

# Michigan Oral Health Care 2017 Medicaid Rates by County



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## **Purpose:**

The purpose of this document is to show geographically where the burden of oral health care use is among Medicaid enrollees in Michigan. This report includes maps of each oral health indicator the state monitors for trends. More information and data on oral health can be found at [www.Michigan.gov/oralhealth](http://www.Michigan.gov/oralhealth).

The maps were prepared by the Michigan Department of Health and Human Services, Lifecourse Epidemiology and Genomics Division with source data from the Michigan Medicaid Data Warehouse. The Medicaid population was restricted to those with three or more months of Medicaid dental insurance in calendar year 2017. The counts are summarized by the members' most recent county in the eligible months table for 2017 and age group as of December 31, 2017.

## **Oral Health Indicators and their Definitions:**

### **1+ Dental Service (%):**

The proportion of enrollees in Medicaid (ages 0-18 or 19-64 years) with one or more dental visits. A dental visit was counted if they had a service date with a dental procedure code (ie. DXXXX). The dental visit could have occurred in a medical or dental office.

### **2+ Dental Services (%):**

The proportion of enrollees in Medicaid (ages 0-18 or 19-64 years) with two or more dental visits. A dental visit was counted if they had a service date with a dental procedure code (ie. DXXXX). The dental visit could have occurred in a medical or dental office.

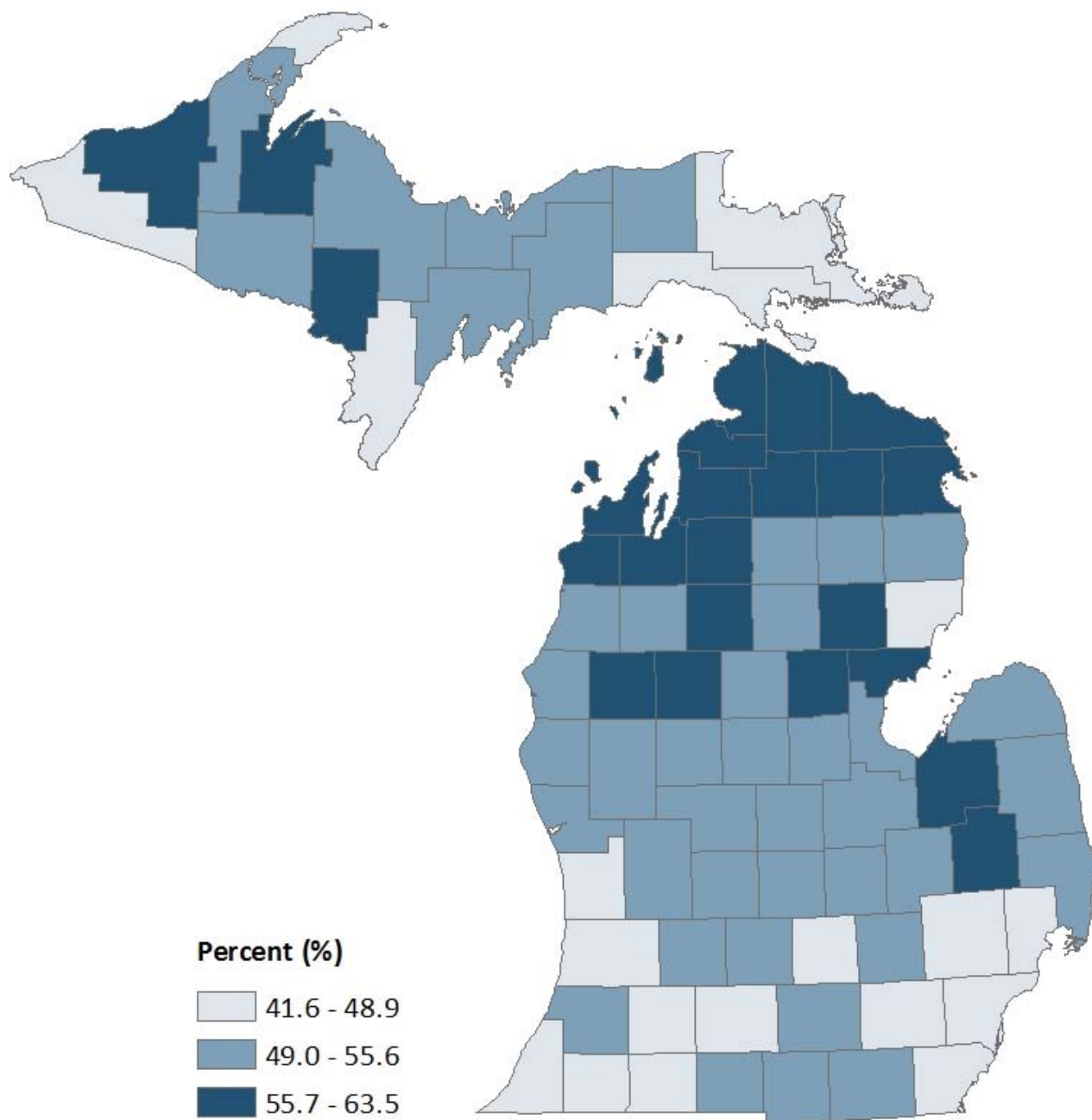
### **1+ Preventive Dental Service (%):**

The proportion of enrollees in Medicaid (ages 0-18 or 19-64 years) with one or more preventive dental visits. A dental visit was counted as preventive if they had a service date with one of the following dental procedure codes: D1120, D1110, D1206, D1208, D1351 or D1354. The dental visit could have occurred in a medical or dental office.

# Map of Michigan with County Names



# 1+ Dental Service, 0-18 Years

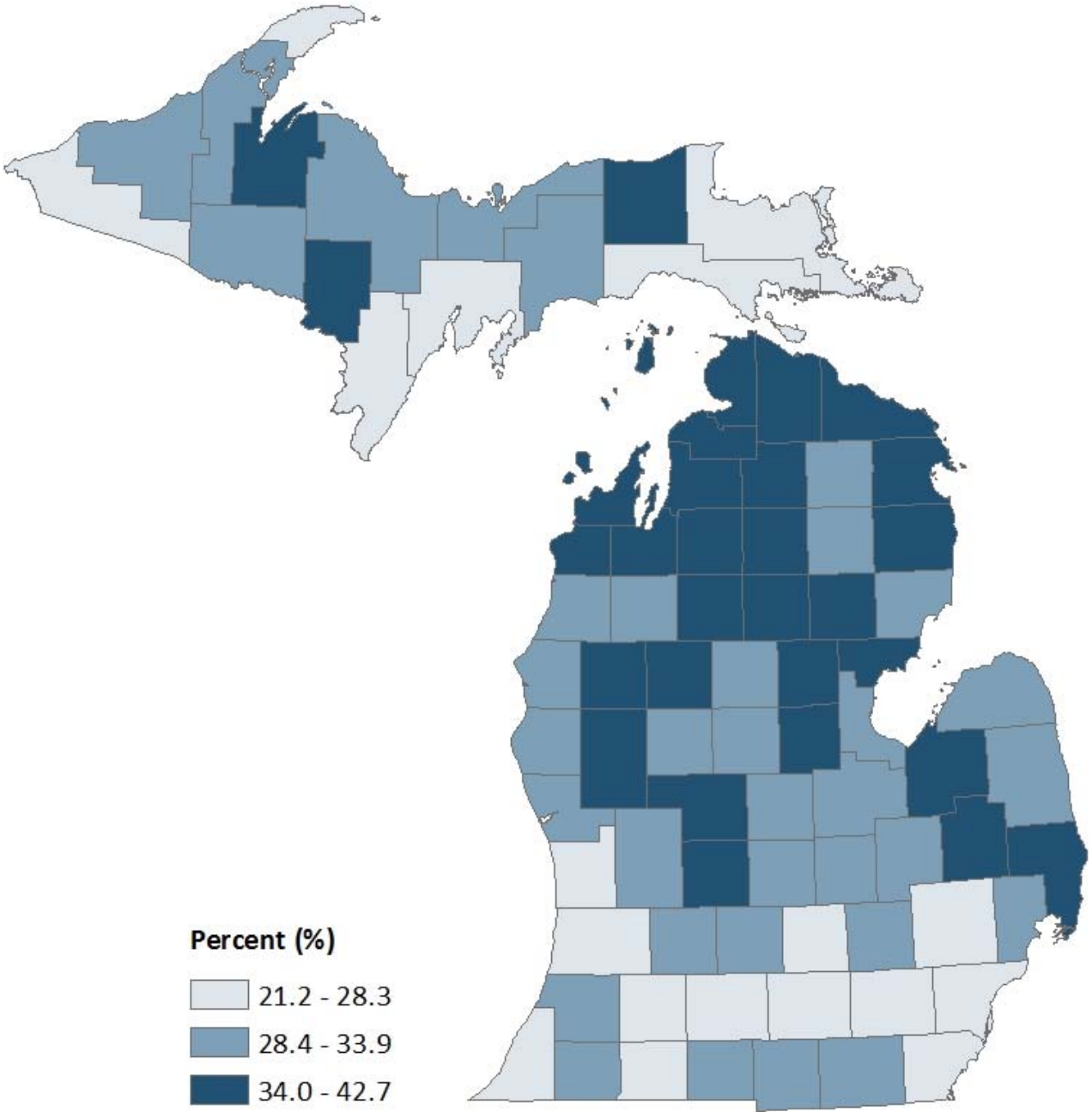


Data Notes: Prepared by the Michigan Department of Health and Human Services, Lifecourse Epidemiology and Genomics Division with source data from the Michigan Medicaid Data Warehouse, 2017. Medicaid population is restricted to those with three or more months of Medicaid dental insurance. A dental visit could have occurred in a medical or dental office.

# 1+ Dental Services 0-18 Years

| County         | Percent (%) | County                   | Percent (%) |
|----------------|-------------|--------------------------|-------------|
| Alcona         | 55.3        | Lake                     | 56.8        |
| Alger          | 54.9        | Lapeer                   | 56.5        |
| Allegan        | 48.2        | Leelanau                 | 55.8        |
| Alpena         | 57.9        | Lenawee                  | 51.6        |
| Antrim         | 63.5        | Livingston               | 52.0        |
| Arenac         | 55.8        | Luce                     | 54.9        |
| Baraga         | 59.5        | Mackinac                 | 41.6        |
| Barry          | 49.3        | Macomb                   | 48.5        |
| Bay            | 52.9        | Manistee                 | 50.3        |
| Benzie         | 59.0        | Marquette                | 52.3        |
| Berrien        | 46.0        | Mason                    | 51.3        |
| Branch         | 52.8        | Mecosta                  | 51.9        |
| Calhoun        | 47.3        | Menominee                | 41.8        |
| Cass           | 47.4        | Midland                  | 55.1        |
| Charlevoix     | 63.3        | Missaukee                | 60.0        |
| Cheboygan      | 63.2        | Monroe                   | 43.9        |
| Chippewa       | 43.5        | Montcalm                 | 54.7        |
| Clare          | 53.3        | Montmorency              | 58.0        |
| Clinton        | 51.9        | Muskegon                 | 50.3        |
| Crawford       | 55.6        | Newaygo                  | 54.7        |
| Delta          | 52.4        | Oakland                  | 47.5        |
| Dickinson      | 58.5        | Oceana                   | 53.2        |
| Eaton          | 49.9        | Ogemaw                   | 56.6        |
| Emmet          | 58.0        | Ontonagon                | 58.3        |
| Genesee        | 54.3        | Osceola                  | 56.2        |
| Gladwin        | 56.8        | Oscoda                   | 51.4        |
| Gogebic        | 48.5        | Otsego                   | 58.5        |
| Grand Traverse | 58.5        | Ottawa                   | 47.3        |
| Gratiot        | 53.5        | Presque Isle             | 60.2        |
| Hillsdale      | 51.5        | Roscommon                | 55.3        |
| Houghton       | 54.1        | Saginaw                  | 51.9        |
| Huron          | 53.1        | Sanilac                  | 53.7        |
| Ingham         | 46.5        | Schoolcraft              | 48.6        |
| Ionia          | 54.1        | Shiawassee               | 52.6        |
| Iosco          | 46.9        | St. Clair                | 52.1        |
| Iron           | 51.5        | St. Joseph               | 50.3        |
| Isabella       | 50.4        | Tuscola                  | 56.6        |
| Jackson        | 49.1        | Van Buren                | 49.8        |
| Kalamazoo      | 44.3        | Washtenaw                | 48.5        |
| Kalkaska       | 60.7        | Wayne                    | 45.0        |
| Kent           | 50.7        | Wexford                  | 54.1        |
| Keweenaw       | 48.6        | <b>State of Michigan</b> | 48.9        |

# 2+ Dental Services, 0-18 Years



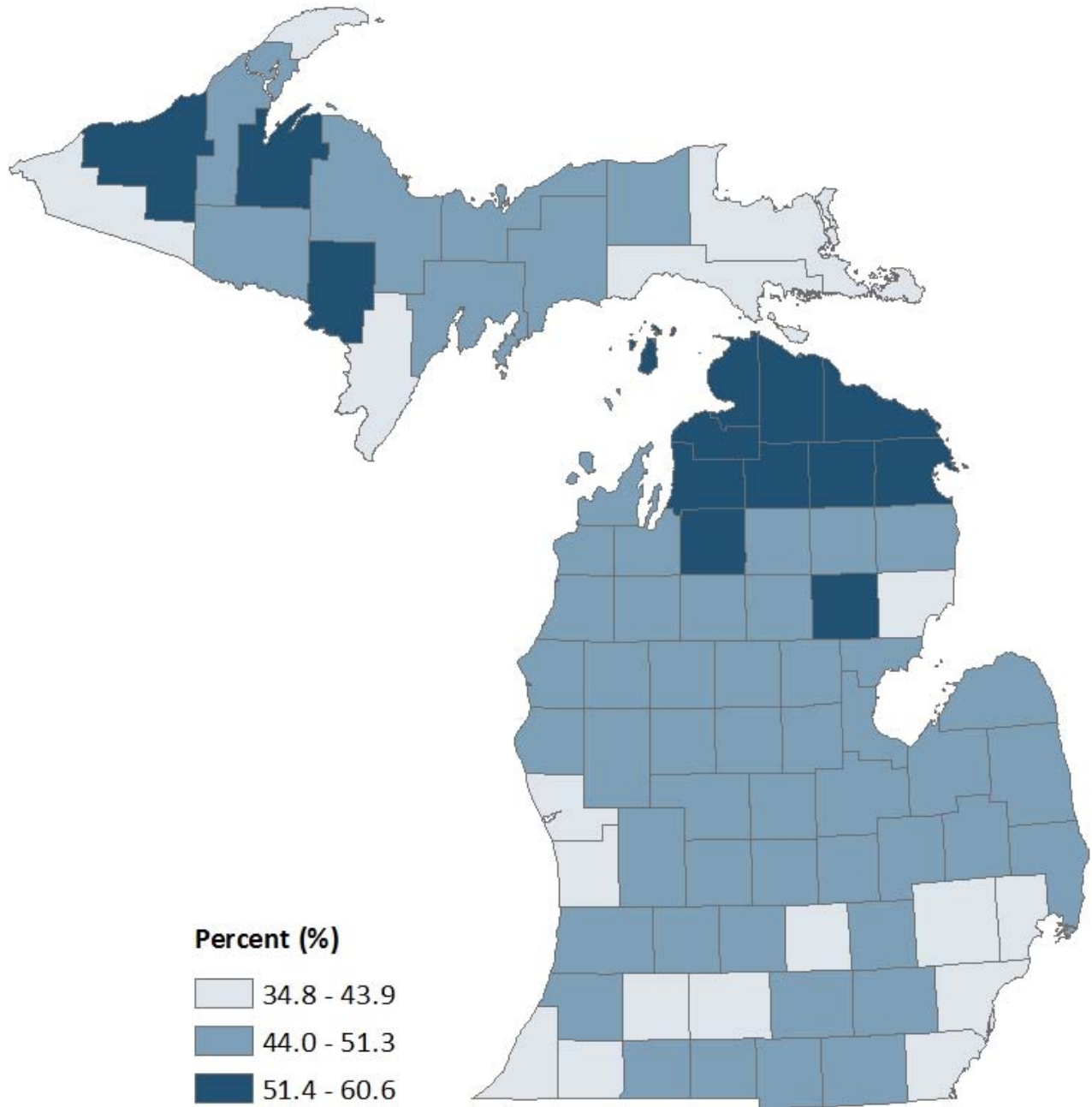
Data Notes: Prepared by the Michigan Department of Health and Human Services, Lifecourse Epidemiology and Genomics Division with source data from the Michigan Medicaid Data Warehouse, 2017. Medicaid population is restricted to those with three or more months of Medicaid dental insurance. A dental visit could have occurred in a medical or dental office.

# 2+ Dental Services 0-18 Years

| County         | Percent (%) | County                   | Percent (%) |
|----------------|-------------|--------------------------|-------------|
| Alcona         | 34.7        | Lake                     | 37.9        |
| Alger          | 32.7        | Lapeer                   | 35.9        |
| Allegan        | 27.0        | Leelanau                 | 34.4        |
| Alpena         | 38.5        | Lenawee                  | 30.9        |
| Antrim         | 42.7        | Livingston               | 32.3        |
| Arenac         | 35.1        | Luce                     | 35.5        |
| Baraga         | 38.5        | Mackinac                 | 24.0        |
| Barry          | 31.9        | Macomb                   | 28.5        |
| Bay            | 33.3        | Manistee                 | 29.6        |
| Benzie         | 37.8        | Marquette                | 30.4        |
| Berrien        | 24.7        | Mason                    | 30.3        |
| Branch         | 33.9        | Mecosta                  | 31.1        |
| Calhoun        | 24.0        | Menominee                | 21.2        |
| Cass           | 29.5        | Midland                  | 35.5        |
| Charlevoix     | 40.9        | Missaukee                | 39.2        |
| Cheboygan      | 40.4        | Monroe                   | 25.1        |
| Chippewa       | 21.7        | Montcalm                 | 35.0        |
| Clare          | 31.5        | Montmorency              | 33.6        |
| Clinton        | 30.5        | Muskegon                 | 31.1        |
| Crawford       | 35.1        | Newaygo                  | 36.3        |
| Delta          | 27.9        | Oakland                  | 27.3        |
| Dickinson      | 38.3        | Oceana                   | 32.7        |
| Eaton          | 29.6        | Ogemaw                   | 37.9        |
| Emmet          | 38.4        | Ontonagon                | 31.6        |
| Genesee        | 31.5        | Osceola                  | 34.5        |
| Gladwin        | 38.0        | Oscoda                   | 31.6        |
| Gogebic        | 26.8        | Otsego                   | 37.3        |
| Grand Traverse | 37.0        | Ottawa                   | 27.2        |
| Gratiot        | 32.9        | Presque Isle             | 35.5        |
| Hillsdale      | 28.4        | Roscommon                | 35.2        |
| Houghton       | 32.9        | Saginaw                  | 30.9        |
| Huron          | 33.9        | Sanilac                  | 35.6        |
| Ingham         | 25.9        | Schoolcraft              | 24.0        |
| Ionia          | 35.3        | Shiawassee               | 32.8        |
| Iosco          | 30.0        | St. Clair                | 32.8        |
| Iron           | 29.8        | St. Joseph               | 30.5        |
| Isabella       | 31.3        | Tuscola                  | 37.2        |
| Jackson        | 24.8        | Van Buren                | 29.8        |
| Kalamazoo      | 23.5        | Washtenaw                | 28.2        |
| Kalkaska       | 38.7        | Wayne                    | 23.8        |
| Kent           | 31.9        | Wexford                  | 33.3        |
| Keweenaw       | 25.7        | <b>State of Michigan</b> | 28.3        |



# 1+ Preventive Dental Service, 0-18 Years

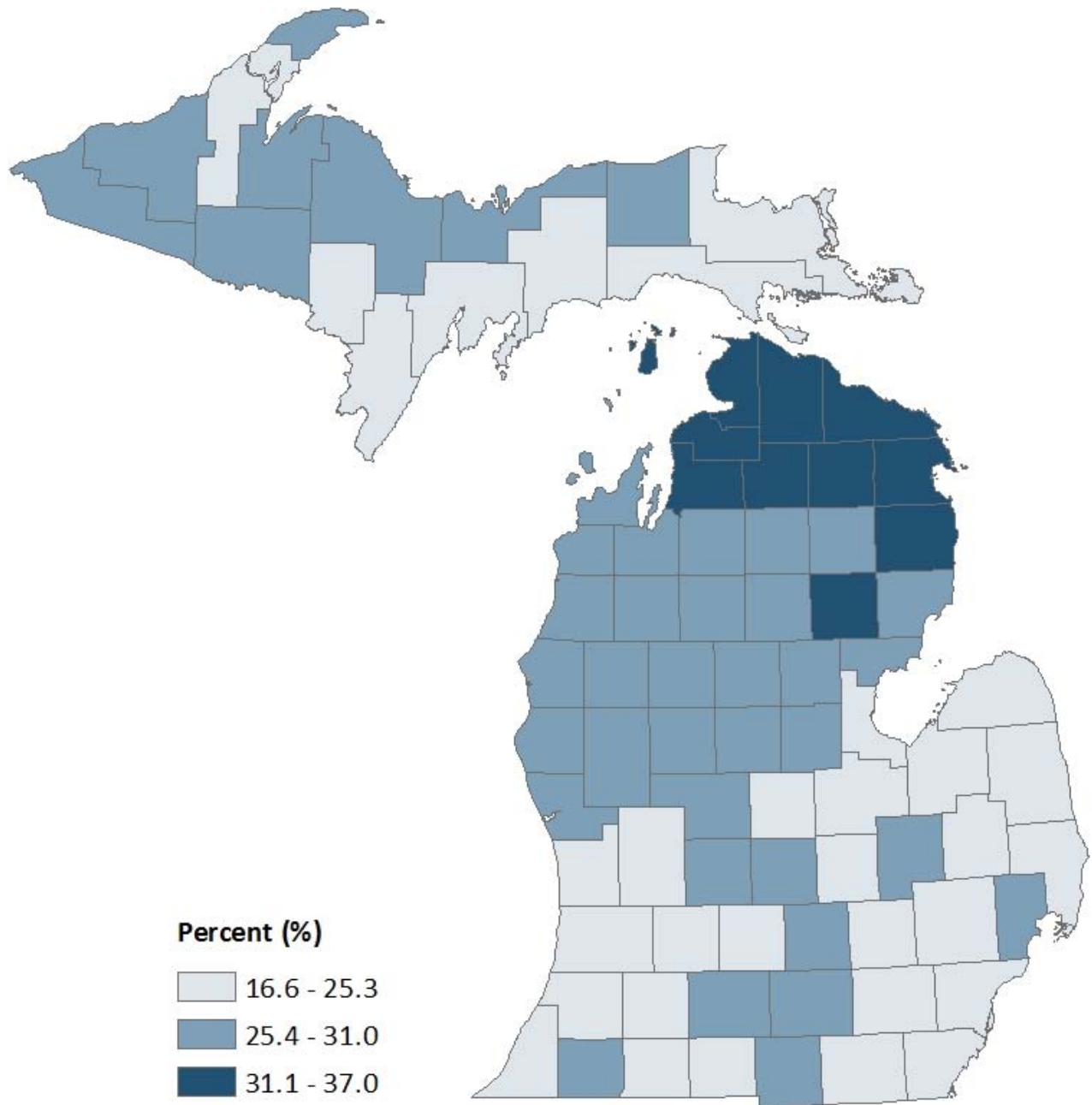


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# 1+ Preventive Dental Services, 0-18 Years

| County         | Percent (%) | County                   | Percent (%) |
|----------------|-------------|--------------------------|-------------|
| Alcona         | 50.6        | Lake                     | 51.3        |
| Alger          | 48.9        | Lapeer                   | 48.2        |
| Allegan        | 44.3        | Leelanau                 | 45.7        |
| Alpena         | 53.2        | Lenawee                  | 47.9        |
| Antrim         | 59.0        | Livingston               | 47.9        |
| Arenac         | 50.4        | Luce                     | 48.7        |
| Baraga         | 53.6        | Mackinac                 | 36.2        |
| Barry          | 45.1        | Macomb                   | 43.8        |
| Bay            | 45.3        | Manistee                 | 46.4        |
| Benzie         | 49.1        | Marquette                | 47.0        |
| Berrien        | 41.9        | Mason                    | 48.3        |
| Branch         | 48.2        | Mecosta                  | 48.7        |
| Calhoun        | 42.0        | Menominee                | 34.8        |
| Cass           | 43.5        | Midland                  | 48.0        |
| Charlevoix     | 60.6        | Missaukee                | 50.6        |
| Cheboygan      | 60.1        | Monroe                   | 39.4        |
| Chippewa       | 37.6        | Montcalm                 | 51.0        |
| Clare          | 47.9        | Montmorency              | 54.4        |
| Clinton        | 47.3        | Muskegon                 | 43.5        |
| Crawford       | 51.0        | Newaygo                  | 50.9        |
| Delta          | 45.1        | Oakland                  | 42.7        |
| Dickinson      | 55.1        | Oceana                   | 49.7        |
| Eaton          | 45.4        | Ogemaw                   | 52.7        |
| Emmet          | 54.9        | Ontonagon                | 52.0        |
| Genesee        | 49.0        | Osceola                  | 49.2        |
| Gladwin        | 50.6        | Oscoda                   | 46.2        |
| Gogebic        | 41.1        | Otsego                   | 55.3        |
| Grand Traverse | 47.2        | Ottawa                   | 43.1        |
| Gratiot        | 48.5        | Presque Isle             | 56.6        |
| Hillsdale      | 46.2        | Roscommon                | 49.6        |
| Houghton       | 46.0        | Saginaw                  | 45.3        |
| Huron          | 47.5        | Sanilac                  | 48.4        |
| Ingham         | 41.5        | Schoolcraft              | 44.6        |
| Ionia          | 48.3        | Shiawassee               | 47.9        |
| Iosco          | 41.2        | St. Clair                | 48.6        |
| Iron           | 47.8        | St. Joseph               | 46.2        |
| Isabella       | 45.1        | Tuscola                  | 49.3        |
| Jackson        | 44.6        | Van Buren                | 46.0        |
| Kalamazoo      | 39.6        | Washtenaw                | 44.9        |
| Kalkaska       | 53.9        | Wayne                    | 40.2        |
| Kent           | 44.6        | Wexford                  | 44.9        |
| Keweenaw       | 41.7        | <b>State of Michigan</b> | 43.9        |

# 1+ Dental Service, 19-64 Years



Data Notes: Prepared by the Michigan Department of Health and Human Services, Lifecourse Epidemiology and Genomics Division with source data from the Michigan Medicaid Data Warehouse, 2017. Medicaid population is restricted to those with three or more months of Medicaid dental insurance. A dental visit could have occurred in a medical or dental office.

# 1+ Dental Services, 19-64 Years

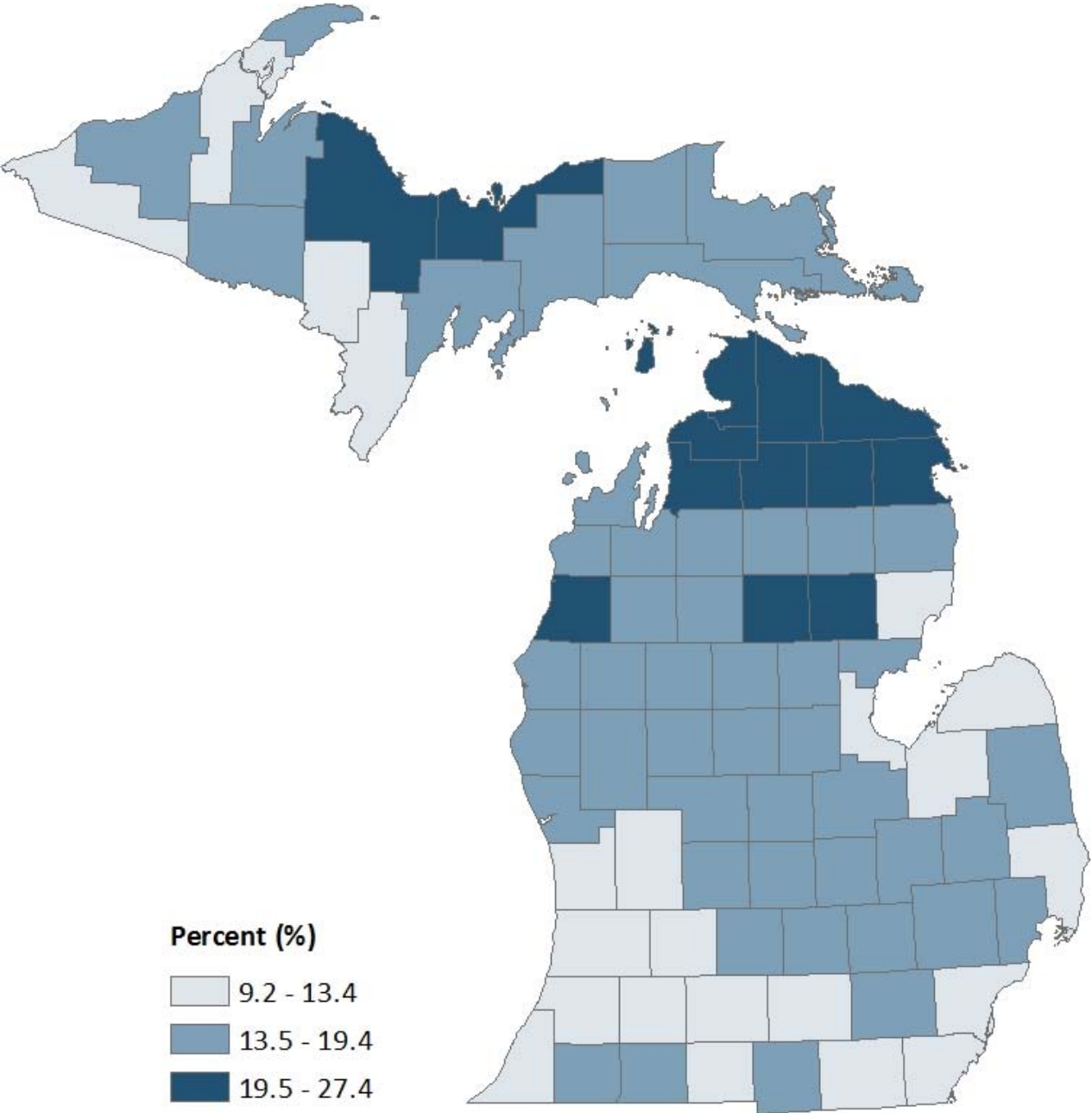
| County         | Percent (%) | County                   | Percent (%) |
|----------------|-------------|--------------------------|-------------|
| Alcona         | 31.8        | Lake                     | 29.3        |
| Alger          | 31.0        | Lapeer                   | 25.2        |
| Allegan        | 24.4        | Leelanau                 | 28.2        |
| Alpena         | 37.0        | Lenawee                  | 21.1        |
| Antrim         | 35.2        | Livingston               | 22.5        |
| Arenac         | 28.0        | Luce                     | 26.1        |
| Baraga         | 29.6        | Mackinac                 | 23.2        |
| Barry          | 19.1        | Macomb                   | 28.8        |
| Bay            | 25.1        | Manistee                 | 30.8        |
| Benzie         | 30.6        | Marquette                | 28.8        |
| Berrien        | 24.0        | Mason                    | 28.3        |
| Branch         | 23.4        | Mecosta                  | 27.5        |
| Calhoun        | 26.5        | Menominee                | 19.8        |
| Cass           | 28.5        | Midland                  | 27.7        |
| Charlevoix     | 34.7        | Missaukee                | 27.0        |
| Cheboygan      | 36.7        | Monroe                   | 24.9        |
| Chippewa       | 24.9        | Montcalm                 | 27.9        |
| Clare          | 29.7        | Montmorency              | 35.7        |
| Clinton        | 25.9        | Muskegon                 | 27.1        |
| Crawford       | 25.5        | Newaygo                  | 26.7        |
| Delta          | 22.7        | Oakland                  | 25.2        |
| Dickinson      | 16.6        | Oceana                   | 27.2        |
| Eaton          | 25.3        | Ogemaw                   | 34.7        |
| Emmet          | 33.0        | Ontonagon                | 30.5        |
| Genesee        | 28.0        | Osceola                  | 26.8        |
| Gladwin        | 28.3        | Oscoda                   | 30.6        |
| Gogebic        | 27.9        | Otsego                   | 32.4        |
| Grand Traverse | 28.4        | Ottawa                   | 21.7        |
| Gratiot        | 25.1        | Presque Isle             | 35.6        |
| Hillsdale      | 26.5        | Roscommon                | 30.7        |
| Houghton       | 23.9        | Saginaw                  | 25.1        |
| Huron          | 24.0        | Sanilac                  | 20.4        |
| Ingham         | 25.9        | Schoolcraft              | 24.6        |
| Ionia          | 25.9        | Shiawassee               | 24.6        |
| Iosco          | 25.4        | St. Clair                | 23.9        |
| Iron           | 27.8        | St. Joseph               | 24.5        |
| Isabella       | 27.5        | Tuscola                  | 21.7        |
| Jackson        | 26.3        | Van Buren                | 23.7        |
| Kalamazoo      | 22.8        | Washtenaw                | 24.6        |
| Kalkaska       | 29.1        | Wayne                    | 23.9        |
| Kent           | 22.2        | Wexford                  | 27.8        |
| Keweenaw       | 29.8        | <b>State of Michigan</b> | 25.3        |



# 2+ Dental Services, 19-64 Years

| County         | Percent (%) | County                   | Percent (%) |
|----------------|-------------|--------------------------|-------------|
| Alcona         | 21.1        | Lake                     | 18.6        |
| Alger          | 22.1        | Lapeer                   | 16.1        |
| Allegan        | 15.2        | Leelanau                 | 17.7        |
| Alpena         | 26.2        | Lenawee                  | 13.6        |
| Antrim         | 24.8        | Livingston               | 13.8        |
| Arenac         | 20.1        | Luce                     | 17.2        |
| Baraga         | 18.3        | Mackinac                 | 14.8        |
| Barry          | 11.7        | Macomb                   | 17.4        |
| Bay            | 15.9        | Manistee                 | 20.3        |
| Benzie         | 20.2        | Marquette                | 18.9        |
| Berrien        | 15.5        | Mason                    | 18.0        |
| Branch         | 15.3        | Mecosta                  | 17.7        |
| Calhoun        | 16.4        | Menominee                | 13.2        |
| Cass           | 19.9        | Midland                  | 18.2        |
| Charlevoix     | 24.9        | Missaukee                | 16.0        |
| Cheboygan      | 25.9        | Monroe                   | 16.2        |
| Chippewa       | 14.2        | Montcalm                 | 18.6        |
| Clare          | 18.8        | Montmorency              | 22.4        |
| Clinton        | 16.6        | Muskegon                 | 17.3        |
| Crawford       | 15.9        | Newaygo                  | 17.2        |
| Delta          | 15.3        | Oakland                  | 15.3        |
| Dickinson      | 10.5        | Oceana                   | 16.8        |
| Eaton          | 16.1        | Ogemaw                   | 26.6        |
| Emmet          | 22.6        | Ontonagon                | 19.7        |
| Genesee        | 16.2        | Osceola                  | 16.7        |
| Gladwin        | 19.1        | Oscoda                   | 20.3        |
| Gogebic        | 17.7        | Otsego                   | 21.2        |
| Grand Traverse | 18.6        | Ottawa                   | 12.7        |
| Gratiot        | 15.7        | Presque Isle             | 22.5        |
| Hillsdale      | 17.8        | Roscommon                | 20.9        |
| Houghton       | 14.3        | Saginaw                  | 15.1        |
| Huron          | 15.0        | Sanilac                  | 13.6        |
| Ingham         | 16.1        | Schoolcraft              | 15.5        |
| Ionia          | 17.9        | Shiawassee               | 15.9        |
| Iosco          | 17.8        | St. Clair                | 15.2        |
| Iron           | 19.0        | St. Joseph               | 16.6        |
| Isabella       | 17.4        | Tuscola                  | 13.5        |
| Jackson        | 16.1        | Van Buren                | 14.9        |
| Kalamazoo      | 14.5        | Washtenaw                | 15.3        |
| Kalkaska       | 19.9        | Wayne                    | 13.7        |
| Kent           | 13.8        | Wexford                  | 17.7        |
| Keweenaw       | 17.9        | <b>State of Michigan</b> | 15.5        |

# 1+ Preventive Dental Service, 19-64 Years



Data Notes: Prepared by the Michigan Department of Health and Human Services, Lifecourse Epidemiology and Genomics Division with source data from the Michigan Medicaid Data Warehouse, 2017. Medicaid population is restricted to those with three or more months of Medicaid dental insurance. A dental visit could have occurred in a medical or dental office.

# 1+ Preventive Dental Service, 19-64 Years

| County         | Percent (%) | County                   | Percent (%) |
|----------------|-------------|--------------------------|-------------|
| Alcona         | 18.6        | Lake                     | 17.1        |
| Alger          | 22.7        | Lapeer                   | 14.9        |
| Allegan        | 12.9        | Leelanau                 | 19.4        |
| Alpena         | 23.8        | Lenawee                  | 9.2         |
| Antrim         | 25.5        | Livingston               | 13.5        |
| Arenac         | 16.3        | Luce                     | 15.7        |
| Baraga         | 15.8        | Mackinac                 | 13.7        |
| Barry          | 9.6         | Macomb                   | 15.7        |
| Bay            | 13.0        | Manistee                 | 20.1        |
| Benzie         | 18.0        | Marquette                | 20.4        |
| Berrien        | 11.7        | Mason                    | 18.8        |
| Branch         | 13.3        | Mecosta                  | 17.4        |
| Calhoun        | 12.2        | Menominee                | 12.5        |
| Cass           | 15.8        | Midland                  | 17.6        |
| Charlevoix     | 25.7        | Missaukee                | 15.5        |
| Cheboygan      | 27.4        | Monroe                   | 13.3        |
| Chippewa       | 14.4        | Montcalm                 | 16.8        |
| Clare          | 17.8        | Montmorency              | 21.6        |
| Clinton        | 16.4        | Muskegon                 | 14.3        |
| Crawford       | 16.4        | Newaygo                  | 15.6        |
| Delta          | 14.2        | Oakland                  | 14.0        |
| Dickinson      | 10.2        | Oceana                   | 16.6        |
| Eaton          | 15.6        | Ogemaw                   | 23.0        |
| Emmet          | 23.5        | Ontonagon                | 18.3        |
| Genesee        | 15.9        | Osceola                  | 15.5        |
| Gladwin        | 16.9        | Oscoda                   | 18.7        |
| Gogebic        | 13.2        | Otsego                   | 24.1        |
| Grand Traverse | 18.7        | Ottawa                   | 12.6        |
| Gratiot        | 15.7        | Presque Isle             | 22.8        |
| Hillsdale      | 16.1        | Roscommon                | 21.0        |
| Houghton       | 13.4        | Saginaw                  | 14.3        |
| Huron          | 13.3        | Sanilac                  | 11.3        |
| Ingham         | 14.1        | Schoolcraft              | 14.9        |
| Ionia          | 14.3        | Shiawassee               | 13.6        |
| Iosco          | 13.4        | St. Clair                | 13.8        |
| Iron           | 16.3        | St. Joseph               | 13.8        |
| Isabella       | 19.0        | Tuscola                  | 12.0        |
| Jackson        | 11.3        | Van Buren                | 11.6        |
| Kalamazoo      | 9.8         | Washtenaw                | 13.5        |
| Kalkaska       | 18.8        | Wayne                    | 10.6        |
| Kent           | 11.5        | Wexford                  | 15.6        |
| Keweenaw       | 16.4        | <b>State of Michigan</b> | 13.4        |