# OHIO MEDICAID ASSESSMENT SURVEY 2012 

Taking the pulse of health in Ohio

## POVERTY AND HEALTH COST DIFFICULTIES AMONG OHIO'S NON-SENIOR ADULT POPULATIONS IN 2012

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## 1. INTRODUCTION

Poverty influences morbidity, mortality, and general health status (Starfield, 1992; Fiscella \& Franks, 1997; Cockerham, 2007; Adler \& Rehkopf, 2008). Poverty is positively associated with higher rates of cardiovascular disease (Link \& Phelan, 1995; Lynch, 1996; Clark, DesMeules et al., 2009), pulmonary disease (Johannessen et. al, 2010; Gershon et al., 2012), cancer (Clegg et al., 2009; Yin et al., 2010), mental stress (Brunner, 1997; Baum, Garofalo, \& Yali, 1999; Adler \& Rehkopf, 2008; Aneshensel, Phelan, \& Bierman, 2012), and fair or poor general health status (Anderson \& Armstead, 1995; Marmot \& Feeney, 1997; Marmot \& Wilkinson, 2006; Abel, 2008).

In Ohio, $23.9 \%(1,676,000)$ of adults 19-64 years of age reported 2011 family income at or below $100 \%$ of the Federal Poverty Level (FPL) ( $\$ 18,530$ for a family of three); $8.6 \%$ ( 601,000 ) reported income between $101 \%$ and $138 \%$ FPL ( $138 \%$ FPL is $\$ 25,613$ for a family of three). Initial findings from the 2012 Ohio Medicaid Assessment Survey (OMAS) indicate that young adults, women, minorities, the less educated, the unemployed, and those in fair or poor health were more likely to be impoverished and have difficulties paying medical bills.

The goals of this brief are to describe the prevalence of poverty as measured by FPL across demographic characteristics and to examine select health cost difficulties by FPL among Ohio adults ages 19-64 years. Adults 1964 years are the population of interest due to their higher risk of being without insurance. Most seniors ( 65 years and older) have health care coverage through Medicare and are not addressed in this brief.

## 2. MEASURING POVERTY AND HEALTH COST DIFFICULTIES

Poverty was measured using 2011 annual family income utilizing Federal Poverty Level (FPL) guidelines. The Federal Poverty Level is defined by the US Department of Health and Human Services as the minimum annual gross income that a family needs for food, clothing, transportation, shelter and transportation - FPL income designations vary by family size. The threshold of $100 \%$ FPL is applied as an analytic category because it is the fixed federal measure used for assistance by many social service agencies; the $101-138 \%$ FPL is used as an analytic category due to $138 \%$ FPL being the income limit for potential Medicaid expansion under the Patient Protection and Affordable Care Act (ACA) of 2010, constituted as $133 \%$ FPL plus a $5 \%$ income disregard. This brief addresses family income instead of household income because Ohio social and health assistance programs use family income as program eligibility criteria, instead of household income. Besides demographic profiles of the impoverished in Ohio, this brief examines two health cost difficulties: 1) inability to fill a needed prescription because of cost in the past 12 months; and 2) problems paying for medical bills in the past 12 months.

The data source for all estimates is the 2012 Ohio Medicaid Assessment Survey. The OMAS measured the health insurance coverage, health care access, health status, and health care experiences of Ohio's Medicaid, Medicaid eligible, and non-Medicaid child and adult populations of Ohio. Analysis of Medicaid enrollment for Ohio is addressed due to Medicaid being a key public health insurance program for the impoverished.

## 3. OHIO ADULTS 19 THROUGH 64 YEARS

### 3.1 Prevalence of $100 \%$ FPL or less and $101-138 \%$ FPL by Sociodemographic Characteristics

Overall, $23.9 \%(1,676,074)$ of Ohio adults $19-64$ years reported a 2011 family income less or equal to $100 \%$ FPL ( $\$ 18,530$ for a family of three), and $8.6 \%(600,606)$ had family income within the range of $101-138 \%$ FPL ( $\$ 25,571$ for a family of three at $138 \%$ FPL) (Table 1). Younger adults had a higher prevalence of poverty than older adults, with $34.1 \%$ of adults 19-24 years reporting income of $100 \%$ FPL or less. The older the respondent, the less likely one was to be in poverty. There was a 17.2 percentage point difference between 19-24 year older and $55-64$ year olds in the prevalence of $\leq 100 \%$ FPL ( $16.9 \%$ versus $34.1 \%$ ). At $101-138 \%$ FPL, this gap decreased to 4.7 percentage points.

At or below $100 \%$ FPL females reported higher prevalence of poverty than males, with the difference being approximately 8 percentage points. At the $101-138 \%$ FPL there is no notable difference. Considering race/ethnicity, African Americans ( $44.2 \%$ at $\leq 100 \%$ FPL and $11.0 \%$ at $101-138 \%$ FPL) and Hispanics ( $49.6 \%$ and $10.7 \%$ ) reported the highest prevalence of poverty, whereas whites had the highest counts of poverty due to majority population status ( $1,162,039$ at $\leq 100 \%$ FPL and 461,168 at 101-138\% FPL).

Determinants of poverty literature suggest that educational attainment is a major factor associated with poverty the combination of low educational attainment and poverty negatively impacts health status and well-being (Blane, 2000; Elstad, 2001; Murray, 2006). The highest prevalence of poverty across all demographic characteristics was associated with low educational attainment. Those without a high school degree were most likely to report income at or below $100 \%$ FPL ( $59.5 \%$ or 545,930 ).

Table 1: The Prevalence of $100 \%$ FPL or less and 101-138\% FPL among adults 19-64 years by sociodemographic characteristics

|  | At or below 100\% FPL |  |  | 101-138\% FPL |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Prevalence (\%) | 90\% CI | Estimated Total | Prevalence <br> (\%) | 90\% CI | Estimated Total |
| Age Group |  |  |  |  |  |  |
| 19-24 years | 34.1 | (31.2-36.9) | 317,240 | 11.8 | (9.9-13.9) | 109,538 |
| $25-34$ years | 28.8 | (26.7-30.8) | 405,486 | 9.7 | (8.4-11.2) | 136,884 |
| 35-44 years | 23.0 | (21.3-24.7) | 339,872 | 7.5 | (6.5-8.6) | 111,192 |
| 45-54 years | 21.1 | (19.8-22.4) | 367,527 | 7.1 | (6.3-8.0) | 123,848 |
| 55-64 years | 16.9 | (15.8-18.1) | 245,949 | 19.8 | (7.5-9.0) | 119,145 |
| Gender |  |  |  |  |  |  |
| Male | 20.1 | (19.0-21.2) | 693,534 | 8.2 | (7.5-9.0) | 283,206 |
| Female | 27.6 | (26.5-28.7) | 982,540 | 8.9 | (8.2-9.6) | 317,400 |
| Race/ethnicity |  |  |  |  |  |  |
| White | 20.2 | (19.3-21.0) | 1,162,039 | 8.1 | (7.6-8.7) | 461,168 |
| African-American | 44.2 | (41.8-46.7) | 368,508 | 11.0 | (9.5-12.6) | 90,284 |
| Hispanic | 49.6 | (44.6-54.5) | 97,165 | 10.7 | (7.9-14.1) | 20,856 |
| Asian | 19.8 | (15.0-24.6) | 39,905 | 9.1 | (6.2-13.3) | 18,052 |
| Other | 36.8 | (32.7-41.0) | 8,456 | 10.6 | (8.1-13.6) | 2,410 |
| Education |  |  |  |  |  |  |
| Less than high school | 59.5 | (56.6-62.4) | 453,047 | 12.2 | (10.4-41.3) | 92,883 |
| High school | 28.1 | (26.7-29.5) | 669,571 | 10.4 | (9.5-11.3) | 246,512 |
| Some college | 22.1 | (20.3-24.0) | 278,487 | 11.4 | (10.0-12.9) | 143,197 |
| Associate degree | 16.7 | (14.9-18.5) | 151,968 | 7.1 | (5.9-8.4) | 64,403 |
| 4 -Year college degree | 8.4 | (7.2-9.6) | 86,322 | 3.6 | (2.9-4.5) | 37,224 |
| Advanced degree | 5.4 | (4.2-6.6) | 36,679 | 2.4 | (1.7-3.4) | 16,388 |

Having a large family, more than 4 within a household is associated with higher rates of poverty (Kato et al., 1994; Lanjouw \& Ravallion, 1995; Thomas \& McLanahan, 2012). Larger families experience more financial burden, less opportunities for higher paid employment, more restrictions on time, and more unforeseen health expenses (Schoen et al., 2008; DeNavas-Walt, Proctor, \& Smith, 2012; Galbraith et al., 2013). In Ohio, families of 1 had the highest prevalence of both $\leq 100 \%$ FPL ( $34.7 \%$ or 442,517 ) and $101-138 \%$ FPL ( $10.5 \%$ or 134,308 ) (Table 2). Families of 5 or more reported the next highest prevalence of $\leq 100 \%$ FPL ( $28.2 \%$ or 323,258 ). The prevalence of poverty among families of 2 to 4 members was much lower than among single member or 5 or more member families.

Families of less than 3 children were less likely to report annual income at or below $100 \%$ FPL. The prevalence of $101-138 \%$ FPL was highest among families with 5 or more children. There was a 22.4 percentage point increase in the prevalence of living at or below $100 \%$ FPL between families with no children and families with 5 or more children and there was a 5.7 percentage point increase between similar families in the 101-138\% FPL category. These findings are consistent with poverty literature which indicates that families with many children experience higher rates of poverty (Thomas \& McLanahan, 2012).

Work status is the major determinant of poverty, particularly a lack of employment, part-time employment, and underemployment (underemployment is not addressed in the OMAS) (Citro \& Michael, 1995; Allison et al., 2005). Table 2 shows that full-time workers reported less poverty ( $9.6 \%$ or 334,217 at $\leq 100 \%$ FPL and $5.9 \%$ or 111,951 at $101-138 \%$ FPL ) than either part-time workers ( $26.3 \%$ and $10.4 \%$ ) or those not working ( $43.4 \%$ and $7.0 \%$ ). The total amount of adults not working was more than double the other work status categories.

Table 2: The prevalence of $100 \%$ FPL or less and 101-138\% FPL among adults 19-64 years
by family size and work status

|  | At or below 100\% FPL |  |  | 101-138\% FPL |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Prevalence (\%) | 90\% CI | Estimated Total | Prevalence (\%) | 90\% CI | Estimated Total |
| Family Size |  |  |  |  |  |  |
| 1 member | 34.7 | (32.8-36.7) | 442,517 | 10.5 | (9.4-11.8) | 134,308 |
| 2 members | 18.0 | (16.7-19.2) | 337,648 | 7.2 | (6.4-8.1) | 135,346 |
| 3 members | 21.5 | (19.8-23.2) | 289,674 | 8.7 | (7.6-10.0) | 117,465 |
| 4 members | 20.7 | (18.9-22.5) | 282,977 | 7.6 | (6.6-8.9) | 104,494 |
| 5 or more members | 28.2 | (26.1-30.4) | 323,258 | 9.5 | (8.2-11.1) | 108,994 |
| Children in Household |  |  |  |  |  |  |
| 0 children | 22.4 | (21.4-23.5) | 799,365 | 7.9 | (7.3-8.6) | 282,592 |
| 1 child | 23.2 | (21.5-25.1) | 322,640 | 10.4 | (9.1-11.8) | 144,486 |
| 2 children | 22.5 | (20.7-24.5) | 272,216 | 7.2 | (6.2-8.5) | 87,289 |
| 3 children | 30.3 | (27.2-33.5) | 159,802 | 9.6 | (7.8-11.9) | 50,741 |
| 4 children | 34.0 | (29.1-39.3) | 66,477 | 9.5 | $(6.8-13.3)$ | 18,636 |
| 5 or more children | 44.8 | ( 37.8 - 52.0) | 55,574 | 13.6 | (9.2-19.7) | 16,862 |
| Working Status |  |  |  |  |  |  |
| Full-time ( $\geq 35$ hours/week) | 9.6 | (8.8-10.4) | 334,217 | 5.9 | (5.3-6.6) | 111,951 |
| Part-time (< 35 hours/week) | 26.3 | (24.2-28.4) | 284,463 | 10.4 | (9.0-11.9) | 204,873 |
| Not currently working | 43.4 | (41.9-44.8) | 1,043,134 | 7.0 | (6.4-7.6) | 279,116 |

## 4. OHIO ADULTS 19-64 YEARS WITH INCOMES AT OR BELOW 100\% FPL AND 101138\% FPL

### 4.1 Health Insurance Categories

Medicaid was the largest insurance source of adults 19-64 years reporting income up to $100 \%$ FPL ( $40.8 \%$ or 684,145 ). Total Medicaid enrollment (inclusive of Medicaid only and dual eligible Medicaid/Medicare) for the $\leq 100 \%$ FPL was $40.8 \%(684,145)$ and $19.9 \%(119,404)$ for the $101-138 \%$ FPL. These statistics compare to $3.4 \%(161,686)$ total Medicaid enrollment for those reporting annual income higher than 138\% FPL (data not shown).

Being uninsured was the second most prevalent insurance status for the impoverished, with $32.1 \%$ (537,616) of $\leq 100 \%$ FPL and $33.2 \%(199,455)$ of $101-138 \%$ FPL individuals reporting being uninsured. Only $10.1 \%(477,160)$ of adults reporting annual income higher than $138 \%$ FPL were uninsured (data not shown).

There was a substantial difference in employer-sponsored health insurance (ESI) enrollment between the impoverished and those in higher income brackets. Specifically, $11.5 \%(192,142)$ of adults at or below $100 \%$ FPL and $25.0 \%$ between $101-138 \%$ FPL reported ESI coverage. These statistics compare to $73.3 \%$ ( $3,475,318$ ) for those reporting income higher than $138 \%$ FPL. These ESI estimates excluded those adults who reported having Medicaid or Medicare coverage in addition to ESI.

## Table 3: The distribution of health insurance type among adults 19-64 years at or below $100 \%$ FPL and 101-138\% FPL

|  | At or below 100\% FPL |  |  | $\mathbf{1 0 1 - 1 3 8 \%}$ FPL |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percent | $\mathbf{9 0 \%} \mathbf{C I}$ | Estimated <br> Total | Percent | $\mathbf{9 0 \%}$ CI | Estimated <br> Total |
| Any Medicaid coverage | 40.8 | $(39.0-42.7)$ | 684,145 | 19.9 | $(17.6-22.4)$ | 119,404 |
| Medicaid and Medicare | 8.5 | $(7.6-9.4)$ | 141,889 | 4.2 | $(3.2-5.3)$ | 24,931 |
| Medicaid, no Medicare | 32.4 | $(30.6-34.1)$ | 542,256 | 15.7 | $(13.7-18.1)$ | 94,473 |
| Medicare, no Medicaid | 5.0 | $(4.3-5.8)$ | 84,567 | 7.9 | $(6.6-9.4)$ | 47,399 |
| Employer-Sponsored | 11.5 | $(10.3-12.7)$ | 192,142 | 25.0 | $(22.4-27.8)$ | 150,262 |
| Privately purchased | 3.5 | $(2.8-4.3)$ | 59,250 | 5.8 | $(4.5-7.5)$ | 34,672 |
| Other | 2.5 | $(1.9-3.1)$ | 42,107 | 3.4 | $(2.4-4.8)$ | 20,437 |
| Insurance type unknown | 4.5 | $(3.7-5.4)$ | 76,246 | 4.8 | $(3.5-6.5)$ | 28,977 |
| Uninsured | 32.1 | $(30.2-33.9)$ | 537,616 | 33.2 | $(30.2-36.1)$ | 199,455 |

### 4.2 Health Status Indicators

Health status is strongly influenced by poverty (Brunner, 1997; Adler \& Rehkopf, 2008). Considering general health status, measured as a self-rating of general health as excellent, very good, good, fair, or poor, $39.2 \%(657,094)$ of adults with annual family income at or below $100 \%$ FPL and $28.6 \%(171,983)$ at $101-138 \%$ FPL rated their general health as fair or poor. This compares to $12.1 \%$ ( 572,521 ) of those reporting income above $138 \%$ FPL (data not shown).

Fair or poor dental health, which impacts nutrition, learning, work absenteeism, and routine functioning, is considered a health risk for the impoverished (Allukian, 2008; Grembowski, Spiekerman, \& Milogrom, 2012). In 2012, $43.4 \% ~(726,183)$ of those reporting income at or below $100 \%$ FPL and $34.7 \%(208,268)$ at $101-138 \%$ FPL reported their dental health as fair or poor. This compares to $15.7 \%$ of those reporting income above 138\% FPL (data not shown).

Poor or fair vision health is associated with poverty (Ulldemolins et al., 2012). The OMAS question addressing vision health measured self-reported vision health, including when wearing glasses. Fair or poor vision health was reported by $28.0 \%(469,658)$ of adults at or below $100 \%$ FPL and $21.5 \%(128,806)$ at $101-138 \%$ FPL. This compares to $9.9 \%$ of those reporting income above $138 \%$ FPL (data not shown).

Adults were classified as having a special health care need if they had a medical, behavioral, or other health condition that made it difficult to do day-to-day activities or required special therapy and that had lasted or was expected to last at least one year. Adults who needed or received treatment or counseling for any kind of mental health, substance abuse or emotional problem that had lasted or was expected to last for at least 12 months were also classified as having a special health care need. Those with incomes at or below $100 \%$ FPL and 101-138\% FPL were more likely to report having special health care needs that higher income respondents, $32.4(542,820)$ and $25.3 \%$ ( 152,154 ), respectively. Comparatively, $11.3 \%$ of those with income above $138 \%$ FPL reported having special health care needs (data not shown).

Adults who reported having 14 or more days in the past 30 days when a mental health condition or emotional problem kept them from doing with work or other usual activities were identified has having mental health-related impairment. Ohioans reporting incomes at or below $100 \%$ FPL and $101-138 \%$ FPL were also more likely to report functional impairment due to mental or emotional stress, $16.7 \%$ ( 279,263 ) and $10.5 \%$ ( 62,335 ), respectively. Comparatively, $3.3 \%$ of adults reporting income above $138 \%$ FPL reported functional impairment (data not shown).

Table 4: Health status indicators of adults 19-64 years at or below 100\% FPL and 101-138\% FPL

|  | At or below 100\% FPL |  |  | 101-138\% FPL or less |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percent | $\mathbf{9 0 \%}$ CI | Estimated <br> Total | Percent | $\mathbf{9 0 \%}$ CI | Estimated <br> Total |
| Fair/poor general health | 39.2 | $(37.4-41.0)$ | 657,094 | 28.6 | $(26.0-31.4)$ | 171,983 |
| Fair/poor dental health | 43.4 | $(41.5-45.2)$ | 726,183 | 34.7 | $(31.9-37.7)$ | 208,268 |
| Fair/poor vision/eyesight | 28.0 | $(26.4-29.7)$ | 469,658 | 21.5 | $(19.2-23.9)$ | 128,806 |
| Special health care needs | 32.4 | $(30.6-34.1)$ | 542,820 | 25.3 | $(22.8-28.0)$ | 152,154 |
| Mental health-related | 16.7 | $(15.3-18.0)$ | 279,263 | 10.5 | $(8.8-12.5)$ | 62,335 |

### 4.3 Health cost difficulties

Prescription drug access is often influenced by one's poverty status - poverty often precludes the securing of needed prescriptions (Anglin \& White, 1999; Ohler \& Smith, 2011; Driscoll \& Bernstein, 2012). Adults at or below 100\% FPL were almost three times as likely not to fill a needed prescription due to cost than those with incomes $401 \%$ FPL or greater, $28.7 \%(479,377)$ versus $10.2 \%(216,764)$ (Table 5). The OMAS data show that as annual income increases, the prevalence of not filling prescription scripts decreases.

Poverty also impacts health care access by curtailing the ability to pay medical expenses (Callahan \& Pincus, 1999; Ahmed et al., 2001; May \& Cunningham, 2004; Driscoll \& Bernstein, 2012). It is estimated that 720,025 (43.1\%) adults with income at or below $100 \%$ FPL had difficulties paying medical bills - adults with income $\leq 100 \%$ FPL were almost 3 times as likely to have problems paying medical bills than those reporting income above $400 \%$ FPL. Considering all Ohio adults, regardless of income status, $33.4 \%(2,342,489)$ reported having difficulties paying their medical bills.

Table 5: Health cost difficulties by income as a percent of the federal poverty level (FPL) among adults 19-64 years.

|  | Didn’t fill a prescription because of cost |  |  | Problems paying medical bills |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percent | $\mathbf{9 0} \% \mathbf{C I}$ | Estimated <br> Total \# | Percent | $\mathbf{9 0 \%} \mathbf{\text { CI }}$ | Estimated <br> Total \# |
| $\leq 100 \%$ FPL | 28.7 | $(26.9-30.4)$ | 479,377 | 43.1 | $(41.2-44.9)$ | 720,025 |
| $101-138 \%$ FPL | 26.9 | $(24.2-29.6)$ | 161,432 | 50.1 | $(47.0-53.3)$ | 300,645 |
| $139-400 \%$ FPL | 21.3 | $(20.1-22.4)$ | 556,106 | 38.1 | $(36.7-39.6)$ | 997,620 |
| $401 \%$ FPL or more | 10.2 | $(9.3-11.2)$ | 216,764 | 15.3 | $(14.2-16.4)$ | 324,198 |

Having health insurance increased one's ability to secure prescription drugs and pay medical bills. Overall, those at or below 100\% FPL and 101-138\% FPL who were enrolled in Medicaid were less likely to have had problems paying medical bills than those within these income categories who were either uninsured or who had other types of health insurance. The uninsured reported substantially more difficulty fulfilling prescriptions and paying medical bills than the Medicaid or other insurance enrolled.

Table 6: Health cost difficulties among adults 19-64 years at or below 100\% FPL and $101-138 \%$ FPL by health insurance type.

|  | Didn’t fill a prescription because of <br> cost |  |  |  | Problems paying medical bills |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percent | $\mathbf{9 0 \%}$ CI | Estimated <br> Total \# | Percent | $\mathbf{9 0 \%}$ CI | Estimated <br> Total \# |  |
|  | At or below 100\% FPL |  |  |  |  |  |  |  |
|  | 21.2 | $(18.9-23.6)$ | 145,173 | 28.5 | $(26.0-31.1)$ | 195,050 |  |
|  | 20.4 | $(17.5-23.3)$ | 92,383 | 39.1 | $(35.6-42.7)$ | 176,882 |  |
|  | 45.0 | $(41.5-48.6)$ | 241,820 | 64.8 | $(61.4-68.2)$ | 348,093 |  |
|  | $\mathbf{1 0 1 - 1 3 8 \%}$ FPL |  |  |  |  |  |  |  |
|  | 20.7 | $(16.1-26.1)$ | 24,602 | 35.5 | $(29.6-41.9)$ | 42,266 |  |
| Coverage other than Medicaid | 27.0 | $(23.2-31.1)$ | 75,985 | 48.2 | $(43.7-52.7)$ | 135,455 |  |
| Uninsured | 30.5 | $(25.7-35.8)$ | 60,847 | 61.7 | $(55.8-67.2)$ | 122,924 |  |

For those reporting annual family income at or below $100 \%$ FPL, there were slight variations in not being able to secure prescriptions due to the cost by county types (Table 7). The lowest percentage was among adults living in suburban counties $(24.3 \%)$, and the highest percentage was among adults in rural non-Appalachian counties (33.7\%). There was less variation in the percentage of adults who had difficulty paying medical bills across the county types. Among the Medicaid service regions, there was little difference in the percentage of those at or below $100 \%$ FPL or at $101-138 \%$ FPL who reported not filling a prescription due to cost or in having difficulty paying for medical care.

Concerning race/ethnicity, African Americans at 100\% FPL reported the most difficulty filling a needed prescription due to cost ( $33.6 \%$ or 123,757 ), with Asians having the least difficulty ( $11.5 \%$ or 4,591 ). The percentage of adults who had difficulty paying medical bills was highest among those in the other race category ( $49.1 \%$ ) and smallest among Asians (25.8\%). These trends were similar for those reporting 101-138\% FPL (Table 7).

Table 7: Health cost difficulties among adults 19-64 years at or below $100 \%$ FPL and $101-138 \%$ FPL by county type, Medicaid service region, and race/ethnicity.

|  | Didn't fill a prescription because of cost |  |  | Problems paying medical bills |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percent | 90\% CI | Estimated Total \# | Percent | 90\% CI | Estimated Total \# |
| At or below 100\% FPL |  |  |  |  |  |  |
| County Type |  |  |  |  |  |  |
| Appalachian | 25.9 | (22.2-29.6) | 75,770 | 43.6 | (39.3-47.8) | 127,380 |
| Metropolitan | 29.3 | (27.1-31.6) | 296,100 | 44.1 | (41.6-46.5) | 444,615 |
| Rural (Non-Appalachian) | 33.7 | (28.2-39.3) | 62,148 | 41.3 | (35.7-47.0) | 76,113 |
| Suburban | 24.3 | (19.2-29.4) | 45,359 | 38.5 | (32.7-44.2) | 71,918 |
| Medicaid Service Region |  |  |  |  |  |  |
| Northwest | 27.2 | (22.0-32.4) | 49,068 | 39.3 | (33.7-44.9) | 70,888 |
| Northeast | 25.0 | (20.8-29.2) | 66,853 | 40.8 | (36.0-45.5) | 109,019 |
| Northeast Central | 20.7 | (15.3-26.2) | 20,345 | 40.3 | (33.3-47.4) | 39,577 |
| East Central | 31.1 | (26.4-35.9) | 67,665 | 47.5 | (42.4-52.6) | 103,226 |
| Central | 31.1 | (26.9-35.3) | 101,114 | 46.0 | (41.5-50.5) | 149,642 |
| West Central | 32.1 | (26.6-37.7) | 58,801 | 45.7 | (39.9-51.5) | 83,627 |
| Southwest | 29.1 | (24.7-33.5) | 83,243 | 41.6 | (37.0-46.3) | 119,100 |
| Southeast | 28.2 | (22.6-33.9) | 32,288 | 39.3 | (33.2-45.4) | 44,947 |
| Race/Ethnicity |  |  |  |  |  |  |
| White | 28.0 | (25.9-30.1) | 325,403 | 43.2 | (40.9-45.5) | 501,878 |
| African American | 33.6 | (29.9-37.2) | 123,757 | 45.1 | (41.3-48.9) | 166,159 |
| Hispanic | 25.0 | (18.3-31.7) | 24,291 | 40.5 | (33.1-48.0) | 39,399 |
| Asian | 11.5 | (3.2-19.8) | 4,591 | 25.8 | (13.9-37.6) | 10,282 |
| Other | 26.6 | (18.7-34.5) | 1,335 | 49.1 | (39.9-58.3) | 2,308 |
| 101-138\% FPL |  |  |  |  |  |  |
| County Type |  |  |  |  |  |  |
| Appalachian | 33.6 | (28.5-39.0) | 15,609 | 52.2 | (46.7-57.6) | 70,938 |
| Metropolitan | 30.0 | (20.2-26.0) | 100,490 | 44.6 | (41.2-48.1) | 195,094 |
| Rural (Non-Appalachian) | 20.9 | (15.9-26.9) | 21,915 | 44.1 | (37.2-51.1) | 46,282 |
| Suburban | 20.6 | (15.4-26.9) | 22,632 | 36.9 | (30.3-44.0) | 40,566 |
| Medicaid Service Region |  |  |  |  |  |  |
| Northwest | 19.5 | (1.8-25.4) | 20,122 | 40.9 | (34.3-47.8) | 42,131 |
| Northeast | 19.9 | (15.5-25.2) | 25,953 | 40.3 | (34.3-46.6) | 52,582 |
| Northeast Central | 29.4 | (22.1-38.0) | 12,395 | 47.8 | (39.2-56.6) | 20,155 |
| East Central | 25.5 | (20.1-31.7) | 25,705 | 44.0 | ( $37.5-50.7$ ) | 44,353 |
| Central | 26.4 | (21.3-32.3) | 41,957 | 52.3 | (46.0-58.5) | 83,099 |
| West Central | 25.4 | (19.2-32.8) | 21,383 | 41.1 | (33.8-47.7) | 34,528 |
| Southwest | 22.5 | (17.4-28.5) | 25,183 | 42.7 | (36.1-49.6) | 47,912 |
| Southeast | 31.7 | (24.8-40.0) | 17,949 | 49.7 | (41.6-57.8) | 28,120 |
| Race/Ethnicity |  |  |  |  |  |  |
| White | 23.9 | (21.6-26.5) | 149,109 | 43.8 | (41.0-46.7) | 272,999 |
| African American | 25.3 | (20.2-31.2) | 28,392 | 51.0 | (44.7-57.3) | 57,256 |
| Hispanic | 21.2 | (12.4-33.8) | 4,821 | 48.2 | (34.5-62.2) | 10,943 |
| Asian | 21.4 | (9.3-42.1) | 3,956 | 33.0 | (18.5-51.7) | 6,095 |
| Other | 39.6 | (25.8-55.4) | 727 | 45.7 | (30.7-61.6) | 808 |

## 5. DISCUSSION

Prior research from the OMAS Research Team and others has found that poverty is strongly influenced by stressful life situations such as unemployment. The OMAS data shows that impoverished 19-64 year-old adults in Ohio were disproportionately younger, female, minorities, less than full-time employed, less educated, and more likely to have had difficulty securing needed prescription drugs and to have had problems paying medical bills. These data show that those reporting living in poverty were more likely to report fair or poor general health, dental health, and vision health statuses and were more likely to experience functional mental distress and have special health care needs.

Many of these sociodemographic and health-related findings are associated - low educational attainment, unemployment or part-time work status, and being a minority significantly co-influence one's chances for being impoverished, which raises the probability for poor health. Social determinants of health literature emphasizes that these factors are more influential to poor health status in societies that lack a health safety net for those who cannot afford health care access (Bartley, 2004), indicating that a strengthening of Ohio's health care system and health care safety net may alleviate poverty-associated health risks.

## 6. KEY CONSIDERATIONS

1. Given the findings of this brief, implementation of the Patient Protection and Affordable Care Act's incentives for health insurance participation and the potential for Medicaid reform would offer impoverished Ohioans a greater chance to secure insurance as a mechanism to better health. As insurance protects against determinants of poor health, expansion of insurance to the poor and uninsured would partially address the general health risks of Ohio's impoverished population as detailed in this brief.
2. Measurements of health status rated poorer for Ohio's impoverished versus non-impoverished. Insurance expansion to Ohio's impoverished populations which would enable Ohio's providers to more fully participate in the State's patient-centered medical home initiatives would also provide a network of providers to address general health status and wellness. Such an initiative would offer prevention as a strategy for decreasing the societal and health risks to Ohio's poor.

> More information about OMAS, including the data and electronic versions of reports and research briefs, is available online at: http://grc.osu.edu/omas/

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## APPENDIX

Table 8: Health status indicators of adults 19-64 years by percent of FPL

|  | Percent | 90\% CI | Estimated Total |
| :---: | :---: | :---: | :---: |
| Poor/Fair general health |  |  |  |
| 100\% FPL or below | 39.2 | (37.4-41.0) | 657,094 |
| 101\% - 138\% FPL | 28.6 | (26.0-31.3) | 171,983 |
| 139\% - $400 \%$ FPL | 15.9 | (14.8-16.9) | 415,263 |
| 401\% FPL and above | 7.4 | (6.6-8.2) | 157,257 |
| Poor/Fair dental health |  |  |  |
| 100\% FPL or below | 43.4 | (41.5-45.2) | 726,183 |
| 101\% - 138\% FPL | 34.7 | (31.8-37.6) | 208,268 |
| 139\% - 400\% FPL | 21.4 | (20.2-22.6) | 559,772 |
| 401\% FPL and above | 8.7 | (7.9-9.6) | 185,393 |
| Poor/Fair vision/eyesight |  |  |  |
| 100\% FPL or below | 28.0 | (26.4-29.7) | 469,658 |
| 101\% - 138\% FPL | 21.5 | (19.1-23.8) | 128,806 |
| 139\% - 400\% FPL | 13.0 | (12.0-13.9) | 339,343 |
| 401\% FPL and above | 6.1 | (5.4-6.8) | 129,928 |
| Special health care needs |  |  |  |
| 100\% FPL or below | 32.4 | (30.6-34.1) | 542,820 |
| 101\% - 138\% FPL | 25.3 | (22.8-27.9) | 152,153 |
| 139\% - $400 \%$ FPL | 14.0 | (13.0-14.9) | 365,844 |
| 401\% FPL and above | 8.0 | (7.2-8.8) | 169,578 |
| Functional impairment due to mental or emotional distress |  |  |  |
| 100\% FPL or below | 16.7 | (15.3-18.0) | 279,263 |
| 101\% - 138\% FPL | 10.9 | (9.0-12.8) | 65,486 |
| 139\% - 400\% FPL | 4.9 | (4.3-5.5) | 128,009 |
| 401\% FPL and above | 1.8 | (1.4-2.2) | 37,717 |

Table 9: Health cost difficulties among adults 19-64 years by percent of FPL and health insurance type.

|  | Percent | 90\% CI | Estimated Total |
| :---: | :---: | :---: | :---: |
| 100\% FPL or below |  |  |  |
| Didn't fill a prescription because of cost |  |  |  |
| Any Medicaid Coverage | 21.2 | (18.9-23.6) | 145,173 |
| Other Coverage | 20.4 | (17.5-23.3) | 92,383 |
| Uninsured | 45.0 | (41.5-48.6) | 241,820 |
| Problems paying medical bills |  |  |  |
| Any Medicaid Coverage | 28.5 | (26.0-31.1) | 195,050 |
| Other Coverage | 39.1 | (35.6-42.7) | 176,882 |
| Uninsured | 64.8 | (61.4-68.2) | 348,093 |
| 101\%-138\% FPL |  |  |  |
| Didn't fill a prescription because of cost |  |  |  |
| Any Medicaid Coverage | 20.7 | (15.7-25.7) | 24,602 |
| Other Coverage | 27.0 | (23.1-31.0) | 75,985 |
| Uninsured | 30.5 | (25.4-35.6) | 60,846 |
| Problems paying medical bills |  |  |  |
| Any Medicaid Coverage | 35.5 | (29.3-41.7) | 42,266 |
| Other Coverage | 48.2 | (43.6-52.7) | 135,455 |
| Uninsured | 61.7 | (56.0-67.3) | 122,924 |
| $139 \%-400 \% F P L$ |  |  |  |
| Didn't fill a prescription because of cost |  |  |  |
| Any Medicaid Coverage | 20.9 | (15.9-25.9) | 28,071 |
| Other Coverage | 19.4 | (18.1-20.6) | 404,118 |
| Uninsured | 31.5 | (27.8-35.1) | 123,917 |
| Problems paying medical bills |  |  |  |
| Any Medicaid Coverage | 36.8 | (30.7-42.9) | 49,485 |
| Other Coverage | 34.1 | (32.6-35.6) | 712,175 |
| Uninsured | 59.9 | (56.0-63.8) | 235,959 |
| 401\% FPL and above |  |  |  |
| Didn't fill a prescription because of cost |  |  |  |
| Other Coverage | 9.6 | (8.7-10.5) | 193,062 |
| Uninsured | 26.1 | (18.3-33.9) | 21,498 |
| Problems paying medical bills |  |  |  |
| Other Coverage | 14.3 | (13.2-15.4) | 286,944 |
| Uninsured | 40.4 | (31.7-49.0) | 33,298 |

Table 10: Health cost difficulties among adults 19-64 years by percent of FPL and county type

|  | Percent | 90\% CI | Estimated Total |
| :---: | :---: | :---: | :---: |
| 100\% FPL or below |  |  |  |
| Didn't fill a prescription because of cost |  |  |  |
| Appalachian | 25.9 | (22.2-29.6) | 75,770 |
| Metropolitan | 29.3 | (27.1-31.6) | 296,100 |
| Rural (Non-Appalachian) | 33.7 | (28.2-39.3) | 62,148 |
| Suburban | 24.3 | (19.2-29.4) | 45,359 |
| Problems paying medical bills |  |  |  |
| Appalachian | 43.6 | (39.3-47.8) | 127,380 |
| Metropolitan | 44.1 | (41.6-46.5) | 444,615 |
| Rural (Non-Appalachian) | 41.3 | (35.7-47.0) | 76,113 |
| Suburban | 38.5 | (32.7-44.2) | 71,918 |
| 101\% - 138\% FPL |  |  |  |
| Didn't fill a prescription because of cost |  |  |  |
| Appalachian | 37.3 | (30.7-43.9) | 39,330 |
| Metropolitan | 25.8 | (22.2-29.5) | 85,080 |
| Rural (Non-Appalachian) | 23.1 | (16.1-30.0) | 18,344 |
| Suburban | 21.9 | (14.8-29.0) | 18,679 |
| Problems paying medical bills |  |  |  |
| Appalachian | 58.9 | (52.2-65.7) | 62,171 |
| Metropolitan | 49.5 | (45.2-53.8) | 162,994 |
| Rural (Non-Appalachian) | 50.3 | (41.6-59.1) | 40,000 |
| Suburban | 41.6 | (33.0-50.1) | 35,480 |
| 139\% -400\% FPL |  |  |  |
| Didn't fill a prescription because of cost |  |  |  |
| Appalachian | 23.3 | (20.6-26.1) | 106,389 |
| Metropolitan | 21.8 | (20.1-23.5) | 288,706 |
| Rural (Non-Appalachia) | 17.9 | (15.1-20.8) | 72,413 |
| Suburban | 20.4 | (17.4-23.4) | 88,598 |
| Problems paying medical bills |  |  |  |
| Appalachian | 38.6 | (35.4-41.7) | 175,680 |
| Metropolitan | 39.8 | (37.7-41.8) | 526,099 |
| Rural (Non-Appalachian) | 34.1 | (30.6-37.6) | 137,747 |
| Suburban | 36.4 | (32.8-40.0) | 158,093 |
| 401\% FPL and above |  |  |  |
| Didn't fill a prescription because of cost |  |  |  |
| Appalachian | 9.6 | (7.3-12.0) | 24,757 |
| Metropolitan | 10.9 | (9.6-12.2) | 128,388 |
| Rural (Non-Appalachian) | 6.5 | (4.6-8.5) | 16,357 |
| Suburban | 11.0 | (8.8-13.2) | 47,262 |
| Problems paying medical bills |  |  |  |
| Appalachian | 16.8 | (13.5-20.0) | 43,018 |
| Metropolitan | 15.0 | (13.5-16.4) | 176,363 |
| Rural (Non-Appalachian) | 15.4 | (12.2-18.6) | 38,581 |
| Suburban | 15.4 | (12.8-17.9) | 66,236 |

Table 11: Health cost difficulties among adults 19-64 years by percent of FPL and race-ethnicity

|  | Percent | 90\% CI | Estimated Total |
| :---: | :---: | :---: | :---: |
| 100\% FPL or below |  |  |  |
| Didn't fill a prescription because of cost |  |  |  |
| White | 28.0 | (25.9-30.1) | 325,403 |
| African-American | 33.6 | (29.9-37.2) | 123,757 |
| Hispanic | 25.0 | (18.3-31.7) | 24,291 |
| Asian | 11.5 | (3.2-19.8) | 4,591 |
| Other | 26.6 | (18.7-34.5) | 1,335 |
| Problems paying medical bills |  |  |  |
| White | 43.2 | (40.9-45.5) | 501,878 |
| African-American | 45.1 | (41.3-48.9) | 166,159 |
| Hispanic | 40.5 | (33.1-48.0) | 39,399 |
| Asian | 25.8 | (13.9-37.6) | 10,282 |
| Other | 49.1 | (39.9-58.3) | 2,308 |
| $101 \%-138 \%$ FPL |  |  |  |
| Didn't fill a prescription because of cost |  |  |  |
| White | 27.5 | (24.3-30.6) | 128,705 |
| African-American | 26.2 | (19.8-32.7) | 23,793 |
| Hispanic | 20.5 | (9.1-31.9) | 4,279 |
| Asian | 21.9 | (5.0-38.8) | 3,956 |
| Other | -- | -- | -- |
| Problems paying medical bills |  |  |  |
| White | 50.1 | (46.5-53.7) | 234,802 |
| African-American | 54.2 | (46.8-61.6) | 49,184 |
| Hispanic | 48.6 | (33.3-63.9) | 10,137 |
| Asian | 32.0 | (14.6-49.3) | 5,773 |
| Other | -- | -- | -- |
| 139\%-400\% FPL |  |  |  |
| Didn't fill a prescription because of cost |  |  |  |
| White | 21.1 | (19.8-22.4) | 473,404 |
| African-American | 25.7 | (22.0-29.4) | 66,118 |
| Hispanic | 19.1 | (12.4-25.8) | 9,180 |
| Asian | 11.1 | (4.9-17.2) | 6,516 |
| Other | -- | -- | -- |
| Problems paying medical bills |  |  |  |
| White | 37.9 | (36.4-39.5) | 852,567 |
| African-American | 45.3 | (41.0-49.6) | 116,540 |
| Hispanic | 37.4 | (28.7-46.1) | 17,971 |
| Asian | 14.9 | (7.7-22.2) | 8,798 |
| Other | 46.7 | (36.3-57.1) | 1,743 |

Table 11 (continued): Health cost difficulties among adults 19-64 years by percent of FPL and raceethnicity

| 401\% FPL and above |  |  |  |
| :--- | :---: | :---: | :---: |
| Didn't fill a prescription because of cost |  |  |  |
| White | 9.9 | $(8.9-10.9)$ | 186,064 |
| African-American | 18.9 | $(14.3-23.5)$ | 22,040 |
| Hispanic | 11.9 | $(3.8-20.0)$ | 3,568 |
| Asian | 5.4 | $(1.9-9.0)$ | 4,610 |
| Other | - | - | -- |
| Problems paying medical bills |  |  |  |
| White | 14.7 | $(13.5-15.9)$ | 277,057 |
| African-American | 31.9 | $(26.5-37.4)$ | 37,251 |
| Hispanic | 18.9 | $(11.2-26.7)$ | 5,672 |
| Asian | 4.4 | $(1.1-7.7)$ | 3,739 |
| Other | 18.7 | $(10.3-27.2)$ | 480 |

