

MEDICAID BLOOD LEAD TESTING



Michigan Department of Health & Human Services

March 2016

Blood Lead Testing Methodology

- **Children must have been eligible for one of the following programs in March 2016**
 - Medicaid Managed Care (MC)
 - enrolled in a Medicaid Health Plan (MHP)
 - Medicaid Fee-for-Service (FFS)
 - enrolled for Medicaid Only FFS coverage
 - Medicaid and CSHCS Dual Eligible (Duals)
 - dually eligible for both Medicaid and CSHCS
- **Blood Lead testing results include children tested:**
 - on or before indicated birthday for 2 and 3 year olds
 - at any time between ages 1 to 6
- **Unique Client Identifier (UCI) used to establish link between Medicaid and lead databases.**

Blood Lead Testing Summary

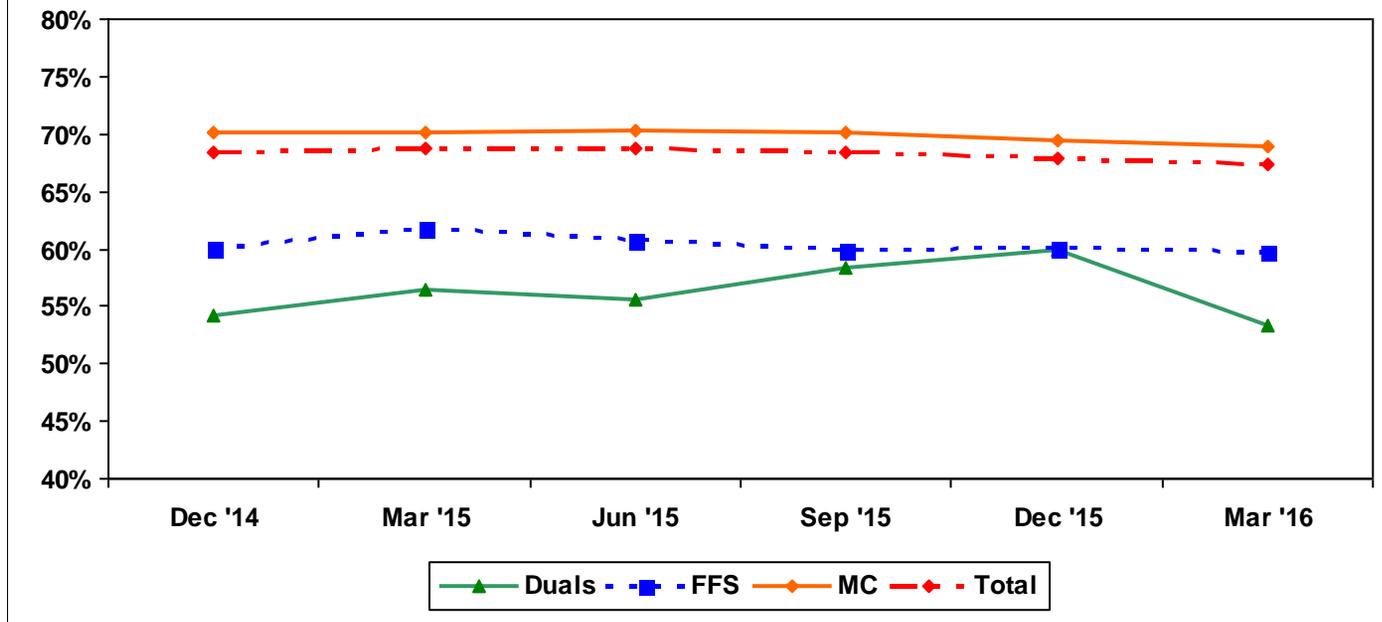
- **2 year old children tested on or before their 2nd birthday**

- 67% Statewide
- 63% City of Detroit
- 69% Statewide for Medicaid MC
 - 76% Statewide for Medicaid MC with 12-Month Continuous Enrollment
- 60% Statewide for Medicaid Only FFS Eligibles
- 53% Statewide for CSHCS Duals

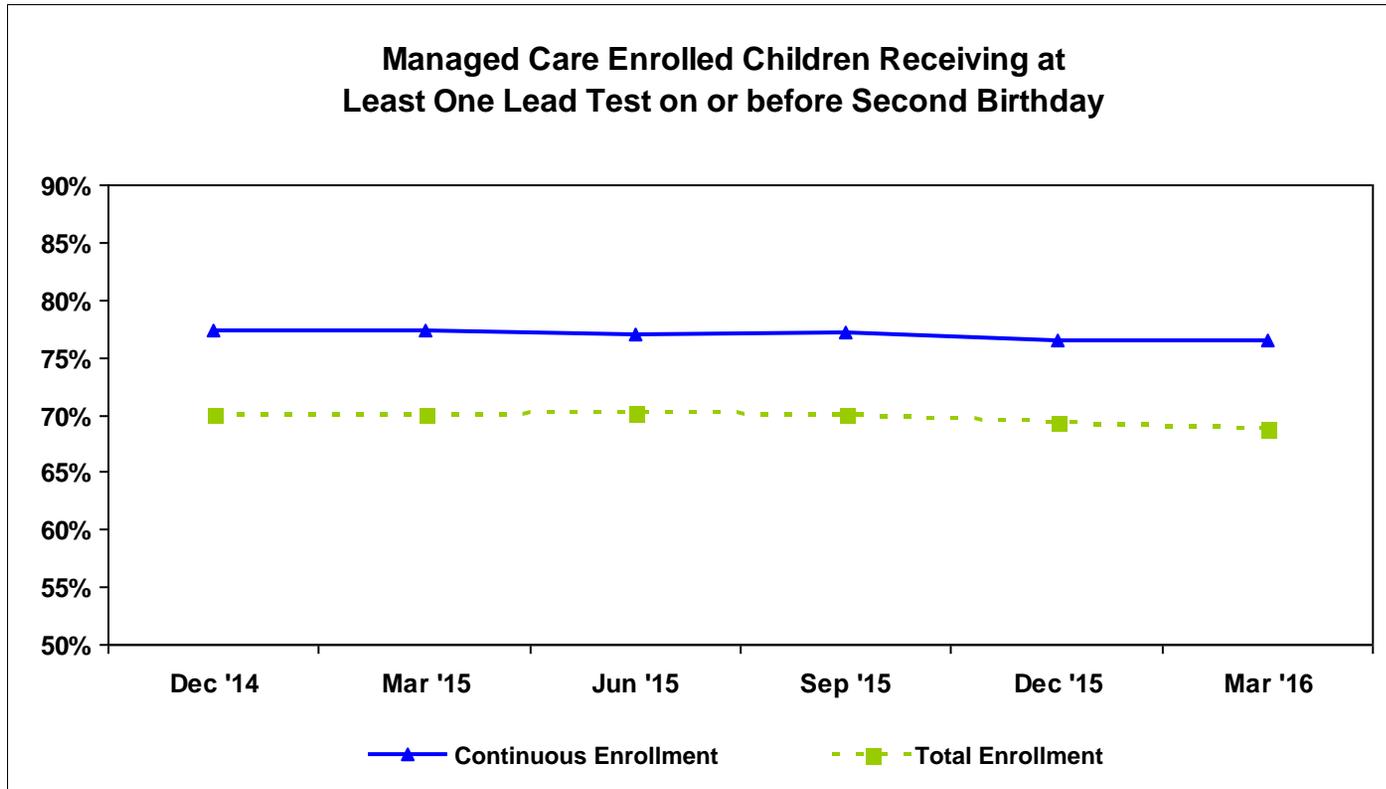
- **3 year old children tested on or before their 3rd birthday**

- 75% Statewide
- 76% City of Detroit
- 77% Statewide for Medicaid MC
 - 82% Statewide for Medicaid MC with 12-Month Continuous Enrollment
- 68% Statewide for Medicaid Only FFS Eligibles
- 66% Statewide for CSHCS Duals

Children Receiving at Least One Blood Lead Test on or before Second Birthday by Program Eligibility



Managed Care Enrolled Children Receiving at Least One Lead Test on or before Second Birthday



Total Enrollment

-Enrolled in measurement month

Continuous Enrollment

-Based on MMIS eligibility system

-Enrolled in same health plan for the measurement month and 12 months preceding 2nd birthday, with a 1-month allowable gap.

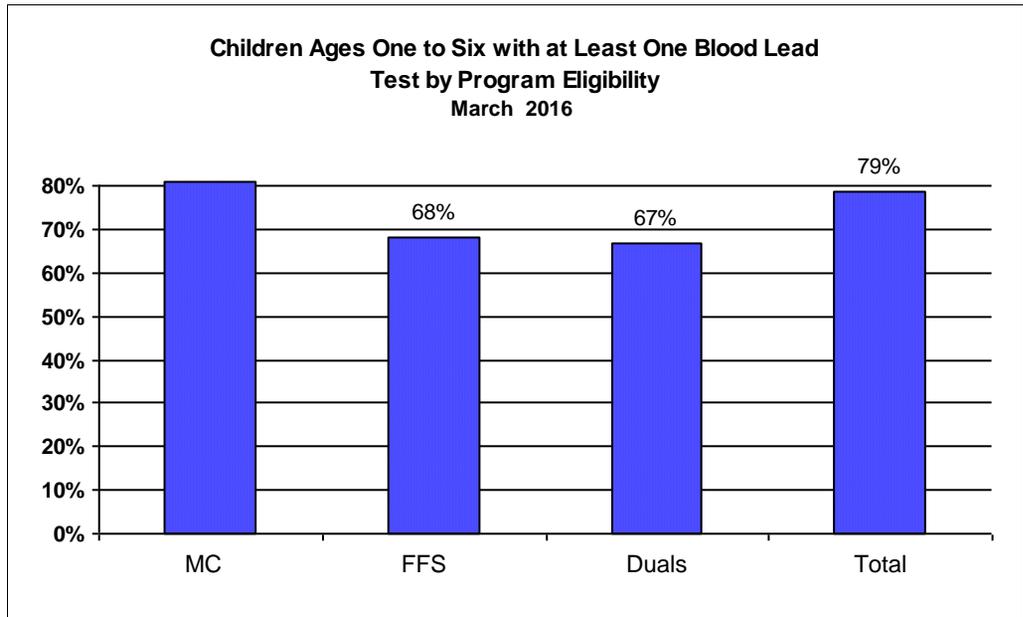
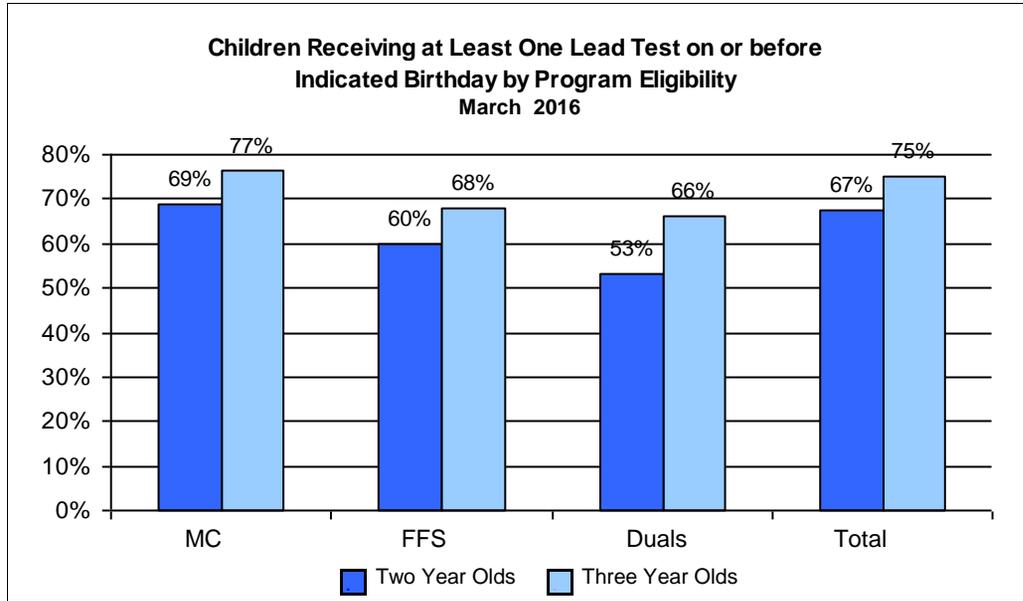


Table 1. Percent of Children with at Least One Blood Lead Test on or before their Second Birthday

Program	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
MC	70.1%	70.2%	70.4%	70.3%	70.2%	70.4%	70.1%	70.2%	70.0%	69.5%	69.3%	69.1%	69.0%
FFS	61.9%	61.2%	61.4%	60.7%	59.8%	58.8%	60.0%	60.4%	61.2%	60.1%	60.5%	59.5%	59.8%
Duals	56.4%	56.2%	56.8%	55.6%	56.8%	55.6%	58.4%	61.0%	60.4%	60.0%	56.9%	55.3%	53.4%
Total	68.7%	68.7%	68.8%	68.8%	68.6%	68.3%	68.4%	68.5%	68.4%	67.9%	67.9%	67.4%	67.3%

Table 2. Percent of Children with at Least One Blood Lead Test on or before their Third Birthday

Program	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
MC	77.0%	76.9%	76.9%	76.8%	76.8%	77.2%	77.2%	77.2%	77.3%	77.0%	76.8%	76.6%	76.6%
FFS	69.2%	68.4%	68.5%	68.5%	68.4%	67.1%	67.8%	68.1%	67.6%	67.8%	68.4%	67.1%	67.7%
Duals	66.7%	66.3%	66.9%	67.1%	63.4%	62.7%	66.0%	65.4%	66.5%	67.0%	65.3%	66.2%	66.2%
Total	75.7%	75.4%	75.5%	75.5%	75.5%	75.4%	75.5%	75.6%	75.5%	75.4%	75.4%	74.9%	75.0%

Table 3. Percent of Children Ages One to Six with at Least One Blood Lead Test

Program	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
MC	77.7%	77.7%	77.9%	77.9%	77.9%	79.1%	78.4%	78.5%	78.5%	79.0%	79.4%	80.3%	80.9%
FFS	68.4%	68.2%	68.5%	68.3%	67.5%	67.0%	67.2%	67.6%	67.6%	67.9%	67.8%	68.1%	68.1%
Duals	63.8%	64.6%	65.1%	64.2%	63.6%	65.2%	65.8%	66.8%	67.1%	67.0%	65.7%	65.7%	66.5%
Total	76.1%	76.1%	76.2%	76.4%	76.2%	76.8%	76.4%	76.4%	76.4%	77.0%	77.4%	78.0%	78.6%

Table 4. Statewide Blood Lead Testing of Two and Three Year Old Children for All Programs

March 2016

County	2 Years of Age			3 Years of Age		
	Eligibles	Eligibles with at least 1 test on or before their 2nd birthday	Percent of Eligibles with at least 1 test on or before their 2nd birthday	Eligibles	Eligibles with at least 1 test on or before their 3rd birthday	Percent of Eligibles with at least 1 test on or before their 3rd birthday
ALCONA	35	23	66%	37	23	62%
ALGER	32	28	88%	41	30	73%
ALLEGAN	571	365	64%	529	334	63%
ALPENA	158	122	77%	156	129	83%
ANTRIM	101	85	84%	97	79	81%
ARENAC	74	56	76%	67	54	81%
BARAGA	41	33	80%	49	40	82%
BARRY	235	164	70%	259	197	76%
BAY	541	439	81%	524	448	85%
BENZIE	76	63	83%	71	55	77%
BERRIEN	986	652	66%	1,041	739	71%
BRANCH	289	187	65%	272	197	72%
CALHOUN	954	645	68%	961	677	70%
CASS	283	153	54%	273	175	64%
CHARLEVOIX	115	86	75%	121	103	85%
CHEBOYGAN	135	92	68%	136	104	76%
CHIPPEWA	194	153	79%	170	140	82%
CLARE	185	151	82%	192	161	84%
CLINTON	231	159	69%	280	204	73%
CRAWFORD	71	48	68%	65	48	74%
DELTA	190	140	74%	188	160	85%
DICKINSON	155	115	74%	118	92	78%
EATON	475	311	65%	454	332	73%
EMMET	123	98	80%	152	123	81%
GENESEE	3,062	2,194	72%	2,851	2,302	81%
GLADWIN	128	97	76%	116	93	80%
GOGEBIC	74	47	64%	65	50	77%
GRAND TRAVERSE	377	247	66%	353	252	71%
GRATIOT	239	176	74%	251	202	80%
HILLSDALE	330	229	69%	267	220	82%
HOUGHTON	157	123	78%	185	154	83%
HURON	141	91	65%	113	85	75%
INGHAM	1,584	1,146	72%	1,571	1,238	79%
IONIA	331	228	69%	341	275	81%
IOSCO	141	86	61%	142	91	64%
IRON	65	50	77%	63	48	76%
ISABELLA	284	195	69%	265	206	78%
JACKSON	888	686	77%	865	736	85%
KALAMAZOO	1,372	1,052	77%	1,320	1,052	80%
KALKASKA	114	85	75%	118	96	81%
KENT	3,553	2,768	78%	3,621	3,016	83%
KEWEENAW	8	7	88%	7	4	57%

County	2 Years of Age			3 Years of Age		
	Eligibles	Eligibles with at least 1 test on or before their 2nd birthday	Percent of Eligibles with at least 1 test on or before their 2nd birthday	Eligibles	Eligibles with at least 1 test on or before their 3rd birthday	Percent of Eligibles with at least 1 test on or before their 3rd birthday
LAKE	79	60	76%	74	67	91%
LAPEER	402	246	61%	432	326	75%
LEELANAU	68	48	71%	52	34	65%
LENAWEE	543	310	57%	520	365	70%
LIVINGSTON	457	309	68%	461	317	69%
LUCE	34	25	74%	40	35	88%
MACKINAC	38	34	89%	40	38	95%
MACOMB	4,067	2,559	63%	3,889	2,690	69%
MANISTEE	93	84	90%	130	110	85%
MARQUETTE	264	174	66%	302	216	72%
MASON	153	129	84%	161	137	85%
MECOSTA	204	159	78%	209	150	72%
MENOMINEE	110	83	75%	109	76	70%
MIDLAND	348	155	45%	319	164	51%
MISSAUKEE	99	70	71%	94	74	79%
MONROE	581	390	67%	591	440	74%
MONTCALM	170	140	82%	395	297	75%
MONTMORENCY	37	25	68%	43	35	81%
MUSKEGON	1,284	743	58%	1,216	834	69%
NEWAYGO	296	210	71%	305	218	71%
OAKLAND	3,898	2,536	65%	3,856	2,731	71%
OCEANA	173	127	73%	205	172	84%
OGEMAW	135	69	51%	142	85	60%
ONTONAGON	12	9	75%	12	11	92%
OSCEOLA	161	120	75%	154	122	79%
OSCODA	43	23	53%	47	24	51%
OTSEGO	135	91	67%	145	104	72%
OTTAWA	999	612	61%	1,017	688	68%
PRESQUE ISLE	52	38	73%	49	41	84%
ROSCOMMON	110	76	69%	126	91	72%
SAGINAW	1,245	1,001	80%	1,297	1,143	88%
SAINT CLAIR	834	682	82%	816	696	85%
SAINT JOSEPH	462	310	67%	452	328	73%
SANILAC	185	136	74%	219	176	80%
SCHOOLCRAFT	32	28	88%	34	30	88%
SHIAWASSEE	374	304	81%	389	319	82%
TUSCOLA	286	229	80%	327	264	81%
VAN BUREN	498	268	54%	526	322	61%
WASHTENAW	1,079	639	59%	1,097	692	63%
DETROIT, CITY OF	7,193	4,530	63%	7,044	5,387	76%
WAYNE, ex Detroit	7,291	4,395	60%	6,999	4,973	71%
WEXFORD	272	213	78%	242	197	81%
MICHIGAN	54,092	36,399	67%	53,344	39,983	75%

Table 5. Statewide Blood Lead Testing of Two and Three Year Old Children Enrolled in Managed Care

March 2016

County	2 Years of Age			3 Years of Age		
	Eligibles	Eligibles with at least 1 test on or before their 2nd birthday	Percent of Eligibles with at least 1 test on or before their 2nd birthday	Eligibles	Eligibles with at least 1 test on or before their 3rd birthday	Percent of Eligibles with at least 1 test on or before their 3rd birthday
ALCONA	28	18	64%	28	19	68%
ALGER	28	25	89%	33	26	79%
ALLEGAN	438	291	66%	410	274	67%
ALPENA	132	107	81%	135	116	86%
ANTRIM	77	65	84%	76	64	84%
ARENAC	54	43	80%	57	48	84%
BARAGA	25	21	84%	28	23	82%
BARRY	183	134	73%	203	162	80%
BAY	454	379	83%	429	376	88%
BENZIE	56	45	80%	51	40	78%
BERRIEN	813	559	69%	855	624	73%
BRANCH	218	143	66%	215	162	75%
CALHOUN	762	523	69%	784	554	71%
CASS	217	114	53%	220	146	66%
CHARLEVOIX	87	68	78%	101	87	86%
CHEBOYGAN	106	76	72%	109	87	80%
CHIPPEWA	117	93	79%	96	74	77%
CLARE	147	121	82%	161	137	85%
CLINTON	187	131	70%	223	165	74%
CRAWFORD	60	43	72%	52	40	77%
DELTA	152	113	74%	165	143	87%
DICKINSON	125	95	76%	100	77	77%
EATON	383	266	69%	363	278	77%
EMMET	95	77	81%	113	89	79%
GENESEE	2,529	1,853	73%	2,352	1,925	82%
GLADWIN	111	84	76%	94	78	83%
GOGEBIC	63	41	65%	53	40	75%
GRAND TRAVERSE	265	178	67%	251	186	74%
GRATIOT	213	160	75%	209	174	83%
HILLSDALE	277	198	71%	216	185	86%
HOUGHTON	136	111	82%	158	134	85%
HURON	119	78	66%	88	66	75%
INGHAM	1,309	984	75%	1,276	1,034	81%
IONIA	244	168	69%	252	211	84%
IOSCO	110	72	65%	107	72	67%
IRON	60	46	77%	56	43	77%
ISABELLA	219	151	69%	225	177	79%
JACKSON	724	572	79%	717	613	85%
KALAMAZOO	1,115	879	79%	1,052	862	82%
KALKASKA	93	71	76%	98	80	82%
KENT	2,887	2,312	80%	2,856	2,430	85%
KEWEENAW	6	5	83%	4	2	50%

County	2 Years of Age			3 Years of Age		
	Eligibles	Eligibles with at least 1 test on or before their 2nd birthday	Percent of Eligibles with at least 1 test on or before their 2nd birthday	Eligibles	Eligibles with at least 1 test on or before their 3rd birthday	Percent of Eligibles with at least 1 test on or before their 3rd birthday
LAKE	69	54	78%	62	57	92%
LAPEER	334	208	62%	367	281	77%
LEELANAU	44	29	66%	21	15	71%
LENAWEE	445	248	56%	417	302	72%
LIVINGSTON	381	275	72%	376	261	69%
LUCE	27	21	78%	34	30	88%
MACKINAC	24	22	92%	23	22	96%
MACOMB	3,431	2,214	65%	3,254	2,313	71%
MANISTEE	57	52	91%	88	76	86%
MARQUETTE	224	152	68%	259	192	74%
MASON	121	105	87%	140	120	86%
MECOSTA	170	140	82%	173	125	72%
MENOMINEE	78	58	74%	80	52	65%
MIDLAND	290	132	46%	258	137	53%
MISSAUKEE	79	54	68%	79	63	80%
MONROE	471	326	69%	451	340	75%
MONTCALM	299	228	76%	313	244	78%
MONTMORENCY	27	20	74%	30	26	87%
MUSKEGON	1,018	583	57%	976	673	69%
NEWAYGO	252	178	71%	251	175	70%
OAKLAND	3,217	2,163	67%	3,184	2,319	73%
OCEANA	129	100	78%	159	134	84%
OGEAW	118	62	53%	113	72	64%
ONTONAGON	10	9	90%	9	8	89%
OSCEOLA	133	102	77%	128	110	86%
OSCODA	32	19	59%	37	18	49%
OTSEGO	111	79	71%	116	85	73%
OTTAWA	743	467	63%	738	506	69%
PRESQUE ISLE	45	33	73%	46	38	83%
ROSCOMMON	92	67	73%	99	73	74%
SAGINAW	1,072	875	82%	1,096	986	90%
SAINT CLAIR	719	603	84%	700	604	86%
SAINT JOSEPH	372	258	69%	363	274	75%
SANILAC	139	109	78%	176	145	82%
SCHOOLCRAFT	25	22	88%	29	26	90%
SHIAWASSEE	312	260	83%	333	276	83%
TUSCOLA	233	187	80%	260	218	84%
VAN BUREN	426	232	54%	429	269	63%
WASHTENAW	870	545	63%	891	583	65%
DETROIT, CITY OF	6,147	3,941	64%	6,031	4,671	77%
WAYNE, ex Detroit	6,084	3,772	62%	5,884	4,280	73%
WEXFORD	210	169	80%	184	153	83%
MICHIGAN	44,504	30,686	69%	43,728	33,475	77%

**Table 6. Statewide Blood Lead Testing of Two and Three Year Old Children Eligible for Medicaid Only Fee-for-Service Coverage
March 2016**

County	2 Years of Age			3 Years of Age		
	Eligibles	Eligibles with at least 1 test on or before their 2nd birthday	Percent of Eligibles with at least 1 test on or before their 2nd birthday	Eligibles	Eligibles with at least 1 test on or before their 3rd birthday	Percent of Eligibles with at least 1 test on or before their 3rd birthday
ALCONA	7	5	71%	8	4	50%
ALGER	4	3	75%	8	4	50%
ALLEGAN	123	70	57%	116	59	51%
ALPENA	25	14	56%	19	12	63%
ANTRIM	23	19	83%	21	15	71%
ARENAC	18	12	67%	10	6	60%
BARAGA	15	11	73%	19	15	79%
BARRY	51	29	57%	55	34	62%
BAY	86	60	70%	88	66	75%
BENZIE	20	18	90%	20	15	75%
BERRIEN	172	92	53%	182	112	62%
BRANCH	70	44	63%	57	35	61%
CALHOUN	182	115	63%	175	121	69%
CASS	63	37	59%	52	29	56%
CHARLEVOIX	26	17	65%	18	14	78%
CHEBOYGAN	29	16	55%	27	17	63%
CHIPPEWA	76	60	79%	72	64	89%
CLARE	35	28	80%	31	24	77%
CLINTON	44	28	64%	57	39	68%
CRAWFORD	11	5	45%	12	7	58%
DELTA	38	27	71%	23	17	74%
DICKINSON	30	20	67%	18	15	83%
EATON	89	44	49%	90	53	59%
EMMET	27	20	74%	38	33	87%
GENESEE	521	334	64%	493	372	75%
GLADWIN	17	13	76%	22	15	68%
GOGEBIC	11	6	55%	12	10	83%
GRAND TRAVERSE	108	67	62%	101	65	64%
GRATIOT	26	16	62%	40	27	68%
HILLSDALE	48	28	58%	48	33	69%
HOUGHTON	21	12	57%	27	20	74%
HURON	22	13	59%	24	18	75%
INGHAM	264	157	59%	288	199	69%
IONIA	84	58	69%	87	64	74%
IOSCO	31	14	45%	34	18	53%
IRON	5	4	80%	7	5	71%
ISABELLA	63	42	67%	39	29	74%
JACKSON	154	108	70%	140	117	84%
KALAMAZOO	251	170	68%	262	187	71%
KALKASKA	21	14	67%	20	16	80%
KENT	638	439	69%	736	565	77%
KEWEENAW	2	2	100%	3	2	67%

County	2 Years of Age			3 Years of Age		
	Eligibles	Eligibles with at least 1 test on or before their 2nd birthday	Percent of Eligibles with at least 1 test on or before their 2nd birthday	Eligibles	Eligibles with at least 1 test on or before their 3rd birthday	Percent of Eligibles with at least 1 test on or before their 3rd birthday
LAKE	8	4	50%	12	10	83%
LAPEER	66	36	55%	63	44	70%
LEELANAU	24	19	79%	31	19	61%
LENAWEE	98	62	63%	100	60	60%
LIVINGSTON	72	31	43%	79	51	65%
LUCE	7	4	57%	5	4	80%
MACKINAC	13	11	85%	15	15	100%
MACOMB	621	340	55%	621	366	59%
MANISTEE	35	31	89%	42	34	81%
MARQUETTE	39	22	56%	42	24	57%
MASON	32	24	75%	21	17	81%
MECOSTA	34	19	56%	36	25	69%
MENOMINEE	32	25	78%	29	24	83%
MIDLAND	54	21	39%	60	26	43%
MISSAUKEE	20	16	80%	14	10	71%
MONROE	109	63	58%	134	95	71%
MONTCALM	67	46	69%	79	50	63%
MONTMORENCY	10	5	50%	13	9	69%
MUSKEGON	255	151	59%	231	154	67%
NEWAYGO	43	31	72%	52	41	79%
OAKLAND	657	365	56%	649	399	61%
OCEANA	42	26	62%	46	38	83%
OGEMAW	16	7	44%	25	12	48%
ONTONAGON	2	0	0%	3	3	100%
OSCEOLA	28	18	64%	25	11	44%
OSCODA	11	4	36%	10	6	60%
OTSEGO	24	12	50%	28	19	68%
OTTAWA	246	140	57%	270	175	65%
PRESQUE ISLE	7	5	71%	2	2	100%
ROSCOMMON	18	9	50%	27	18	67%
SAGINAW	172	126	73%	193	150	78%
SAINT CLAIR	112	78	70%	114	91	80%
SAINT JOSEPH	88	51	58%	85	50	59%
SANILAC	44	26	59%	43	31	72%
SCHOOLCRAFT	7	6	86%	5	4	80%
SHIAWASSEE	60	43	72%	54	42	78%
TUSCOLA	50	40	80%	66	46	70%
VAN BUREN	69	35	51%	95	53	56%
WASHTENAW	202	91	45%	196	107	55%
DETROIT, CITY OF	1,030	579	56%	1,000	709	71%
WAYNE, ex Detroit	1,175	610	52%	1,085	677	62%
WEXFORD	59	41	69%	57	43	75%
MICHIGAN	9,309	5,564	60%	9,356	6,336	68%

**Table 7: Blood Lead Testing of Two Year Old Children by Length of Enrollment
March 2016**

Health Plan Name	Total Enrollment			Continuous Enrollment			
	Eligibles	Eligibles with at least 1 test on or before their 2nd birthday	Percent of Eligibles with at least 1 test on or before their 2nd birthday	Eligibles	Eligibles with at least 1 test on or before their 2nd birthday	Percent of Eligibles with at least 1 test on or before their 2nd birthday	Percentage Point Difference with Continuous Enrollment
Aetna Better Health of Michigan	1,147	749	65%	490	344	70%	5
Blue Cross Complete	2,829	1,777	63%	899	617	69%	6
Harbor Health Plan	189	105	56%	47	31	66%	10
McLaren Health Plan	5,057	3,691	73%	2,413	1,959	81%	8
Meridian Health Plan of Michigan	12,802	8,936	70%	6,022	4,702	78%	8
Midwest Health Plan	21	16	76%	9	7	78%	2
Molina Healthcare of Michigan	10,000	6,741	67%	3,109	2,228	72%	4
Priority Health Govt Pgms	2,998	2,195	73%	1,267	1,046	83%	9
Total Health Care	1,462	904	62%	741	506	68%	6
United Healthcare Community Plan	6,937	4,756	69%	3,575	2,701	76%	7
Upper Peninsula Health Plan	1,104	835	76%	568	497	88%	12
Managed Care Totals/Percent	44,546	30,705	69%	19,140	14,638	76%	7
Current Performance Monitoring Standard	N/A			80%			
FFS (Title XIX only)	9,350	5,581	60%	1,258	798	63%	3
FFS (Title V/XIX)	279	149	53%	117	61	52%	-1
FFS Totals (Title XIX & V/XIX)	9,629	5,730	60%	1,375	859	62%	2

Total Enrollment

- Based on MMIS eligibility system
- Enrolled in plan (health plan or FFS) for the measurement month

Continuous Enrollment

- Based on MMIS eligibility system
- Enrolled in same plan (health plan or FFS) for the measurement month and 12 months preceding 2nd birthday, with 1-month allowable gap

**Table 8. Blood Lead Testing of Three Year Old Children by Length of Enrollment
March 2016**

Health Plan Name	Total Enrollment			Continuous Enrollment			
	Eligibles	Eligibles with at least 1 test on or before their 3rd birthday	Percent of Eligibles with at least 1 test on or before their 3rd birthday	Eligibles	Eligibles with at least 1 test on or before their 3rd birthday	Percent of Eligibles with at least 1 test on or before their 3rd birthday	Percentage Point Difference with Continuous Enrollment
Aetna Better Health of Michigan	1,205	926	77%	607	513	85%	8
Blue Cross Complete	2,519	1,781	71%	762	569	75%	4
Harbor Health Plan	135	92	68%	48	34	71%	3
McLaren Health Plan	4,732	3,826	81%	2,383	2,093	88%	7
Meridian Health Plan of Michigan	12,500	9,590	77%	6,404	5,345	83%	6
Midwest Health Plan	24	17	71%	5	5	100%	29
Molina Healthcare of Michigan	10,159	7,826	77%	3,550	2,827	80%	3
Priority Health Govt Pgms	2,921	2,264	78%	1,302	1,087	83%	5
Total Health Care	1,355	940	69%	761	564	74%	5
United Healthcare Community Plan	7,089	5,343	75%	4,069	3,269	80%	5
Upper Peninsula Health Plan	1,127	891	79%	617	544	88%	9
Managed Care Totals/Percent	43,766	33,496	77%	20,508	16,850	82%	5
FFS (Title XIX only)	9,388	6,354	68%	1,512	1,090	72%	4
FFS (Title V/XIX)	260	172	66%	120	71	59%	-7
FFS Totals (Title XIX & V/XIX)	9,648	6,526	68%	1,632	1,161	71%	3

Total Enrollment

- Based on MMIS eligibility system
- Enrolled in plan (health plan or FFS) for the measurement month

Continuous Enrollment

- Based on MMIS eligibility system
- Enrolled in same plan (health plan or FFS) for the measurement month and 12 months preceding 3rd birthday, with 1-month allowable gap