,275 - 100,542)	12.98	1.24	19.41	1.79	550	16.26	0.75	77.17	3	<0.01*
6-12	491	274,607	(255,900 - 293,314)	41.00	1.70	25.75	1.21	1,287	35.42	0.94			
13-18	624	268,936	(250,756 - 287,115)	40.15	1.65	27.85	1.19	1,517	30.97	0.86			
Race/Ethnicity													
White	900	503,678	(487,942 - 519,415)	75.20	1.43	23.35	0.82	2,814	74.73	0.81			
African-American	219	114,919	(101,211 - 128,627)	17.16	1.24	25.60	1.79	518	14.43	0.67			
Hispanic	106	28,897	(22,505 - 35,289)	4.31	0.58	20.28	2.47	350	5.05	0.35	17.67	4	<0.01*
Asian	24	17,800	(10,672 - 24,928)	2.66	0.65	13.07	3.04	132	5.34	0.47			
Other	53	4,483	(3,029 - 5,937)	0.67	0.13	31.02	4.91	112	0.45	0.05			
Parent/Legal guardian's marital status													
Married	653	319,944	(303,034 - 336,853)	58.01	1.86	19.61	0.85	2,434	70.66	0.97			
Divorced/Separated	215	115,261	(101,220 - 129,302)	20.90	1.55	34.46	2.32	405	11.35	0.66	51.73	3	<0.01*
Widowed	20	5,751	(3,126 - 8,376)	1.04	0.29	20.30	5.25	48	1.06	0.19			
Single	195	110,464	(96,349 - 124,580)	20.03	1.56	26.12	1.99	481	16.76	0.83			
Parent/Legal guardian's education													
< High school	91	52,562	(41,484 - 63,640)	9.53	1.22	27.74	3.20	225	7.22	0.59			
High school graduate or GED	276	151,983	(136,406 - 167,560)	27.56	1.72	23.17	1.50	864	26.49	0.94			
Some college	198	104,251	(90,686 - 117,815)	18.90	1.49	26.92	2.04	476	15.10	0.77	24.91	4	<0.01*
Associates degree	154	76,752	(65,049 - 88,455)	13.92	1.29	26.55	2.24	425	11.53	0.64			
≥ Four-year college degree	365	165,989	(151,033 - 180,945)	30.10	1.65	18.47	1.07	1,387	39.67	1.00			

*NOTE : Weighted distribution percentages may not total 100%
because of missing or incomplete data.*
*Indicates a significant result (p<0.01)

Table A1.1 Comparison of children with special health care needs vs. children without special health care needs (ages 0-18 years old)

| | Children with special health care needs (CSHCN) | | | | | | | Children without SHCN | | | Statistical testing | | |
	Unweighted N[a]	Weighted N[b] estimate	Weighted N[b] 90% CI	Weighted Distribution[c] %	Weighted Distribution[c] std error	Weighted Prevalence[d] %	Weighted Prevalence[d] std error	Unweighted N[a]	Weighted Distribution[c] %	Weighted Distribution[c] std error	Rao Scott χ^2 value	df	P-value
Enabling characteristics													
Medicaid Managed Care Region													
Northwest	137	61,431	(51,439 - 71,423)	9.17	0.91	18.29	1.78	518	12.55	0.55			
Northeast	174	111,132	(97,313 - 124,952)	16.59	1.25	22.57	1.76	518	16.97	0.67			
Northeast Central	113	36,078	(29,134 - 43,021)	5.39	0.63	26.78	2.80	297	4.43	0.30			
East Central	194	85,147	(73,649 - 96,646)	12.71	1.04	23.66	1.87	549	12.38	0.56	14.16	7	0.05
Central	215	144,021	(128,397 - 159,645)	21.50	1.42	22.79	1.60	647	21.66	0.77			
West Central	164	82,638	(70,847 - 94,429)	12.34	1.07	25.42	2.08	469	10.95	0.53			
Southwest	189	104,186	(90,928 - 117,445)	15.56	1.20	22.46	1.73	615	16.18	0.65			
Southeast	116	45,144	(36,970 - 53,318)	6.74	0.74	29.06	2.84	313	4.87	0.30			
Household income (% of the FPL)													
≤ 100%	399	251,939	(233,080 - 270,799)	37.62	1.71	29.65	1.50	863	25.79	0.90			
101-138%	142	69,560	(58,216 - 80,904)	10.39	1.03	24.60	2.27	341	9.55	0.60			
139-200%	164	83,565	(71,371 - 95,758)	12.48	1.11	25.01	2.06	426	11.31	0.62	60.04	4	<0.01*
201-300%	181	86,825	(74,491 - 99,160)	12.96	1.12	20.45	1.68	640	15.37	0.68			
> 300%	416	177,888	(162,094 - 193,681)	26.56	1.43	17.65	0.98	1,656	37.97	0.92			
Health insurance													
Uninsured	41	16,478	(11,219 - 21,738)	2.46	0.48	11.78	2.19	239	5.22	0.42			
Medicaid	631	388,232	(370,120 - 406,343)	57.96	1.64	32.47	1.29	1,098	35.69	0.97	154.69	3	<0.01*
Employer-sponsored insurance	533	224,245	(207,319 - 241,171)	33.48	1.54	16.68	0.82	2,274	52.09	0.98			
Other[e]	97	40,823	(32,593 - 49,052)	6.10	0.75	18.61	2.12	315	6.99	0.47			
Has care consistent with a medical home													
No	780	396,122	(377,479 - 414,765)	59.14	1.69	24.13	1.18	2,378	58.86	0.97			
Yes	478	242,670	(224,544 - 260,796)	36.23	1.65	23.86	0.93	1,408	36.85	0.95	0.70	2	0.71
Has usual source of care, but PCMH information incomplete	23	16,050	(9,609 - 22,492)	2.40	0.58	26.96	5.61	63	1.90	0.28			
Does not have usual source of care	11	2,891	(943 - 4,840)	0.43	0.18	8.18	3.25	73	1.57	0.22	10.28	1	<0.01*
Has a usual source of care	1,268	650,599	(643,912 - 657,286)	97.14	0.61	24.30	0.73	3,771	95.97	0.38			

NOTE : Weighted distribution percentages may not total 100%
because of missing or incomplete data.
*Indicates a significant result (p<0.01)   *for footnotes (a) through (e) please see p. A4*   A6

Table A1.1 Comparison of children with special health care needs vs. children without special health care needs (ages 0-18 years old)

	Children with special health care needs (CSHCN)							Children without SHCN			Statistical testing		
	Unweighted N[a]	Weighted N[b]		Weighted Distribution[c]		Weighted Prevalence[d]		Unweighted N[a]	Weighted Distribution[c]		Rao Scott χ² value	df	P-value
		estimate	90% CI	%	std error	%	std error		%	std error			
Need													
Level of complexity of need													
Has functional limitations	358	189,869	(172,624 - 207,112)	28.35	1.57	--	--	--	--	--			
No functional limitations, but…													
needs prescriptions (Rx)	382	184,453	(167,739 - 201,168)	27.54	1.52	--	--	--	--	--	--	--	--
needs services	168	83,017	(70,948 - 95,085)	12.39	1.10	--	--	--	--	--			
needs both Rx and services	373	198,398	(181,057 - 215,739)	29.62	1.57	--	--	--	--	--			
Does not have diabetes	1,261	644,962	(637,456 - 652,468)	96.30	0.68	23.48	0.71	3,902	99.31	0.17	60.89	1	<0.01*
Currently has diabetes	32	18,859	(12,297 - 25,420)	2.82	0.60	83.62	6.58	6	0.18	0.08			
Does not have asthma	898	465,346	(447,898 - 482,795)	69.48	1.58	18.85	0.70	3,748	94.89	0.45	408.65	1	<0.01*
Currently has asthma	390	194,966	(177,826 - 212,106)	29.11	1.56	67.43	2.50	149	4.30	0.41			
Unmet needs													
No unmet dental needs among children ages 3 or older	1,108	559,361	(547,648 - 571,073)	88.72	1.13	25.96	0.83	3,080	91.35	0.62	20.64	1	<0.01*
Has unmet dental needs among children ages 3 or older	105	52,006	(42,033 - 61,978)	8.25	0.96	41.67	3.88	141	4.01	0.42			
No unmet prescription needs	1,183	602,228	(590,412 - 614,045)	89.91	1.07	23.13	0.73	3,747	94.64	0.46	50.00	1	<0.01*
Has unmet prescription needs	91	48,532	(38,590 - 58,474)	7.25	0.90	52.92	4.77	73	2.06	0.29			
No other unmet needs	1,162	590,184	(577,616 - 602,752)	88.12	1.14	22.80	0.73	3,719	94.51	0.46	82.77	1	<0.01*
Has other unmet needs	110	60,321	(49,437 - 71,207)	9.01	0.99	56.14	4.18	100	2.18	0.27			
Care is harder to get compared to three years ago among children ages 3 or older													
Yes	191	92,847	(79,976 - 105,718)	14.73	1.24	35.07	2.56	362	9.91	0.62			
No	130	72,574	(60,495 - 84,653)	11.51	1.16	37.49	3.17	221	6.80	0.54	32.91	2	<0.01*
About the same	883	439,729	(422,702 - 456,755)	69.75	1.64	24.41	0.88	2,608	77.93	0.88			
Received enough help coordinating child's health care			*Only a subset of parents of children who needed help coordinating care were asked about care coordination.*										
Always	182	100,965	(91,281 - 110,648)	54.70	3.19	--	--	--	--	--			
Usually	82	45,671	(37,386 - 53,956)	24.74	2.73	--	--	--	--	--			
Sometimes	46	23,345	(17,071 - 29,619)	12.65	2.06	--	--	--	--	--	--	--	--
Rarely	22	9,302	(5,316 - 13,288)	5.04	1.31	--	--	--	--	--			
Never	10	5,150	(2,733 - 7,568)	2.79	0.80	--	--	--	--	--			

NOTE : Weighted distribution percentages may not total 100% because of missing or incomplete data.
*Indicates a significant result (p<0.01)

Table A1.1 Comparison of children with special health care needs vs. children without special health care needs (ages 0-18 years old)

	Children with special health care needs (CSHCN)							Children without SHCN			Statistical testing		
	Unweighted N[a]	Weighted N[b]		Weighted Distribution[c]		Weighted Prevalence[d]		Unweighted N[a]	Weighted Distribution[c]		Rao Scott χ² value	df	P-value
		estimate	90% CI	%	std error	%	std error		%	std error			
Health care utilization													
Number of emergency room visits in past year													
0	887	439,534	(421,294 - 457,774)	65.62	1.66	20.18	0.75	3,278	82.53	0.75			
1 or 2	307	164,844	(148,305 - 181,384)	24.61	1.50	35.36	2.01	534	14.16	0.69	135.02	2	<0.01*
≥ 3	90	53,668	(42,753 - 64,583)	8.01	0.99	57.43	4.80	60	1.74	0.26			
Any well-child visit/check-up in past year													
No	238	116,719	(102,443 - 130,995)	17.43	1.30	23.89	1.69	752	17.67	0.73	0.04	1	0.84
Yes	1,037	536,624	(521,525 - 551,724)	80.12	1.37	24.20	0.81	3,082	79.62	0.77			
Any hospital stay in past year													
No	1,137	578,264	(565,108 - 591,420)	86.34	1.19	22.56	0.73	3,713	93.97	0.48	61.19	1	<0.01*
Yes	151	81,565	(69,165 - 93,965)	12.18	1.13	45.22	3.33	163	4.53	0.41			
Any dental visit in past year													
No	125	66,390	(54,903 - 77,876)	9.91	1.04	23.49	2.27	379	9.76	0.58	0.99	1	0.32
Yes	1,100	550,830	(535,697 - 565,963)	82.24	1.37	26.94	0.86	2,895	70.82	0.90			
Health status													
General health status													
Fair/Poor	141	77,716	(65,287 - 90,145)	11.60	1.13	76.87	3.78	41	0.90	0.18	215.37	1	<0.01*
Excellent/Very good/Good	1,161	592,061	(579,632 - 604,490)	88.40	1.13	21.16	0.68	3,885	99.10	0.18			
Vision health status among children ages 5 or older													
Fair/Poor	98	50,628	(40,858 - 60,398)	8.93	1.05	52.76	4.47	87	2.88	0.38	44.29	1	<0.01*
Excellent/Very good/Good	1,045	512,055	(501,971 - 522,140)	90.33	1.08	25.76	0.85	2,855	95.42	0.48			
Dental health status among children ages 3 or older													
Fair/Poor	158	87,864	(74,954 - 100,774)	13.94	1.24	49.33	3.32	181	4.85	0.45	71.43	1	<0.01*
Excellent/Very good/Good	1,080	539,363	(526,277 - 552,449)	85.55	1.26	24.56	0.80	3,124	93.66	0.51			

NOTE : Weighted distribution percentages may not total 100% because of missing or incomplete data.
*Indicates a significant result (p<0.01)

for footnotes (a) through (e) please see p. A4

Table A1.2 Comparison of young adults with special health care needs vs. young adults without special health care needs (ages 19-25 years old)

	Unweighted N[a]	Weighted N[b] estimate	Weighted N[b] 90% CI	Weighted Distribution[c] %	Weighted Distribution[c] std error	Weighted Prevalence[d] %	Weighted Prevalence[d] std error	Unweighted N[a]	Weighted Distribution[c] %	Weighted Distribution[c] std error	Rao Scott χ^2 value	df	P-value
TOTAL	143	124,464	(105,804 - 143,123)	100.0%	1.06	11.65%		941	100.0%	1.06			
Demographic characteristics													
Gender													
Male	49	48,700	(38,960 - 58,440)	39.13	4.76	8.62	1.31	453	54.64	1.80	8.97	1	<0.01*
Female	94	75,764	(66,024 - 85,504)	60.87	4.76	15.00	1.68	488	45.36	1.80			
Race/Ethnicity													
White	101	99,776	(92,242 - 107,310)	80.16	3.68	12.12	1.25	638	76.70	1.49			
African-American	22	18,378	(11,586 - 25,169)	14.77	3.32	12.04	2.74	145	14.22	1.23			
Hispanic	9	5,751	(1,932 - 9,570)	4.62	1.87	12.04	4.64	71	4.45	0.66	--	--	--
Asian	0	*unreliable estimate*						36	4.34	0.76			
Other	11	559	(250 - 869)	0.45	0.15	11.49	3.53	51	0.29	0.05			
Marital status													
Married	17	14,122	(8,151 - 20,092)	11.35	2.92	13.18	3.34	105	9.86	1.03			
Divorced/Separated	9	11,707	(5,531 - 17,882)	9.41	3.02	33.09	9.04	27	2.51	0.56	--	--	--
Widowed	1	*unreliable estimate*						4	*unreliable estimate*				
Single	110	97,675	(89,563 - 105,787)	78.48	3.96	10.64	1.10	773	86.90	1.17			
Education													
< High school	14	17,431	(10,090 - 24,772)	14.00	3.59	18.41	4.66	70	8.15	1.05			
High school graduate or GED	78	60,633	(50,765 - 70,500)	48.72	4.82	12.87	1.63	404	43.45	1.81			
Some college	25	26,774	(18,362 - 35,186)	21.51	4.11	10.10	2.09	221	25.20	1.59	8.65	4	0.07
Associates degree	13	10,108	(4,889 - 15,328)	8.12	2.55	11.92	3.70	71	7.91	1.00			
≥ Four-year college degree	13	9,518	(4,751 - 14,285)	7.65	2.33	6.18	1.88	175	15.29	1.22			

*NOTE : Weighted distribution percentages may not total 100%
because of missing or incomplete data.*
*Indicates a significant result (p<0.01)   *for footnotes (a) through (e) please see p. A4*

Table A1.2 **Comparison of young adults with special health care needs vs. young adults without special health care needs (ages 19-25 years old)**

	Young adults with special health care needs (YASHCN)							Young adults without SHCN			Statistical testing		
	Unweighted N[a]	Weighted N[b]		Weighted Distribution[c]		Weighted Prevalence[d]		Unweighted N[a]	Weighted Distribution[c]		Rao Scott χ^2 value	df	P-value
		estimate	90% CI	%	std error	%	std error		%	std error			
Enabling characteristics													
Medicaid Managed Care Region													
Northwest	18	13,998	(7,898 - 20,099)	11.25	2.98	10.61	2.83	124	12.47	1.19			
Northeast	22	19,402	(12,275 - 26,530)	15.59	3.48	13.61	3.10	116	13.05	1.24			
Northeast Central	9	2,877	(1,049 - 4,705)	2.31	0.89	5.03	1.95	67	5.74	0.79			
East Central	16	10,111	(4,992 - 15,230)	8.12	2.50	8.32	2.56	114	11.79	1.15	6.84	7	0.45
Central	24	26,974	(18,451 - 35,497)	21.67	4.16	11.58	2.41	176	21.78	1.55			
West Central	16	15,840	(9,167 - 22,512)	12.73	3.26	14.22	3.62	104	10.10	1.07			
Southwest	25	25,122	(17,106 - 33,138)	20.18	3.92	11.68	2.40	174	20.12	1.48			
Southeast	13	10,140	(4,964 - 15,316)	8.15	2.53	17.76	5.17	66	4.96	0.71			
Household income (% of the FPL)													
≤ 100%	67	62,084	(52,202 - 71,967)	49.88	4.83	17.14	2.14	321	31.76	1.68			
101-138%	23	17,904	(10,923 - 24,886)	14.38	3.41	14.33	3.43	101	11.32	1.17			
139-200%	14	10,108	(5,046 - 15,170)	8.12	2.47	9.56	2.90	96	10.10	1.10	19.06	4	<0.01*
201-300%	17	14,365	(8,059 - 20,671)	11.54	3.08	9.10	2.47	143	15.18	1.30			
> 301%	22	20,002	(12,620 - 27,384)	16.07	3.61	6.27	1.50	280	31.64	1.71			
Health insurance													
Uninsured	27	28,020	(19,562 - 36,479)	22.51	4.13	12.45	2.46	197	20.86	1.49			
Medicaid	60	41,222	(32,243 - 50,201)	33.12	4.39	21.05	2.94	195	16.35	1.28	21.13	3	<0.01*
Employer-sponsored insurance	33	30,037	(21,590 - 38,484)	24.13	4.13	7.18	1.36	362	41.12	1.80			
Other[e]	23	25,185	(16,823 - 33,548)	20.23	4.08	10.92	2.36	187	21.66	1.52			
Has care consistent with a medical home													
No	106	90,717	(81,799 - 99,637)	72.89	4.36	10.51	1.12	767	81.87	1.41			
Yes	21	19,440	(12,199 - 26,681)	15.62	3.54	13.58	3.13	119	13.11	1.23	11.48	2	<0.01*
Has usual source of care, but PCMH information incomplete	15	14,248	(7,722 - 20,773)	11.45	3.19	27.38	6.95	34	4.01	0.72			
Does not have usual source of care	17	16,908	(9,984 - 23,832)	13.58	3.38	9.79	2.51	145	16.51	1.36	0.60	1	0.44
Has a usual source of care	123	106,758	(99,767 - 113,748)	85.77	3.41	12.08	1.18	773	82.32	1.40			

NOTE : Weighted distribution percentages may not total 100% because of missing or incomplete data.
*Indicates a significant result (p<0.01)

for footnotes (a) through (e) please see p. A4

A10

Table A1.2 **Comparison of young adults with special health care needs vs. young adults without special health care needs (ages 19-25 years old)**

	Young adults with special health care needs (YASHCN)							Young adults without SHCN			Statistical testing		
	Unweighted N[a]	Weighted N[b]		Weighted Distribution[c]		Weighted Prevalence[d]		Unweighted N[a]	Weighted Distribution[c]		Rao Scott χ^2 value	df	P-value
		estimate	90% CI	%	std error	%	std error		%	std error			
Need													
Level of complexity of need													
Has functional limitations	48	40,747	(31,499 - 49,996)	32.74	4.52	--		--	--	--	--	--	--
No functional limitations, but…													
needs services	94	82,314	(72,969 - 91,660)	66.13	4.56	--		--	--	--			
Does not have diabetes	130	113,984	(108,693 - 119,275)	91.58	2.58	11.04	1.06	912	97.30	0.58	5.87	1	0.02
Currently has diabetes	10	8,559	(3,772 - 13,345)	6.88	2.34	25.19	7.80	27	2.69	0.58			
Unmet needs													
No unmet dental needs	99	84,427	(75,124 - 93,730)	67.83	4.54	9.57	1.06	774	84.54	1.30	19.65	1	<0.01*
Has unmet dental needs	41	39,878	(30,575 - 49,181)	32.04	4.54	22.31	3.42	142	14.72	1.28			
No unmet prescription needs	94	77,443	(67,774 - 87,113)	62.22	4.72	8.74	1.01	789	85.65	1.27	38.22	1	<0.01*
Has unmet prescription needs	46	46,862	(37,192 - 56,532)	37.65	4.72	26.64	3.69	129	13.67	1.25			
Care is harder to get compared to three years ago among children ages 3 or older													
Yes	47	38,987	(29,953 - 48,022)	31.32	4.41	17.37	2.68	181	19.65	1.45			
No	24	21,473	(13,810 - 29,137)	17.25	3.74	15.75	3.47	114	12.17	1.18	10.30	2	0.01*
About the same	68	63,780	(53,902 - 73,657)	51.24	4.82	9.43	1.22	602	64.93	1.74			

NOTE : Weighted distribution percentages may not total 100% because of missing or incomplete data.
*Indicates a significant result (p<0.01)

for footnotes (a) through (e) please see p. A4

Table A1.2 Comparison of young adults with special health care needs vs. young adults without special health care needs (ages 19-25 years old)

	Young adults with special health care needs (YASHCN)							Young adults without SHCN			Statistical testing		
	Unweighted N[a]	Weighted N[b]		Weighted Distribution[c]		Weighted Prevalence[d]		Unweighted N[a]	Weighted Distribution[c]		Rao Scott χ^2 value	df	P-value
		estimate	90% CI	%	std error	%	std error		%	std error			
Health care utilization													
Number of emergency room visits in past year													
0	69	61,257	(51,369 - 71,145)	49.22	4.83	8.28	1.11	664	71.94	1.63			
1 or 2	44	40,205	(30,939 - 49,471)	32.30	4.53	16.77	2.63	198	21.14	1.49	26.92	2	<0.01*
≥ 3	26	21,641	(14,419 - 28,863)	17.39	3.53	25.96	5.02	64	6.54	0.88			
Saw a doctor or other health care provider in past year													
No	45	42,038	(32,642 - 51,435)	33.78	4.59	11.10	1.77	320	35.67	1.75	0.09	1	0.77
Yes	89	73,579	(63,805 - 83,353)	59.12	4.77	11.77	1.38	557	58.45	1.80			
Any hospital stay in past year													
No	96	88,939	(80,232 - 97,646)	71.46	4.25	9.80	1.08	806	86.76	1.22	17.16	1	<0.01*
Yes	44	34,482	(25,832 - 43,132)	27.70	4.23	22.04	3.49	122	12.93	1.21			
Any dental visit in past year													
No	46	45,892	(36,308 - 55,475)	36.87	4.68	15.14	2.25	244	27.27	1.63	3.72	1	0.05
Yes	93	76,987	(67,347 - 86,628)	61.85	4.71	10.51	1.22	654	69.49	1.68			
Health status													
General health status													
Fair/Poor	52	39,732	(30,803 - 48,662)	31.92	4.36	34.99	4.68	81	7.80	0.97	58.64	1	<0.01*
Excellent/Very good/Good	91	84,731	(75,802 - 93,661)	68.08	4.36	8.86	1.02	860	92.20	0.97			
Vision health status													
Fair/Poor	35	33,854	(24,878 - 42,830)	27.20	4.38	26.88	4.41	90	9.75	1.09	26.42	1	<0.01*
Excellent/Very good/Good	108	90,610	(81,634 - 99,586)	72.80	4.38	9.62	1.03	851	90.25	1.09			
Dental health status													
Fair/Poor	52	46,469	(36,874 - 56,065)	37.34	4.69	27.37	3.75	128	13.07	1.23	40.76	1	<0.01*
Excellent/Very good/Good	91	77,994	(68,399 - 87,590)	62.66	4.69	8.68	1.01	813	86.93	1.23			

NOTE : Weighted distribution percentages may not total 100%
because of missing or incomplete data.
*Indicates a significant result (p<0.01)   *for footnotes (a) through (e) please see p. A4*

Table A1.3 Comparison of children with special health care needs with Medicaid vs. without Medicaid (ages 0-18 years old)

	Unweighted N[a]	Weighted N[b] estimate	Weighted N[b] 90% CI	Weighted Distribution[c] %	Weighted Distribution[c] std error	Weighted Prevalence[d] %	Weighted Prevalence[d] std error	Unweighted N[a]	Weighted Distribution[c] %	Weighted Distribution[c] std error	Rao Scott χ² value	df	P-value
	CSHCN with Medicaid							**CSHCN without Medicaid**			**Statistical testing**		
TOTAL	631	388,232	(370,440 - 406,024)	100.0%	1.61	57.96		671	100.0%	1.61			
Demographic characteristics													
Gender													
Male	362	218,195	(203,195 - 233,196)	56.20	2.35	56.66	2.16	386	59.28	2.34	0.86	1	0.35
Female	269	170,036	(155,036 - 185,037)	43.80	2.35	59.73	2.46	285	40.72	2.34			
Age													
0-2	37	28,897	(20,352 - 37,442)	7.44	1.34	73.48	6.57	20	3.70	1.02			
3-5	78	55,410	(44,279 - 66,541)	14.27	1.74	63.76	4.90	52	11.19	1.71	14.23	3	<0.01*
6-12	258	167,326	(152,009 - 182,643)	43.10	2.40	60.93	2.54	233	38.10	2.32			
13-18	258	136,599	(122,192 - 151,006)	35.18	2.25	50.79	2.50	366	47.00	2.35			
Race/Ethnicity													
White	378	268,743	(255,613 - 281,874)	69.22	2.05	53.36	1.93	522	83.44	1.68			
African-American	153	90,757	(78,713 - 102,802)	23.38	1.88	78.97	2.88	66	8.58	1.19			
Hispanic	63	21,775	(15,850 - 27,700)	5.61	0.93	75.35	4.80	43	2.53	0.48	--	--	--
Asian	4	*unreliable estimate*						20	5.01	1.20			
Other	33	3,251	(1,934 - 4,568)	0.84	0.21	72.52	7.76	20	0.44	0.13			
Parent/Legal guardian's marital status													
Married	175	112,415	(99,593 - 125,238)	38.16	2.64	35.14	2.38	478	80.76	1.82			
Divorced/Separated	137	85,508	(73,494 - 97,522)	29.03	2.48	74.19	3.23	78	11.58	1.49	185.18	3	<0.01*
Widowed	7	2,370	(504 - 4,237)	0.80	0.38	41.21	14.12	13	1.32	0.44			
Single	155	94,269	(81,986 - 106,551)	32.00	2.53	85.34	2.59	40	6.30	1.12			
Parent/Legal guardian's education													
< High school	72	46,801	(36,458 - 57,144)	15.89	2.13	89.04	3.20	19	2.24	0.65			
High school graduate or GED	155	104,139	(91,139 - 117,140)	35.35	2.68	68.52	3.19	121	18.62	1.89			
Some college	113	68,509	(57,336 - 79,683)	23.26	2.30	65.72	3.96	85	13.91	1.76	211.48	4	<0.01*
Associates degree	73	46,613	(37,018 - 56,209)	15.82	1.98	60.73	4.59	81	11.73	1.52			
≥ Four-year college degree	61	28,499	(21,651 - 35,347)	9.68	1.41	17.17	2.34	304	53.50	2.47			

NOTE : Weighted distribution percentages may not total 100% because of missing or incomplete data.
*Indicates a significant result (p<0.01)

for footnotes (a) through (e) please see p. A4

A13

Table A1.3 Comparison of children with special health care needs with Medicaid vs. without Medicaid (ages 0-18 years old)

	CSHCN with Medicaid							**CSHCN without Medicaid**			**Statistical testing**		
	Unweighted N[a]	Weighted N[b]		Weighted Distribution[c]		Weighted Prevalence[d]		Unweighted N[a]	Weighted Distribution[c]		Rao Scott χ^2 value	df	P-value
		estimate	90% CI	%	std error	%	std error		%	std error			
Enabling characteristics													
Medicaid Managed Care Region													
Northwest	64	36,463	(29,471 - 43,456)	9.39	1.09	59.36	4.65	73	8.87	1.15			
Northeast	82	58,510	(48,501 - 68,519)	15.07	1.57	52.65	4.41	92	18.69	1.80			
Northeast Central	63	25,295	(19,254 - 31,337)	6.52	0.95	70.11	4.90	50	3.83	0.61			
East Central	95	52,526	(43,170 - 61,883)	13.53	1.46	61.69	4.17	99	11.59	1.27	18.80	7	0.01*
Central	100	78,255	(66,792 - 89,718)	20.16	1.79	54.34	3.85	115	23.36	1.97			
West Central	75	47,935	(38,524 - 57,347)	12.35	1.47	58.01	4.46	89	12.33	1.35			
Southwest	81	54,980	(45,041 - 64,919)	14.16	1.56	52.77	4.23	108	17.48	1.68			
Southeast	71	34,267	(27,530 - 41,003)	8.83	1.05	75.91	4.09	45	3.86	0.07			
Household income (% of the FPL)													
≤ 100%	354	231,738	(216,937 - 246,539)	59.69	2.32	91.98	1.43	45	7.18	1.26			
101-138%	98	52,366	(42,221 - 62,510)	13.49	1.59	75.28	4.19	44	6.11	1.11			
139-200%	83	47,097	(37,608 - 56,586)	12.13	1.48	56.40	4.54	81	12.95	1.60	390.23	4	<0.01*
201-300%	52	32,403	(23,828 - 40,978)	8.35	1.34	37.32	4.68	129	19.33	1.88			
> 300%	44	24,628	(17,503 - 31,753)	6.34	1.12	13.84	2.28	372	54.44	2.37			
Has care consistent with a medical home													
No	392	243,053	(228,302 - 257,805)	62.61	2.31	51.76	2.02	388	54.37	2.38			
Yes	214	125,610	(111,445 - 139,776)	32.35	2.22	61.36	2.79	264	41.58	2.38	6.91	2	0.03
Has usual source of care, but PCMH information incomplete	10	8,278	(3,323 - 13,232)	2.13	0.78	51.58	12.35	13	2.76	0.89			
Does not have usual source of care	5	*unreliable estimate*						6	0.35	0.17	0.21	1	0.64
Has a usual source of care	610	373,824	(367,814 - 379,835)	96.29	0.94	57.46	1.63	658	98.31	0.62			

NOTE : Weighted distribution percentages may not total 100% because of missing or incomplete data.
*Indicates a significant result (p<0.01)

for footnotes (a) through (e) please see p. A4

Table A1.3 Comparison of children with special health care needs with Medicaid vs. without Medicaid (ages 0-18 years old)

	CSHCN with Medicaid							CSHCN without Medicaid			Statistical testing		
	Unweighted N[a]	Weighted N[b]		Weighted Distribution[c]		Weighted Prevalence[d]		Unweighted N[a]	Weighted Distribution[c]		Rao Scott χ² value	df	P-value
		estimate	90% CI	%	std error	%	std error		%	std error			
Need													
Level of complexity of need													
Has functional limitations	213	124,586	(110,321 - 138,851)	32.09	2.23	65.62	2.95	145	23.19	2.04			
No functional limitations, but…													
needs prescriptions (Rx)	152	93,503	(80,494 - 106,511)	24.08	2.04	50.69	3.15	230	32.30	2.22	11.91	3	0.01*
needs services	80	45,912	(36,417 - 55,407)	11.83	1.49	55.30	4.62	88	13.18	1.63			
needs both Rx and services	171	113,072	(99,028 - 127,117)	29.12	2.20	56.99	3.05	202	30.31	2.18			
Does not have diabetes	607	370,252	(363,509 - 376,996)	95.37	1.06	57.41	1.65	654	97.57	0.72	1.06	1	0.30
Currently has diabetes	17	12,776	(7,039 - 18,512)	3.29	0.90	67.74	9.36	15	2.16	0.70			
Does not have asthma	396	252,775	(238,367 - 267,184)	65.11	2.25	54.32	1.99	502	75.50	2.03	8.41	1	<0.01*
Currently has asthma	223	126,248	(112,168 - 140,328)	32.52	2.20	64.75	2.86	167	24.41	2.03			
Unmet needs													
No unmet dental needs among children ages 3 or older	513	310,674	(300,572 - 320,776)	86.46	1.71	55.54	1.78	595	91.73	1.31	1.74	1	0.19
Has unmet dental needs among childrens ages 3 or older	58	33,057	(24,691 - 41,423)	9.20	1.41	63.56	5.62	47	6.99	1.22			
No unmet prescription needs	570	344,053	(333,890 - 354,216)	88.62	1.59	57.13	1.71	613	91.70	1.27	0.04	1	0.84
Has unmet prescription needs	41	28,351	(20,085 - 36,618)	7.30	1.29	58.42	6.11	50	7.17	1.19			
No other unmet needs	558	337,520	(326,866 - 348,176)	86.94	1.67	57.19	1.73	604	89.74	1.42	0.00	1	0.99
Has other unmet needs	51	34,490	(25,582 - 43,397)	8.88	1.39	57.18	5.51	59	9.18	1.35			
Care is harder to get compared to three years ago among children ages 3 or older													
Yes	65	39,667	(30,512 - 48,822)	11.04	1.55	42.72	4.51	126	19.62	1.94	15.90	2	<0.01*
No	80	50,573	(40,252 - 60,895)	14.07	1.75	69.68	4.77	50	8.11	1.40			
About the same	419	248,230	(234,731 - 261,730)	69.08	2.28	56.45	1.97	464	70.63	2.23			
Received enough help coordinating child's health care			Only a subset of parents of children who needed help coordinating care were asked about care coordination.										
Always	106	66,918	(58,981 - 74,855)	57.55	4.05	66.28	4.17	76	49.83	5.01			
Usually	43	25,964	(19,252 - 32,677)	22.33	3.44	56.85	6.46	39	28.84	4.57			
Sometimes	28	14,736	(9,567 - 19,905)	12.67	2.58	63.12	8.02	18	12.60	3.19	5.81	4	0.21
Rarely	7	4,338	(1,165 - 7,512)	3.73	1.66	46.64	13.24	15	7.27	2.14			
Never	6	4,312	(2,063 - 6,561)	3.71	1.18	83.73	5.73	4	*unreliable estimate*				

NOTE : Weighted distribution percentages may not total 100% because of missing or incomplete data.

*Indicates a significant result (p<0.01)

for footnotes (a) through (e) please see p. A4

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Table A1.3 Comparison of children with special health care needs with Medicaid vs. without Medicaid (ages 0-18 years old)

		CSHCN with Medicaid							CSHCN without Medicaid			Statistical testing		
	Unweighted N[a]	Weighted N[b]		Weighted Distribution[c]		Weighted Prevalence[d]			Unweighted N[a]	Weighted Distribution[c]		Rao Scott χ^2 value	df	P-value
		estimate	90% CI	%	std error	%	std error			%	std error			
Health care utilization														
Number of emergency room visits in past year														
0	377	225,268	(210,097 - 240,440)	58.02	2.37	51.25	2.05		510	76.10	2.05			
1 or 2	177	112,372	(98,224 - 126,521)	28.94	2.21	68.17	3.11		130	18.64	1.88	31.43	2	<0.01*
≥ 3	64	41,639	(32,055 - 51,223)	10.73	1.50	77.59	4.89		26	4.27	1.00			
Any well-child visit/check-up in past year														
No	109	64,119	(52,580 - 75,658)	16.52	1.81	54.93	3.99		129	18.68	1.86	0.56	1	0.45
Yes	506	312,498	(300,132 - 324,865)	80.49	1.94	58.23	1.81		531	79.61	1.92			
Any hospital stay in past year														
No	532	324,315	(312,917 - 335,714)	83.54	1.78	56.08	1.76		605	90.20	1.40	6.57	1	0.01*
Yes	89	56,069	(45,384 - 66,753)	14.44	1.67	68.74	4.30		62	9.06	1.35			
Any dental visit in past year														
No	66	42,973	(33,324 - 52,622)	11.07	1.51	64.73	5.02		59	8.32	1.30	2.87	1	0.09
Yes	513	305,141	(292,364 - 317,919)	78.60	2.00	55.40	1.79		587	87.26	1.63			
Health status														
General health status														
Fair/Poor	96	58,312	(47,556 - 69,068)	15.02	1.68	75.03	4.14		45	6.89	1.23	14.57	1	<0.01*
Excellent/Very good/Good	535	329,920	(319,164 - 340,676)	84.98	1.68	55.72	1.74		626	93.11	1.23			
Vision health status among children ages 5 or older														
Fair/Poor	68	38,214	(29,596 - 46,831)	11.98	1.64	75.48	5.04		30	5.01	1.12	11.65	1	<0.01*
Excellent/Very good/Good	466	279,343	(270,539 - 288,146)	87.54	1.68	54.55	1.84		579	93.92	1.20			
Dental health status among children ages 3 or older														
Fair/Poor	92	57,696	(46,964 - 68,428)	16.06	1.81	65.67	4.37		66	11.13	1.56	4.15	1	0.04
Excellent/Very good/Good	499	300,269	(289,538 - 311,001)	83.56	1.81	55.67	1.81		581	88.19	1.59			

NOTE : Weighted distribution percentages may not total 100% because of missing or incomplete data.
*Indicates a significant result (p<0.01)

for footnotes (a) through (e) please see p. A4

Table A2 Weighted distributions of children with special health care needs: The 2012 OMAS vs the 2010 National Survey of Children with Special Health Care Needs (NS-CSHCN)

	2012 OMAS		2010 NS-CSHCN			
			Ohio		USA	
	Weighted %	90% CI	Weighted %	90% CI	Weighted %	90% CI
All CSHCN	24.61	(23.37 - 25.85)	17.66†	(--† , --†)	14.97†	(--† , --†)
Gender						
Male	57.29	(54.41 - 60.18)	57.97	(54.17 - 61.77)	59.20	(58.46 - 59.94)
Female	42.71	(39.82 - 45.59)	41.91	(38.11 - 45.71)	40.62	(39.88 - 41.36)
Age						
0-2	6.15	(4.62 - 7.67)	8.05	(5.48 - 10.62)	7.18	(6.76 - 7.60)
3-5	13.59	(11.46 - 15.71)	15.29	(12.65 - 17.93)	13.61	(13.09 - 14.13)
6-12	42.93	(40.04 - 45.82)	41.90	(38.14 - 45.66)	45.40	(44.65 - 46.15)
13-17	37.33	(34.58 - 40.08)	34.76	(31.08 - 38.43)	33.81	(33.11 - 34.51)
Race/Ethnicity						
White/Other	78.77	(76.51 - 81.02)	78.77	(75.26 - 82.27)	67.12	(66.36 - 67.88)
African-American	17.04	(14.93 - 19.15)	16.52	(13.31 - 19.73)	16.13	(15.52 - 16.74)
Hispanic	4.19	(3.22 - 5.17)	4.72	(2.85 - 6.59)	16.75	(16.11 - 17.40)
Parent/Legal guardian's education						
< High school	10.43	(8.48 - 12.37)	12.11	(9.04 - 15.19)	11.12	(10.51 - 11.73)
High school graduate or GED	29.10	(26.43- 31.77)	22.14	(18.62 - 25.66)	19.89	(19.24 - 20.54)
> High school	60.47	(57.59 - 63.36)	65.75	(61.76 - 69.73)	68.99	(68.22 - 69.76)
Household income (% of the FPL)						
≤ 200%	61.06	(58.30 - 63.81)	52.57	(48.76 - 56.38)	44.10	(43.34 - 44.85)
> 200%	38.94	(36.19 - 41.70)	47.43	(43.62 - 51.24)	55.90	(55.15 - 56.66)
Health insurance						
Public insurance	59.31	(56.54 - 62.07)	46.06	(42.16 - 49.95)	42.60	(41.84 - 43.35)
Private insurance	35.76	(33.09 - 38.42)	44.98	(41.26 - 48.70)	50.63	(49.88 - 51.38)
Uninsured	2.41	(1.60 - 3.22)	2.98	(1.04 - 4.92)	3.47	(3.15 - 3.78)
Other	2.53	(1.74 - 3.32)	5.99	(4.04 - 7.93)	3.15	(2.88 - 3.43)
Level of complexity of need						
Has functional limitations	28.08	(25.44 -30.73)	23.93	(20.45 - 27.42)	23.48	(22.83 - 24.13)
No functional limitations, but…						
needs prescriptions (Rx)	27.70	(25.12 - 30.28)	37.54	(33.91 - 41.64)	39.26	(38.53 - 39.98)
needs services	12.34	(10.50 - 14.18)	15.52	(12.55 - 18.50)	15.83	(15.25 - 16.42)
needs both Rx and services	29.79	(27.12 - 32.46)	23.01	(19.87 - 26.15)	21.43	(20.83 - 22.03)

Notes : *This sample is limited to children age 0-17 years to maintain comparability. Weighted distribution percentages may not total 100% because of missing or incomplete data.*

†*Because the NS-CSHCN only surveyed children with special health care needs, we cannot accurately estimate the overall proportion of the population who are CSHCN in comparison to children without special health care needs. Instead, population data from the 2010 US Census is used to construct crude weighted estimates without confidence intervals.*

Table A3.1 Comparison of children with special health care needs (age 0-17 years old): The 2008 OFHS vs. the 2012 OMAS

	2008 Ohio Family Health Survey (OFHS)					2012 Ohio Medicaid Assessment Survey (OMAS)				
	Unweighted N[a]	Weighted N[b]		Weighted Distribution[c]		Unweighted N[a]	Weighted N[b]		Weighted Distribution[c]	
		estimate	90% CI	%	std error		estimate	90% CI	%	std error
All CSHCN	2,736	575,353	(553,786 - 596,920)	22.6%	0.51	1,217	639,609	(607,422 - 671,794)	24.6%	0.75
Demographic characteristics										
Gender										
Male	1,599	337,904	(325,790 - 350,019)	58.73	1.28	698	366,458	(348,016 - 384,899)	57.29	1.75
Female	1,137	237,449	(225,334 - 249,563)	41.27	1.28	519	273,151	(254,710 - 291,593)	42.71	1.75
Age										
0-2	153	35,442	(29,421 - 41,463)	6.16	0.64	57	39,326	(29,565 - 49,086)	6.15	0.93
3-5	317	63,860	(56,202 - 71,519)	11.10	0.81	130	86,908	(73,318 - 100,499)	13.59	1.29
6-12	1,139	249,488	(237,241 - 261,734)	43.36	1.29	491	274,607	(256,125 - 293,090)	42.93	1.76
13-17	1,127	226,563	(214,592 - 238,533)	39.38	1.26	539	238,767	(221,154 - 256,381)	37.33	1.67
Race/Ethnicity										
White/Other	2,152	461,256	(451,717 - 470,795)	80.17	1.01	892	486,984	(471,579 - 502,390)	76.14	1.46
African-American	373	88,021	(79,076 - 96,966)	15.30	0.95	206	108,996	(95,521 - 122,471)	17.04	1.28
Hispanic	186	21,334	(18,189 - 24,479)	3.71	0.33	96	26,815	(20,568 - 33,061)	4.19	0.59
Asian	25	4,742	(2,124 - 7,361)	0.82	0.28	23	16,813	(9,864 - 23,762)	2.63	0.66
Parent/Legal guardian's marital status										
Married	1,505	316,013	(304,641 - 327,385)	61.44	1.34	602	301,482	(284,844 - 318,121)	57.49	1.93
Divorced/Separated	445	98,471	(89,182 - 107,761)	19.14	1.10	195	108,846	(95,037 - 122,655)	20.76	1.60
Widowed	53	8,146	(5,703 - 10,588)	1.58	0.29	20	5,751	(3,125 - 8,376)	1.10	0.30
Single	391	90,682	(81,742 - 99,622)	17.63	1.06	190	108,219	(94,251 - 122,187)	20.64	1.62
Parent/Legal guardian's education										
< High school	153	34,889	(28,922 - 40,856)	6.78	0.71	85	50,359	(39,401 - 61,317)	9.60	1.27
High school graduate or GED	697	152,521	(141,800 - 163,242)	29.65	1.27	258	146,063	(130,727 - 161,399)	27.85	1.78
Some college	452	100,887	(91,537 - 110,237)	19.61	1.11	183	99,143	(85,768 - 112,518)	18.91	1.55
Associates degree	368	78,578	(70,194 - 86,962)	15.28	0.99	144	72,287	(60,899 - 83,674)	13.78	1.32
≥ Four-year college degree	728	147,489	(137,017 - 157,960)	28.67	1.24	338	156,562	(141,924 - 171,200)	29.85	1.70

NOTE : Weighted distribution percentages may not total 100%
because of missing or incomplete data.

for footnotes (a) through (e) please see p. A4

Table A3.1 Comparison of children with special health care needs (age 0-17 years old): The 2008 OFHS vs. the 2012 OMAS

	2008 Ohio Family Health Survey (OFHS)					2012 Ohio Medicaid Assessment Survey (OMAS)				
	Unweighted N[a]	Weighted N[b]		Weighted Distribution[c]		Unweighted N[a]	Weighted N[b]		Weighted Distribution[c]	
		estimate	90% CI	%	std error		estimate	90% CI	%	std error
Enabling characteristics										
Medicaid Managed Care Region										
Northwest	399	62,023	(55,681 - 68,365)	10.78	0.67	125	57,517	(47,735 - 67,298)	8.99	0.93
Northeast	436	117,167	(107,505 - 126,829)	20.36	1.02	157	102,648	(89,112 - 116,185)	16.05	1.29
Northeast Central	101	23,165	(18,812 - 27,518)	4.03	0.46	108	35,122	(28,221 - 42,024)	5.49	0.66
East Central	387	75,229	(67,821 - 82,636)	13.08	0.78	179	80,588	(69,270 - 91,906)	12.60	1.08
Central	470	114,774	(105,208 - 124,341)	19.95	1.01	201	139,182	(123,688 - 154,677)	21.76	1.47
West Central	233	60,454	(52,966 - 67,942)	10.51	0.79	159	81,259	(69,512 - 93,005)	12.70	1.12
Southwest	431	90,767	(82,433 - 99,102)	15.78	0.88	178	99,358	(86,336 - 112,379)	15.53	1.24
Southeast	279	31,774	(27,530 - 36,017)	5.52	0.45	110	43,935	(35,791 - 52,080)	6.87	0.77
Household income (% of the FPL)										
≤ 100%	675	169,133	(157,629 - 180,637)	29.40	1.22	381	245,132	(226,529 - 263,736)	38.33	1.77
101-138%	258	58,212	(50,602 - 65,823)	10.12	0.80	130	65,795	(54,655 - 76,936)	10.29	1.06
139-200%	372	73,926	(65,815 - 82,038)	12.85	0.86	155	79,588	(67,670 - 91,507)	12.44	1.13
201-300%	449	82,622	(74,321 - 90,924)	14.36	0.88	166	81,474	(69,398 - 93,550)	12.74	1.15
> 300%	982	191,458	(180,104 - 202,814)	33.28	1.20	385	167,619	(152,155 - 183,084)	26.21	1.47
Health insurance[ϕ]										
Uninsured	103	16,700	(12,821 - 20,580)	2.90	0.41	38	15,403	(10,244 - 20,563)	2.41	0.49
Medicaid	1,030	260,682	(248,410 - 272,954)	45.31	1.30	599	374,386	(356,611 - 392,162)	58.53	1.69
Employer-sponsored insurance	1,449	270,173	(258,036 - 282,310)	46.96	1.28	492	213,259	(196,606 - 229,912)	33.34	1.58
Other[e]	154	27,797	(22,706 - 32,888)	4.83	0.54	88	36,560	(28,694 - 44,425)	5.72	0.75
No usual source of care	22	4,949	(2,674 - 7,225)	0.86	0.24	10	2,788	(847 - 4,729)	0.44	0.18
Has a usual source of care	2,688	564,379	(560,981 - 567,777)	98.09	0.36	1,186	621,296	(614,670 - 627,921)	97.14	0.63

[ϕ]*A non-imputed version of the health insurance variable was used to allow for comparison between the 2008 OFHS and the 2012 OMAS.*

NOTE : *Weighted distribution percentages may not total 100%*
because of missing or incomplete data.

for footnotes (a) through (e) please see p. A4

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Table A3.1 Comparison of children with special health care needs (age 0-17 years old): The 2008 OFHS vs. the 2012 OMAS

	2008 Ohio Family Health Survey (OFHS)					2012 Ohio Medicaid Assessment Survey (OMAS)				
	Unweighted N[a]	Weighted N[b]		Weighted Distribution[c]		Unweighted N[a]	Weighted N[b]		Weighted Distribution[c]	
		estimate	90% CI	%	std error		estimate	90% CI	%	std error
Needs										
Level of complexity of need										
Has functional limitations	697	152,293	(141,363 - 163,224)	26.47	1.15	331	179,619	(162,686 - 196,551)	28.08	1.61
No functional limitations, but…										
needs prescriptions (Rx)	913	175,062	(163,932 - 186,192)	30.43	1.18	355	177,175	(160,664 - 193,686)	27.70	1.57
needs services	390	88,475	(79,383 - 97,567)	15.38	0.96	160	78,929	(67,137 - 90,721)	12.34	1.12
needs both Rx and services	688	148,141	(137,307 - 158,976)	25.75	1.14	352	190,509	(173,432 - 207,587)	29.79	1.62
Does not have diabetes	2,678	563,092	(559,405 - 566,779)	97.87	0.39	1,179	615,549	(608,086 - 623,012)	96.24	0.71
Currently has diabetes	48	10,420	(7,012 - 13,827)	1.81	0.36	30	18,460	(11,922 - 24,998)	2.89	0.62
Does not have asthma	1,839	389,966	(378,529 - 401,404)	67.78	1.21	832	440,410	(423,154 - 457,667)	68.86	1.64
Currently has asthma	876	182,182	(170,775 - 193,590)	31.66	1.21	373	190,153	(173,197 - 207,109)	29.73	1.61
Unmet needs										
No unmet dental needs among children ages 3 or older	2,341	490,080	(483,165 - 496,995)	90.77	0.78	1,033	532,780	(521,252 - 544,308)	88.75	1.17
Has unmet dental needs among childrens ages 3 or older	210	42,690	(36,269 - 49,112)	7.91	0.72	98	49,368	(39,575 - 59,160)	8.22	0.99
No unmet prescription needs	2,497	526,528	(519,763 - 533,293)	91.51	0.71	1,105	574,515	(562,834 - 586,197)	89.82	1.11
Has unmet prescription needs	200	40,416	(34,277 - 46,556)	7.02	0.65	87	47,001	(37,180 - 56,822)	7.35	0.93
No other unmet needs	2,511	530,818	(524,437 - 537,199)	92.26	0.67	1,089	565,704	(553,445 - 577,964)	88.45	1.17
Has other unmet needs	186	36,677	(30,903 - 42,452)	6.37	0.61	101	55,622	(45,073 - 66,170)	8.70	1.00
Care is harder to get compared to three years ago among children ages 3 or older										
Yes	514	106,076	(96,680 - 115,472)	19.65	1.06	176	86,366	(73,855 - 98,878)	14.39	1.27
No	241	53,154	(45,848 - 60,459)	9.84	0.82	124	70,008	(58,080 - 81,937)	11.66	1.21
About the same	1,786	372,116	(361,058 - 383,174)	68.92	1.25	823	420,268	(403,573 - 436,963)	70.01	1.69
Received enough help coordinating child health care						*Only a subset of children were asked about the need for care coordination.*				
Always	330	63,937	(58,450 - 69,425)	44.70	2.33	168	95,849	(86,302 - 105,395)	54.19	3.28
Usually	178	45,144	(39,854 - 50,433)	31.56	2.24	77	43,263	(35,152 - 51,375)	24.46	2.79
Sometimes	119	25,732	(21,163 - 30,301)	17.99	1.94	45	23,166	(16,910 - 29,421)	13.10	2.15
Rarely		*not available in 2008*				22	9,302	(5,318 - 13,286)	5.26	1.37
Never	38	7,714	(5,257 - 10,171)	5.39	1.04	10	5,150	(2,732 - 7,569)	2.91	0.83

NOTE : Weighted distribution percentages may not total 100% because of missing or incomplete data.

for footnotes (a) through (e) please see p. A4

Table A3.1 Comparison of children with special health care needs (age 0-17 years old): The 2008 OFHS vs. the 2012 OMAS

	2008 Ohio Family Health Survey (OFHS)					2012 Ohio Medicaid Assessment Survey (OMAS)				
	Unweighted N[a]	Weighted N[b]		Weighted Distribution[c]		Unweighted N[a]	Weighted N[b]		Weighted Distribution[c]	
		estimate	90% CI	%	std error		estimate	90% CI	%	std error
Health care utilization										
Number of emergency room visits in past year										
0	1,896	392,341	(380,843 - 403,839)	68.19	1.21	824	417,311	(399,325 - 435,298)	65.24	1.71
1 or 2	610	133,109	(122,674 - 143,545)	23.14	1.10	293	159,199	(142,896 - 175,502)	24.89	1.55
≥ 3	204	45,209	(38,529 - 51,889)	7.86	0.71	84	52,130	(41,278 - 62,981)	8.15	1.03
Any well-child visit/check-up in past year										
No	645	132,239	(122,024 - 142,453)	22.98	1.08	214	107,290	(93,417 - 121,164)	16.77	1.32
Yes	2,057	438,199	(427,902 - 448,496)	76.16	1.09	979	516,833	(502,119 - 531,548)	80.80	1.40
Any hospital stay in past year										
No	2,403	505,252	(497,307 - 513,199)	87.82	0.84	1,065	552,068	(539,048 - 565,089)	86.31	1.24
Yes	315	66,987	(59,145 - 74,828)	11.64	0.83	139	77,949	(65,680 - 90,218)	12.19	1.17
Any dental visit in past year										
No	178	36,486	(30,379 - 42,593)	6.34	0.65	111	59,636	(48,669 - 70,603)	9.32	1.04
Yes	2,302	487,015	(478,157 - 495,874)	84.65	0.94	1,031	528,177	(513,406 - 542,949)	82.58	1.40
Health status										
General health status										
Fair/Poor	317	72,058	(63,853 - 80,265)	12.52	0.87	129	72,930	(60,724 - 85,136)	11.40	1.16
Excellent/Very good/Good	2,419	503,294	(495,088 - 511,500)	87.48	0.87	1,088	566,679	(554,473 - 578,885)	88.60	1.16

NOTE : Weighted distribution percentages may not total 100% because of missing or incomplete data.

for footnotes (a) through (e) please see p. A4

Table A3.2 Comparison of children with special health care needs with Medicaid (ages 0-17 years old): The 2008 OFHS vs. the 2012 OMAS

	2008 Ohio Family Health Survey (OFHS)					2012 Ohio Medicaid Assessment Survey (OMAS)				
	Unweighted N[a]	Weighted N[b]		Weighted Distribution[c]		Unweighted N[a]	Weighted N[b]		Weighted Distribution[c]	
		estimate	90% CI	%	std error		estimate	90% CI	%	std error
All CSHCN with Medicaid	1,043	263,765	(251,792 - 275,738)	45.8%	1.26	605	376,450	(359,011 - 393,888)	58.9%	1.66
Demographic characteristics										
Gender										
Male	600	154,788	(146,181 - 163,394)	58.68	1.98	348	211,192	(196,371 - 226,013)	56.10	2.39
Female	443	108,977	(100,371 - 117,584)	41.32	1.98	257	165,258	(150,437 - 180,079)	43.90	2.39
Age										
0-2	79	21,698	(16,780 - 26,615)	8.23	1.13	37	28,897	(20,364 - 37,430)	7.68	1.38
3-5	124	27,780	(22,544 - 33,015)	10.53	1.21	78	55,410	(44,302 - 66,518)	14.72	1.79
6-12	470	125,700	(116,905 - 134,495)	47.66	2.03	258	167,326	(152,148 - 182,503)	44.45	2.45
13-17	370	88,587	(80,369 - 96,807)	33.59	1.89	232	124,818	(110,780 - 138,855)	33.16	2.27
Race/Ethnicity										
White/Other	720	186,522	(178,939 - 194,104)	70.72	1.75	395	264,812	(251,852 - 277,771)	70.34	2.09
African-American	238	64,944	(57,600 - 72,288)	24.62	1.69	145	86,893	(74,965 - 98,821)	23.08	1.92
Hispanic	81	11,255	(8,941 - 13,570)	4.27	0.53	61	21,040	(15,206 - 26,875)	5.59	0.94
Asian		unreliable estimate					unreliable estimate			
Parent/Legal guardian's marital status										
Married	285	76,762	(69,099 - 84,425)	35.19	2.14	167	107,429	(94,824 - 120,035)	37.79	2.69
Divorced/Separated	236	64,895	(57,524 - 72,267)	29.75	2.05	127	81,927	(70,091 - 93,764)	28.82	2.53
Widowed	21	4,013	(2,157 - 5,868)	1.84	0.52	7	2,370	(504 - 4,237)	0.83	0.40
Single	276	71,590	(64,155 - 79,025)	32.82	2.07	151	92,583	(80,426 - 104,739)	32.56	2.60
Parent/Legal guardian's education										
< High school	110	29,148	(23,692 - 34,604)	13.36	1.52	68	45,063	(34,819 - 55,308)	15.85	2.19
High school graduate or GED	347	90,770	(82,823 - 98,717)	41.61	2.21	149	101,241	(88,414 - 114,067)	35.61	2.74
Some college	182	50,069	(43,302 - 56,836)	22.95	1.89	107	66,470	(55,418 - 77,523)	23.38	2.36
Associates degree	114	30,648	(25,168 - 36,127)	14.05	1.53	70	43,805	(34,538 - 53,072)	15.41	1.98
≥ Four-year college degree	68	17,492	(13,067 - 21,917)	8.02	1.23	58	27,730	(20,964 - 34,497)	9.75	1.45

NOTE : Weighted distribution percentages may not total 100%
because of missing or incomplete data.

for footnotes (a) through (e) please see p. A4

Table A3.2 Comparison of children with special health care needs with Medicaid (ages 0-17 years old): The 2008 OFHS vs. the 2012 OMAS

	2008 Ohio Family Health Survey (OFHS)					2012 Ohio Medicaid Assessment Survey (OMAS)				
	Unweighted N[a]	Weighted N[b] estimate	90% CI	Weighted Distribution[c] %	std error	Unweighted N[a]	Weighted N[b] estimate	90% CI	Weighted Distribution[c] %	std error
Enabling characteristics										
Medicaid Managed Care Region										
Northwest	140	28,684	(24,168 - 33,200)	10.87	1.04	59	34,628	(27,757 - 41,500)	9.20	1.11
Northeast	143	43,447	(37,441 - 49,454)	16.47	1.38	74	53,170	(43,372 - 62,969)	14.12	1.58
Northeast Central	43	12,786	(9,588 - 15,984)	4.85	0.74	63	25,295	(19,255 - 31,336)	6.72	0.97
East Central	155	35,839	(30,694 - 40,984)	13.59	1.19	92	51,459	(42,156 - 60,761)	13.67	1.50
Central	176	51,925	(45,490 - 58,361)	19.69	1.48	97	77,046	(65,608 - 88,484)	20.47	1.85
West Central	86	26,679	(21,692 - 31,665)	10.11	1.15	72	47,137	(37,731 - 56,542)	12.52	1.52
Southwest	154	41,976	(36,091 - 47,861)	15.91	1.36	79	53,787	(43,981 - 63,593)	14.29	1.58
Southeast	146	22,428	(18,893 - 25,964)	8.50	0.81	69	33,928	(27,184 - 40,671)	9.01	1.09
Household income (% of the FPL)										
≤ 100%	550	147,474	(138,811 - 156,137)	55.91	2.00	341	226,543	(211,968 - 241,118)	60.18	2.35
101-138%	173	42,892	(36,478 - 49,306)	16.26	1.48	95	51,070	(41,034 - 61,106)	13.57	1.62
139-200%	159	36,038	(30,316 - 41,761)	13.66	1.32	79	44,652	(35,459 - 53,844)	11.86	1.48
201-300%	89	20,022	(15,396 - 24,649)	7.59	1.07	47	30,688	(22,234 - 39,142)	8.15	1.36
> 300%	72	17,339	(12,991 - 21,686)	6.57	1.00	43	23,498	(16,601 - 30,395)	6.24	1.11
No usual source of care	12	3,326	(1,393 - 5,259)	1.26	0.45		unreliable estimate			
Has a usual source of care	1,020	257,571	(254,989 - 260,153)	97.65	0.60	586	362,805	(356,860 - 368,750)	96.38	0.96
Need										
Level of complexity of need										
Has functional limitations	335	86,925	(78,640 - 95,209)	32.96	1.91	203	120,049	(105,991 - 134,106)	31.89	2.27
No functional limitations, but…										
needs prescriptions (Rx)	249	58,102	(50,903 - 65,301)	22.03	1.66	148	92,318	(79,390 - 105,246)	24.52	2.09
needs services	166	45,610	(38,913 - 52,307)	17.29	1.54	77	44,050	(34,721 - 53,379)	11.70	1.51
needs both Rx and services	264	64,568	(57,185 - 71,952)	24.48	1.70	164	109,539	(95,684 - 123,394)	29.10	2.24
Does not have diabetes	1,020	258,549	(256,193 - 260,906)	98.02	0.54	582	358,828	(352,111 - 365,544)	95.32	1.08
Currently has diabetes	17	3,671	(1,770 - 5,572)	1.39	0.44	17	12,776	(7,041 - 18,510)	3.39	0.93
Does not have asthma	667	169,393	(161,038 - 177,748)	64.22	1.93	377	243,239	(228,958 - 257,520)	64.61	2.30
Currently has asthma	369	93,271	(84,926 - 101,616)	35.36	1.92	218	124,422	(110,459 - 138,385)	33.05	2.25

NOTE : Weighted distribution percentages may not total 100%
because of missing or incomplete data.

for footnotes (a) through (e) please see p. A4

Table A3.2 Comparison of children with special health care needs with Medicaid (ages 0-17 years old): The 2008 OFHS vs. the 2012 OMAS

	2008 Ohio Family Health Survey (OFHS)					2012 Ohio Medicaid Assessment Survey (OMAS)				
	Unweighted N[a]	Weighted N[b]		Weighted Distribution[c]		Unweighted N[a]	Weighted N[b]		Weighted Distribution[c]	
		estimate	90% CI	%	std error		estimate	90% CI	%	std error
Unmet needs										
No unmet dental needs among children ages 3 or older	848	212,094	(206,550 - 217,638)	87.62	1.39	495	301,741	(291,813 - 311,668)	86.82	1.74
Has unmet dental needs among children ages 3 or older	103	26,325	(21,084 - 31,566)	10.88	1.32	53	31,158	(22,969 - 39,347)	8.96	1.43
No unmet prescription needs	943	238,880	(233,847 - 243,914)	90.57	1.16	549	334,215	(324,182 - 344,247)	88.78	1.62
Has unmet prescription needs	83	20,149	(15,620 - 24,678)	7.64	1.04	38	27,170	(19,028 - 35,311)	7.22	1.31
No other unmet needs	960	243,791	(239,260 - 248,322)	92.43	1.04	537	328,419	(317,935 - 338,904)	87.24	1.69
Has other unmet needs	68	16,336	(12,239 - 20,433)	6.19	0.94	49	32,798	(24,062 - 41,534)	8.71	1.41
Care is harder to get compared to three years ago among children ages 3 or older										
Yes	163	42,209	(35,886 - 48,531)	17.44	1.59	61	37,669	(28,713 - 46,626)	10.84	1.57
No	130	32,852	(27,029 - 38,674)	13.57	1.46	78	49,311	(39,081 - 59,540)	14.19	1.79
About the same	652	162,138	(154,210 - 170,065)	66.98	1.99	403	241,371	(228,078 - 254,663)	69.45	2.32
Received enough help coordinating child health care		Only a subset of parents of children who needed help coordinating care were asked about care coordination.								
Always	121	27,578	(23,558 - 31,598)	41.22	3.65	101	64,311	(56,631 - 71,991)	56.96	2.12
Usually	68	19,479	(15,413 - 23,544)	29.12	3.69	41	25,210	(18,675 - 31,746)	22.33	3.51
Sometimes	61	14,959	(11,460 - 18,458)	22.36	3.18	28	14,736	(9,801 - 19,672)	13.05	2.65
Rarely		not available in 2008				7	4,338	(1,147 - 7,530)	3.84	1.71
Never	20	4,366	(2,530 - 6,201)	6.53	1.67	6	4,312	(2,054 - 6,570)	3.82	1.21

NOTE : Weighted distribution percentages may not total 100% because of missing or incomplete data.

for footnotes (a) through (e) please see p. A4

Table A3.2 Comparison of children with special health care needs with Medicaid (ages 0-17 years old): The 2008 OFHS vs. the 2012 OMAS

	2008 Ohio Family Health Survey (OFHS)					2012 Ohio Medicaid Assessment Survey (OMAS)				
	Unweighted N[a]	Weighted N[b]		Weighted Distribution[c]		Unweighted N[a]	Weighted N[b]		Weighted Distribution[c]	
		estimate	90% CI	%	std error		estimate	90% CI	%	std error
Health care utilization										
Number of emergency room visits in past year										
0	647	161,352	(152,793 - 169,912)	61.17	1.97	356	216,877	(201,871 - 231,882)	57.61	2.42
1 or 2	276	72,407	(64,501 - 80,313)	27.45	1.82	174	109,744	(95,769 - 123,720)	29.15	2.26
≥ 3	107	26,902	(21,607 - 32,198)	10.20	1.22	64	41,639	(32,069 - 51,209)	11.06	1.54
Any well-child visit/check-up in past year										
No	241	62,731	(55,322 - 70,140)	23.78	1.71	103	61,047	(49,738 - 72,356)	16.22	1.83
Yes	785	198,230	(190,756 - 205,704)	75.15	1.72	487	304,146	(291,992 - 316,300)	80.79	1.96
Any hospital stay in past year										
No	891	226,524	(220,484 - 232,566)	85.88	1.39	510	314,061	(302,737 - 325,385)	83.43	1.83
Yes	145	35,870	(29,886 - 41,853)	13.60	1.38	86	54,898	(44,280 - 65,517)	14.58	1.71
Any dental visit in past year										
No	75	17,272	(12,988 - 21,556)	6.55	0.99	60	39,566	(30,302 - 48,829)	10.51	1.49
Yes	853	217,810	(211,195 - 224,425)	82.58	1.52	495	297,529	(285,018 - 310,040)	79.04	2.02
Health status										
General health status										
Fair/Poor	176	46,626	(39,917 - 53,334)	17.68	1.55	91	55,710	(45,125 - 66,294)	14.80	1.71
Excellent/Very good/Good	867	217,139	(210,431 - 223,848)	82.32	1.55	514	320,741	(310,156 - 331,325)	85.20	1.71

NOTE : Weighted distribution percentages may not total 100% because of missing or incomplete data.

Table A4.1 Health care differences among children with special health care needs compared to children without special health care needs: Adjusted odds ratios from the 2008 OFHS and the 2012 OMAS

	2008		2012		Do the adjusted odds ratio differ by year?	
	AOR	95% CI	AOR	95% CI	Z-score ◊	P-value
Fair/Poor general health status	15.33*	(11.02 - 21.30)	11.89*	(7.06 - 20.01)	-0.81	0.42
Fair/Poor vision health status among children ages 5 or older	not available in 2008		2.50*	(1.67 - 3.76)	--	--
Fair/Poor dental health status among children ages 3 and older	not available in 2008		2.52*	(1.85 - 3.45)	--	--
Any well-child visit in past year	1.12	(0.97 - 1.29)	1.22	(0.96 - 1.54)	--	--
Any dental visit in past year	0.79	(0.61 - 1.03)	1.18	(0.87 - 1.59)	--	--
Any emergency room visit in past year	2.36*	(2.05 - 2.71)	2.45*	(2.01 - 2.99)	0.33	0.76
Any hospital stay in past year	3.28*	(2.65 - 4.07)	2.90*	(2.12 - 3.97)	-0.64	0.52
Has any unmet prescription needs	4.08*	(3.07 - 5.42)	4.12*	(2.67 - 6.35)	0.04	0.80
Has unmet dental needs among children ages 3 or older	1.76*	(1.37 - 2.26)	1.93*	(1.32 - 2.81)	0.39	0.74
Has other unmet needs	3.56*	(2.63 - 4.80)	4.85*	(3.27 - 7.18)	1.23	0.38
Care is harder to get compared to three years ago among children ages 3 or older (vs. easier or same)	1.96*	(1.66 - 2.31)	1.70*	(1.31 - 2.21)	-0.90	0.37

Notes : Models are adjusted for age, gender, race/ethnicity, household income (% of the FPL), health insurance, and county type. This sample is limited to 0-17 year-olds and data are weighted to be representative of the state of Ohio.

*Indicates a significant result (p<0.01)
◊ A two-sample Z-test is used to assess whether the odds ratios for each variable differ by year. Z-scores are only calculated for significant results.

Table A4.2 Association with unmet health care needs, health care utilization and health status among children with special health care needs lacking care consistent with a medical home: Adjusted odds ratios from the 2012 OMAS

	Children with special health care needs (CSHCN)	
	AOR	*95% CI*
Fair/Poor general health status[Σ]	0.70	(0.43 - 1.15)
Fair/Poor vision health status among children ages 5 or older	0.87	(0.47 - 1.63)
Fair/Poor dental health status among children ages 3 or older	1.44	(0.87 - 2.38)
Any dental visit in past year	0.62	(0.36 - 1.07)
Any emergency room visit in past year	0.94	(0.68 - 1.30)
Any hospital stay in past year	0.83	(0.51 - 1.33)
Has any unmet prescription needs	1.08	(0.59 - 1.96)
Has unmet dental needs	1.55	(0.85 - 2.83)
Has other unmet needs	1.41	(0.77 - 2.61)
Care is harder to get compared to three years ago among children ages 3 or older (vs. easier or same)	2.06*	(1.27 - 3.34)

Notes : Models are adjusted for age, gender, race/ethnicity, household income (% of the FPL), health insurance, general health status, and level of complexity of need. This sample includes 0-18 year olds, and data are weighted to be representative of the state of Ohio.

[Σ]*The "Fair/Poor general health status" model omits the general health status variable as an independent variable for this analysis.*
*Indicates a significant result (p<0.01)

Table A4.3 Differences in unmet health care needs and health care utilization among children with special health care needs with different levels of complex needs: Adjusted odds ratios from the 2008 OFHS and the 2012 OMAS[Δ]

	2008 OFHS		2012 OMAS		Do the adjusted odds ratio differ by year?	
	AOR	*95% CI*	*AOR*	*95% CI*	*Z-score ◊*	*P-value*
Sometimes/Rarely/Never access needed care coordination[ϴ]						
Needs services only	0.96	(0.39 - 2.35)	1.25	(0.32 - 4.83)	--	--
Needs Rx and services	0.92	(0.42 - 2.01)	1.39	(0.46 - 4.17)	--	--
Has functional limitations	1.21	(0.56 - 2.60)	2.98	(1.07 - 8.30)	--	--
Small or big problem accessing specialty care						
Needs services only	1.79	(1.03 - 3.12)	1.66	(0.83 - 3.32)	--	--
Needs Rx and services	1.42	(0.88 - 2.29)	0.91	(0.50 - 1.66)	--	--
Has functional limitations	1.37	(0.84 - 2.26)	1.94	(1.08 - 3.47)	--	--
Has unmet prescription needs						
Needs services only	0.57	(0.26 - 1.27)	0.38	(0.12 - 1.18)	--	--
Needs Rx and services	0.78	(0.45 - 1.38)	1.51	(0.70 - 3.25)	--	--
Has functional limitations	1.16	(0.68 - 1.96)	1.92	(0.88 - 4.19)	--	--
Has unmet dental needs among children ages 3 or older						
Needs services only	1.54	(0.82 - 2.90)	3.69	(1.36 - 10.03)	--	--
Needs Rx and services	1.09	(0.59 - 2.00)	1.46	(0.57 - 3.72)	--	--
Has functional limitations	1.63	(0.91 - 2.92)	2.42	(1.07 - 5.48)	--	--
Has other unmet needs						
Needs services only	1.89	(0.94 - 3.82)	2.33	(0.83 - 6.53)	-0.74	0.46
Needs Rx and services	1.23	(0.66 - 2.28)	2.89*	(1.14 - 7.34)	1.19	0.39
Has functional limitations	2.03	(1.13 - 3.67)	4.83*	(2.01 - 11.63)	1.41	0.30
Care is harder to get compared to three years ago among children ages 3 or older						
Needs services only	1.38	(0.87 - 2.20)	1.60	(0.76 - 3.37)	0.06	0.80
Needs Rx and services	1.16	(0.78 - 1.71)	1.14	(0.60 - 2.16)	-0.63	0.53
Has functional limitations	1.81*	(1.24 - 2.63)	2.68*	(1.46 - 4.94)	1.24	0.37

Note: *Models are adjusted for age, gender, race/ethnicity, household income (% of the FPL), health insurance, and general health status. This sample is limited to 0-17 year olds and data are weighted to be representative of the state of Ohio.*
[Δ]*For this analysis, children with special health care needs who only need prescriptions are used as a reference.*
[ϴ]*Only a subset of proxy respondents of children who needed help coordinating care were asked about care coordination.*
◊ *A two-sample Z-test is used to assess whether the odds ratios for each variable differ by year. Z-scores are only calculated for significant results.*
*Indicates a significant result (p<0.01)

Table A4.4 Characteristics associated with various barriers to care and unmet needs among children with special health care needs:
Adjusted odds ratios from the 2012 OMAS

	Has unmet prescription needs		Has unmet dental needs among children ages 3 or older		Has other unmet needs		Care is harder to get compared to three years ago among children ages 3 or older (vs. easier/same)	
	AOR	*95% CI*	*AOR*	*95% CI*	*AOR*	*95% CI*	*AOR*	*95% CI*
Age								
0-5	1.01	(0.45 - 2.30)	0.84	(0.32 - 2.19)	0.48	(0.19 - 1.22)	0.68	(0.32 - 1.44)
6-12	0.66	(0.36 - 1.22)	1.19	(0.67 - 2.12)	0.79	(0.46 - 1.36)	0.91	(0.58 - 1.43)
13-17		Reference		Reference		Reference		Reference
Gender								
Male		Reference		Reference		Reference		Reference
Female	1.44	(0.82 - 2.52)	1.49	(0.89 - 2.51)	1.55	(0.94 - 2.58)	1.07	(0.69 - 1.66)
Race/Ethnicity								
White		Reference		Reference		Reference		Reference
Black	1.59	(0.80 - 3.15)	1.00	(0.50 - 2.00)	1.27	(0.66 - 2.43)	0.45	(0.24 - 0.85)
Hispanic	1.03	(0.36 - 2.94)	0.77	(0.27 - 2.21)	1.04	(0.38 - 2.89)	0.71	(0.34 - 1.47)
Asian/Other	2.76	(0.53 - 14.29)	0.47	(0.18 - 1.23)	1.69	(0.21 - 13.83)	3.89	(1.33 - 11.35)
Health insurance								
Uninsured	7.27*	(2.83 - 18.67)	5.64*	(2.44 - 13.04)	7.30*	(3.16 - 16.87)	11.18*	(4.61 - 27.09)
Medicaid		Reference		Reference		Reference		Reference
Employer-sponsored	1.34	(0.70 - 2.56)	0.55	(0.24 - 1.25)	1.07	(0.54 - 2.11)	2.20*	(1.25 - 3.89)
Other[e]	0.29	(0.04 - 2.09)	2.49	(1.05 - 5.92)	2.89	(1.21 - 6.90)	2.83*	(1.30 - 6.20)
Family income (% of the FPL)								
≤ 200%	1.49	(0.81 - 2.77)	1.80	(0.87 - 3.72)	1.49	(0.79 - 2.80)	1.67	(0.99 - 2.84)
> 200%		Reference		Reference		Reference		Reference
General health status								
Fair/Poor		Reference		Reference		Reference		Reference
Good/Very Good/Excellent	0.66	(0.31 - 1.44)	0.33*	(0.18 - 0.60)	0.38*	(0.21 - 0.71)	0.87	(0.49 - 1.55)

Notes : Models are also adjusted for care consistent with a medical home and level of complexity of need. This sample includes all 0-18 year olds and are weighted to be representative of the state of Ohio.

*Indicates a significant result (p<0.01)