

2019 NATIONAL HEALTHCARE QUALITY AND DISPARITIES REPORT

Disparities Measures

Black vs. White

Table 1. Patient Safety Measures for Black vs. White

For Patient Safety measures, Blacks experienced better quality care compared with Whites for 7 measures, the same quality of care for 16 measures, and worse quality for 10 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Long-stay nursing home patients experiencing one or more falls with major injury | 0.3 | 0.7 | Better | -60.87 | -29.70 | 2017 | MDS |
| Patient Safety | Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults | 0.0 | 0.1 | Better | -60.00 | -2.12 | 2017 | HCUP |
| Patient Safety | Adults who reported a home health provider asking to see all the prescription and over-the-counter medicines they were taking, when they first started getting home health care | 88.4 | 75.1 | Better | -53.41 | -130.42 | 2018 | HHCAHPS |
| Patient Safety | Long-stay nursing home residents with a urinary tract infection | 1.5 | 2.4 | Better | -38.49 | -25.52 | 2017 | MDS |
| Patient Safety | Birth trauma - injury to neonate per 1,000 selected live births | 3.7 | 5.3 | Better | -30.75 | -5.82 | 2017 | HCUP |
| Patient Safety | Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults | 0.2 | 0.2 | Better | -23.81 | -2.24 | 2017 | HCUP |
| Patient Safety | Adults who reported a home health provider talking with them about all the prescription and over-the-counter medicines they were taking when they first started getting home health care | 87.1 | 84.0 | Better | -19.37 | -30.40 | 2018 | HHCAHPS |
| Patient Safety | Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children | 0.3 | 0.3 | Same | -24.24 | -1.60 | 2017 | HCUP |
| Patient Safety | Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults | 8.6 | 9.9 | Same | -13.13 | -0.97 | 2017 | MEPS |
| Patient Safety | Adverse drug event with IV heparin in adult hospital patients who received an anticoagulant | 5.6 | 6.3 | Same | -11.69 | -1.02 | 2017 | MPSMS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults | 0.7 | 0.7 | Same | -4.17 | -0.45 | 2017 | HCUP |
| Patient Safety | Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults | 1.0 | 1.1 | Same | -3.77 | -0.69 | 2017 | HCUP |
| Patient Safety | Adults who reported that home health providers talked with them about when to take medicines in the last 2 months of care | 28.9 | 28.5 | Same | -0.56 | -3.92 | 2018 | HHCAHPS |
| Patient Safety | Deaths per 1,000 hospital admissions with expected low-mortality | 0.2 | 0.2 | Same | 0.00 | 0.00 | 2017 | HCUP |
| Patient Safety | Adults home health patients age 18 and over who reported that home health providers talked with them about the side effects of medicines in the last 2 months of care | 24.2 | 24.4 | Same | 0.26 | 1.96 | 2018 | HHCAHPS |
| Patient Safety | Home health care patients whose management of oral medications improved | 68.8 | 68.9 | Same | 0.32 | 0.98 | 2017 | OASIS |
| Patient Safety | Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions | 148.7 | 147.0 | Same | 1.16 | 0.62 | 2017 | HCUP |
| Patient Safety | Adults who reported that home health providers talked with them about the purpose for taking their new or changed prescription medicines in the last 2 months of care | 30.2 | 31.4 | Same | 1.75 | 11.77 | 2018 | HHCAHPS |
| Patient Safety | Low-risk, long-stay nursing home residents with a catheter inserted and left in the bladder | 2.8 | 2.8 | Same | 2.54 | 1.57 | 2017 | MDS |
| Patient Safety | Hospital patients who received a hypoglycemic agent who had an adverse drug events with hypoglycemic agents | 8.6 | 6.7 | Same | 29.04 | 1.60 | 2017 | MPSMS |
| Patient Safety | Adults age 65 and over who received in the calendar year at least 1 of 11 prescription medications that should be avoided in older adults | 1.9 | 1.4 | Same | 35.71 | 0.79 | 2016 | MEPS |
| Patient Safety | Adult surgery patients with catheter-associated urinary tract infection | 3.6 | 2.0 | Same | 79.80 | 1.79 | 2017 | MPSMS |
| Patient Safety | Hospital patients with an anticoagulant-related adverse drug event to low-molecular-weight heparin (LMWH) and factor Xa | 2.8 | 1.5 | Same | 84.31 | 1.77 | 2017 | MPSMS |
| Patient Safety | Adults who reported a home health provider talking with them about how to set up their home so they can move around safely when they first started getting home health care | 74.2 | 77.1 | Worse | 12.66 | 28.44 | 2018 | HHCAHPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults | 1.0 | 0.9 | Worse | 18.82 | 2.10 | 2017 | HCUP |
| Patient Safety | Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults | 5.2 | 4.4 | Worse | 19.45 | 3.96 | 2017 | HCUP |
| Patient Safety | Home health care patients whose surgical wound was improved | 89.9 | 91.9 | Worse | 24.69 | 19.61 | 2017 | OASIS |
| Patient Safety | Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults | 4.6 | 3.5 | Worse | 30.31 | 5.70 | 2017 | HCUP |
| Patient Safety | Postoperative acute kidney injury requiring dialysis per 1,000 elective surgical hospital discharges, adults | 2.8 | 2.1 | Worse | 33.33 | 6.50 | 2017 | HCUP |
| Patient Safety | Short-stay nursing home patients with pressure ulcers that are new or worsened | 0.6 | 0.4 | Worse | 47.50 | 8.50 | 2017 | MDS |
| Patient Safety | Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults | 4.8 | 3.2 | Worse | 47.84 | 11.92 | 2017 | HCUP |
| Patient Safety | Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions | 0.1 | 0.1 | Worse | 55.56 | 2.24 | 2017 | HCUP |
| Patient Safety | High-risk, long-stay nursing home patients with pressure ulcer | 7.2 | 4.3 | Worse | 68.78 | 34.29 | 2017 | MDS |

Table 2. Person-Centered Care Measures for Black vs. White

For Person-Centered Care measures, Blacks experienced better quality care compared with Whites for 3 measures, the same quality of care for 16 measures, and worse quality for 8 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|---------------|
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always asked them to describe how they will follow the instructions | 36.0 | 25.1 | Better | -14.55 | -6.05 | 2017 | MEPS |
| Person-Centered Care | Hospice patients whose hospice care team always communicated well with their family caregivers about taking care them | 82.3 | 80.2 | Better | -10.61 | -9.39 | 2018 | HOSPICE_CAHPs |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|--------------|
| Person-Centered Care | Adult hospital patients who sometimes or never had good communication about medications they received in the hospital | 9.6 | 10.7 | Better | -10.28 | -10.79 | 2018 | HCAHPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say | 6.4 | 6.9 | Same | -7.20 | -0.73 | 2017 | MEPS |
| Person-Centered Care | Adults who reported that home health providers always kept them informed about when they would arrive at their home in the last 2 months of care | 81.4 | 80.0 | Same | -7.00 | -13.73 | 2018 | HHCAHPS |
| Person-Centered Care | Family members who definitely received trainings about taking care their family member from hospice care team | 74.8 | 73.1 | Same | -6.32 | -4.12 | 2018 | HOSPICE_CAHP |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them | 7.8 | 8.2 | Same | -5.95 | -0.64 | 2017 | MEPS |
| Person-Centered Care | Hospice patients and family caregivers who always got help as soon as they need from hospice care team | 78.9 | 77.8 | Same | -4.95 | -3.48 | 2018 | HOSPICE_CAHP |
| Person-Centered Care | Adults who reported that home health providers always listen carefully to them in the last 2 months of care | 85.5 | 85.0 | Same | -3.33 | -4.90 | 2018 | HHCAHPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always offered help in filling out forms | 17.2 | 15.1 | Same | -2.47 | -1.38 | 2017 | MEPS |
| Person-Centered Care | Adults who reported being told what care and services they would get when they first started getting home health care | 89.9 | 89.7 | Same | -1.94 | -1.96 | 2018 | HHCAHPS |
| Person-Centered Care | Adults who reported getting the help or advice they needed when they contacted their home health providers in the last 2 months of care | 25.3 | 24.2 | Same | -1.45 | -10.79 | 2018 | HHCAHPS |
| Person-Centered Care | Adults who reported that home health providers always explained things in a way that was easy to understand in the last 2 months of care | 84.3 | 84.3 | Same | 0.00 | 0.00 | 2018 | HHCAHPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always gave | 73.4 | 73.6 | Same | 0.76 | 0.14 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|---------------|
| | them easy-to-understand instructions about what to do for a specific illness or health conditions | | | | | | | |
| Person-Centered Care | Hospice patients who always received enough helps for pain, sadness, breathing, or constipations from hospice care team | 74.5 | 75.3 | Same | 3.24 | 2.53 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Hospice patients whose hospice care team always treated them with dignity and respect, and really cared about them | 89.7 | 90.1 | Same | 4.04 | 1.99 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them | 11.4 | 10.7 | Same | 6.54 | 0.78 | 2017 | MEPS |
| Person-Centered Care | Family caregivers who rated the hospice care for their family member best (9-10) on a scale of 0-10 (where 0 is the worst and 10 is the best) | 79.3 | 80.9 | Same | 8.38 | 5.06 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand | 8.0 | 7.0 | Same | 14.06 | 1.33 | 2017 | MEPS |
| Person-Centered Care | Adults who reported that home health providers talk about pain in the last 2 months of care | 89.2 | 90.3 | Worse | 11.34 | 10.79 | 2018 | HHCAHPS |
| Person-Centered Care | Adults who reported that home health providers always treated them as gently as possible in the last 2 months of care | 89.3 | 91.0 | Worse | 18.89 | 16.67 | 2018 | HHCAHPS |
| Person-Centered Care | Family caregivers who would definitely recommend this hospice to their friends and family | 81.7 | 85.2 | Worse | 23.65 | 11.07 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Family caregivers who received right amount of emotional and spiritual supports from hospice care team | 87.2 | 90.0 | Worse | 28.00 | 13.93 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Adults who reported that home health providers always treated them with courtesy and respect in the last 2 months of care | 92.7 | 94.3 | Worse | 28.07 | 15.69 | 2018 | HHCAHPS |
| Person-Centered Care | Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months | 15.9 | 12.3 | Worse | 29.27 | 3.66 | 2017 | MEPS |
| Person-Centered Care | People with a usual source of care whose providers sometimes or never asked them to help make | 19.2 | 14.6 | Worse | 31.51 | 4.11 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| | decisions when there was a choice between treatments | | | | | | | |
| Person-Centered Care | Adults who did not have any problem with the care they received from their home health providers in the last 2 months of care | 91.5 | 93.7 | Worse | 34.92 | 21.57 | 2018 | HHCAHPS |

Table 3. Care Coordination Measures for Black vs. White

For Care Coordination measures, Blacks experienced better quality care compared with Whites for 1 measure, the same quality of care for 6 measures, and worse quality for 14 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over | 165.1 | 197.3 | Better | -16.32 | -6.45 | 2017 | HCUP |
| Care Coordination | Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years | 17.1 | 19.7 | Same | -13.20 | -1.64 | 2017 | HCUP |
| Care Coordination | Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over | 153.7 | 169.2 | Same | -9.16 | -3.20 | 2017 | HCUP |
| Care Coordination | Home health care patients who had an emergency department visit without a hospitalization | 3.9 | 4.0 | Same | -2.00 | -2.53 | 2017 | OASIS |
| Care Coordination | Adults who reported that home health providers always seem informed and up-to-date about all the cares or treatments they got at home in the last 2 months of care | 64.1 | 65.6 | Same | 4.36 | 14.71 | 2018 | HHCAHPS |
| Care Coordination | Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years | 34.8 | 33.2 | Same | 4.82 | 0.46 | 2017 | HCUP |
| Care Coordination | People with a usual source of care who usually asks about prescription medications and treatments from other doctors | 80.4 | 82.1 | Same | 9.50 | 1.46 | 2017 | MEPS |
| Care Coordination | Home health care patients who had an emergency department visit and then hospitalized | 13.5 | 12.1 | Worse | 11.57 | 49.50 | 2017 | OASIS |
| Care Coordination | Adult hospital patients who did not receive good communication about discharge information | 12.1 | 10.2 | Worse | 18.63 | 18.63 | 2018 | HCAHPS |
| Care Coordination | Home health care patients who had to be admitted to the hospital | 16.7 | 13.9 | Worse | 20.14 | 27.46 | 2017 | OASIS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over | 733.1 | 562.2 | Worse | 30.40 | 7.32 | 2017 | HCUP |
| Care Coordination | Adult hospital patients who strongly disagree or disagree that staff took their preferences and those of their family and caregiver into account when deciding what the patients discharge health care would be | 8.0 | 5.4 | Worse | 47.06 | 40.48 | 2018 | HCAHPS |
| Care Coordination | Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17 | 40.9 | 24.7 | Worse | 65.59 | 3.81 | 2017 | HCUP |
| Care Coordination | Hospital admissions for long-term complications of diabetes per 100,000 population, adults | 210.3 | 96.8 | Worse | 117.25 | 18.07 | 2017 | HCUP |
| Care Coordination | Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes | 60.9 | 26.8 | Worse | 127.24 | 16.54 | 2017 | HCUP |
| Care Coordination | Hospital admissions for short-term complications of diabetes per 100,000 population, adults | 141.5 | 55.4 | Worse | 155.42 | 23.20 | 2017 | HCUP |
| Care Coordination | Emergency department visits for asthma per 10,000 population, ages 2-19 | 247.5 | 84.0 | Worse | 194.64 | 4.05 | 2016 | NHAMCS |
| Care Coordination | Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults | 114.1 | 36.4 | Worse | 213.46 | 23.17 | 2017 | HCUP |
| Care Coordination | Hospital admissions for asthma per 100,000 population, adults ages 18-39 | 88.5 | 23.6 | Worse | 275.00 | 21.34 | 2017 | HCUP |
| Care Coordination | Hospital admissions for hypertension per 100,000 population, adults age 18 and over | 200.0 | 44.4 | Worse | 350.45 | 29.03 | 2017 | HCUP |
| Care Coordination | Hospital admissions for asthma per 100,000 population, children ages 2-17 | 216.5 | 41.9 | Worse | 416.71 | 9.52 | 2017 | HCUP |

Table 4. Effectiveness of Care Measures for Black vs. White

For Effectiveness of Care measures, Blacks experienced better quality care compared with Whites for 6 measures, the same quality of care for 21 measures, and worse quality for 17 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Suicide deaths among persons age 12 and over per 100,000 population | 8.0 | 19.2 | Better | -58.33 | -79.20 | 2017 | NVSS_M |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with heart failure | 16.0 | 31.3 | Better | -48.88 | -27.05 | 2017 | HCUP |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with pneumonia | 20.1 | 27.1 | Better | -25.83 | -8.68 | 2017 | HCUP |
| Effectiveness of Care | Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms | 78.4 | 73.4 | Better | -18.80 | -2.14 | 2018 | NHIS |
| Effectiveness of Care | Persons with current asthma who received written asthma management plans from their healthcare provider | 43.9 | 33.7 | Better | -15.38 | -2.64 | 2018 | NHIS |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI) | 42.8 | 50.5 | Better | -15.25 | -6.15 | 2017 | HCUP |
| Effectiveness of Care | Patients with tuberculosis who completed a curative course of treatment within 1 year of initiation of treatment | 88.6 | 87.6 | Same | -8.06 | -1.00 | 2016 | NTBSS |
| Effectiveness of Care | Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy) | 94.3 | 93.9 | Same | -6.56 | -1.26 | 2016 | NCDB |
| Effectiveness of Care | Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over | 26.9 | 28.3 | Same | -4.95 | -1.30 | 2017 | HCUP |
| Effectiveness of Care | Adults age 40 and over with diabetes whose condition was diagnosed | 82.0 | 81.1 | Same | -4.76 | -0.18 | 2016 | NHANES |
| Effectiveness of Care | People age 12 and over treated for substance abuse who completed treatment course | 39.9 | 40.2 | Same | 0.50 | 2.91 | 2017 | TEDSD |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair | 38.2 | 38.0 | Same | 0.53 | 0.04 | 2017 | HCUP |
| Effectiveness of Care | Lung cancer deaths per 100,000 population per year | 37.7 | 37.5 | Same | 0.53 | 0.63 | 2017 | NVSS_M |
| Effectiveness of Care | People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months | 8.4 | 9.2 | Same | 0.88 | 0.44 | 2018 | NSDUH |
| Effectiveness of Care | Long-stay nursing home residents have depressive symptoms | 4.6 | 4.5 | Same | 3.13 | 2.09 | 2017 | MDS |
| Effectiveness of Care | Adults with hypertension with blood pressure less than 140/90 mm/Hg | 17.1 | 19.8 | Same | 3.37 | 1.41 | 2016 | NHANES |
| Effectiveness of Care | Acute ischemic stroke patients for whom IV thrombolytic therapy was initiated at hospital within 3 hours (less than or equal to 180 minutes) of time last known well | 88.0 | 88.5 | Same | 4.35 | 0.93 | 2016 | HIQR |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler) | 19.5 | 23.0 | Same | 4.55 | 1.64 | 2016 | MEPS |
| Effectiveness of Care | Dialysis patients who were registered on a waiting list for transplantation | 12.6 | 16.6 | Same | 4.80 | 14.14 | 2017 | USRDS |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year | 60.9 | 62.7 | Same | 4.83 | 0.50 | 2017 | MEPS |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year | 65.3 | 66.9 | Same | 4.83 | 0.47 | 2017 | MEPS |
| Effectiveness of Care | People age 12 and over who needed treatment for illicit drug use and who received such treatment at a specialty facility in the last 12 months | 12.0 | 17.5 | Same | 6.67 | 1.95 | 2018 | NSDUH |
| Effectiveness of Care | Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined | 92.0 | 92.5 | Same | 6.67 | 0.79 | 2016 | NCDB |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year | 73.9 | 75.6 | Same | 6.97 | 0.48 | 2017 | MEPS |
| Effectiveness of Care | Adult end stage renal disease (ESRD) patients who saw a nephrologist at least 12 months prior to initiation of renal replacement therapy | 34.0 | 38.9 | Same | 8.02 | 13.59 | 2017 | USRDS |
| Effectiveness of Care | Patients with treated chronic kidney failure who received a transplant within 3 years of date of renal failure | 7.0 | 15.1 | Same | 9.54 | 33.69 | 2014 | USRDS |
| Effectiveness of Care | Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months | 61.6 | 66.2 | Same | 13.61 | 1.48 | 2018 | NSDUH |
| Effectiveness of Care | Persons age 13 and over living with diagnosed HIV who had at least two CD4 or viral load tests performed at least 3 months apart during the last year, among reporting jurisdictions | 54.9 | 59.3 | Worse | 10.81 | 31.11 | 2016 | HIV_AIDSSS |
| Effectiveness of Care | Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months | 36.4 | 43.5 | Worse | 12.57 | 2.17 | 2018 | NSDUH |
| Effectiveness of Care | Percent of hemodialysis patients whose hemoglobin level is less than 10 g/dL | 23.4 | 20.6 | Worse | 13.59 | 98.99 | 2018 | UMKECC |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year | 52.6 | 61.4 | Worse | 22.80 | 2.40 | 2017 | MEPS |
| Effectiveness of Care | Adult hemodialysis patients who use arteriovenous fistulas as the primary mode of vascular access | 59.7 | 67.6 | Worse | 24.38 | 48.17 | 2017 | USRDS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Adult hemodialysis patients with adequate dialysis - (Kt/V) 12 or higher | 95.8 | 96.7 | Worse | 27.27 | 40.25 | 2018 | UMKECC |
| Effectiveness of Care | Persons age 13 and over living with HIV who know their serostatus | 85.2 | 88.5 | Worse | 28.70 | 23.33 | 2016 | HIV_AIDSSS |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes with blood pressure less than 130/80 mm Hg | 39.1 | 53.1 | Worse | 29.85 | 2.85 | 2016 | NHANES |
| Effectiveness of Care | Colorectal cancer deaths per 100,000 population per year | 18.0 | 13.5 | Worse | 33.33 | 20.12 | 2017 | NVSS_M |
| Effectiveness of Care | Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over | 33.6 | 24.9 | Worse | 34.94 | 4.30 | 2017 | HCUP |
| Effectiveness of Care | Persons age 13 and over living with diagnosed HIV whose most recent viral load in the last 12 months was under 200 copies/mL | 56.1 | 67.8 | Worse | 36.34 | 82.73 | 2016 | HIV_AIDSSS |
| Effectiveness of Care | Breast cancer deaths per 100,000 female population per year | 26.9 | 19.4 | Worse | 38.66 | 23.72 | 2017 | NVSS_M |
| Effectiveness of Care | Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis | 88.6 | 93.0 | Worse | 62.86 | 8.17 | 2016 | NCDB |
| Effectiveness of Care | Hospital admissions for heart failure per 100,000 population | 828.8 | 436.7 | Worse | 89.79 | 15.71 | 2017 | HCUP |
| Effectiveness of Care | Adjusted incident rates of end stage renal disease (ESRD) due to diabetes per million population | 366.2 | 138.4 | Worse | 164.60 | 71.68 | 2017 | USRDS |
| Effectiveness of Care | HIV infection deaths per 100,000 population | 6.6 | 0.9 | Worse | 633.33 | 55.89 | 2017 | NVSS_M |
| Effectiveness of Care | New HIV cases per 100,000 population age 13 and over | 52.0 | 5.9 | Worse | 781.36 | 111.81 | 2016 | HIV_AIDSSS |

Table 5. Healthy Living Measures for Black vs. White

For Healthy Living measures, Blacks experienced better quality care compared with Whites for 6 measures, the same quality of care for 36 measures, and worse quality for 30 measures, 2016-2018.

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Long-stay nursing home residents with moderate to severe pain | 4.2 | 6.9 | Better | -39.71 | -40.85 | 2017 | MDS |
| Healthy Living | Children ages 0-17 with wellness checkup in the past 12 months | 90.2 | 86.1 | Better | -29.50 | -3.52 | 2018 | NHIS |
| Healthy Living | Women ages 21-65 who received a Pap smear in the last 3 years | 85.8 | 80.7 | Better | -26.42 | -3.45 | 2018 | NHIS |
| Healthy Living | Adults who received a blood cholesterol measurement in the last 5 years | 90.2 | 87.3 | Better | -22.83 | -3.24 | 2017 | NHIS |
| Healthy Living | Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child | 53.8 | 47.6 | Better | -11.83 | -2.35 | 2017 | MEPS |
| Healthy Living | Short-stay nursing home residents with moderate to severe pain | 10.5 | 11.7 | Better | -10.26 | -11.77 | 2017 | MDS |
| Healthy Living | Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine | 87.3 | 85.4 | Same | -13.01 | -0.72 | 2017 | NIS_TEEN |
| Healthy Living | Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of ten years | 89.8 | 88.4 | Same | -12.07 | -1.01 | 2017 | NIS_TEEN |
| Healthy Living | Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high | 93.6 | 92.8 | Same | -11.11 | -1.19 | 2017 | NHIS |
| Healthy Living | Long-stay nursing home residents whose ability to move independently worsened | 22.3 | 24.5 | Same | -8.98 | -9.84 | 2017 | MDS |
| Healthy Living | Long-stay nursing home residents with physical restraints | 0.3 | 0.4 | Same | -8.11 | -1.34 | 2017 | MDS |
| Healthy Living | Adults with obesity who ever received advice from a health professional to exercise more | 64.9 | 62.2 | Same | -7.14 | -1.50 | 2016 | MEPS |
| Healthy Living | Long-stay nursing home residents with too much weight loss | 5.1 | 5.5 | Same | -5.69 | -4.62 | 2017 | MDS |
| Healthy Living | Low-risk, long-stay nursing home residents with loss of control of bowels or bladder | 72.4 | 76.6 | Same | -5.48 | -3.48 | 2017 | MDS |
| Healthy Living | Long-stay nursing home residents whose need for help with daily activities increased | 20.0 | 21.1 | Same | -5.21 | -7.78 | 2017 | MDS |
| Healthy Living | Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination | 26.1 | 22.5 | Same | -4.65 | -1.63 | 2018 | NHIS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Adult current smokers who had a doctor's office or clinic visit in the last 12 months who received advice to quit smoking from their providers | 77.0 | 76.2 | Same | -3.36 | -0.27 | 2017 | MEPS |
| Healthy Living | Children with obesity 2-19 years of age who had been told by a doctor or health professional that they were overweight | 43.2 | 41.3 | Same | -3.20 | -0.43 | 2016 | NHANES |
| Healthy Living | Women ages 50-74 who received a mammogram in the last 2 years | 73.6 | 73.0 | Same | -2.22 | -0.25 | 2018 | NHIS |
| Healthy Living | Adolescent males ages 13-15 who received 3 or more doses of human papillomavirus (HPV) vaccine | 31.0 | 30.2 | Same | -1.15 | -0.27 | 2017 | NIS_TEEN |
| Healthy Living | Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car | 37.5 | 36.8 | Same | -1.11 | -0.20 | 2017 | MEPS |
| Healthy Living | Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods | 47.8 | 48.0 | Same | 0.38 | 0.12 | 2016 | MEPS |
| Healthy Living | Adolescent males ages 16-17 who received 3 or more doses of human papillomavirus (HPV) vaccine | 5.4 | 6.7 | Same | 1.39 | 0.82 | 2017 | NIS_TEEN |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy | 65.2 | 65.7 | Same | 1.46 | 0.20 | 2017 | MEPS |
| Healthy Living | Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of ten years | 89.3 | 89.5 | Same | 1.90 | 0.08 | 2017 | NIS_TEEN |
| Healthy Living | Adolescents females ages 13-15 who received 3 or more doses human papillomavirus vaccine | 35.5 | 38.9 | Same | 5.56 | 1.01 | 2017 | NIS_TEEN |
| Healthy Living | Children ages 6 months to 17 years who received influenza vaccination in the last flu season | 50.0 | 52.7 | Same | 5.71 | 0.68 | 2018 | NHIS |
| Healthy Living | Home health care patients whose shortness of breath decreased | 77.5 | 78.8 | Same | 6.13 | 12.75 | 2017 | OASIS |
| Healthy Living | Home health care patients whose pain when moving around decreased | 77.8 | 79.1 | Same | 6.22 | 12.75 | 2017 | OASIS |
| Healthy Living | Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season | 47.6 | 51.2 | Same | 7.38 | 0.90 | 2018 | NHIS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle | 36.4 | 40.8 | Same | 7.43 | 1.61 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine | 83.7 | 84.9 | Same | 7.95 | 0.65 | 2017 | NIS_TEEN |
| Healthy Living | Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine | 90.9 | 91.6 | Same | 8.33 | 0.54 | 2017 | NIS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have | 45.7 | 49.9 | Same | 8.38 | 1.59 | 2017 | MEPS |
| Healthy Living | Home health care patients who stayed at home after an episode of home health care | 80.5 | 82.1 | Same | 8.94 | 15.69 | 2017 | OASIS |
| Healthy Living | Adolescents females ages 16-17 who received 3 or more doses human papillomavirus vaccine | 47.4 | 52.7 | Same | 11.21 | 1.18 | 2017 | NIS_TEEN |
| Healthy Living | Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car | 61.4 | 66.2 | Same | 14.20 | 1.07 | 2017 | MEPS |
| Healthy Living | Children ages 3-5 who ever had their vision checked by a health provider | 65.0 | 70.7 | Same | 19.45 | 1.33 | 2017 | MEPS |
| Healthy Living | Children ages 19-35 months who received 1 or more doses of varicella vaccine | 89.2 | 91.2 | Same | 22.73 | 1.54 | 2017 | NIS |
| Healthy Living | Children ages 19-35 months who received 3 or more doses of polio vaccine | 91.2 | 93.0 | Same | 25.71 | 1.38 | 2017 | NIS |
| Healthy Living | Children who had their height and weight measured by a health provider within the past 2 years | 93.0 | 94.6 | Same | 29.63 | 1.37 | 2017 | MEPS |
| Healthy Living | Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine | 89.5 | 92.0 | Same | 31.25 | 1.92 | 2017 | NIS |
| Healthy Living | Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over | 301.7 | 272.8 | Worse | 10.59 | 2.57 | 2017 | HCUP |
| Healthy Living | Hospital patients who received influenza vaccination | 93.0 | 93.8 | Worse | 12.90 | 7.84 | 2017 | HIQR |
| Healthy Living | Home health care patients whose bathing improved | 77.1 | 79.8 | Worse | 13.37 | 26.48 | 2017 | OASIS |
| Healthy Living | Cervical cancer diagnosed at advanced stage (all invasive tumors) per 100,000 women age 20 and over | 12.2 | 10.6 | Worse | 15.09 | 5.06 | 2016 | NPCR_USCS |
| Healthy Living | Home health patients who had improvement in toileting | 73.0 | 76.6 | Worse | 15.38 | 35.30 | 2017 | OASIS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Adults ages 18 and over who received influenza vaccination in the last flu season | 38.4 | 47.1 | Worse | 16.45 | 4.83 | 2018 | NHIS |
| Healthy Living | Home health patients who had improvement in upper body dressing | 76.0 | 79.4 | Worse | 16.50 | 33.34 | 2017 | OASIS |
| Healthy Living | Home health care patients whose ability to walk or move around improved | 73.9 | 77.8 | Worse | 17.57 | 38.24 | 2017 | OASIS |
| Healthy Living | Colorectal cancer diagnosed at advanced stage (tumors diagnosed at regional or distant stage) per 100,000 population age 50 and over | 74.9 | 63.7 | Worse | 17.58 | 13.11 | 2016 | NPCR_USCS |
| Healthy Living | Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car | 38.9 | 49.0 | Worse | 19.80 | 2.68 | 2017 | MEPS |
| Healthy Living | Home health care patients whose ability to get in and out of bed improved | 72.6 | 77.2 | Worse | 20.18 | 45.11 | 2017 | OASIS |
| Healthy Living | Breast cancer diagnosed at advanced stage (regional, distant stage, or local stage with tumor greater than 2 cm) per 100,000 women age 40 and over | 102.5 | 84.3 | Worse | 21.59 | 16.90 | 2016 | NPCR_USCS |
| Healthy Living | Adults with a dental visit in the calendar year | 19.7 | 36.6 | Worse | 26.66 | 15.90 | 2017 | MEPS |
| Healthy Living | Adults who received a preventive dental service in the calendar year | 28.1 | 44.4 | Worse | 29.32 | 14.30 | 2017 | MEPS |
| Healthy Living | Adults with obesity age 20 and over who had been told by a doctor or health professional that they were overweight | 65.0 | 73.2 | Worse | 30.60 | 3.51 | 2016 | NHANES |
| Healthy Living | Children ages 2-17 who received a preventive dental service in the calendar year | 33.8 | 50.4 | Worse | 33.47 | 6.37 | 2017 | MEPS |
| Healthy Living | Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine | 78.8 | 84.4 | Worse | 35.90 | 2.90 | 2017 | NIS |
| Healthy Living | Children ages 2-17 who had a dental visit in the calendar year | 41.5 | 57.6 | Worse | 37.97 | 6.09 | 2017 | MEPS |
| Healthy Living | Adults age 65 and over who ever received pneumococcal vaccination | 59.8 | 70.9 | Worse | 38.14 | 4.23 | 2018 | NHIS |
| Healthy Living | Children ages 2-19 with obesity | 20.4 | 14.7 | Worse | 38.78 | 2.89 | 2016 | NHANES |
| Healthy Living | Children ages 5-17 with untreated dental caries | 21.2 | 14.2 | Worse | 49.30 | 3.27 | 2016 | NHANES |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Adults age 65 and over who received an influenza vaccination in the last flu season | 59.0 | 73.2 | Worse | 52.99 | 4.44 | 2018 | NHIS |
| Healthy Living | Long-stay nursing home residents who were assessed for pneumococcal vaccination | 89.5 | 93.2 | Worse | 54.41 | 36.28 | 2017 | MDS |
| Healthy Living | Short-stay nursing home residents who were assessed for pneumococcal vaccination | 79.6 | 87.0 | Worse | 56.92 | 72.56 | 2017 | MDS |
| Healthy Living | Long-stay nursing home patients who were assessed and appropriately given the seasonal influenza vaccine | 87.4 | 92.0 | Worse | 57.50 | 45.11 | 2017 | MDS |
| Healthy Living | Home health patients who had influenza vaccination during flu season | 93.0 | 95.9 | Worse | 70.73 | 102.53 | 2017 | OASIS |
| Healthy Living | Home health patients who had pneumococcal polysaccharide vaccination | 77.2 | 86.9 | Worse | 74.05 | 95.12 | 2017 | OASIS |
| Healthy Living | Infant mortality per 1,000 live births, birth weight 2,500 grams or more | 3.2 | 1.8 | Worse | 77.78 | 13.73 | 2017 | NVSS_L |
| Healthy Living | Short-stay nursing home patients who had flu vaccination appropriately given | 78.7 | 88.3 | Worse | 82.05 | 94.14 | 2017 | MDS |
| Healthy Living | Live-born infants with low birth weight (less than 2,500 g) | 13.5 | 7.1 | Worse | 90.14 | 226.27 | 2018 | NVSS_N |

Table 6. Affordable Care Measures for Black vs. White

For Affordable Care measures, Blacks did not experience better quality care compared with Whites for any measure; they experienced the same quality of care for 2 measures, and worse quality for 3 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Affordable Care | People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income | 14.9 | 17.0 | Same | -12.20 | -1.85 | 2017 | MEPS |
| Affordable Care | People without a usual source of care who indicated a financial or insurance reason for not having a source of care | 11.9 | 13.2 | Same | -9.85 | -0.90 | 2017 | MEPS |
| Affordable Care | People unable to get or delayed in getting needed dental care due to financial or insurance reasons | 77.7 | 69.6 | Worse | 11.64 | 2.25 | 2017 | MEPS |
| Affordable Care | People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons | 70.3 | 55.5 | Worse | 26.67 | 2.65 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Affordable Care | People unable to get or delayed in getting needed medical care due to financial or insurance reasons | 57.7 | 39.4 | Worse | 46.45 | 3.82 | 2017 | MEPS |

Asian vs. White

Table 7. Patient Safety Measures for Asian vs. White

For Patient Safety measures, Asians experienced better quality care compared with Whites for 11 measures, the same quality of care for 14 measures, and worse quality for 6 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Adult surgery patients with postoperative venous thromboembolic events | 0.0 | 0.5 | Better | -100.00 | -4.51 | 2016 | MPSMS |
| Patient Safety | Adult surgery patients with postoperative pneumonia events | 0.0 | 1.2 | Better | -100.00 | -7.26 | 2016 | MPSMS |
| Patient Safety | Deaths per 1,000 hospital admissions with expected low-mortality | 0.1 | 0.2 | Better | -66.67 | -7.16 | 2017 | HCUP |
| Patient Safety | Long-stay nursing home patients experiencing one or more falls with major injury | 0.3 | 0.7 | Better | -56.52 | -9.46 | 2017 | MDS |
| Patient Safety | Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults | 0.1 | 0.1 | Better | -50.00 | -2.24 | 2017 | HCUP |
| Patient Safety | Long-stay nursing home residents with a urinary tract infection | 1.3 | 2.4 | Better | -46.03 | -13.34 | 2017 | MDS |
| Patient Safety | Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults | 5.6 | 10.0 | Better | -44.00 | -2.72 | 2016 | MEPS |
| Patient Safety | Adults who reported a home health provider asking to see all the prescription and over-the-counter medicines they were taking, when they first started getting home health care | 81.8 | 75.1 | Better | -26.91 | -22.28 | 2018 | HHCAHPS |
| Patient Safety | Low-risk, long-stay nursing home residents with a catheter inserted and left in the bladder | 2.0 | 2.8 | Better | -26.45 | -7.16 | 2017 | MDS |
| Patient Safety | Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults | 2.4 | 3.2 | Better | -26.23 | -6.10 | 2017 | HCUP |
| Patient Safety | High-risk, long-stay nursing home patients with pressure ulcer | 3.4 | 4.3 | Better | -20.19 | -5.28 | 2017 | MDS |
| Patient Safety | Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children | 0.3 | 0.3 | Same | -24.24 | -1.11 | 2017 | HCUP |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults | 0.6 | 0.7 | Same | -23.61 | -1.49 | 2017 | HCUP |
| Patient Safety | Short-stay nursing home patients with pressure ulcers that are new or worsened | 0.3 | 0.4 | Same | -15.00 | -1.66 | 2017 | MDS |
| Patient Safety | Birth trauma - injury to neonate per 1,000 selected live births | 5.1 | 5.3 | Same | -3.58 | -0.44 | 2017 | HCUP |
| Patient Safety | Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions | 0.1 | 0.1 | Same | 0.00 | 0.00 | 2017 | HCUP |
| Patient Safety | Adults home health patients age 18 and over who reported that home health providers talked with them about the side effects of medicines in the last 2 months of care | 23.7 | 24.4 | Same | 0.93 | 2.33 | 2018 | HHCAHPS |
| Patient Safety | Adults who reported that home health providers talked with them about when to take medicines in the last 2 months of care | 27.1 | 28.5 | Same | 1.96 | 4.66 | 2018 | HHCAHPS |
| Patient Safety | Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults | 4.6 | 4.4 | Same | 4.58 | 0.60 | 2017 | HCUP |
| Patient Safety | Adults who reported that home health providers talked with them about the purpose for taking their new or changed prescription medicines in the last 2 months of care | 28.1 | 31.4 | Same | 4.81 | 10.98 | 2018 | HHCAHPS |
| Patient Safety | Adults who reported a home health provider talking with them about how to set up their home so they can move around safely when they first started getting home health care | 75.3 | 77.1 | Same | 7.86 | 5.99 | 2018 | HHCAHPS |
| Patient Safety | Adults who reported a home health provider talking with them about all the prescription and over-the-counter medicines they were taking when they first started getting home health care | 82.6 | 84.0 | Same | 8.75 | 4.66 | 2018 | HHCAHPS |
| Patient Safety | Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults | 0.2 | 0.2 | Same | 9.52 | 0.71 | 2017 | HCUP |
| Patient Safety | Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults | 1.0 | 0.9 | Same | 12.94 | 0.82 | 2017 | HCUP |
| Patient Safety | Hospital patients who received a hypoglycemic agent who had an adverse drug events with hypoglycemic agents | 10.3 | 6.7 | Same | 54.34 | 1.16 | 2017 | MPSMS |
| Patient Safety | Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions | 169.1 | 147.0 | Worse | 15.03 | 4.08 | 2017 | HCUP |
| Patient Safety | Home health care patients whose surgical wound was improved | 90.3 | 91.9 | Worse | 19.75 | 5.32 | 2017 | OASIS |

Disparities Measures

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults | 1.3 | 1.1 | Worse | 26.42 | 2.26 | 2017 | HCUP |
| Patient Safety | Home health care patients whose management of oral medications improved | 58.1 | 68.9 | Worse | 34.73 | 53.73 | 2017 | OASIS |
| Patient Safety | Postoperative acute kidney injury requiring dialysis per 1,000 elective surgical hospital discharges, adults | 3.6 | 2.1 | Worse | 71.43 | 7.73 | 2017 | HCUP |
| Patient Safety | Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults | 6.1 | 3.5 | Worse | 72.24 | 6.74 | 2017 | HCUP |

Table 8. Person-Centered Care Measures for Asian vs. White

For Person-Centered Care measures, Asians experienced better quality care compared with Whites for 1 measure, the same quality of care for 10 measures, and worse quality for 18 measures.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Person-Centered Care | Adults with limited English proficiency who had a usual source of care | 79.7 | 63.4 | Better | -44.54 | -3.63 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always asked them to describe how they will follow the instructions | 31.1 | 25.1 | Same | -8.01 | -2.10 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them | 7.8 | 8.2 | Same | -5.58 | -0.37 | 2017 | MEPS |
| Person-Centered Care | Adults who reported getting the help or advice they needed when they contacted their home health providers in the last 2 months of care | 27.7 | 24.2 | Same | -4.62 | -11.64 | 2018 | HHCAHPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always offered help in filling out forms | 17.8 | 15.1 | Same | -3.18 | -1.09 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say | 6.8 | 6.9 | Same | -2.59 | -0.16 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|---------------|
| Person-Centered Care | Adult hospital patients who sometimes or never had good communication about medications they received in the hospital | 10.5 | 10.7 | Same | -1.87 | -1.96 | 2018 | HCAHPS |
| Person-Centered Care | Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months | 13.1 | 12.3 | Same | 6.50 | 0.49 | 2017 | MEPS |
| Person-Centered Care | Family members who definitely received trainings about taking care their family member from hospice care team | 70.8 | 73.1 | Same | 8.55 | 3.25 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments | 16.8 | 14.6 | Same | 15.07 | 1.24 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them | 13.1 | 10.7 | Same | 22.43 | 1.30 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions | 67.3 | 73.6 | Worse | 23.86 | 2.52 | 2017 | MEPS |
| Person-Centered Care | Hospice patients whose hospice care team always communicated well with their family caregivers about taking care them | 74.6 | 80.2 | Worse | 28.28 | 10.98 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Adults who reported that home health providers talk about pain in the last 2 months of care | 87.5 | 90.3 | Worse | 28.87 | 13.93 | 2018 | HHCAHPS |
| Person-Centered Care | Hospice patients who always received enough helps for pain, sadness, breathing, or constipations from hospice care team | 68.0 | 75.3 | Worse | 29.55 | 12.00 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Family caregivers who received right amount of emotional and spiritual supports from hospice care team | 87.0 | 90.0 | Worse | 30.00 | 7.49 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Adults who reported being told what care and services they would get when they first started getting home health care | 86.4 | 89.7 | Worse | 32.04 | 16.42 | 2018 | HHCAHPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|---------------|
| Person-Centered Care | Family caregivers who would definitely recommend this hospice to their friends and family | 79.9 | 85.2 | Worse | 35.81 | 7.50 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Family caregivers who rated the hospice care for their family member best (9-10) on a scale of 0-10 (where 0 is the worst and 10 is the best) | 73.6 | 80.9 | Worse | 38.22 | 10.32 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Adults who reported that home health providers always kept them informed about when they would arrive at their home in the last 2 months of care | 72.1 | 80.0 | Worse | 39.50 | 26.28 | 2018 | HHCAHPS |
| Person-Centered Care | Adults who did not have any problem with the care they received from their home health providers in the last 2 months of care | 91.0 | 93.7 | Worse | 42.86 | 13.43 | 2018 | HHCAHPS |
| Person-Centered Care | Hospice patients and family caregivers who always got help as soon as they need from hospice care team | 67.0 | 77.8 | Worse | 48.65 | 15.27 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Adults who reported that home health providers always listen carefully to them in the last 2 months of care | 76.8 | 85.0 | Worse | 54.67 | 27.27 | 2018 | HHCAHPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand | 11.2 | 7.0 | Worse | 59.66 | 3.13 | 2017 | MEPS |
| Person-Centered Care | Hospice patients whose hospice care team always treated them with dignity and respect, and really cared about them | 83.8 | 90.1 | Worse | 63.64 | 12.59 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Adults who reported that home health providers always explained things in a way that was easy to understand in the last 2 months of care | 73.1 | 84.3 | Worse | 71.34 | 37.25 | 2018 | HHCAHPS |
| Person-Centered Care | Adults who reported that home health providers always treated them as gently as possible in the last 2 months of care | 80.6 | 91.0 | Worse | 115.56 | 34.59 | 2018 | HHCAHPS |
| Person-Centered Care | Adults who reported that home health providers always treated them with courtesy and respect in the last 2 months of care | 85.2 | 94.3 | Worse | 159.65 | 30.27 | 2018 | HHCAHPS |
| Person-Centered Care | Adults with limited English proficiency and usual source of care (USC) and the USC had language assistance | 78.9 | 94.8 | Worse | 305.77 | 3.17 | 2017 | MEPS |

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Table 9. Care Coordination Measures for Asian vs. White

For Care Coordination measures, Asians experienced better quality care compared with Whites for 15 measures, the same quality of care for 2 measures, and worse quality for 3 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | Hospital admissions for short-term complications of diabetes per 100,000 population, adults | 11.7 | 55.4 | Better | -78.88 | -34.33 | 2017 | HCUP |
| Care Coordination | Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over | 143.6 | 562.2 | Better | -74.46 | -33.80 | 2017 | HCUP |
| Care Coordination | Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17 | 6.5 | 24.7 | Better | -73.68 | -8.03 | 2017 | HCUP |
| Care Coordination | Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over | 45.0 | 169.2 | Better | -73.40 | -32.99 | 2017 | HCUP |
| Care Coordination | Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over | 58.5 | 197.3 | Better | -70.35 | -33.76 | 2017 | HCUP |
| Care Coordination | Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes | 8.2 | 26.8 | Better | -69.40 | -18.07 | 2017 | HCUP |
| Care Coordination | Hospital admissions for asthma per 100,000 population, adults ages 18-39 | 7.4 | 23.6 | Better | -68.64 | -17.17 | 2017 | HCUP |
| Care Coordination | Hospital admissions for long-term complications of diabetes per 100,000 population, adults | 30.6 | 96.8 | Better | -68.39 | -22.71 | 2017 | HCUP |
| Care Coordination | Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults | 18.2 | 36.4 | Better | -50.00 | -11.95 | 2017 | HCUP |
| Care Coordination | Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years | 11.7 | 19.7 | Better | -40.61 | -5.06 | 2017 | HCUP |
| Care Coordination | Hospital admissions for hypertension per 100,000 population, adults age 18 and over | 28.6 | 44.4 | Better | -35.59 | -7.66 | 2017 | HCUP |
| Care Coordination | Home health care patients who had an emergency department visit without a hospitalization | 2.7 | 4.0 | Better | -33.25 | -21.87 | 2017 | OASIS |
| Care Coordination | Home health care patients who had an emergency department visit and then hospitalized | 8.4 | 12.1 | Better | -30.58 | -36.28 | 2017 | OASIS |
| Care Coordination | Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years | 23.3 | 33.2 | Better | -29.82 | -2.88 | 2017 | HCUP |
| Care Coordination | Home health care patients who had to be admitted to the hospital | 10.5 | 13.9 | Better | -24.46 | -33.34 | 2017 | OASIS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | Adult hospital patients who strongly disagree or disagree that staff took their preferences and those of their family and caregiver into account when deciding what the patients discharge health care would be | 5.0 | 5.4 | Same | -7.90 | -5.21 | 2018 | HCAHPS |
| Care Coordination | Hospital admissions for asthma per 100,000 population, children ages 2-17 | 46.9 | 41.9 | Same | 11.93 | 0.63 | 2017 | HCUP |
| Care Coordination | Adult hospital patients who did not receive good communication about discharge information | 11.7 | 10.2 | Worse | 14.71 | 14.71 | 2018 | HCAHPS |
| Care Coordination | Adults who reported that home health providers always seem informed and up-to-date about all the cares or treatments they got at home in the last 2 months of care | 51.4 | 65.6 | Worse | 41.28 | 35.46 | 2018 | HHCAHPS |
| Care Coordination | People with a usual source of care who usually asks about prescription medications and treatments from other doctors | 74.1 | 82.1 | Worse | 44.69 | 3.83 | 2017 | MEPS |

Table 10. Effectiveness of Care Measures for Asian vs. White

For Effectiveness of Care measures, Asians experienced better quality care compared with Whites for 10 measures, the same quality of care for 22 measures, and worse quality for 8 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | HIV infection deaths per 100,000 population | 0.3 | 0.9 | Better | -66.67 | -21.21 | 2017 | NVSS_M |
| Effectiveness of Care | Hospital admissions for heart failure per 100,000 population | 161.4 | 436.7 | Better | -63.04 | -21.59 | 2017 | HCUP |
| Effectiveness of Care | Suicide deaths among persons age 12 and over per 100,000 population | 8.0 | 19.2 | Better | -58.33 | -50.09 | 2017 | NVSS_M |
| Effectiveness of Care | Lung cancer deaths per 100,000 population per year | 20.3 | 37.5 | Better | -45.87 | -54.39 | 2017 | NVSS_M |
| Effectiveness of Care | Breast cancer deaths per 100,000 female population per year | 11.7 | 19.4 | Better | -39.69 | -24.35 | 2017 | NVSS_M |
| Effectiveness of Care | Patients with tuberculosis who completed a curative course of treatment within 1 year of initiation of treatment | 91.8 | 87.6 | Better | -33.87 | -5.38 | 2016 | NTBSS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Acute ischemic stroke patients for whom IV thrombolytic therapy was initiated at hospital within 3 hours (less than or equal to 180 minutes) of time last known well | 92.3 | 88.5 | Better | -33.04 | -4.12 | 2016 | HIQR |
| Effectiveness of Care | Colorectal cancer deaths per 100,000 population per year | 9.3 | 13.5 | Better | -31.11 | -18.78 | 2017 | NVSS_M |
| Effectiveness of Care | Adult hemodialysis patients with adequate dialysis - (Kt/V) 12 or higher | 97.5 | 96.7 | Better | -24.24 | -25.30 | 2018 | UMKECC |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with heart failure | 26.1 | 31.3 | Better | -16.61 | -3.82 | 2017 | HCUP |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes with blood pressure less than 130/80 mm Hg | 59.5 | 53.1 | Same | -13.65 | -0.95 | 2016 | NHANES |
| Effectiveness of Care | Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined | 93.4 | 92.5 | Same | -12.00 | -0.98 | 2016 | NCDB |
| Effectiveness of Care | Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy) | 94.5 | 93.9 | Same | -9.84 | -1.18 | 2016 | NCDB |
| Effectiveness of Care | Dialysis patients who were registered on a waiting list for transplantation | 24.2 | 16.6 | Same | -9.11 | -10.44 | 2017 | USRDS |
| Effectiveness of Care | Persons with current asthma who received written asthma management plans from their healthcare provider | 39.2 | 33.7 | Same | -8.30 | -0.84 | 2018 | NHIS |
| Effectiveness of Care | Adult hemodialysis patients who use arteriovenous fistulas as the primary mode of vascular access | 70.1 | 67.6 | Same | -7.72 | -7.91 | 2017 | USRDS |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year | 63.8 | 62.6 | Same | -3.21 | -0.19 | 2016 | MEPS |
| Effectiveness of Care | Long-stay nursing home residents have depressive symptoms | 4.5 | 4.5 | Same | -0.22 | -0.06 | 2017 | MDS |
| Effectiveness of Care | Adult end stage renal disease (ESRD) patients who saw a nephrologist at least 12 months prior to initiation of renal replacement therapy | 38.7 | 38.9 | Same | 0.33 | 0.32 | 2017 | USRDS |
| Effectiveness of Care | Patients with treated chronic kidney failure who received a transplant within 3 years of date of renal failure | 14.8 | 15.1 | Same | 0.35 | 0.50 | 2014 | USRDS |
| Effectiveness of Care | Percent of hemodialysis patients whose hemoglobin level is less than 10 g/dL | 21.0 | 20.6 | Same | 1.94 | 3.92 | 2018 | UMKECC |
| Effectiveness of Care | Persons age 13 and over living with diagnosed HIV who had at least two CD4 or viral load tests performed at least 3 | 58.2 | 59.3 | Same | 2.70 | 2.16 | 2016 | HIV_AIDSSS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| | months apart during the last year, among reporting jurisdictions | | | | | | | |
| Effectiveness of Care | Persons age 13 and over living with diagnosed HIV whose most recent viral load in the last 12 months was under 200 copies/mL | 66.6 | 67.8 | Same | 3.73 | 2.91 | 2016 | HIV_AIDSSS |
| Effectiveness of Care | People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months | 2.2 | 8.0 | Same | 6.30 | 4.26 | 2017 | NSDUH |
| Effectiveness of Care | New HIV cases per 100,000 population age 13 and over | 6.3 | 5.9 | Same | 6.78 | 1.79 | 2016 | HIV_AIDSSS |
| Effectiveness of Care | Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over | 27.1 | 24.9 | Same | 8.84 | 0.92 | 2017 | HCUP |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with pneumonia | 30.2 | 27.1 | Same | 11.44 | 1.78 | 2017 | HCUP |
| Effectiveness of Care | Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over | 31.9 | 28.3 | Same | 12.72 | 1.77 | 2017 | HCUP |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year | 58.3 | 64.1 | Same | 16.16 | 0.92 | 2016 | MEPS |
| Effectiveness of Care | Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms | 67.9 | 73.4 | Same | 20.68 | 1.26 | 2018 | NHIS |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year | 58.3 | 67.5 | Same | 28.31 | 1.51 | 2016 | MEPS |
| Effectiveness of Care | Adults age 40 and over with diabetes whose condition was diagnosed | 68.6 | 81.1 | Same | 66.14 | 1.78 | 2016 | NHANES |
| Effectiveness of Care | Adults with hypertension with blood pressure less than 140/90 mm/Hg | 9.9 | 19.8 | Worse | 12.34 | 5.00 | 2016 | NHANES |
| Effectiveness of Care | People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler) | 10.5 | 23.0 | Worse | 16.23 | 4.58 | 2016 | MEPS |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI) | 60.4 | 50.5 | Worse | 19.60 | 4.74 | 2017 | HCUP |
| Effectiveness of Care | Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis | 90.8 | 93.0 | Worse | 31.43 | 2.67 | 2016 | NCDB |
| Effectiveness of Care | Adjusted incident rates of end stage renal disease (ESRD) due to diabetes per million population | 210.5 | 138.4 | Worse | 52.10 | 20.20 | 2017 | USRDS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair | 59.4 | 38.0 | Worse | 56.32 | 2.10 | 2017 | HCUP |
| Effectiveness of Care | Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months | 44.0 | 66.2 | Worse | 65.68 | 4.26 | 2018 | NSDUH |
| Effectiveness of Care | Persons age 13 and over living with HIV who know their serostatus | 80.9 | 88.5 | Worse | 66.09 | 24.03 | 2016 | HIV_AIDSSS |

Table 11. Healthy Living Measures for Asian vs. White

For Healthy Living measures, Asians experienced better quality care compared with Whites for 17 measures, the same quality of care for 29 measures, and worse quality for 17 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Long-stay nursing home residents with moderate to severe pain | 1.5 | 6.9 | Better | -77.68 | -47.01 | 2017 | MDS |
| Healthy Living | Short-stay nursing home residents with moderate to severe pain | 4.5 | 11.7 | Better | -61.54 | -70.60 | 2017 | MDS |
| Healthy Living | Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine | 93.1 | 84.9 | Better | -54.30 | -4.70 | 2017 | NIS_TEEN |
| Healthy Living | Children ages 2-19 with obesity | 9.8 | 14.7 | Better | -33.33 | -3.14 | 2016 | NHANES |
| Healthy Living | Adults who received a blood cholesterol measurement in the last 5 years | 91.0 | 87.3 | Better | -29.13 | -3.44 | 2017 | NHIS |
| Healthy Living | Home health care patients who stayed at home after an episode of home health care | 87.2 | 82.1 | Better | -28.49 | -50.01 | 2017 | OASIS |
| Healthy Living | Infant mortality per 1,000 live births, birth weight 2,500 grams or more | 1.3 | 1.8 | Better | -27.78 | -4.90 | 2017 | NVSS_L |
| Healthy Living | Children ages 6 months to 17 years who received influenza vaccination in the last flu season | 65.6 | 52.7 | Better | -27.27 | -2.71 | 2018 | NHIS |
| Healthy Living | Breast cancer diagnosed at advanced stage (regional, distant stage, or local stage with tumor greater than 2 cm) per 100,000 women age 40 and over | 62.8 | 84.3 | Better | -25.50 | -17.00 | 2016 | NPCR_USCS |
| Healthy Living | Low-risk, long-stay nursing home residents with loss of control of bowels or bladder | 58.6 | 76.6 | Better | -23.50 | -7.65 | 2017 | MDS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Long-stay nursing home residents whose ability to move independently worsened | 18.9 | 24.5 | Better | -22.86 | -13.58 | 2017 | MDS |
| Healthy Living | Cervical cancer diagnosed at advanced stage (all invasive tumors) per 100,000 women age 20 and over | 8.2 | 10.6 | Better | -22.64 | -7.59 | 2016 | NPCR_USCS |
| Healthy Living | Long-stay nursing home residents with too much weight loss | 4.3 | 5.5 | Better | -21.10 | -7.52 | 2017 | MDS |
| Healthy Living | Colorectal cancer diagnosed at advanced stage (tumors diagnosed at regional or distant stage) per 100,000 population age 50 and over | 51.3 | 63.7 | Better | -19.47 | -11.88 | 2016 | NPCR_USCS |
| Healthy Living | Long-stay nursing home residents whose need for help with daily activities increased | 17.0 | 21.1 | Better | -19.43 | -9.94 | 2017 | MDS |
| Healthy Living | Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over | 226.1 | 272.8 | Better | -17.12 | -2.91 | 2017 | HCUP |
| Healthy Living | Long-stay nursing home patients who were assessed and appropriately given the seasonal influenza vaccine | 93.1 | 92.0 | Better | -13.75 | -5.47 | 2017 | MDS |
| Healthy Living | Children ages 19-35 months who received 1 or more doses of varicella vaccine | 93.4 | 91.2 | Same | -25.00 | -0.90 | 2017 | NIS |
| Healthy Living | Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season | 62.0 | 51.2 | Same | -22.13 | -1.62 | 2018 | NHIS |
| Healthy Living | Adults age 65 and over who received an influenza vaccination in the last flu season | 78.6 | 73.2 | Same | -20.15 | -1.14 | 2018 | NHIS |
| Healthy Living | Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine | 87.6 | 85.4 | Same | -15.07 | -0.72 | 2017 | NIS_TEEN |
| Healthy Living | Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine | 86.7 | 84.4 | Same | -14.74 | -0.80 | 2017 | NIS |
| Healthy Living | Children ages 19-35 months who received 3 or more doses of polio vaccine | 93.9 | 93.0 | Same | -12.86 | -0.37 | 2017 | NIS |
| Healthy Living | Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine | 92.9 | 92.0 | Same | -11.25 | -0.35 | 2017 | NIS |
| Healthy Living | Long-stay nursing home residents who were assessed for pneumococcal vaccination | 93.7 | 93.2 | Same | -7.35 | -2.49 | 2017 | MDS |
| Healthy Living | Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine | 92.2 | 91.6 | Same | -7.14 | -0.22 | 2017 | NIS |
| Healthy Living | Adults with obesity who ever received advice from a health professional to exercise more | 64.6 | 62.2 | Same | -6.35 | -0.47 | 2016 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of ten years | 89.1 | 88.4 | Same | -6.03 | -0.23 | 2017 | NIS_TEEN |
| Healthy Living | Adults ages 18 and over who received influenza vaccination in the last flu season | 50.1 | 47.1 | Same | -5.67 | -1.32 | 2018 | NHIS |
| Healthy Living | Home health care patients whose pain when moving around decreased | 79.9 | 79.1 | Same | -3.83 | -3.98 | 2017 | OASIS |
| Healthy Living | Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods | 49.5 | 48.0 | Same | -2.88 | -0.31 | 2016 | MEPS |
| Healthy Living | Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high | 93.0 | 92.8 | Same | -2.78 | -0.23 | 2017 | NHIS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have | 51.0 | 49.9 | Same | -2.20 | -0.26 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle | 41.7 | 40.8 | Same | -1.52 | -0.21 | 2017 | MEPS |
| Healthy Living | Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination | 23.2 | 22.5 | Same | -0.90 | -0.16 | 2018 | NHIS |
| Healthy Living | Home health patients who had pneumococcal polysaccharide vaccination | 86.9 | 86.9 | Same | 0.00 | 0.00 | 2017 | OASIS |
| Healthy Living | Hospital patients who received influenza vaccination | 93.8 | 93.8 | Same | 0.00 | 0.00 | 2017 | HIQR |
| Healthy Living | Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car | 48.3 | 49.0 | Same | 1.37 | 0.13 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy | 64.9 | 65.7 | Same | 2.33 | 0.21 | 2017 | MEPS |
| Healthy Living | Women ages 50-74 who received a mammogram in the last 2 years | 72.1 | 73.0 | Same | 3.33 | 0.25 | 2018 | NHIS |
| Healthy Living | Adults with a dental visit in the calendar year | 32.2 | 36.6 | Same | 6.94 | 2.52 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car | 63.4 | 66.2 | Same | 8.28 | 0.51 | 2017 | MEPS |
| Healthy Living | Children ages 0-17 with wellness checkup in the past 12 months | 84.8 | 86.1 | Same | 9.35 | 0.65 | 2018 | NHIS |
| Healthy Living | Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car | 30.8 | 36.8 | Same | 9.49 | 1.04 | 2017 | MEPS |
| Healthy Living | Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of ten years | 84.3 | 89.5 | Same | 49.52 | 1.19 | 2017 | NIS_TEEN |
| Healthy Living | Children who had their height and weight measured by a health provider within the past 2 years | 91.9 | 94.6 | Same | 50.00 | 1.55 | 2017 | MEPS |
| Healthy Living | Adults who received a preventive dental service in the calendar year | 37.8 | 44.4 | Worse | 11.87 | 3.59 | 2017 | MEPS |
| Healthy Living | Short-stay nursing home residents who were assessed for pneumococcal vaccination | 85.0 | 87.0 | Worse | 15.38 | 9.95 | 2017 | MDS |
| Healthy Living | Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child | 39.0 | 47.6 | Worse | 16.41 | 2.14 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 who received a preventive dental service in the calendar year | 41.9 | 50.4 | Worse | 17.14 | 2.10 | 2017 | MEPS |
| Healthy Living | Home health care patients whose shortness of breath decreased | 74.6 | 78.8 | Worse | 19.81 | 20.90 | 2017 | OASIS |
| Healthy Living | Short-stay nursing home patients who had flu vaccination appropriately given | 85.9 | 88.3 | Worse | 20.51 | 11.94 | 2017 | MDS |
| Healthy Living | Live-born infants with low birth weight (less than 2,500 g) | 8.6 | 7.1 | Worse | 21.13 | 14.71 | 2018 | NVSS_N |
| Healthy Living | Children ages 2-17 who had a dental visit in the calendar year | 47.2 | 57.6 | Worse | 24.53 | 2.53 | 2017 | MEPS |
| Healthy Living | Home health care patients whose ability to walk or move around improved | 71.0 | 77.8 | Worse | 30.63 | 33.83 | 2017 | OASIS |
| Healthy Living | Home health care patients whose bathing improved | 73.3 | 79.8 | Worse | 32.18 | 32.34 | 2017 | OASIS |
| Healthy Living | Home health patients who had improvement in upper body dressing | 72.5 | 79.4 | Worse | 33.50 | 34.33 | 2017 | OASIS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Home health patients who had improvement in toileting | 68.2 | 76.6 | Worse | 35.90 | 41.79 | 2017 | OASIS |
| Healthy Living | Women ages 21-65 who received a Pap smear in the last 3 years | 73.6 | 80.7 | Worse | 36.79 | 2.84 | 2018 | NHIS |
| Healthy Living | Home health care patients whose ability to get in and out of bed improved | 68.7 | 77.2 | Worse | 37.28 | 42.29 | 2017 | OASIS |
| Healthy Living | Long-stay nursing home residents with physical restraints | 0.5 | 0.4 | Worse | 45.95 | 3.33 | 2017 | MDS |
| Healthy Living | Adults age 65 and over who ever received pneumococcal vaccination | 54.7 | 70.9 | Worse | 55.67 | 4.17 | 2018 | NHIS |
| Healthy Living | Home health patients who had influenza vaccination during flu season | 93.4 | 95.9 | Worse | 60.98 | 24.51 | 2017 | OASIS |

Table 12. Affordable Care Measures for Asian vs. White

For Affordable Care measures, Asians experienced better quality care compared with Whites for 2 measures. Asians did not experience the same or worse quality of care for any measure, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Affordable Care | People without a usual source of care who indicated a financial or insurance reason for not having a source of care | 7.6 | 13.2 | Better | -42.42 | -2.39 | 2017 | MEPS |
| Affordable Care | People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income | 11.7 | 17.0 | Better | -31.35 | -3.99 | 2017 | MEPS |

Native Hawaiian/Pacific Islander vs. White

Table 13. Patient Safety Measures for NHPI vs. White

For Patient Safety measures, NHPIs experienced better quality care compared with Whites for 2 measures, the same quality of care for 8 measures, and worse quality for 2 measures, 2016-2018.

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Adults who reported a home health provider asking to see all the prescription and over-the-counter medicines they were taking, when they first started getting home health care | 84.2 | 75.1 | Better | -36.55 | -11.37 | 2018 | HHCAHPS |
| Patient Safety | Long-stay nursing home residents with a urinary tract infection | 1.7 | 2.4 | Better | -30.54 | -2.35 | 2017 | MDS |
| Patient Safety | Low-risk, long-stay nursing home residents with a catheter inserted and left in the bladder | 2.4 | 2.8 | Same | -11.96 | -0.85 | 2017 | MDS |
| Patient Safety | Adults who reported that home health providers talked with them about when to take medicines in the last 2 months of care | 30.6 | 28.5 | Same | -2.94 | -2.10 | 2018 | HHCAHPS |
| Patient Safety | Adults home health patients age 18 and over who reported that home health providers talked with them about the side effects of medicines in the last 2 months of care | 26.5 | 24.4 | Same | -2.78 | -2.33 | 2018 | HHCAHPS |
| Patient Safety | Adults who reported a home health provider talking with them about all the prescription and over-the-counter medicines they were taking when they first started getting home health care | 84.1 | 84.0 | Same | -0.62 | -0.12 | 2018 | HHCAHPS |
| Patient Safety | Adults who reported that home health providers talked with them about the purpose for taking their new or changed prescription medicines in the last 2 months of care | 31.4 | 31.4 | Same | 0.00 | 0.00 | 2018 | HHCAHPS |
| Patient Safety | Adults who reported a home health provider talking with them about how to set up their home so they can move around safely when they first started getting home health care | 75.6 | 77.1 | Same | 6.55 | 1.67 | 2018 | HHCAHPS |
| Patient Safety | Short-stay nursing home patients with pressure ulcers that are new or worsened | 0.4 | 0.4 | Same | 7.50 | 0.33 | 2017 | MDS |
| Patient Safety | High-risk, long-stay nursing home patients with pressure ulcer | 5.2 | 4.3 | Same | 22.54 | 1.52 | 2017 | MDS |
| Patient Safety | Home health care patients whose management of oral medications improved | 62.4 | 68.9 | Worse | 20.90 | 9.28 | 2017 | OASIS |
| Patient Safety | Home health care patients whose surgical wound was improved | 88.5 | 91.9 | Worse | 41.98 | 3.09 | 2017 | OASIS |

Table 14. Person-Centered Care Measures for NHPI vs. White

For Person-Centered Care measures, NHPIs experienced better quality care compared with Whites for 1 measure, the same quality of care for 12 measures, and worse quality for 4 measures, 2016-2018.

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|---------------|
| Person-Centered Care | Adult hospital patients who sometimes or never had good communication about medications they received in the hospital | 8.1 | 10.7 | Better | -24.30 | -8.65 | 2018 | HCAHPS |
| Person-Centered Care | Family caregivers who would definitely recommend this hospice to their friends and family | 86.2 | 85.2 | Same | -6.76 | -0.62 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Adults who reported getting the help or advice they needed when they contacted their home health providers in the last 2 months of care | 27.5 | 24.2 | Same | -4.35 | -3.67 | 2018 | HHCAHPS |
| Person-Centered Care | Hospice patients and family caregivers who always got help as soon as they need from hospice care team | 78.4 | 77.8 | Same | -2.70 | -0.35 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Hospice patients whose hospice care team always communicated well with their family caregivers about taking care them | 80.7 | 80.2 | Same | -2.53 | -0.38 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Hospice patients whose hospice care team always treated them with dignity and respect, and really cared about them | 90.0 | 90.1 | Same | 1.01 | 0.09 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Hospice patients who always received enough helps for pain, sadness, breathing, or constipations from hospice care team | 74.8 | 75.3 | Same | 2.02 | 0.29 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Adults who reported that home health providers always kept them informed about when they would arrive at their home in the last 2 months of care | 79.3 | 80.0 | Same | 3.50 | 0.78 | 2018 | HHCAHPS |
| Person-Centered Care | Adults who reported being told what care and services they would get when they first started getting home health care | 89.0 | 89.7 | Same | 6.80 | 1.00 | 2018 | HHCAHPS |
| Person-Centered Care | Adults who reported that home health providers always listen carefully to them in the last 2 months of care | 83.8 | 85.0 | Same | 8.00 | 1.50 | 2018 | HHCAHPS |
| Person-Centered Care | Family caregivers who rated the hospice care for their family member best (9-10) on a scale of 0-10 (where 0 is the worst and 10 is the best) | 79.1 | 80.9 | Same | 9.42 | 1.00 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Adults who reported that home health providers talk about pain in the last 2 months of care | 89.1 | 90.3 | Same | 12.37 | 1.71 | 2018 | HHCAHPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|---------------|
| Person-Centered Care | Family caregivers who received right amount of emotional and spiritual supports from hospice care team | 88.3 | 90.0 | Same | 17.00 | 1.55 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Adults who reported that home health providers always explained things in a way that was easy to understand in the last 2 months of care | 81.0 | 84.3 | Worse | 21.02 | 4.12 | 2018 | HHCAHPS |
| Person-Centered Care | Adults who did not have any problem with the care they received from their home health providers in the last 2 months of care | 90.9 | 93.7 | Worse | 44.44 | 4.66 | 2018 | HHCAHPS |
| Person-Centered Care | Adults who reported that home health providers always treated them as gently as possible in the last 2 months of care | 87.0 | 91.0 | Worse | 44.44 | 5.71 | 2018 | HHCAHPS |
| Person-Centered Care | Adults who reported that home health providers always treated them with courtesy and respect in the last 2 months of care | 91.0 | 94.3 | Worse | 57.89 | 5.50 | 2018 | HHCAHPS |

Table 15. Care Coordination Measures for NHPI vs. White

For Care Coordination measures, NHPIs experienced better quality care compared with Whites for 2 measures, the same quality of care for 2 measures, and worse quality for 2 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | Home health care patients who had an emergency department visit and then hospitalized | 10.4 | 12.1 | Better | -14.05 | -4.24 | 2017 | OASIS |
| Care Coordination | Home health care patients who had to be admitted to the hospital | 12.1 | 13.9 | Better | -12.95 | -4.49 | 2017 | OASIS |
| Care Coordination | Adult hospital patients who strongly disagree or disagree that staff took their preferences and those of their family and caregiver into account when deciding what the patients discharge health care would be | 5.5 | 5.4 | Same | 0.37 | 0.08 | 2018 | HCAHPS |
| Care Coordination | Adult hospital patients who did not receive good communication about discharge information | 11.1 | 10.2 | Same | 8.82 | 2.99 | 2018 | HCAHPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | Adults who reported that home health providers always seem informed and up-to-date about all the cares or treatments they got at home in the last 2 months of care | 61.5 | 65.6 | Worse | 11.92 | 4.10 | 2018 | HCAHPS |
| Care Coordination | Home health care patients who had an emergency department visit without a hospitalization | 4.7 | 4.0 | Worse | 17.75 | 2.73 | 2017 | OASIS |

Table 16. Effectiveness of Care Measures for NHPI vs. White

For Effectiveness of Care measures, NHPIs experienced better quality care compared with Whites for 1 measure, the same quality of care for 5 measures, and worse quality for 4 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy) | 97.7 | 93.9 | Better | -62.30 | -2.91 | 2016 | NCDB |
| Effectiveness of Care | Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined | 94.6 | 92.5 | Same | -28.00 | -0.55 | 2016 | NCDB |
| Effectiveness of Care | Patients with tuberculosis who completed a curative course of treatment within 1 year of initiation of treatment | 89.9 | 87.6 | Same | -18.55 | -0.63 | 2016 | NTBSS |
| Effectiveness of Care | Long-stay nursing home residents have depressive symptoms | 3.8 | 4.5 | Same | -16.11 | -1.44 | 2017 | MDS |
| Effectiveness of Care | Acute ischemic stroke patients for whom IV thrombolytic therapy was initiated at hospital within 3 hours (less than or equal to 180 minutes) of time last known well | 89.0 | 88.5 | Same | -4.35 | -0.13 | 2016 | HIQR |
| Effectiveness of Care | Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis | 89.2 | 93.0 | Same | 54.29 | 1.05 | 2016 | NCDB |
| Effectiveness of Care | Persons age 13 and over living with diagnosed HIV whose most recent viral load in the last 12 months was under 200 copies/mL | 63.4 | 67.8 | Worse | 13.66 | 2.44 | 2016 | HIV_AIDSSS |
| Effectiveness of Care | Persons age 13 and over living with diagnosed HIV who had at least two CD4 or viral load tests performed at least 3 | 51.0 | 59.3 | Worse | 20.39 | 4.36 | 2016 | HIV_AIDSSS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| | months apart during the last year, among reporting jurisdictions | | | | | | | |
| Effectiveness of Care | New HIV cases per 100,000 population age 13 and over | 8.9 | 5.9 | Worse | 50.85 | 2.14 | 2016 | HIV_AIDSSS |
| Effectiveness of Care | Persons age 13 and over living with HIV who know their serostatus | 82.4 | 88.5 | Worse | 53.04 | 5.52 | 2016 | HIV_AIDSSS |

Table 17. Healthy Living Measures for NHPI vs. White

For Healthy Living measures, NHPIs experienced better quality care compared with Whites for 5 measures, the same quality of care for 10 measures, and worse quality for 12 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Short-stay nursing home residents with moderate to severe pain | 8.1 | 11.7 | Better | -30.77 | -7.19 | 2017 | MDS |
| Healthy Living | Long-stay nursing home residents with moderate to severe pain | 4.8 | 6.9 | Better | -30.72 | -3.36 | 2017 | MDS |
| Healthy Living | Long-stay nursing home residents whose need for help with daily activities increased | 15.9 | 21.1 | Better | -24.64 | -3.99 | 2017 | MDS |
| Healthy Living | Long-stay nursing home residents with too much weight loss | 4.3 | 5.5 | Better | -21.65 | -2.40 | 2017 | MDS |
| Healthy Living | Home health care patients who stayed at home after an episode of home health care | 85.0 | 82.1 | Better | -16.20 | -7.24 | 2017 | OASIS |
| Healthy Living | Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine | 94.5 | 91.6 | Same | -34.52 | -1.18 | 2017 | NIS |
| Healthy Living | Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of ten years | 92.8 | 89.5 | Same | -31.43 | -0.81 | 2017 | NIS_TEEN |
| Healthy Living | Long-stay nursing home residents whose ability to move independently worsened | 22.0 | 24.5 | Same | -10.20 | -1.56 | 2017 | MDS |
| Healthy Living | Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine | 91.5 | 91.4 | Same | -1.16 | -0.03 | 2016 | NIS |
| Healthy Living | Home health care patients whose pain when moving around decreased | 77.7 | 79.1 | Same | 6.70 | 2.33 | 2017 | OASIS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Home health care patients whose shortness of breath decreased | 77.2 | 78.8 | Same | 7.55 | 2.28 | 2017 | OASIS |
| Healthy Living | Long-stay nursing home patients who were assessed and appropriately given the seasonal influenza vaccine | 91.1 | 92.0 | Same | 11.25 | 1.12 | 2017 | MDS |
| Healthy Living | Children ages 19-35 months who received 3 or more doses of polio vaccine | 92.2 | 93.0 | Same | 11.43 | 0.27 | 2017 | NIS |
| Healthy Living | Adults who received a blood cholesterol measurement in the last 5 years | 84.3 | 87.3 | Same | 23.62 | 0.79 | 2017 | NHIS |
| Healthy Living | Children ages 19-35 months who received 1 or more doses of varicella vaccine | 87.2 | 91.2 | Same | 45.45 | 1.02 | 2017 | NIS |
| Healthy Living | Short-stay nursing home residents who were assessed for pneumococcal vaccination | 85.3 | 87.0 | Worse | 13.08 | 3.40 | 2017 | MDS |
| Healthy Living | Home health care patients whose ability to get in and out of bed improved | 73.0 | 77.2 | Worse | 18.42 | 7.00 | 2017 | OASIS |
| Healthy Living | Home health care patients whose ability to walk or move around improved | 73.5 | 77.8 | Worse | 19.37 | 7.16 | 2017 | OASIS |
| Healthy Living | Home health patients who had improvement in upper body dressing | 74.9 | 79.4 | Worse | 21.84 | 7.50 | 2017 | OASIS |
| Healthy Living | Home health patients who had pneumococcal polysaccharide vaccination | 84.0 | 86.9 | Worse | 22.14 | 5.80 | 2017 | OASIS |
| Healthy Living | Home health patients who had improvement in toileting | 71.4 | 76.6 | Worse | 22.22 | 8.66 | 2017 | OASIS |
| Healthy Living | Long-stay nursing home residents who were assessed for pneumococcal vaccination | 91.6 | 93.2 | Worse | 23.53 | 2.28 | 2017 | MDS |
| Healthy Living | Home health care patients whose bathing improved | 74.8 | 79.8 | Worse | 24.75 | 8.33 | 2017 | OASIS |
| Healthy Living | Short-stay nursing home patients who had flu vaccination appropriately given | 85.2 | 88.3 | Worse | 26.50 | 4.43 | 2017 | MDS |
| Healthy Living | Home health patients who had influenza vaccination during flu season | 94.7 | 95.9 | Worse | 29.27 | 3.00 | 2017 | OASIS |
| Healthy Living | Hospital patients who received influenza vaccination | 88.7 | 93.8 | Worse | 82.26 | 10.19 | 2017 | HIQR |
| Healthy Living | Adults who received a blood pressure measurement in the last 2 years and can state whether the Alir blood pressure was normal or high | 77.0 | 92.8 | Worse | 219.44 | 3.43 | 2017 | NHIS |

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Table 18. Patient Safety Measures for AI/AN vs. White

For Patient Safety measures, AI/AN experienced better quality care compared with Whites for 1 measure, the same quality of care for 10 measures, and worse quality for 2 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Adults who reported a home health provider asking to see all the prescription and over-the-counter medicines they were taking, when they first started getting home health care | 82.1 | 75.1 | Better | -28.11 | -17.48 | 2018 | HHCAHPS |
| Patient Safety | Adults home health patients age 18 and over who reported that home health providers talked with them about the side effects of medicines in the last 2 months of care | 27.9 | 24.4 | Same | -4.63 | -6.99 | 2018 | HHCAHPS |
| Patient Safety | Adults who reported that home health providers talked with them about when to take medicines in the last 2 months of care | 31.7 | 28.5 | Same | -4.48 | -6.39 | 2018 | HHCAHPS |
| Patient Safety | Adults who reported that home health providers talked with them about the purpose for taking their new or changed prescription medicines in the last 2 months of care | 33.5 | 31.4 | Same | -3.06 | -4.20 | 2018 | HHCAHPS |
| Patient Safety | Long-stay nursing home patients experiencing one or more falls with major injury | 0.7 | 0.7 | Same | -1.45 | -0.08 | 2017 | MDS |
| Patient Safety | Adults who reported a home health provider talking with them about all the prescription and over-the-counter medicines they were taking when they first started getting home health care | 84.2 | 84.0 | Same | -1.25 | -0.50 | 2018 | HHCAHPS |
| Patient Safety | Home health care patients whose management of oral medications improved | 67.3 | 68.9 | Same | 5.14 | 3.20 | 2017 | OASIS |
| Patient Safety | Adults who reported a home health provider talking with them about how to set up their home so they can move around safely when they first started getting home health care | 75.0 | 77.1 | Same | 9.17 | 4.20 | 2018 | HHCAHPS |
| Patient Safety | Home health care patients whose surgical wound was improved | 90.8 | 91.9 | Same | 13.58 | 1.57 | 2017 | OASIS |
| Patient Safety | Long-stay nursing home residents with a urinary tract infection | 2.7 | 2.4 | Same | 14.23 | 1.41 | 2017 | MDS |
| Patient Safety | Low-risk, long-stay nursing home residents with a catheter inserted and left in the bladder | 3.3 | 2.8 | Same | 18.48 | 1.88 | 2017 | MDS |
| Patient Safety | Short-stay nursing home patients with pressure ulcers that are new or worsened | 0.6 | 0.4 | Worse | 50.00 | 2.75 | 2017 | MDS |
| Patient Safety | High-risk, long-stay nursing home patients with pressure ulcer | 8.0 | 4.3 | Worse | 87.32 | 7.43 | 2017 | MDS |

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Table 19. Person-Centered Care Measures for AI/AN vs. White

For Person-Centered Care measures, AI/AN experienced better quality care compared with Whites for 1 measure, the same quality of care for 6 measures, and worse quality for 14 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|---------------|
| Person-Centered Care | Adult hospital patients who sometimes or never had good communication about medications they received in the hospital | 9.3 | 10.7 | Better | -13.08 | -6.97 | 2018 | HCAHPS |
| Person-Centered Care | Adults who reported getting the help or advice they needed when they contacted their home health providers in the last 2 months of care | 29.1 | 24.2 | Same | -6.46 | -9.79 | 2018 | HHCAHPS |
| Person-Centered Care | Family members who definitely received trainings about taking care their family member from hospice care team | 73.4 | 73.1 | Same | -1.12 | -0.27 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Hospice patients whose hospice care team always communicated well with their family caregivers about taking care them | 79.7 | 80.2 | Same | 2.53 | 0.62 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Hospice patients who always received enough helps for pain, sadness, breathing, or constipations from hospice care team | 73.6 | 75.3 | Same | 6.88 | 1.69 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Hospice patients and family caregivers who always got help as soon as they need from hospice care team | 76.2 | 77.8 | Same | 7.21 | 1.45 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Adults who reported that home health providers talk about pain in the last 2 months of care | 89.5 | 90.3 | Same | 8.25 | 2.66 | 2018 | HHCAHPS |
| Person-Centered Care | Adults who reported that home health providers always kept them informed about when they would arrive at their home in the last 2 months of care | 78.0 | 80.0 | Worse | 10.00 | 4.00 | 2018 | HHCAHPS |
| Person-Centered Care | Family caregivers who rated the hospice care for their family member best (9-10) on a scale of 0-10 (where 0 is the worst and 10 is the best) | 78.2 | 80.9 | Worse | 14.14 | 2.44 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Adults who reported that home health providers always listen carefully to them in the last 2 months of care | 82.7 | 85.0 | Worse | 15.33 | 5.74 | 2018 | HHCAHPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|--------------|
| Person-Centered Care | Adults who reported that home health providers always explained things in a way that was easy to understand in the last 2 months of care | 81.1 | 84.3 | Worse | 20.38 | 7.99 | 2018 | HHCAHPS |
| Person-Centered Care | Family caregivers who would definitely recommend this hospice to their friends and family | 81.6 | 85.2 | Worse | 24.32 | 3.26 | 2018 | HOSPICE_CAHP |
| Person-Centered Care | Hospice patients whose hospice care team always treated them with dignity and respect, and really cared about them | 87.2 | 90.1 | Worse | 29.29 | 3.62 | 2018 | HOSPICE_CAHP |
| Person-Centered Care | Adults who reported being told what care and services they would get when they first started getting home health care | 86.5 | 89.7 | Worse | 31.07 | 7.99 | 2018 | HHCAHPS |
| Person-Centered Care | Adults who reported that home health providers always treated them as gently as possible in the last 2 months of care | 87.9 | 91.0 | Worse | 34.44 | 7.74 | 2018 | HHCAHPS |
| Person-Centered Care | Family caregivers who received right amount of emotional and spiritual supports from hospice care team | 85.5 | 90.0 | Worse | 45.00 | 5.00 | 2018 | HOSPICE_CAHP |
| Person-Centered Care | Adults who did not have any problem with the care they received from their home health providers in the last 2 months of care | 90.6 | 93.7 | Worse | 49.21 | 10.31 | 2018 | HHCAHPS |
| Person-Centered Care | Adults who reported that home health providers always treated them with courtesy and respect in the last 2 months of care | 91.2 | 94.3 | Worse | 54.39 | 10.31 | 2018 | HHCAHPS |
| Person-Centered Care | Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months | 25.6 | 9.4 | Worse | 172.34 | 2.28 | 2016 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them | 28.0 | 8.5 | Worse | 229.41 | 2.91 | 2016 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand | 19.1 | 4.8 | Worse | 297.08 | 2.66 | 2016 | MEPS |

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Table 20. Care Coordination Measures for AI/AN vs. White

For Care Coordination measures, AI/AN experienced better quality care compared with Whites for 1 measure, the same quality of care for 1 measure, and worse quality for 5 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | People with a usual source of care who usually asks about prescription medications and treatments from other doctors | 91.6 | 82.1 | Better | -53.07 | -3.84 | 2017 | MEPS |
| Care Coordination | Adults who reported that home health providers always seem informed and up-to-date about all the cares or treatments they got at home in the last 2 months of care | 62.6 | 65.6 | Same | 8.72 | 6.00 | 2018 | HCAHPS |
| Care Coordination | Home health care patients who had to be admitted to the hospital | 15.6 | 13.9 | Worse | 12.23 | 5.65 | 2017 | OASIS |
| Care Coordination | Adult hospital patients who did not receive good communication about discharge information | 11.6 | 10.2 | Worse | 13.73 | 6.97 | 2018 | HCAHPS |
| Care Coordination | Home health care patients who had an emergency department visit and then hospitalized | 13.8 | 12.1 | Worse | 14.05 | 5.65 | 2017 | OASIS |
| Care Coordination | Home health care patients who had an emergency department visit without a hospitalization | 5.1 | 4.0 | Worse | 28.50 | 5.69 | 2017 | OASIS |
| Care Coordination | Adult hospital patients who strongly disagree or disagree that staff took their preferences and those of their family and caregiver into account when deciding what the patients discharge health care would be | 7.7 | 5.4 | Worse | 41.73 | 13.26 | 2018 | HCAHPS |

Table 21. Effectiveness of Care Measures for AI/AN vs. White

For Effectiveness of Care measures, AI/AN experienced better quality care compared with Whites for 7 measures, the same quality of care for 10 measures, and worse quality for 8 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy) | 96.9 | 93.9 | Better | -49.18 | -2.30 | 2016 | NCDB |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Breast cancer deaths per 100,000 female population per year | 11.4 | 19.4 | Better | -41.24 | -9.92 | 2017 | NVSS_M |
| Effectiveness of Care | Lung cancer deaths per 100,000 population per year | 23.5 | 37.5 | Better | -37.33 | -15.46 | 2017 | NVSS_M |
| Effectiveness of Care | Adult hemodialysis patients who use arteriovenous fistulas as the primary mode of vascular access | 76.6 | 67.6 | Better | -27.78 | -14.33 | 2017 | USRDS |
| Effectiveness of Care | Colorectal cancer deaths per 100,000 population per year | 11.0 | 13.5 | Better | -18.52 | -4.11 | 2017 | NVSS_M |
| Effectiveness of Care | Suicide deaths among persons age 12 and over per 100,000 population | 16.3 | 19.2 | Better | -15.10 | -4.10 | 2017 | NVSS_M |
| Effectiveness of Care | Long-stay nursing home residents have depressive symptoms | 3.8 | 4.5 | Better | -14.32 | -2.12 | 2017 | MDS |
| Effectiveness of Care | Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined | 93.8 | 92.5 | Same | -17.33 | -0.48 | 2016 | NCDB |
| Effectiveness of Care | Percent of hemodialysis patients whose hemoglobin level is less than 10 g/dL | 19.8 | 20.6 | Same | -3.88 | -3.98 | 2018 | UMKECC |
| Effectiveness of Care | People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months | 8.2 | 7.5 | Same | -0.76 | -0.22 | 2016 | NSDUH |
| Effectiveness of Care | HIV infection deaths per 100,000 population | 0.9 | 0.9 | Same | 0.00 | 0.00 | 2017 | NVSS_M |
| Effectiveness of Care | Adult hemodialysis patients with adequate dialysis - (Kt/V) 12 or higher | 96.7 | 96.7 | Same | 0.00 | 0.00 | 2018 | UMKECC |
| Effectiveness of Care | Dialysis patients who were registered on a waiting list for transplantation | 12.6 | 16.6 | Same | 4.80 | 3.92 | 2017 | USRDS |
| Effectiveness of Care | Persons age 13 and over living with diagnosed HIV who had at least two CD4 or viral load tests performed at least 3 months apart during the last year, among reporting jurisdictions | 56.2 | 59.3 | Same | 7.62 | 2.81 | 2016 | HIV_AIDSSS |
| Effectiveness of Care | Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms | 70.5 | 73.4 | Same | 10.90 | 0.49 | 2018 | NHIS |
| Effectiveness of Care | Patients with tuberculosis who completed a curative course of treatment within 1 year of initiation of treatment | 83.8 | 87.6 | Same | 30.65 | 1.04 | 2016 | NTBSS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis | 90.7 | 93.0 | Same | 32.86 | 0.85 | 2016 | NCDB |
| Effectiveness of Care | Patients with treated chronic kidney failure who received a transplant within 3 years of date of renal failure | 6.4 | 15.1 | Worse | 10.25 | 10.90 | 2014 | USRDS |
| Effectiveness of Care | Adult end stage renal disease (ESRD) patients who saw a nephrologist at least 12 months prior to initiation of renal replacement therapy | 30.7 | 38.9 | Worse | 13.42 | 5.80 | 2017 | USRDS |
| Effectiveness of Care | People age 12 and over who needed treatment for illicit drug use and who received such treatment at a specialty facility in the last 12 months | 5.0 | 17.5 | Worse | 15.15 | 4.73 | 2018 | NSDUH |
| Effectiveness of Care | Persons age 13 and over living with diagnosed HIV whose most recent viral load in the last 12 months was under 200 copies/mL | 59.6 | 67.8 | Worse | 25.47 | 7.42 | 2016 | HIV_AIDSSS |
| Effectiveness of Care | Persons age 13 and over living with HIV who know their serostatus | 81.6 | 88.5 | Worse | 60.00 | 11.34 | 2016 | HIV_AIDSSS |
| Effectiveness of Care | Acute ischemic stroke patients for whom IV thrombolytic therapy was initiated at hospital within 3 hours (less than or equal to 180 minutes) of time last known well | 80.3 | 88.5 | Worse | 71.30 | 2.34 | 2016 | HIQR |
| Effectiveness of Care | Adjusted incident rates of end stage renal disease (ESRD) due to diabetes per million population | 274.9 | 138.4 | Worse | 98.63 | 14.48 | 2017 | USRDS |
| Effectiveness of Care | New HIV cases per 100,000 population age 13 and over | 11.9 | 5.9 | Worse | 101.69 | 7.44 | 2016 | HIV_AIDSSS |

Table 22. Healthy Living Measures for AI/AN vs. White

For Healthy Living measures, AI/AN experienced better quality care compared with Whites for 3 measures, the same quality of care for 28 measures, and worse quality for 18 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Breast cancer diagnosed at advanced stage (regional, distant stage, or local stage with tumor greater than 2 cm) per 100,000 women age 40 and over | 56.0 | 84.3 | Better | -33.57 | -10.76 | 2016 | NPCR_USCS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Cervical cancer diagnosed at advanced stage (all invasive tumors) per 100,000 women age 20 and over | 7.9 | 10.6 | Better | -25.47 | -3.82 | 2016 | NPCR_USCS |
| Healthy Living | Colorectal cancer diagnosed at advanced stage (tumors diagnosed at regional or distant stage) per 100,000 population age 50 and over | 52.9 | 63.7 | Better | -16.95 | -4.29 | 2016 | NPCR_USCS |
| Healthy Living | Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of ten years | 92.2 | 88.4 | Same | -32.76 | -1.36 | 2017 | NIS_TEEN |
| Healthy Living | Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine | 85.7 | 82.8 | Same | -16.86 | -0.71 | 2016 | NIS_TEEN |
| Healthy Living | Children ages 19-35 months who received 3 or more doses of polio vaccine | 93.8 | 93.0 | Same | -11.43 | -0.34 | 2017 | NIS |
| Healthy Living | Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination | 31.0 | 22.5 | Same | -10.97 | -1.75 | 2018 | NHIS |
| Healthy Living | Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine | 86.0 | 84.4 | Same | -10.26 | -0.57 | 2017 | NIS |
| Healthy Living | Long-stay nursing home residents with too much weight loss | 5.0 | 5.5 | Same | -8.81 | -1.49 | 2017 | MDS |
| Healthy Living | Long-stay nursing home residents whose ability to move independently worsened | 22.5 | 24.5 | Same | -8.16 | -2.21 | 2017 | MDS |
| Healthy Living | Long-stay nursing home residents whose need for help with daily activities increased | 20.1 | 21.1 | Same | -4.74 | -1.24 | 2017 | MDS |
| Healthy Living | Long-stay nursing home patients who were assessed and appropriately given the seasonal influenza vaccine | 92.2 | 92.0 | Same | -2.50 | -0.50 | 2017 | MDS |
| Healthy Living | Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of ten years | 88.4 | 88.2 | Same | -1.69 | -0.05 | 2016 | NIS_TEEN |
| Healthy Living | Children ages 6 months to 17 years who received influenza vaccination in the last flu season | 50.4 | 52.7 | Same | 4.86 | 0.25 | 2018 | NHIS |
| Healthy Living | Adults ages 18 and over who received influenza vaccination in the last flu season | 44.0 | 47.1 | Same | 5.86 | 0.60 | 2018 | NHIS |
| Healthy Living | Home health patients who had improvement in toileting | 74.8 | 76.6 | Same | 7.69 | 3.60 | 2017 | OASIS |
| Healthy Living | Home health care patients who stayed at home after an episode of home health care | 80.7 | 82.1 | Same | 7.82 | 4.66 | 2017 | OASIS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Home health patients who had improvement in upper body dressing | 77.6 | 79.4 | Same | 8.74 | 4.49 | 2017 | OASIS |
| Healthy Living | Home health care patients whose bathing improved | 77.8 | 79.8 | Same | 9.90 | 4.99 | 2017 | OASIS |
| Healthy Living | Adults age 65 and over who ever received pneumococcal vaccination | 67.6 | 70.9 | Same | 11.34 | 0.50 | 2018 | NHIS |
| Healthy Living | Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high | 91.9 | 92.8 | Same | 12.50 | 0.42 | 2017 | NHIS |
| Healthy Living | Adults age 65 and over who received an influenza vaccination in the last flu season | 69.6 | 73.2 | Same | 13.43 | 0.28 | 2018 | NHIS |
| Healthy Living | Adults who received a blood cholesterol measurement in the last 5 years | 85.4 | 87.3 | Same | 14.96 | 0.93 | 2017 | NHIS |
| Healthy Living | Children ages 19-35 months who received 1 or more doses of varicella vaccine | 89.2 | 91.2 | Same | 22.73 | 0.43 | 2017 | NIS |
| Healthy Living | Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season | 39.7 | 51.2 | Same | 23.57 | 1.15 | 2018 | NHIS |
| Healthy Living | Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine | 89.9 | 92.0 | Same | 26.25 | 0.45 | 2017 | NIS |
| Healthy Living | Long-stay nursing home residents with physical restraints | 0.5 | 0.4 | Same | 29.73 | 1.09 | 2017 | MDS |
| Healthy Living | Women ages 50-74 who received a mammogram in the last 2 years | 64.4 | 73.0 | Same | 31.85 | 1.02 | 2018 | NHIS |
| Healthy Living | Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine | 88.8 | 91.6 | Same | 33.33 | 0.58 | 2017 | NIS |
| Healthy Living | Women ages 21-65 who received a Pap smear in the last 3 years | 71.7 | 80.7 | Same | 46.63 | 1.49 | 2018 | NHIS |
| Healthy Living | Children who had their height and weight measured by a health provider within the past 2 years | 86.8 | 93.7 | Same | 109.52 | 1.04 | 2016 | MEPS |
| Healthy Living | Home health care patients whose ability to get in and out of bed improved | 74.7 | 77.2 | Worse | 10.96 | 6.24 | 2017 | OASIS |
| Healthy Living | Home health care patients whose shortness of breath decreased | 76.2 | 78.8 | Worse | 12.26 | 5.20 | 2017 | OASIS |
| Healthy Living | Live-born infants with low birth weight (less than 2,500 g) | 8.0 | 7.1 | Worse | 12.68 | 8.83 | 2018 | NVSS_N |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Home health care patients whose pain when moving around decreased | 76.0 | 79.1 | Worse | 14.83 | 7.74 | 2017 | OASIS |
| Healthy Living | Home health care patients whose ability to walk or move around improved | 74.5 | 77.8 | Worse | 14.86 | 8.24 | 2017 | OASIS |
| Healthy Living | Adolescent males ages 13-15 who received 3 or more doses of human papillomavirus (HPV) vaccine | 13.5 | 29.7 | Worse | 23.04 | 3.85 | 2016 | NIS_TEEN |
| Healthy Living | Adults who received a preventive dental service in the calendar year | 31.3 | 44.4 | Worse | 23.56 | 2.36 | 2017 | MEPS |
| Healthy Living | Adults with a dental visit in the calendar year | 18.7 | 36.6 | Worse | 28.23 | 3.41 | 2017 | MEPS |
| Healthy Living | Short-stay nursing home patients who had flu vaccination appropriately given | 84.8 | 88.3 | Worse | 29.91 | 8.74 | 2017 | MDS |
| Healthy Living | Short-stay nursing home residents with moderate to severe pain | 15.4 | 11.7 | Worse | 31.62 | 9.24 | 2017 | MDS |
| Healthy Living | Short-stay nursing home residents who were assessed for pneumococcal vaccination | 82.1 | 87.0 | Worse | 37.69 | 12.23 | 2017 | MDS |
| Healthy Living | Home health patients who had pneumococcal polysaccharide vaccination | 81.7 | 86.9 | Worse | 39.69 | 12.98 | 2017 | OASIS |
| Healthy Living | Home health patients who had influenza vaccination during flu season | 94.1 | 95.9 | Worse | 43.90 | 5.99 | 2017 | OASIS |
| Healthy Living | Long-stay nursing home residents who were assessed for pneumococcal vaccination | 90.0 | 93.2 | Worse | 47.06 | 7.99 | 2017 | MDS |
| Healthy Living | Long-stay nursing home residents with moderate to severe pain | 10.5 | 6.9 | Worse | 51.88 | 6.87 | 2017 | MDS |
| Healthy Living | Children ages 0-17 with wellness checkup in the past 12 months | 75.3 | 86.1 | Worse | 77.70 | 2.19 | 2018 | NHIS |
| Healthy Living | Infant mortality per 1,000 live births, birth weight 2,500 grams or more | 3.9 | 1.8 | Worse | 116.67 | 6.98 | 2017 | NVSS_L |
| Healthy Living | Hospital patients who received influenza vaccination | 83.3 | 93.8 | Worse | 169.35 | 34.92 | 2017 | HIQR |

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Table 23. Affordable Care Measures for AI/AN vs. White

For Affordable Care measures, there was only 1 measure, which shows AI/ANs receiving the same care as Whites, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Affordable Care | People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income | 19.9 | 17.0 | Same | 17.50 | 0.52 | 2017 | MEPS |

Hispanic vs. Non-Hispanic White

Table 24. Patient Safety Measures for Hispanic vs. Non-Hispanic White

For Patient Safety measures, Hispanics experienced better quality care compared with non-Hispanic Whites for 9 measures, the same quality of care for 13 measures, and worse quality for 4 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Adult surgery patients with postoperative venous thromboembolic events | 0.0 | 0.5 | Better | -100.00 | -4.51 | 2016 | MPSMS |
| Patient Safety | Deaths per 1,000 hospital admissions with expected low-mortality | 0.1 | 0.2 | Better | -58.33 | -9.90 | 2017 | HCUP |
| Patient Safety | Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults | 0.1 | 0.1 | Better | -50.00 | -2.24 | 2017 | HCUP |
| Patient Safety | Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults | 0.4 | 0.7 | Better | -44.44 | -6.40 | 2017 | HCUP |
| Patient Safety | Long-stay nursing home patients experiencing one or more falls with major injury | 0.5 | 0.7 | Better | -31.88 | -6.96 | 2017 | MDS |
| Patient Safety | Long-stay nursing home residents with a urinary tract infection | 1.7 | 2.4 | Better | -30.54 | -13.56 | 2017 | MDS |
| Patient Safety | Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults | 0.2 | 0.2 | Better | -28.57 | -2.68 | 2017 | HCUP |
| Patient Safety | Birth trauma - injury to neonate per 1,000 selected live births | 4.6 | 5.3 | Better | -12.64 | -2.32 | 2017 | HCUP |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults | 2.9 | 3.2 | Better | -10.80 | -2.90 | 2017 | HCUP |
| Patient Safety | Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults | 8.2 | 10.1 | Same | -18.81 | -1.29 | 2017 | MEPS |
| Patient Safety | Hospital patients who received a hypoglycemic agent who had an adverse drug events with hypoglycemic agents | 5.5 | 6.7 | Same | -18.41 | -0.93 | 2017 | MPSMS |
| Patient Safety | Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions | 0.1 | 0.1 | Same | -11.11 | -0.45 | 2017 | HCUP |
| Patient Safety | Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults | 0.8 | 0.9 | Same | -8.24 | -0.92 | 2017 | HCUP |
| Patient Safety | Short-stay nursing home patients with pressure ulcers that are new or worsened | 0.4 | 0.4 | Same | -5.00 | -0.71 | 2017 | MDS |
| Patient Safety | Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults | 1.0 | 1.1 | Same | -1.89 | -0.30 | 2017 | HCUP |
| Patient Safety | Low-risk, long-stay nursing home residents with a catheter inserted and left in the bladder | 2.8 | 2.8 | Same | -0.36 | -0.14 | 2017 | MDS |
| Patient Safety | Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children | 0.3 | 0.3 | Same | 0.00 | 0.00 | 2017 | HCUP |
| Patient Safety | Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions | 150.3 | 147.0 | Same | 2.24 | 1.04 | 2017 | HCUP |
| Patient Safety | Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults | 4.5 | 4.4 | Same | 3.89 | 0.76 | 2017 | HCUP |
| Patient Safety | Postoperative acute kidney injury requiring dialysis per 1,000 elective surgical hospital discharges, adults | 2.2 | 2.1 | Same | 6.67 | 1.57 | 2017 | HCUP |
| Patient Safety | Adult surgery patients with catheter-associated urinary tract infection | 2.6 | 2.2 | Same | 18.52 | 0.49 | 2016 | MPSMS |
| Patient Safety | Adverse drug event with IV heparin in adult hospital patients who received an anticoagulant | 11.9 | 6.8 | Same | 75.70 | 1.62 | 2016 | MPSMS |
| Patient Safety | High-risk, long-stay nursing home patients with pressure ulcer | 5.1 | 4.3 | Worse | 19.95 | 7.45 | 2017 | MDS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults | 4.4 | 3.5 | Worse | 23.23 | 3.98 | 2017 | HCUP |
| Patient Safety | Home health care patients whose surgical wound was improved | 89.6 | 91.9 | Worse | 28.40 | 11.44 | 2017 | OASIS |
| Patient Safety | Home health care patients whose management of oral medications improved | 56.7 | 68.9 | Worse | 39.23 | 119.63 | 2017 | OASIS |

Table 25. Person-Centered Care Measures for Hispanic vs. Non-Hispanic White

For Person-Centered Care measures, Hispanics experienced better quality care compared with non-Hispanic Whites for 2 measures, the same quality of care for 9 measures, and worse quality for 6 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|---------------|
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always asked them to describe how they will follow the instructions | 35.0 | 23.7 | Better | -14.81 | -6.15 | 2017 | MEPS |
| Person-Centered Care | Family members who definitely received trainings about taking care their family member from hospice care team | 76.5 | 73.0 | Better | -12.96 | -8.49 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say | 6.4 | 7.1 | Same | -9.65 | -0.96 | 2017 | MEPS |
| Person-Centered Care | Hospice patients whose hospice care team always communicated well with their family caregivers about taking care them | 80.9 | 80.2 | Same | -3.54 | -3.13 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always offered help in filling out forms | 16.2 | 15.1 | Same | -1.30 | -0.63 | 2017 | MEPS |
| Person-Centered Care | Hospice patients who always received enough helps for pain, sadness, breathing, or constipations from hospice care team | 74.8 | 75.4 | Same | 2.44 | 1.90 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Family caregivers who rated the hospice care for their family member best (9-10) on a scale of 0-10 (where 0 is the worst and 10 is the best) | 80.1 | 81.0 | Same | 4.74 | 2.85 | 2018 | HOSPICE_CAHPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|---------------|
| Person-Centered Care | Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months | 12.8 | 12.2 | Same | 4.92 | 0.64 | 2017 | MEPS |
| Person-Centered Care | Hospice patients and family caregivers who always got help as soon as they need from hospice care team | 76.0 | 77.9 | Same | 8.60 | 4.61 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them | 9.0 | 8.1 | Same | 10.48 | 0.99 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them | 12.1 | 10.5 | Same | 15.24 | 1.79 | 2017 | MEPS |
| Person-Centered Care | Hospice patients whose hospice care team always treated them with dignity and respect, and really cared about them | 88.9 | 90.1 | Worse | 12.12 | 5.97 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Family caregivers who would definitely recommend this hospice to their friends and family | 83.6 | 85.4 | Worse | 12.33 | 5.69 | 2018 | HOSPICE_CAHPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions | 68.4 | 74.4 | Worse | 23.44 | 2.96 | 2017 | MEPS |
| Person-Centered Care | People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments | 19.0 | 13.5 | Worse | 40.74 | 5.08 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand | 10.1 | 6.5 | Worse | 53.98 | 3.59 | 2017 | MEPS |
| Person-Centered Care | Family caregivers who received right amount of emotional and spiritual supports from hospice care team | 84.0 | 90.3 | Worse | 64.95 | 20.95 | 2018 | HOSPICE_CAHPS |

Table 26. Care Coordination Measures for Hispanic vs. Non-Hispanic White

For Care Coordination measures, Hispanics experienced better quality care compared with non-Hispanic Whites for 6 measures, the same quality of care for 6 measures, and worse quality for 5 measures, 2016-2018.

Disparities Measures

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over | 95.0 | 197.3 | Better | -51.85 | -20.49 | 2017 | HCUP |
| Care Coordination | Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over | 299.1 | 562.2 | Better | -46.80 | -14.92 | 2017 | HCUP |
| Care Coordination | Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over | 103.7 | 169.2 | Better | -38.71 | -12.41 | 2017 | HCUP |
| Care Coordination | Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17 | 17.6 | 24.7 | Better | -28.74 | -2.95 | 2017 | HCUP |
| Care Coordination | Home health care patients who had an emergency department visit without a hospitalization | 3.0 | 4.0 | Better | -24.75 | -31.31 | 2017 | OASIS |
| Care Coordination | Hospital admissions for short-term complications of diabetes per 100,000 population, adults | 45.3 | 55.4 | Better | -18.23 | -5.02 | 2017 | HCUP |
| Care Coordination | Home health care patients who had an emergency department visit and then hospitalized | 11.6 | 12.1 | Same | -4.13 | -4.90 | 2017 | OASIS |
| Care Coordination | Hospital admissions for asthma per 100,000 population, adults ages 18-39 | 24.8 | 23.6 | Same | 5.08 | 0.81 | 2017 | HCUP |
| Care Coordination | Hospital admissions for hypertension per 100,000 population, adults age 18 and over | 46.7 | 44.4 | Same | 5.18 | 1.02 | 2017 | HCUP |
| Care Coordination | People with a usual source of care who usually asks about prescription medications and treatments from other doctors | 80.8 | 82.3 | Same | 8.47 | 1.23 | 2017 | MEPS |
| Care Coordination | Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults | 39.6 | 36.4 | Same | 8.79 | 1.78 | 2017 | HCUP |
| Care Coordination | Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years | 38.6 | 33.2 | Same | 16.27 | 1.46 | 2017 | HCUP |
| Care Coordination | Home health care patients who had to be admitted to the hospital | 15.4 | 13.9 | Worse | 10.79 | 14.71 | 2017 | OASIS |
| Care Coordination | Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes | 30.4 | 26.8 | Worse | 13.43 | 2.28 | 2017 | HCUP |
| Care Coordination | Hospital admissions for long-term complications of diabetes per 100,000 population, adults | 114.3 | 96.8 | Worse | 18.08 | 3.35 | 2017 | HCUP |
| Care Coordination | Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years | 24.4 | 19.7 | Worse | 23.86 | 2.44 | 2017 | HCUP |
| Care Coordination | Hospital admissions for asthma per 100,000 population, children ages 2-17 | 76.3 | 41.9 | Worse | 82.10 | 5.23 | 2017 | HCUP |

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Table 27. Effectiveness of Care Measures for Hispanic vs. Non-Hispanic White

For Effectiveness of Care measures, Hispanics experienced better quality care compared with non-Hispanic Whites for 8 measures, the same quality of care for 18 measures, and worse quality for 15 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Suicide deaths among persons age 12 and over per 100,000 population | 8.3 | 21.5 | Better | -61.40 | -93.34 | 2017 | NVSS_M |
| Effectiveness of Care | Lung cancer deaths per 100,000 population per year | 15.6 | 39.9 | Better | -60.90 | -108.67 | 2017 | NVSS_M |
| Effectiveness of Care | Hospital admissions for heart failure per 100,000 population | 244.0 | 436.7 | Better | -44.13 | -15.98 | 2017 | HCUP |
| Effectiveness of Care | Breast cancer deaths per 100,000 female population per year | 13.4 | 20.0 | Better | -33.00 | -20.87 | 2017 | NVSS_M |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with heart failure | 21.9 | 31.3 | Better | -30.03 | -13.04 | 2017 | HCUP |
| Effectiveness of Care | Colorectal cancer deaths per 100,000 population per year | 11.0 | 13.8 | Better | -20.29 | -12.52 | 2017 | NVSS_M |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with pneumonia | 21.9 | 27.1 | Better | -19.19 | -5.81 | 2017 | HCUP |
| Effectiveness of Care | Adult hemodialysis patients who use arteriovenous fistulas as the primary mode of vascular access | 70.9 | 66.1 | Better | -14.16 | -23.07 | 2017 | USRDS |
| Effectiveness of Care | Patients with tuberculosis who completed a curative course of treatment within 1 year of initiation of treatment | 88.3 | 86.1 | Same | -15.83 | -1.69 | 2016 | NTBSS |
| Effectiveness of Care | Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined | 93.6 | 92.5 | Same | -14.67 | -1.51 | 2016 | NCDB |
| Effectiveness of Care | People age 12 and over treated for substance abuse who completed treatment course | 44.7 | 40.2 | Same | -7.53 | -40.25 | 2017 | TEDSD |
| Effectiveness of Care | Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy) | 94.3 | 93.9 | Same | -6.56 | -0.97 | 2016 | NCDB |
| Effectiveness of Care | Long-stay nursing home residents have depressive symptoms | 4.2 | 4.5 | Same | -6.04 | -2.85 | 2017 | MDS |
| Effectiveness of Care | Persons with current asthma who received written asthma management plans from their healthcare provider | 34.2 | 33.8 | Same | -0.60 | -0.11 | 2018 | NHIS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI) | 50.4 | 50.5 | Same | -0.20 | -0.07 | 2017 | HCUP |
| Effectiveness of Care | Dialysis patients who were registered on a waiting list for transplantation | 16.0 | 16.6 | Same | 0.72 | 1.66 | 2017 | USRDS |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes with blood pressure less than 130/80 mm Hg | 52.7 | 53.1 | Same | 0.85 | 0.09 | 2016 | NHANES |
| Effectiveness of Care | People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler) | 22.0 | 22.9 | Same | 1.17 | 0.36 | 2016 | MEPS |
| Effectiveness of Care | Persons age 13 and over living with diagnosed HIV who had at least two CD4 or viral load tests performed at least 3 months apart during the last year, among reporting jurisdictions | 58.6 | 59.3 | Same | 1.72 | 4.95 | 2016 | HIV_AIDSSS |
| Effectiveness of Care | People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months | 6.9 | 9.7 | Same | 3.10 | 1.05 | 2018 | NSDUH |
| Effectiveness of Care | Adults with hypertension with blood pressure less than 140/90 mm/Hg | 14.9 | 19.8 | Same | 6.11 | 2.66 | 2016 | NHANES |
| Effectiveness of Care | Patients with treated chronic kidney failure who received a transplant within 3 years of date of renal failure | 10.1 | 16.9 | Same | 8.18 | 19.52 | 2014 | USRDS |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair | 43.1 | 38.0 | Same | 13.42 | 0.99 | 2017 | HCUP |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year | 56.9 | 62.5 | Same | 14.93 | 1.55 | 2017 | MEPS |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year | 58.0 | 63.9 | Same | 16.34 | 1.53 | 2017 | MEPS |
| Effectiveness of Care | Adults age 40 and over with diabetes whose condition was diagnosed | 75.5 | 81.1 | Same | 29.63 | 1.07 | 2016 | NHANES |
| Effectiveness of Care | People age 12 and over who needed treatment for illicit drug use and who received such treatment at a specialty facility in the last 12 months | 10.1 | 19.3 | Worse | 11.40 | 3.65 | 2018 | NSDUH |
| Effectiveness of Care | Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over | 32.3 | 28.3 | Worse | 14.13 | 3.16 | 2017 | HCUP |
| Effectiveness of Care | Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months | 37.9 | 46.1 | Worse | 15.21 | 2.54 | 2018 | NSDUH |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Adult end stage renal disease (ESRD) patients who saw a nephrologist at least 12 months prior to initiation of renal replacement therapy | 30.1 | 41.3 | Worse | 19.08 | 25.04 | 2017 | USRDS |
| Effectiveness of Care | Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over | 29.8 | 24.9 | Worse | 19.68 | 2.54 | 2017 | HCUP |
| Effectiveness of Care | Persons age 13 and over living with diagnosed HIV whose most recent viral load in the last 12 months was under 200 copies/mL | 61.3 | 67.8 | Worse | 20.19 | 45.96 | 2016 | HIV_AIDSSS |
| Effectiveness of Care | Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms | 66.9 | 74.5 | Worse | 29.80 | 2.97 | 2018 | NHIS |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year | 58.8 | 69.0 | Worse | 32.90 | 2.81 | 2017 | MEPS |
| Effectiveness of Care | Persons age 13 and over living with HIV who know their serostatus | 83.3 | 88.5 | Worse | 45.22 | 36.77 | 2016 | HIV_AIDSSS |
| Effectiveness of Care | Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months | 53.9 | 68.5 | Worse | 46.35 | 4.79 | 2018 | NSDUH |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year | 67.7 | 78.1 | Worse | 47.49 | 2.78 | 2017 | MEPS |
| Effectiveness of Care | Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis | 89.5 | 93.0 | Worse | 50.00 | 4.81 | 2016 | NCDB |
| Effectiveness of Care | Adjusted incident rates of end stage renal disease (ESRD) due to diabetes per million population | 267.6 | 131.0 | Worse | 104.27 | 48.51 | 2017 | USRDS |
| Effectiveness of Care | HIV infection deaths per 100,000 population | 1.7 | 0.7 | Worse | 142.86 | 9.81 | 2017 | NVSS_M |
| Effectiveness of Care | New HIV cases per 100,000 population age 13 and over | 22.2 | 5.9 | Worse | 276.27 | 72.90 | 2016 | HIV_AIDSSS |

Table 28. Healthy Living Measures for Hispanic vs. Non-Hispanic White

For Healthy Living measures, Hispanics experienced better quality care compared with non-Hispanic Whites for 12 measures, the same quality of care for 31 measures, and worse quality for 28 measures, 2016-2018.

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Long-stay nursing home residents with moderate to severe pain | 3.4 | 6.9 | Better | -50.58 | -36.79 | 2017 | MDS |
| Healthy Living | Short-stay nursing home residents with moderate to severe pain | 7.6 | 11.7 | Better | -35.04 | -40.20 | 2017 | MDS |
| Healthy Living | Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child | 55.0 | 44.5 | Better | -18.92 | -4.64 | 2017 | MEPS |
| Healthy Living | Breast cancer diagnosed at advanced stage (regional, distant stage, or local stage with tumor greater than 2 cm) per 100,000 women age 40 and over | 71.3 | 87.9 | Better | -18.89 | -16.85 | 2016 | NPCR_USCS |
| Healthy Living | Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car | 45.3 | 32.6 | Better | -18.84 | -3.71 | 2017 | MEPS |
| Healthy Living | Infant mortality per 1,000 live births, birth weight 2,500 grams or more | 1.6 | 1.9 | Better | -15.79 | -10.61 | 2017 | NVSS_L |
| Healthy Living | Adolescents females ages 13-15 who received 3 or more doses human papillomavirus vaccine | 45.9 | 36.3 | Better | -15.07 | -2.58 | 2017 | NIS_TEEN |
| Healthy Living | Children with obesity 2-19 years of age who had been told by a doctor or health professional that they were overweight | 49.6 | 41.3 | Better | -14.11 | -2.01 | 2016 | NHANES |
| Healthy Living | Long-stay nursing home residents whose ability to move independently worsened | 21.3 | 24.5 | Better | -13.06 | -10.12 | 2017 | MDS |
| Healthy Living | Low-risk, long-stay nursing home residents with loss of control of bowels or bladder | 67.5 | 76.6 | Better | -11.88 | -5.76 | 2017 | MDS |
| Healthy Living | Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods | 52.1 | 46.5 | Better | -10.47 | -2.93 | 2016 | MEPS |
| Healthy Living | Colorectal cancer diagnosed at advanced stage (tumors diagnosed at regional or distant stage) per 100,000 population age 50 and over | 58.7 | 65.4 | Better | -10.24 | -7.84 | 2016 | NPCR_USCS |
| Healthy Living | Children ages 19-35 months who received 1 or more doses of varicella vaccine | 91.8 | 90.3 | Same | -15.46 | -1.20 | 2017 | NIS |
| Healthy Living | Children ages 19-35 months who received 3 or more doses of polio vaccine | 93.2 | 92.3 | Same | -11.69 | -0.80 | 2017 | NIS |
| Healthy Living | Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine | 92.2 | 91.2 | Same | -11.36 | -0.83 | 2017 | NIS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine | 86.2 | 84.6 | Same | -10.39 | -0.65 | 2017 | NIS_TEEN |
| Healthy Living | Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine | 84.7 | 83.0 | Same | -10.00 | -1.05 | 2017 | NIS |
| Healthy Living | Long-stay nursing home residents whose need for help with daily activities increased | 19.0 | 21.1 | Same | -9.95 | -9.39 | 2017 | MDS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have | 53.4 | 48.3 | Same | -9.86 | -2.12 | 2017 | MEPS |
| Healthy Living | Long-stay nursing home residents with too much weight loss | 4.9 | 5.5 | Same | -9.72 | -5.59 | 2017 | MDS |
| Healthy Living | Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine | 85.9 | 84.5 | Same | -9.03 | -0.80 | 2017 | NIS_TEEN |
| Healthy Living | Children ages 6 months to 17 years who received influenza vaccination in the last flu season | 55.8 | 51.6 | Same | -8.68 | -1.44 | 2018 | NHIS |
| Healthy Living | Adolescent males ages 16-17 who received 3 or more doses of human papillomavirus (HPV) vaccine | 12.4 | 4.5 | Same | -8.27 | -2.67 | 2017 | NIS_TEEN |
| Healthy Living | Adolescent males ages 13-15 who received 3 or more doses of human papillomavirus (HPV) vaccine | 33.7 | 29.4 | Same | -6.09 | -1.46 | 2017 | NIS_TEEN |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle | 43.3 | 39.8 | Same | -5.81 | -1.37 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy | 66.7 | 65.2 | Same | -4.31 | -0.68 | 2017 | MEPS |
| Healthy Living | Adults with obesity who ever received advice from a health professional to exercise more | 63.0 | 62.1 | Same | -2.37 | -0.45 | 2016 | MEPS |
| Healthy Living | Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine | 91.3 | 91.1 | Same | -2.25 | -0.15 | 2017 | NIS |
| Healthy Living | Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season | 50.9 | 51.4 | Same | 1.03 | 0.10 | 2018 | NHIS |
| Healthy Living | Adults who received a blood cholesterol measurement in the last 5 years | 87.1 | 87.3 | Same | 1.57 | 0.22 | 2017 | NHIS |
| Healthy Living | Home health care patients who stayed at home after an episode of home health care | 81.8 | 82.1 | Same | 1.68 | 2.94 | 2017 | OASIS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car | 47.4 | 48.9 | Same | 2.94 | 0.41 | 2017 | MEPS |
| Healthy Living | Women ages 50-74 who received a mammogram in the last 2 years | 71.5 | 73.1 | Same | 5.95 | 0.62 | 2018 | NHIS |
| Healthy Living | Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination | 18.3 | 23.5 | Same | 6.80 | 2.64 | 2018 | NHIS |
| Healthy Living | Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over | 295.6 | 272.8 | Same | 8.36 | 1.35 | 2017 | HCUP |
| Healthy Living | Live-born infants with low birth weight (less than 2,500 g) | 7.5 | 6.9 | Same | 8.70 | 21.21 | 2018 | NVSS_N |
| Healthy Living | Adolescents females ages 16-17 who received 3 or more doses human papillomavirus vaccine | 48.7 | 53.2 | Same | 9.62 | 1.04 | 2017 | NIS_TEEN |
| Healthy Living | Women ages 21-65 who received a Pap smear in the last 3 years | 79.3 | 81.3 | Same | 10.70 | 1.21 | 2018 | NHIS |
| Healthy Living | Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car | 62.6 | 67.0 | Same | 13.33 | 1.24 | 2017 | MEPS |
| Healthy Living | Adults age 65 and over who received an influenza vaccination in the last flu season | 68.9 | 73.5 | Same | 17.36 | 0.78 | 2018 | NHIS |
| Healthy Living | Adult current smokers who had a doctor's office or clinic visit in the last 12 months who received advice to quit smoking from their providers | 72.0 | 77.0 | Same | 21.74 | 1.16 | 2017 | MEPS |
| Healthy Living | Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of ten years | 86.9 | 89.3 | Same | 22.43 | 1.40 | 2017 | NIS_TEEN |
| Healthy Living | Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of ten years | 85.6 | 90.3 | Same | 48.45 | 1.95 | 2017 | NIS_TEEN |
| Healthy Living | Home health care patients whose pain when moving around decreased | 76.5 | 79.1 | Worse | 12.44 | 25.50 | 2017 | OASIS |
| Healthy Living | Children ages 2-17 who had a dental visit in the calendar year | 51.7 | 60.0 | Worse | 20.75 | 3.67 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 who received a preventive dental service in the calendar year | 43.2 | 53.2 | Worse | 21.37 | 4.16 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Adults ages 18 and over who received influenza vaccination in the last flu season | 38.0 | 49.2 | Worse | 22.05 | 6.55 | 2018 | NHIS |
| Healthy Living | Long-stay nursing home patients who were assessed and appropriately given the seasonal influenza vaccine | 90.2 | 92.0 | Worse | 22.50 | 17.65 | 2017 | MDS |
| Healthy Living | Short-stay nursing home residents who were assessed for pneumococcal vaccination | 84.0 | 87.0 | Worse | 23.08 | 29.42 | 2017 | MDS |
| Healthy Living | Infants born in the calendar year who received breastfeeding through 3 months | 42.0 | 52.9 | Worse | 23.14 | 4.87 | 2016 | NIS |
| Healthy Living | Long-stay nursing home residents who were assessed for pneumococcal vaccination | 91.6 | 93.2 | Worse | 23.53 | 15.69 | 2017 | MDS |
| Healthy Living | Long-stay nursing home residents with physical restraints | 0.5 | 0.4 | Worse | 27.03 | 3.16 | 2017 | MDS |
| Healthy Living | Children ages 3-5 who ever had their vision checked by a health provider | 65.3 | 73.5 | Worse | 30.94 | 2.04 | 2017 | MEPS |
| Healthy Living | Children ages 0-17 with wellness checkup in the past 12 months | 83.2 | 87.2 | Worse | 31.25 | 3.12 | 2018 | NHIS |
| Healthy Living | Adults with obesity age 20 and over who had been told by a doctor or health professional that they were overweight | 64.8 | 73.2 | Worse | 31.34 | 4.04 | 2016 | NHANES |
| Healthy Living | Adults with a dental visit in the calendar year | 21.1 | 40.4 | Worse | 32.38 | 15.81 | 2017 | MEPS |
| Healthy Living | Cervical cancer diagnosed at advanced stage (all invasive tumors) per 100,000 women age 20 and over | 13.7 | 10.3 | Worse | 33.01 | 10.75 | 2016 | NPCR_USCS |
| Healthy Living | Home health care patients whose shortness of breath decreased | 71.4 | 78.8 | Worse | 34.91 | 72.56 | 2017 | OASIS |
| Healthy Living | Home health patients who had improvement in upper body dressing | 71.6 | 79.4 | Worse | 37.86 | 76.49 | 2017 | OASIS |
| Healthy Living | Home health care patients whose bathing improved | 72.1 | 79.8 | Worse | 38.12 | 75.50 | 2017 | OASIS |
| Healthy Living | Adults who received a preventive dental service in the calendar year | 28.2 | 48.3 | Worse | 38.88 | 16.47 | 2017 | MEPS |
| Healthy Living | Home health patients who had improvement in toileting | 67.1 | 76.6 | Worse | 40.60 | 93.16 | 2017 | OASIS |
| Healthy Living | Home health care patients whose ability to walk or move around improved | 68.2 | 77.8 | Worse | 43.24 | 94.14 | 2017 | OASIS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Home health care patients whose ability to get in and out of bed improved | 65.9 | 77.2 | Worse | 49.56 | 110.81 | 2017 | OASIS |
| Healthy Living | Children who had their height and weight measured by a health provider within the past 2 years | 93.0 | 95.5 | Worse | 55.56 | 3.20 | 2017 | MEPS |
| Healthy Living | Short-stay nursing home patients who had flu vaccination appropriately given | 81.7 | 88.3 | Worse | 56.41 | 64.72 | 2017 | MDS |
| Healthy Living | Children ages 2-19 with obesity | 23.6 | 14.7 | Worse | 60.54 | 5.70 | 2016 | NHANES |
| Healthy Living | Home health patients who had pneumococcal polysaccharide vaccination | 78.3 | 86.9 | Worse | 65.65 | 84.33 | 2017 | OASIS |
| Healthy Living | Adults age 65 and over who ever received pneumococcal vaccination | 54.3 | 72.6 | Worse | 66.79 | 7.05 | 2018 | NHIS |
| Healthy Living | Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high | 89.0 | 93.9 | Worse | 80.33 | 6.43 | 2017 | NHIS |
| Healthy Living | Home health patients who had influenza vaccination during flu season | 89.8 | 95.9 | Worse | 148.78 | 59.82 | 2017 | OASIS |

Table 29. Affordable Care Measures for Hispanic vs. Non-Hispanic White

For Affordable Care measures, Hispanics experienced better quality care compared with non-Hispanic Whites for 1 measure, the same quality of care for 1 measure, and worse quality for 3 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Affordable Care | People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income | 14.3 | 17.9 | Better | -20.38 | -3.51 | 2017 | MEPS |
| Affordable Care | People unable to get or delayed in getting needed dental care due to financial or insurance reasons | 72.2 | 68.8 | Same | 4.94 | 0.75 | 2017 | MEPS |
| Affordable Care | People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons | 68.7 | 53.9 | Worse | 27.46 | 2.39 | 2017 | MEPS |
| Affordable Care | People unable to get or delayed in getting needed medical care due to financial or insurance reasons | 49.5 | 38.3 | Worse | 29.24 | 2.20 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Affordable Care | People without a usual source of care who indicated a financial or insurance reason for not having a source of care | 20.6 | 10.3 | Worse | 100.00 | 6.19 | 2017 | MEPS |

Poor vs. High Income

Table 30. Patient Safety Measures for Poor vs. High Income

For Patient Safety measures, poor populations did not experience better quality care compared with high-income populations for any measure; they experienced same quality of care for 10 measures and worse quality for 5 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults | 0.2 | 0.2 | Same | -10.00 | -1.41 | 2017 | HCUP |
| Patient Safety | Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children | 0.3 | 0.3 | Same | -3.33 | -0.17 | 2017 | HCUP |
| Patient Safety | Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults | 1.1 | 1.1 | Same | -0.93 | -0.18 | 2017 | HCUP |
| Patient Safety | Birth trauma - injury to neonate per 1,000 selected live births | 4.7 | 4.8 | Same | -0.84 | -0.14 | 2017 | HCUP |
| Patient Safety | Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults | 0.1 | 0.1 | Same | 0.00 | 0.00 | 2017 | HCUP |
| Patient Safety | Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults | 8.2 | 7.8 | Same | 5.13 | 0.26 | 2017 | MEPS |
| Patient Safety | Postoperative acute kidney injury requiring dialysis per 1,000 elective surgical hospital discharges, adults | 2.4 | 2.3 | Same | 5.78 | 1.41 | 2017 | HCUP |
| Patient Safety | Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults | 3.5 | 3.3 | Same | 6.95 | 2.03 | 2017 | HCUP |
| Patient Safety | Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions | 154.0 | 143.3 | Same | 7.47 | 3.68 | 2017 | HCUP |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions | 0.1 | 0.1 | Same | 22.22 | 1.41 | 2017 | HCUP |
| Patient Safety | Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults | 1.0 | 0.7 | Worse | 35.14 | 4.06 | 2017 | HCUP |
| Patient Safety | Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults | 4.5 | 3.1 | Worse | 43.95 | 8.10 | 2017 | HCUP |
| Patient Safety | Deaths per 1,000 hospital admissions with expected low-mortality | 0.2 | 0.2 | Worse | 53.33 | 5.66 | 2017 | HCUP |
| Patient Safety | Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults | 0.7 | 0.5 | Worse | 57.45 | 4.77 | 2017 | HCUP |
| Patient Safety | Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults | 5.7 | 3.3 | Worse | 74.85 | 11.84 | 2017 | HCUP |

Table 31. Person-Centered Care Measures for Poor vs. High Income

For Person-Centered Care measures, poor populations experienced better quality care compared with high-income populations for 1 measure, the same quality of care for 3 measures, and worse quality for 7 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always asked them to describe how they will follow the instructions | 31.9 | 24.0 | Better | -10.39 | -4.11 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always offered help in filling out forms | 19.4 | 14.1 | Same | -6.17 | -3.12 | 2017 | MEPS |
| Person-Centered Care | Adults with limited English proficiency and usual source of care (USC) and the USC had language assistance | 92.3 | 91.9 | Same | -4.94 | -0.11 | 2017 | MEPS |
| Person-Centered Care | Adults with limited English proficiency who had a usual source of care | 65.2 | 70.0 | Same | 16.00 | 0.88 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Person-Centered Care | People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments | 18.4 | 13.8 | Worse | 33.33 | 3.77 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them | 14.8 | 10.0 | Worse | 48.00 | 3.97 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions | 64.2 | 76.6 | Worse | 52.99 | 6.30 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them | 11.8 | 7.0 | Worse | 68.28 | 4.53 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say | 10.5 | 6.0 | Worse | 73.92 | 4.65 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand | 11.4 | 6.1 | Worse | 87.36 | 4.96 | 2017 | MEPS |
| Person-Centered Care | Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months | 21.6 | 9.4 | Worse | 129.79 | 8.76 | 2017 | MEPS |

Table 32. Care Coordination Measures for Poor vs. High Income

For Care Coordination measures, poor populations did not experience better quality care or the same quality of care compared with high-income populations for any measure; they experienced worse quality for 20 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children | 563.5 | 508.0 | Worse | 10.93 | 2.46 | 2016 | HCUP |
| Care Coordination | People with a usual source of care who usually asks about prescription medications and treatments from other doctors | 78.5 | 83.1 | Worse | 27.22 | 3.53 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | Emergency department visits with a principal diagnosis related to substance abuse only, per 100,000 population | 707.0 | 468.8 | Worse | 50.81 | 3.99 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years | 45.5 | 30.1 | Worse | 51.16 | 3.87 | 2017 | HCUP |
| Care Coordination | Emergency department visits with a principal diagnosis related to mental health only per 100,000 population | 1395.4 | 813.4 | Worse | 71.55 | 6.95 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over | 200.6 | 116.2 | Worse | 72.63 | 14.21 | 2017 | HCUP |
| Care Coordination | Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17 | 33.8 | 17.6 | Worse | 92.05 | 5.03 | 2017 | HCUP |
| Care Coordination | Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over | 230.6 | 119.8 | Worse | 92.49 | 18.20 | 2017 | HCUP |
| Care Coordination | Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years | 29.4 | 14.5 | Worse | 102.76 | 7.67 | 2017 | HCUP |
| Care Coordination | Hospitalizations and emergency department encounters for heart failure | 726.0 | 344.2 | Worse | 110.92 | 9.43 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for long-term complications of diabetes per 100,000 population, adults | 172.8 | 66.0 | Worse | 161.82 | 22.11 | 2017 | HCUP |
| Care Coordination | Hospital admissions for asthma per 100,000 population, adults ages 18-39 | 51.7 | 18.8 | Worse | 175.00 | 16.25 | 2017 | HCUP |
| Care Coordination | Hospital admissions for asthma per 100,000 population, children ages 2-17 | 138.5 | 50.2 | Worse | 175.90 | 7.14 | 2017 | HCUP |
| Care Coordination | Hospital admissions for hypertension per 100,000 population, adults age 18 and over | 106.0 | 37.1 | Worse | 185.71 | 22.01 | 2017 | HCUP |
| Care Coordination | Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults | 76.0 | 26.2 | Worse | 190.08 | 22.27 | 2017 | HCUP |
| Care Coordination | Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over | 859.3 | 294.5 | Worse | 191.78 | 26.02 | 2017 | HCUP |
| Care Coordination | Emergency department encounters for asthma, adults | 605.8 | 207.6 | Worse | 191.81 | 10.44 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes | 49.3 | 16.8 | Worse | 193.45 | 21.34 | 2017 | HCUP |
| Care Coordination | Hospital admissions for short-term complications of diabetes per 100,000 population, adults | 101.0 | 32.9 | Worse | 206.99 | 27.15 | 2017 | HCUP |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | Emergency department encounters for asthma, children ages 2-17 | 1034.1 | 334.6 | Worse | 209.06 | 6.53 | 2017 | HCUP_NEDS |

Table 33. Effectiveness of Care Measures for Poor vs. High Income

For Effectiveness of Care measures, poor populations experienced better quality care compared with high-income populations for 2 measures, the same quality of care for 16 measures, and worse quality for 8 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with heart failure | 23.3 | 31.5 | Better | -26.03 | -11.37 | 2017 | HCUP |
| Effectiveness of Care | People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months | 14.5 | 4.9 | Better | -10.09 | -4.37 | 2018 | NSDUH |
| Effectiveness of Care | Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms | 75.2 | 73.1 | Same | -7.81 | -0.88 | 2018 | NHIS |
| Effectiveness of Care | People age 12 and over who needed treatment for illicit drug use and who received such treatment at a specialty facility in the last 12 months | 18.3 | 11.5 | Same | -7.68 | -2.53 | 2018 | NSDUH |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with pneumonia | 24.9 | 26.8 | Same | -7.09 | -2.21 | 2017 | HCUP |
| Effectiveness of Care | Persons with current asthma who received written asthma management plans from their healthcare provider | 36.6 | 35.2 | Same | -2.16 | -0.39 | 2018 | NHIS |
| Effectiveness of Care | People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler) | 22.8 | 21.3 | Same | -1.91 | -0.56 | 2016 | MEPS |
| Effectiveness of Care | Adults with hypertension with blood pressure less than 140/90 mm/Hg | 19.4 | 18.1 | Same | -1.59 | -0.51 | 2016 | NHANES |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI) | 50.1 | 50.9 | Same | -1.57 | -0.66 | 2017 | HCUP |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair | 39.2 | 38.6 | Same | 1.55 | 0.18 | 2017 | HCUP |
| Effectiveness of Care | Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months | 41.8 | 43.9 | Same | 3.74 | 0.55 | 2018 | NSDUH |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over | 29.9 | 28.3 | Same | 5.65 | 1.51 | 2017 | HCUP |
| Effectiveness of Care | Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months | 66.0 | 68.1 | Same | 6.58 | 0.80 | 2018 | NSDUH |
| Effectiveness of Care | Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy) | 94.0 | 94.4 | Same | 7.14 | 0.36 | 2016 | NCDB |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year | 73.7 | 78.3 | Same | 21.20 | 1.03 | 2017 | MEPS |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes with blood pressure less than 130/80 mm Hg | 46.4 | 56.6 | Same | 23.50 | 1.67 | 2016 | NHANES |
| Effectiveness of Care | Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined | 92.7 | 95.5 | Same | 62.22 | 1.46 | 2016 | NCDB |
| Effectiveness of Care | Adults age 40 and over with diabetes whose condition was diagnosed | 77.9 | 87.0 | Same | 70.00 | 1.40 | 2016 | NHANES |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year | 55.7 | 66.7 | Worse | 33.03 | 2.59 | 2017 | MEPS |
| Effectiveness of Care | Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over | 29.1 | 21.8 | Worse | 33.49 | 5.16 | 2017 | HCUP |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year | 61.4 | 72.2 | Worse | 38.85 | 2.68 | 2017 | MEPS |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year | 53.8 | 69.7 | Worse | 52.48 | 3.74 | 2017 | MEPS |
| Effectiveness of Care | Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis | 89.2 | 93.1 | Worse | 56.52 | 1.98 | 2016 | NCDB |
| Effectiveness of Care | Emergency department visits involving opioid-related diagnoses per 100,000 population | 328.8 | 172.1 | Worse | 91.05 | 6.18 | 2017 | HCUP_NEDS |
| Effectiveness of Care | Hospital inpatient stays involving opioid-related diagnoses per 100,000 population | 398.2 | 206.2 | Worse | 93.11 | 14.62 | 2017 | HCUP |
| Effectiveness of Care | Hospital admissions for heart failure per 100,000 population | 625.5 | 304.1 | Worse | 105.69 | 18.87 | 2017 | HCUP |

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Table 34. Healthy Living Measures for Poor vs. High Income

For Healthy Living measures, poor populations experienced better quality care compared with high-income populations for 1 measure, the same quality of care for 17 measures, and worse quality for 27 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child | 60.4 | 40.0 | Better | -34.00 | -7.21 | 2017 | MEPS |
| Healthy Living | Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car | 68.8 | 64.9 | Same | -11.11 | -1.02 | 2017 | MEPS |
| Healthy Living | Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car | 39.7 | 33.9 | Same | -8.77 | -1.58 | 2017 | MEPS |
| Healthy Living | Adolescent males ages 16-17 who received 3 or more doses of human papillomavirus (HPV) vaccine | 9.6 | 5.4 | Same | -4.44 | -1.58 | 2017 | NIS_TEEN |
| Healthy Living | Adolescent males ages 13-15 who received 3 or more doses of human papillomavirus (HPV) vaccine | 33.3 | 30.3 | Same | -4.30 | -1.03 | 2017 | NIS_TEEN |
| Healthy Living | Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination | 24.3 | 21.4 | Same | -3.69 | -1.56 | 2018 | NHIS |
| Healthy Living | Adult current smokers who had a doctor's office or clinic visit in the last 12 months who received advice to quit smoking from their providers | 75.8 | 75.7 | Same | -0.41 | -0.03 | 2017 | MEPS |
| Healthy Living | Adolescents females ages 13-15 who received 3 or more doses human papillomavirus vaccine | 39.9 | 42.1 | Same | 3.80 | 0.64 | 2017 | NIS_TEEN |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle | 39.1 | 42.1 | Same | 5.18 | 1.08 | 2017 | MEPS |
| Healthy Living | Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine | 86.4 | 87.2 | Same | 6.25 | 0.49 | 2017 | NIS_TEEN |
| Healthy Living | Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over | 295.7 | 273.9 | Same | 7.96 | 1.73 | 2017 | HCUP |
| Healthy Living | Adolescents females ages 16-17 who received 3 or more doses human papillomavirus vaccine | 49.9 | 54.3 | Same | 9.63 | 0.93 | 2017 | NIS_TEEN |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of | 46.6 | 51.3 | Same | 9.65 | 1.62 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| | exercise, sports, or physically active hobbies they should have | | | | | | | |
| Healthy Living | Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods | 45.7 | 50.5 | Same | 9.70 | 2.19 | 2016 | MEPS |
| Healthy Living | Adults with obesity who ever received advice from a health professional to exercise more | 60.8 | 64.3 | Same | 9.80 | 1.52 | 2016 | MEPS |
| Healthy Living | Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine | 84.0 | 85.7 | Same | 11.89 | 0.58 | 2017 | NIS_TEEN |
| Healthy Living | Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of ten years | 89.2 | 90.9 | Same | 18.68 | 1.08 | 2017 | NIS_TEEN |
| Healthy Living | Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of ten years | 86.4 | 89.3 | Same | 27.10 | 0.99 | 2017 | NIS_TEEN |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy | 63.1 | 68.5 | Worse | 17.14 | 2.06 | 2017 | MEPS |
| Healthy Living | Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car | 43.0 | 51.9 | Worse | 18.50 | 2.05 | 2017 | MEPS |
| Healthy Living | Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season | 44.9 | 55.5 | Worse | 23.82 | 2.75 | 2018 | NHIS |
| Healthy Living | Adults with obesity age 20 and over who had been told by a doctor or health professional that they were overweight | 65.9 | 73.6 | Worse | 29.17 | 2.78 | 2016 | NHANES |
| Healthy Living | Children ages 6 months to 17 years who received influenza vaccination in the last flu season | 49.7 | 61.1 | Worse | 29.31 | 3.27 | 2018 | NHIS |
| Healthy Living | Adults ages 18 and over who received influenza vaccination in the last flu season | 37.5 | 52.0 | Worse | 30.21 | 8.99 | 2018 | NHIS |
| Healthy Living | Infants born in the calendar year who received breastfeeding through 3 months | 36.4 | 52.5 | Worse | 33.89 | 6.13 | 2016 | NIS |
| Healthy Living | Children ages 3-5 who ever had their vision checked by a health provider | 65.3 | 77.1 | Worse | 51.53 | 2.65 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 who received a preventive dental service in the calendar year | 34.1 | 58.2 | Worse | 57.66 | 8.71 | 2017 | MEPS |
| Healthy Living | Adults with a dental visit in the calendar year | 15.2 | 46.8 | Worse | 59.40 | 24.83 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Adults who received a preventive dental service in the calendar year | 24.0 | 53.8 | Worse | 64.50 | 21.91 | 2017 | MEPS |
| Healthy Living | Adults age 65 and over who ever received pneumococcal vaccination | 53.1 | 72.0 | Worse | 67.50 | 6.92 | 2018 | NHIS |
| Healthy Living | Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine | 90.1 | 94.1 | Worse | 67.80 | 2.94 | 2017 | NIS |
| Healthy Living | Adults age 65 and over who received an influenza vaccination in the last flu season | 60.1 | 76.6 | Worse | 70.51 | 4.78 | 2018 | NHIS |
| Healthy Living | Children ages 2-17 who had a dental visit in the calendar year | 42.5 | 66.4 | Worse | 71.13 | 8.88 | 2017 | MEPS |
| Healthy Living | Children ages 19-35 months who received 1 or more doses of varicella vaccine | 89.1 | 93.8 | Worse | 75.81 | 3.32 | 2017 | NIS |
| Healthy Living | Children ages 2-19 with obesity | 21.0 | 11.9 | Worse | 76.47 | 3.57 | 2016 | NHANES |
| Healthy Living | Children ages 0-17 with wellness checkup in the past 12 months | 83.0 | 90.4 | Worse | 77.08 | 4.59 | 2018 | NHIS |
| Healthy Living | Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine | 79.0 | 88.3 | Worse | 79.49 | 4.69 | 2017 | NIS |
| Healthy Living | Adults who received a blood cholesterol measurement in the last 5 years | 81.8 | 90.7 | Worse | 95.70 | 7.96 | 2017 | NHIS |
| Healthy Living | Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high | 89.7 | 95.0 | Worse | 106.00 | 5.93 | 2017 | NHIS |
| Healthy Living | Women ages 50-74 who received a mammogram in the last 2 years | 57.8 | 79.9 | Worse | 109.95 | 8.50 | 2018 | NHIS |
| Healthy Living | Women ages 21-65 who received a Pap smear in the last 3 years | 69.8 | 85.9 | Worse | 114.18 | 7.81 | 2018 | NHIS |
| Healthy Living | Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine | 88.9 | 94.9 | Worse | 117.65 | 4.46 | 2017 | NIS |
| Healthy Living | Children ages 19-35 months who received 3 or more doses of polio vaccine | 91.7 | 96.2 | Worse | 118.42 | 4.50 | 2017 | NIS |
| Healthy Living | Children ages 5-17 with untreated dental caries | 22.7 | 9.1 | Worse | 149.45 | 6.87 | 2016 | NHANES |
| Healthy Living | Children who had their height and weight measured by a health provider within the past 2 years | 91.8 | 96.9 | Worse | 164.52 | 4.95 | 2017 | MEPS |

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Table 35. Affordable Care Measures for Poor vs. High Income

For Affordable Care measures, poor populations did not experience better quality care or the same quality of care compared with high-income populations for any measure; they experienced worse quality for 5 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Affordable Care | People unable to get or delayed in getting needed dental care due to financial or insurance reasons | 76.5 | 56.0 | Worse | 36.61 | 4.46 | 2017 | MEPS |
| Affordable Care | People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons | 71.2 | 40.7 | Worse | 74.94 | 5.80 | 2017 | MEPS |
| Affordable Care | People unable to get or delayed in getting needed medical care due to financial or insurance reasons | 51.5 | 27.5 | Worse | 87.27 | 5.21 | 2017 | MEPS |
| Affordable Care | People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income | 24.0 | 8.5 | Worse | 181.83 | 11.45 | 2017 | MEPS |
| Affordable Care | People without a usual source of care who indicated a financial or insurance reason for not having a source of care | 20.3 | 6.5 | Worse | 212.31 | 6.86 | 2017 | MEPS |

Low Income vs. High Income

Table 36. Patient Safety Measures for Low Income vs. High Income

For Patient Safety measures, low-income populations did not experience better quality care compared with high-income populations for any measure; they experienced the same quality of care for 9 measures and worse quality for 6 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Postoperative acute kidney injury requiring dialysis per 1,000 elective surgical hospital discharges, adults | 2.1 | 2.3 | Same | -4.89 | -1.28 | 2017 | HCUP |
| Patient Safety | Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults | 0.1 | 0.1 | Same | 0.00 | 0.00 | 2017 | HCUP |
| Patient Safety | Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults | 0.2 | 0.2 | Same | 0.00 | 0.00 | 2017 | HCUP |
| Patient Safety | Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults | 1.1 | 1.1 | Same | 0.93 | 0.18 | 2017 | HCUP |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults | 3.4 | 3.3 | Same | 1.51 | 0.47 | 2017 | HCUP |
| Patient Safety | Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions | 147.3 | 143.3 | Same | 2.79 | 1.35 | 2017 | HCUP |
| Patient Safety | Birth trauma - injury to neonate per 1,000 selected live births | 5.0 | 4.8 | Same | 4.60 | 0.76 | 2017 | HCUP |
| Patient Safety | Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions | 0.1 | 0.1 | Same | 11.11 | 0.71 | 2017 | HCUP |
| Patient Safety | Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children | 0.3 | 0.3 | Same | 13.33 | 0.62 | 2017 | HCUP |
| Patient Safety | Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults | 0.9 | 0.7 | Worse | 18.92 | 2.47 | 2017 | HCUP |
| Patient Safety | Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults | 3.9 | 3.1 | Worse | 23.89 | 5.05 | 2017 | HCUP |
| Patient Safety | Deaths per 1,000 hospital admissions with expected low-mortality | 0.2 | 0.2 | Worse | 33.33 | 3.54 | 2017 | HCUP |
| Patient Safety | Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults | 11.0 | 7.8 | Worse | 41.03 | 2.22 | 2017 | MEPS |
| Patient Safety | Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults | 4.8 | 3.3 | Worse | 48.16 | 8.54 | 2017 | HCUP |
| Patient Safety | Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults | 0.7 | 0.5 | Worse | 51.06 | 4.24 | 2017 | HCUP |

Table 37. Person-Centered Care Measures for Low Income vs. High Income

For Person-Centered Care measures, low-income populations did not experience better quality care compared with high-income populations for any measure; they experienced the same quality of care for 4 measures and worse quality for 7 measures, 2016-2018.

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always asked them to describe how they will follow the instructions | 31.2 | 24.0 | Same | -9.47 | -4.12 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always offered help in filling out forms | 17.8 | 14.1 | Same | -4.31 | -2.29 | 2017 | MEPS |
| Person-Centered Care | Adults with limited English proficiency and usual source of care (USC) and the USC had language assistance | 90.7 | 91.9 | Same | 14.81 | 0.29 | 2017 | MEPS |
| Person-Centered Care | Adults with limited English proficiency who had a usual source of care | 64.1 | 70.0 | Same | 19.67 | 1.06 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them | 12.5 | 10.0 | Worse | 25.00 | 2.24 | 2017 | MEPS |
| Person-Centered Care | People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments | 18.1 | 13.8 | Worse | 31.16 | 3.77 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say | 8.1 | 6.0 | Worse | 35.05 | 2.43 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them | 9.9 | 7.0 | Worse | 40.68 | 3.24 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions | 66.8 | 76.6 | Worse | 41.88 | 6.08 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand | 10.1 | 6.1 | Worse | 65.35 | 4.71 | 2017 | MEPS |
| Person-Centered Care | Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months | 16.3 | 9.4 | Worse | 73.40 | 6.17 | 2017 | MEPS |

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Table 38. Care Coordination Measures for Low Income vs. High Income

For Care Coordination measures, low-income populations did not experience better quality care compared with high-income populations for any measure; they experienced the same quality of care for 2 measures and worse quality for 18 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | Emergency department visits with a principal diagnosis related to substance abuse only, per 100,000 population | 528.3 | 468.8 | Same | 12.69 | 1.14 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years | 34.9 | 30.1 | Same | 15.95 | 1.47 | 2017 | HCUP |
| Care Coordination | Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children | 560.8 | 508.0 | Worse | 10.39 | 2.38 | 2016 | HCUP |
| Care Coordination | People with a usual source of care who usually asks about prescription medications and treatments from other doctors | 78.8 | 83.1 | Worse | 25.44 | 3.30 | 2017 | MEPS |
| Care Coordination | Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over | 159.4 | 116.2 | Worse | 37.18 | 8.09 | 2017 | HCUP |
| Care Coordination | Hospital admissions for asthma per 100,000 population, children ages 2-17 | 71.4 | 50.2 | Worse | 42.23 | 3.70 | 2017 | HCUP |
| Care Coordination | Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17 | 25.2 | 17.6 | Worse | 43.18 | 2.90 | 2017 | HCUP |
| Care Coordination | Emergency department visits with a principal diagnosis related to mental health only per 100,000 population | 1167.7 | 813.4 | Worse | 43.56 | 4.83 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years | 21.4 | 14.5 | Worse | 47.59 | 4.44 | 2017 | HCUP |
| Care Coordination | Hospitalizations and emergency department encounters for heart failure | 532.6 | 344.2 | Worse | 54.74 | 6.31 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over | 189.7 | 119.8 | Worse | 58.35 | 12.35 | 2017 | HCUP |
| Care Coordination | Hospital admissions for asthma per 100,000 population, adults ages 18-39 | 31.6 | 18.8 | Worse | 68.09 | 11.23 | 2017 | HCUP |
| Care Coordination | Hospital admissions for hypertension per 100,000 population, adults age 18 and over | 62.6 | 37.1 | Worse | 68.73 | 12.43 | 2017 | HCUP |
| Care Coordination | Hospital admissions for long-term complications of diabetes per 100,000 population, adults | 117.3 | 66.0 | Worse | 77.73 | 15.40 | 2017 | HCUP |
| Care Coordination | Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults | 46.6 | 26.2 | Worse | 77.86 | 13.72 | 2017 | HCUP |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | Emergency department encounters for asthma, children ages 2-17 | 609.0 | 334.6 | Worse | 82.01 | 5.14 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes | 32.7 | 16.8 | Worse | 94.64 | 15.90 | 2017 | HCUP |
| Care Coordination | Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over | 583.9 | 294.5 | Worse | 98.27 | 17.89 | 2017 | HCUP |
| Care Coordination | Emergency department encounters for asthma, adults | 416.9 | 207.6 | Worse | 100.82 | 8.42 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for short-term complications of diabetes per 100,000 population, adults | 67.5 | 32.9 | Worse | 105.17 | 19.19 | 2017 | HCUP |

Table 39. Effectiveness of Care Measures for Low Income vs. High Income

For Effectiveness of Care measures, low-income populations experienced better quality care compared with high-income populations for 1 measure, the same quality of care for 15 measures, and worse quality for 10 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with heart failure | 27.9 | 31.5 | Better | -11.43 | -4.61 | 2017 | HCUP |
| Effectiveness of Care | People age 12 and over who needed treatment for illicit drug use and who received such treatment at a specialty facility in the last 12 months | 19.5 | 11.5 | Same | -9.04 | -2.61 | 2018 | NSDUH |
| Effectiveness of Care | People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months | 11.3 | 4.9 | Same | -6.73 | -2.80 | 2018 | NSDUH |
| Effectiveness of Care | People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler) | 24.4 | 21.3 | Same | -3.94 | -1.10 | 2016 | MEPS |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with pneumonia | 26.1 | 26.8 | Same | -2.61 | -0.81 | 2017 | HCUP |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI) | 49.9 | 50.9 | Same | -1.96 | -0.78 | 2017 | HCUP |
| Effectiveness of Care | Persons with current asthma who received written asthma management plans from their healthcare provider | 36.4 | 35.2 | Same | -1.85 | -0.35 | 2018 | NHIS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Adults with hypertension with blood pressure less than 140/90 mm/Hg | 19.0 | 18.1 | Same | -1.10 | -0.36 | 2016 | NHANES |
| Effectiveness of Care | Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms | 72.9 | 73.1 | Same | 0.74 | 0.09 | 2018 | NHIS |
| Effectiveness of Care | Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over | 28.8 | 28.3 | Same | 1.77 | 0.50 | 2017 | HCUP |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair | 39.9 | 38.6 | Same | 3.37 | 0.38 | 2017 | HCUP |
| Effectiveness of Care | Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy) | 94.0 | 94.4 | Same | 7.14 | 0.78 | 2016 | NCDB |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year | 70.2 | 72.2 | Same | 7.19 | 0.52 | 2017 | MEPS |
| Effectiveness of Care | Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months | 37.6 | 43.9 | Same | 11.23 | 1.94 | 2018 | NSDUH |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes with blood pressure less than 130/80 mm Hg | 47.9 | 56.6 | Same | 20.05 | 1.53 | 2016 | NHANES |
| Effectiveness of Care | Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis | 91.6 | 93.1 | Same | 21.74 | 1.82 | 2016 | NCDB |
| Effectiveness of Care | Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months | 62.2 | 68.1 | Worse | 18.50 | 2.06 | 2018 | NSDUH |
| Effectiveness of Care | Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over | 27.0 | 21.8 | Worse | 23.85 | 3.68 | 2017 | HCUP |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year | 57.7 | 66.7 | Worse | 27.03 | 2.16 | 2017 | MEPS |
| Effectiveness of Care | Emergency department visits involving opioid-related diagnoses per 100,000 population | 250.4 | 172.1 | Worse | 45.50 | 4.43 | 2017 | HCUP_NEDS |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year | 55.8 | 69.7 | Worse | 45.87 | 3.27 | 2017 | MEPS |
| Effectiveness of Care | Hospital inpatient stays involving opioid-related diagnoses per 100,000 population | 302.0 | 206.2 | Worse | 46.46 | 10.19 | 2017 | HCUP |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year | 68.0 | 78.3 | Worse | 47.47 | 2.27 | 2017 | MEPS |
| Effectiveness of Care | Hospital admissions for heart failure per 100,000 population | 462.3 | 304.1 | Worse | 52.02 | 11.89 | 2017 | HCUP |
| Effectiveness of Care | Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined | 92.1 | 95.5 | Worse | 75.56 | 3.69 | 2016 | NCDB |
| Effectiveness of Care | Adults age 40 and over with diabetes whose condition was diagnosed | 73.0 | 87.0 | Worse | 107.69 | 2.62 | 2016 | NHANES |

Table 40. Healthy Living Measures for Low Income vs. High Income

For Healthy Living measures, low-income populations experienced better quality care compared with high-income populations for 1 measure, the same quality of care for 16 measures, and worse quality for 28 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child | 53.1 | 40.0 | Better | -21.83 | -4.63 | 2017 | MEPS |
| Healthy Living | Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination | 27.4 | 21.4 | Same | -7.63 | -2.96 | 2018 | NHIS |
| Healthy Living | Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car | 36.4 | 33.9 | Same | -3.78 | -0.64 | 2017 | MEPS |
| Healthy Living | Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine | 85.8 | 85.7 | Same | -0.70 | -0.05 | 2017 | NIS_TEEN |
| Healthy Living | Adolescent males ages 16-17 who received 3 or more doses of human papillomavirus (HPV) vaccine | 5.5 | 5.4 | Same | -0.11 | -0.06 | 2017 | NIS_TEEN |
| Healthy Living | Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over | 274.3 | 273.9 | Same | 0.15 | 0.03 | 2017 | HCUP |
| Healthy Living | Adolescents females ages 13-15 who received 3 or more doses human papillomavirus vaccine | 41.6 | 42.1 | Same | 0.86 | 0.13 | 2017 | NIS_TEEN |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Adult current smokers who had a doctor's office or clinic visit in the last 12 months who received advice to quit smoking from their providers | 75.4 | 75.7 | Same | 1.23 | 0.07 | 2017 | MEPS |
| Healthy Living | Adolescent males ages 13-15 who received 3 or more doses of human papillomavirus (HPV) vaccine | 28.7 | 30.3 | Same | 2.30 | 0.51 | 2017 | NIS_TEEN |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle | 39.1 | 42.1 | Same | 5.18 | 1.01 | 2017 | MEPS |
| Healthy Living | Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of ten years | 88.7 | 89.3 | Same | 5.61 | 0.30 | 2017 | NIS_TEEN |
| Healthy Living | Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car | 62.9 | 64.9 | Same | 5.70 | 0.48 | 2017 | MEPS |
| Healthy Living | Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods | 47.4 | 50.5 | Same | 6.26 | 1.32 | 2016 | MEPS |
| Healthy Living | Adults with obesity who ever received advice from a health professional to exercise more | 61.2 | 64.3 | Same | 8.68 | 1.45 | 2016 | MEPS |
| Healthy Living | Adolescents females ages 16-17 who received 3 or more doses human papillomavirus vaccine | 46.9 | 54.3 | Same | 16.19 | 1.62 | 2017 | NIS_TEEN |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy | 63.3 | 68.5 | Same | 16.51 | 1.93 | 2017 | MEPS |
| Healthy Living | Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car | 42.9 | 51.9 | Same | 18.71 | 1.93 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have | 45.3 | 51.3 | Worse | 12.32 | 2.07 | 2017 | MEPS |
| Healthy Living | Infants born in the calendar year who received breastfeeding through 3 months | 46.3 | 52.5 | Worse | 13.05 | 2.36 | 2016 | NIS |
| Healthy Living | Adults age 65 and over who ever received pneumococcal vaccination | 67.0 | 72.0 | Worse | 17.86 | 2.58 | 2018 | NHIS |
| Healthy Living | Adults with obesity age 20 and over who had been told by a doctor or health professional that they were overweight | 67.7 | 73.6 | Worse | 22.35 | 1.97 | 2016 | NHANES |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Adults age 65 and over who received an influenza vaccination in the last flu season | 70.7 | 76.6 | Worse | 25.21 | 1.97 | 2018 | NHIS |
| Healthy Living | Children ages 6 months to 17 years who received influenza vaccination in the last flu season | 51.1 | 61.1 | Worse | 25.71 | 3.47 | 2018 | NHIS |
| Healthy Living | Adults ages 18 and over who received influenza vaccination in the last flu season | 39.3 | 52.0 | Worse | 26.46 | 8.32 | 2018 | NHIS |
| Healthy Living | Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season | 43.4 | 55.5 | Worse | 27.19 | 3.20 | 2018 | NHIS |
| Healthy Living | Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine | 82.7 | 87.2 | Worse | 35.16 | 2.38 | 2017 | NIS_TEEN |
| Healthy Living | Children ages 2-17 who received a preventive dental service in the calendar year | 38.2 | 58.2 | Worse | 47.85 | 7.06 | 2017 | MEPS |
| Healthy Living | Adults with a dental visit in the calendar year | 18.7 | 46.8 | Worse | 52.82 | 23.34 | 2017 | MEPS |
| Healthy Living | Adults who received a blood cholesterol measurement in the last 5 years | 85.6 | 90.7 | Worse | 54.84 | 5.93 | 2017 | NHIS |
| Healthy Living | Children ages 3-5 who ever had their vision checked by a health provider | 64.3 | 77.1 | Worse | 55.90 | 2.70 | 2017 | MEPS |
| Healthy Living | Children ages 0-17 with wellness checkup in the past 12 months | 84.9 | 90.4 | Worse | 57.29 | 4.04 | 2018 | NHIS |
| Healthy Living | Adults who received a preventive dental service in the calendar year | 26.7 | 53.8 | Worse | 58.66 | 22.51 | 2017 | MEPS |
| Healthy Living | Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of ten years | 85.1 | 90.9 | Worse | 63.74 | 3.02 | 2017 | NIS_TEEN |
| Healthy Living | Children ages 2-17 who had a dental visit in the calendar year | 44.6 | 66.4 | Worse | 64.88 | 7.90 | 2017 | MEPS |
| Healthy Living | Children ages 2-19 with obesity | 20.7 | 11.9 | Worse | 73.95 | 3.45 | 2016 | NHANES |
| Healthy Living | Women ages 50-74 who received a mammogram in the last 2 years | 63.4 | 79.9 | Worse | 82.09 | 7.38 | 2018 | NHIS |
| Healthy Living | Women ages 21-65 who received a Pap smear in the last 3 years | 74.3 | 85.9 | Worse | 82.27 | 6.82 | 2018 | NHIS |
| Healthy Living | Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine | 78.6 | 88.3 | Worse | 82.91 | 4.89 | 2017 | NIS |
| Healthy Living | Children ages 19-35 months who received 1 or more doses of varicella vaccine | 88.6 | 93.8 | Worse | 83.87 | 3.68 | 2017 | NIS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine | 88.8 | 94.1 | Worse | 89.83 | 4.14 | 2017 | NIS |
| Healthy Living | Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high | 90.3 | 95.0 | Worse | 94.00 | 5.83 | 2017 | NHIS |
| Healthy Living | Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine | 89.6 | 94.9 | Worse | 103.92 | 3.94 | 2017 | NIS |
| Healthy Living | Children ages 5-17 with untreated dental caries | 18.7 | 9.1 | Worse | 105.49 | 5.21 | 2016 | NHANES |
| Healthy Living | Children who had their height and weight measured by a health provider within the past 2 years | 92.9 | 96.9 | Worse | 129.03 | 4.24 | 2017 | MEPS |
| Healthy Living | Children ages 19-35 months who received 3 or more doses of polio vaccine | 89.1 | 96.2 | Worse | 186.84 | 5.67 | 2017 | NIS |

Table 41. Affordable Care Measures for Low Income vs. High Income

For Affordable Care measures, low-income populations did not experience better quality care or the same quality of care compared with high-income populations for any measure; they experienced worse quality for 5 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Affordable Care | People unable to get or delayed in getting needed dental care due to financial or insurance reasons | 78.3 | 56.0 | Worse | 39.82 | 5.06 | 2017 | MEPS |
| Affordable Care | People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons | 69.8 | 40.7 | Worse | 71.50 | 5.33 | 2017 | MEPS |
| Affordable Care | People unable to get or delayed in getting needed medical care due to financial or insurance reasons | 50.2 | 27.5 | Worse | 82.55 | 4.92 | 2017 | MEPS |
| Affordable Care | People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income | 22.0 | 8.5 | Worse | 158.26 | 9.77 | 2017 | MEPS |
| Affordable Care | People without a usual source of care who indicated a financial or insurance reason for not having a source of care | 18.3 | 6.5 | Worse | 181.54 | 7.09 | 2017 | MEPS |

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Middle Income vs. High Income

Table 42. Patient Safety Measures for Middle Income vs. High Income

For Patient Safety measures, middle-income populations did not experience better quality care compared with high-income populations for any measure; they experienced the same quality of care for 10 measures and worse quality for 5 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults | 1.0 | 1.1 | Same | -5.61 | -1.06 | 2017 | HCUP |
| Patient Safety | Postoperative acute kidney injury requiring dialysis per 1,000 elective surgical hospital discharges, adults | 2.2 | 2.3 | Same | -4.00 | -1.05 | 2017 | HCUP |
| Patient Safety | Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults | 3.3 | 3.3 | Same | -1.51 | -0.47 | 2017 | HCUP |
| Patient Safety | Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults | 0.1 | 0.1 | Same | 0.00 | 0.00 | 2017 | HCUP |
| Patient Safety | Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults | 0.2 | 0.2 | Same | 0.00 | 0.00 | 2017 | HCUP |
| Patient Safety | Birth trauma - injury to neonate per 1,000 selected live births | 4.9 | 4.8 | Same | 2.72 | 0.47 | 2017 | HCUP |
| Patient Safety | Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions | 147.2 | 143.3 | Same | 2.72 | 1.37 | 2017 | HCUP |
| Patient Safety | Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults | 0.8 | 0.7 | Same | 10.81 | 1.41 | 2017 | HCUP |
| Patient Safety | Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions | 0.1 | 0.1 | Same | 11.11 | 0.71 | 2017 | HCUP |
| Patient Safety | Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children | 0.3 | 0.3 | Same | 13.33 | 0.62 | 2017 | HCUP |
| Patient Safety | Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults | 3.6 | 3.1 | Worse | 14.01 | 2.96 | 2017 | HCUP |
| Patient Safety | Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults | 4.2 | 3.3 | Worse | 29.14 | 5.37 | 2017 | HCUP |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Deaths per 1,000 hospital admissions with expected low-mortality | 0.2 | 0.2 | Worse | 33.33 | 3.54 | 2017 | HCUP |
| Patient Safety | Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults | 11.7 | 7.8 | Worse | 50.00 | 2.87 | 2017 | MEPS |
| Patient Safety | Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults | 0.7 | 0.5 | Worse | 53.19 | 4.42 | 2017 | HCUP |

Table 43. Person-Centered Care Measures for Middle Income vs. High Income

For Person-Centered Care measures, middle-income populations did not experience better quality care compared with high-income populations for any measure; they experienced the same quality of care for 9 measures and worse quality for 2 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always asked them to describe how they will follow the instructions | 27.4 | 24.0 | Same | -4.47 | -2.39 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always offered help in filling out forms | 15.6 | 14.1 | Same | -1.75 | -1.17 | 2017 | MEPS |
| Person-Centered Care | People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments | 14.6 | 13.8 | Same | 5.80 | 0.81 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them | 10.6 | 10.0 | Same | 6.00 | 0.77 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say | 6.6 | 6.0 | Same | 8.80 | 0.79 | 2017 | MEPS |
| Person-Centered Care | Adults with limited English proficiency who had a usual source of care | 66.3 | 70.0 | Same | 12.33 | 0.68 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand | 7.0 | 6.1 | Same | 14.29 | 1.32 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them | 8.1 | 7.0 | Same | 14.94 | 1.45 | 2017 | MEPS |
| Person-Centered Care | Adults with limited English proficiency and usual source of care (USC) and the USC had language assistance | 90.4 | 91.9 | Same | 18.52 | 0.39 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions | 72.5 | 76.6 | Worse | 17.52 | 3.20 | 2017 | MEPS |
| Person-Centered Care | Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months | 14.0 | 9.4 | Worse | 48.94 | 5.35 | 2017 | MEPS |

Table 44. Care Coordination Measures for Middle Income vs. High Income

For Care Coordination measures, middle-income populations did not experience better quality care compared with high-income populations for any measure; they experienced the same quality of care for 4 measures and worse quality for 16 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | Emergency department visits with a principal diagnosis related to substance abuse only, per 100,000 population | 468.6 | 468.8 | Same | -0.04 | -0.00 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children | 535.5 | 508.0 | Same | 5.41 | 1.18 | 2016 | HCUP |
| Care Coordination | People with a usual source of care who usually asks about prescription medications and treatments from other doctors | 81.8 | 83.1 | Same | 7.69 | 1.07 | 2017 | MEPS |
| Care Coordination | Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years | 33.8 | 30.1 | Same | 12.29 | 1.11 | 2017 | HCUP |
| Care Coordination | Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over | 129.9 | 116.2 | Worse | 11.79 | 2.68 | 2017 | HCUP |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | Emergency department visits with a principal diagnosis related to mental health only per 100,000 population | 943.8 | 813.4 | Worse | 16.03 | 2.06 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over | 143.6 | 119.8 | Worse | 19.87 | 4.68 | 2017 | HCUP |
| Care Coordination | Hospitalizations and emergency department encounters for heart failure | 431.2 | 344.2 | Worse | 25.28 | 3.25 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for asthma per 100,000 population, children ages 2-17 | 63.0 | 50.2 | Worse | 25.50 | 2.23 | 2017 | HCUP |
| Care Coordination | Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years | 18.3 | 14.5 | Worse | 26.21 | 2.44 | 2017 | HCUP |
| Care Coordination | Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17 | 23.7 | 17.6 | Worse | 34.66 | 2.33 | 2017 | HCUP |
| Care Coordination | Hospital admissions for hypertension per 100,000 population, adults age 18 and over | 50.1 | 37.1 | Worse | 35.04 | 6.80 | 2017 | HCUP |
| Care Coordination | Hospital admissions for asthma per 100,000 population, adults ages 18-39 | 25.9 | 18.8 | Worse | 37.77 | 7.17 | 2017 | HCUP |
| Care Coordination | Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults | 36.3 | 26.2 | Worse | 38.55 | 7.51 | 2017 | HCUP |
| Care Coordination | Hospital admissions for long-term complications of diabetes per 100,000 population, adults | 91.6 | 66.0 | Worse | 38.79 | 8.42 | 2017 | HCUP |
| Care Coordination | Emergency department encounters for asthma, children ages 2-17 | 467.2 | 334.6 | Worse | 39.63 | 2.99 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over | 418.8 | 294.5 | Worse | 42.21 | 8.78 | 2017 | HCUP |
| Care Coordination | Emergency department encounters for asthma, adults | 307.8 | 207.6 | Worse | 48.27 | 5.55 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for short-term complications of diabetes per 100,000 population, adults | 49.7 | 32.9 | Worse | 51.06 | 11.30 | 2017 | HCUP |
| Care Coordination | Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes | 25.6 | 16.8 | Worse | 52.38 | 10.37 | 2017 | HCUP |

Table 45. Effectiveness of Care Measures for Middle Income vs. High Income

For Effectiveness of Care measures, middle-income populations experienced better quality care compared with high-income populations for 1 measure, the same quality of care for 17 measures, and worse quality for 8 measures, 2016-2018.

Disparities Measures

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with heart failure | 28.2 | 31.5 | Better | -10.48 | -4.23 | 2017 | HCUP |
| Effectiveness of Care | Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms | 75.0 | 73.1 | Same | -7.06 | -0.99 | 2018 | NHIS |
| Effectiveness of Care | People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months | 9.9 | 4.9 | Same | -5.26 | -2.94 | 2018 | NSDUH |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with pneumonia | 25.5 | 26.8 | Same | -4.85 | -1.41 | 2017 | HCUP |
| Effectiveness of Care | Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis | 93.4 | 93.1 | Same | -4.35 | -0.35 | 2016 | NCDB |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair | 37.2 | 38.6 | Same | -3.63 | -0.42 | 2017 | HCUP |
| Effectiveness of Care | People age 12 and over who needed treatment for illicit drug use and who received such treatment at a specialty facility in the last 12 months | 14.6 | 11.5 | Same | -3.50 | -1.15 | 2018 | NSDUH |
| Effectiveness of Care | Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over | 27.4 | 28.3 | Same | -3.18 | -0.85 | 2017 | HCUP |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes with blood pressure less than 130/80 mm Hg | 57.8 | 56.6 | Same | -2.76 | -0.20 | 2016 | NHANES |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI) | 49.5 | 50.9 | Same | -2.75 | -1.15 | 2017 | HCUP |
| Effectiveness of Care | Adults with hypertension with blood pressure less than 140/90 mm/Hg | 18.4 | 18.1 | Same | -0.37 | -0.12 | 2016 | NHANES |
| Effectiveness of Care | People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler) | 21.5 | 21.3 | Same | -0.25 | -0.07 | 2016 | MEPS |
| Effectiveness of Care | Persons with current asthma who received written asthma management plans from their healthcare provider | 34.8 | 35.2 | Same | 0.62 | 0.12 | 2018 | NHIS |
| Effectiveness of Care | Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months | 41.1 | 43.9 | Same | 4.99 | 0.90 | 2018 | NSDUH |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy) | 93.9 | 94.4 | Same | 8.93 | 0.93 | 2016 | NCDB |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year | 74.4 | 78.3 | Same | 17.97 | 0.98 | 2017 | MEPS |
| Effectiveness of Care | Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined | 93.7 | 95.5 | Same | 40.00 | 1.83 | 2016 | NCDB |
| Effectiveness of Care | Adults age 40 and over with diabetes whose condition was diagnosed | 77.6 | 87.0 | Same | 72.31 | 1.84 | 2016 | NHANES |
| Effectiveness of Care | Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over | 25.2 | 21.8 | Worse | 15.60 | 2.53 | 2017 | HCUP |
| Effectiveness of Care | Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months | 62.9 | 68.1 | Worse | 16.30 | 2.10 | 2018 | NSDUH |
| Effectiveness of Care | Emergency department visits involving opioid-related diagnoses per 100,000 population | 213.7 | 172.1 | Worse | 24.17 | 2.49 | 2017 | HCUP_NEDS |
| Effectiveness of Care | Hospital admissions for heart failure per 100,000 population | 379.7 | 304.1 | Worse | 24.86 | 6.04 | 2017 | HCUP |
| Effectiveness of Care | Hospital inpatient stays involving opioid-related diagnoses per 100,000 population | 260.8 | 206.2 | Worse | 26.48 | 6.16 | 2017 | HCUP |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year | 56.6 | 66.7 | Worse | 30.33 | 2.51 | 2017 | MEPS |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year | 59.3 | 69.7 | Worse | 34.32 | 2.58 | 2017 | MEPS |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year | 60.0 | 72.2 | Worse | 43.88 | 3.25 | 2017 | MEPS |

Table 46. Healthy Living Measures for Middle Income vs. High Income

For Healthy Living measures, middle-income populations experienced better quality care compared with high-income populations for 1 measure, the same quality of care for 24 measures, and worse quality for 20 measures, 2016-2018.

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child | 46.1 | 40.0 | Better | -10.17 | -2.21 | 2017 | MEPS |
| Healthy Living | Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of ten years | 90.6 | 89.3 | Same | -12.15 | -0.72 | 2017 | NIS_TEEN |
| Healthy Living | Adult current smokers who had a doctor's office or clinic visit in the last 12 months who received advice to quit smoking from their providers | 78.6 | 75.7 | Same | -11.93 | -0.77 | 2017 | MEPS |
| Healthy Living | Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car | 38.9 | 33.9 | Same | -7.56 | -1.36 | 2017 | MEPS |
| Healthy Living | Infants born in the calendar year who received breastfeeding through 3 months | 54.9 | 52.5 | Same | -5.05 | -0.96 | 2016 | NIS |
| Healthy Living | Adolescent males ages 16-17 who received 3 or more doses of human papillomavirus (HPV) vaccine | 6.5 | 5.4 | Same | -1.16 | -0.70 | 2017 | NIS_TEEN |
| Healthy Living | Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination | 22.0 | 21.4 | Same | -0.76 | -0.35 | 2018 | NHIS |
| Healthy Living | Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine | 85.8 | 85.7 | Same | -0.70 | -0.05 | 2017 | NIS_TEEN |
| Healthy Living | Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over | 275.7 | 273.9 | Same | 0.66 | 0.14 | 2017 | HCUP |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have | 50.9 | 51.3 | Same | 0.82 | 0.14 | 2017 | MEPS |
| Healthy Living | Adults with obesity age 20 and over who had been told by a doctor or health professional that they were overweight | 72.6 | 73.6 | Same | 3.79 | 0.37 | 2016 | NHANES |
| Healthy Living | Adults age 65 and over who ever received pneumococcal vaccination | 70.9 | 72.0 | Same | 3.93 | 0.68 | 2018 | NHIS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle | 39.0 | 42.1 | Same | 5.35 | 1.02 | 2017 | MEPS |
| Healthy Living | Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season | 52.8 | 55.5 | Same | 6.07 | 0.78 | 2018 | NHIS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Adolescent males ages 13-15 who received 3 or more doses of human papillomavirus (HPV) vaccine | 25.8 | 30.3 | Same | 6.46 | 1.77 | 2017 | NIS_TEEN |
| Healthy Living | Adults with obesity who ever received advice from a health professional to exercise more | 61.3 | 64.3 | Same | 8.40 | 1.57 | 2016 | MEPS |
| Healthy Living | Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car | 61.9 | 64.9 | Same | 8.55 | 0.67 | 2017 | MEPS |
| Healthy Living | Adolescents females ages 16-17 who received 3 or more doses human papillomavirus vaccine | 50.3 | 54.3 | Same | 8.75 | 1.01 | 2017 | NIS_TEEN |
| Healthy Living | Adolescents females ages 13-15 who received 3 or more doses human papillomavirus vaccine | 36.9 | 42.1 | Same | 8.98 | 1.49 | 2017 | NIS_TEEN |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy | 65.5 | 68.5 | Same | 9.52 | 1.18 | 2017 | MEPS |
| Healthy Living | Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car | 45.2 | 51.9 | Same | 13.93 | 1.46 | 2017 | MEPS |
| Healthy Living | Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine | 85.1 | 88.3 | Same | 27.35 | 1.67 | 2017 | NIS |
| Healthy Living | Children ages 3-5 who ever had their vision checked by a health provider | 70.4 | 77.1 | Same | 29.26 | 1.48 | 2017 | MEPS |
| Healthy Living | Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine | 92.3 | 94.1 | Same | 30.51 | 1.69 | 2017 | NIS |
| Healthy Living | Children ages 2-19 with obesity | 16.9 | 11.9 | Same | 42.02 | 1.86 | 2016 | NHANES |
| Healthy Living | Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods | 45.2 | 50.5 | Worse | 10.71 | 2.67 | 2016 | MEPS |
| Healthy Living | Adults ages 18 and over who received influenza vaccination in the last flu season | 44.4 | 52.0 | Worse | 15.83 | 5.93 | 2018 | NHIS |
| Healthy Living | Children ages 2-17 who received a preventive dental service in the calendar year | 48.5 | 58.2 | Worse | 23.21 | 3.43 | 2017 | MEPS |
| Healthy Living | Adults age 65 and over who received an influenza vaccination in the last flu season | 70.9 | 76.6 | Worse | 24.36 | 2.76 | 2018 | NHIS |
| Healthy Living | Adults who received a blood cholesterol measurement in the last 5 years | 87.8 | 90.7 | Worse | 31.18 | 3.71 | 2017 | NHIS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Children ages 6 months to 17 years who received influenza vaccination in the last flu season | 48.7 | 61.1 | Worse | 31.88 | 4.43 | 2018 | NHIS |
| Healthy Living | Adults with a dental visit in the calendar year | 29.6 | 46.8 | Worse | 32.33 | 13.51 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 who had a dental visit in the calendar year | 54.8 | 66.4 | Worse | 34.52 | 4.31 | 2017 | MEPS |
| Healthy Living | Adults who received a preventive dental service in the calendar year | 37.8 | 53.8 | Worse | 34.63 | 13.29 | 2017 | MEPS |
| Healthy Living | Children ages 19-35 months who received 1 or more doses of varicella vaccine | 91.4 | 93.8 | Worse | 38.71 | 1.97 | 2017 | NIS |
| Healthy Living | Women ages 50-74 who received a mammogram in the last 2 years | 71.3 | 79.9 | Worse | 42.79 | 5.00 | 2018 | NHIS |
| Healthy Living | Women ages 21-65 who received a Pap smear in the last 3 years | 79.7 | 85.9 | Worse | 43.97 | 4.56 | 2018 | NHIS |
| Healthy Living | Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of ten years | 86.7 | 90.9 | Worse | 46.15 | 2.96 | 2017 | NIS_TEEN |
| Healthy Living | Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine | 81.0 | 87.2 | Worse | 48.44 | 3.78 | 2017 | NIS_TEEN |
| Healthy Living | Children ages 0-17 with wellness checkup in the past 12 months | 85.7 | 90.4 | Worse | 48.96 | 3.90 | 2018 | NHIS |
| Healthy Living | Children ages 5-17 with untreated dental caries | 13.8 | 9.1 | Worse | 51.65 | 2.29 | 2016 | NHANES |
| Healthy Living | Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high | 92.2 | 95.0 | Worse | 56.00 | 4.95 | 2017 | NHIS |
| Healthy Living | Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine | 91.9 | 94.9 | Worse | 58.82 | 2.63 | 2017 | NIS |
| Healthy Living | Children ages 19-35 months who received 3 or more doses of polio vaccine | 93.6 | 96.2 | Worse | 68.42 | 2.82 | 2017 | NIS |
| Healthy Living | Children who had their height and weight measured by a health provider within the past 2 years | 94.1 | 96.9 | Worse | 90.32 | 2.97 | 2017 | MEPS |

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Table 47. Affordable Care Measures for Middle Income vs. High Income

For Affordable Care measures, middle-income populations did not experience better quality care or the same quality of care compared with high-income populations for any measure; they experienced worse quality for 5 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Affordable Care | People unable to get or delayed in getting needed dental care due to financial or insurance reasons | 75.9 | 56.0 | Worse | 35.54 | 4.58 | 2017 | MEPS |
| Affordable Care | People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons | 58.4 | 40.7 | Worse | 43.49 | 3.20 | 2017 | MEPS |
| Affordable Care | People unable to get or delayed in getting needed medical care due to financial or insurance reasons | 44.1 | 27.5 | Worse | 60.36 | 3.72 | 2017 | MEPS |
| Affordable Care | People without a usual source of care who indicated a financial or insurance reason for not having a source of care | 12.7 | 6.5 | Worse | 95.38 | 4.36 | 2017 | MEPS |
| Affordable Care | People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income | 20.8 | 8.5 | Worse | 144.08 | 10.42 | 2017 | MEPS |

Publicly Insured vs. Privately Insured

Table 48. Patient Safety Measures for Publicly Insured vs. Privately Insured

For Patient Safety measures, people with public insurance did not experience better quality care compared with people with private insurance for any measure; they experienced the same quality of care for 7 measures and worse quality for 7 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults | 0.1 | 0.2 | Same | -12.50 | -1.41 | 2017 | HCUP |
| Patient Safety | Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults | 0.0 | 0.0 | Same | 0.00 | 0.00 | 2017 | HCUP |
| Patient Safety | Birth trauma - injury to neonate per 1,000 selected live births | 4.9 | 4.8 | Same | 0.62 | 0.13 | 2017 | HCUP |
| Patient Safety | Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children | 0.3 | 0.3 | Same | 3.33 | 0.24 | 2017 | HCUP |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults | 1.0 | 0.9 | Same | 8.60 | 1.37 | 2017 | HCUP |
| Patient Safety | Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions | 130.0 | 118.3 | Same | 9.89 | 4.01 | 2017 | HCUP |
| Patient Safety | Deaths per 1,000 hospital admissions with expected low-mortality | 0.1 | 0.1 | Same | 22.22 | 1.41 | 2017 | HCUP |
| Patient Safety | Postoperative acute kidney injury requiring dialysis per 1,000 elective surgical hospital discharges, adults | 2.6 | 2.1 | Worse | 23.56 | 5.19 | 2017 | HCUP |
| Patient Safety | Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults | 0.7 | 0.5 | Worse | 28.30 | 2.24 | 2017 | HCUP |
| Patient Safety | Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults | 3.8 | 2.8 | Worse | 34.52 | 8.32 | 2017 | HCUP |
| Patient Safety | Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults | 0.8 | 0.4 | Worse | 78.57 | 4.92 | 2017 | HCUP |
| Patient Safety | Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults | 5.2 | 2.9 | Worse | 81.40 | 11.78 | 2017 | HCUP |
| Patient Safety | Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions | 0.1 | 0.1 | Worse | 85.71 | 2.68 | 2017 | HCUP |
| Patient Safety | Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults | 4.6 | 2.4 | Worse | 88.52 | 11.50 | 2017 | HCUP |

Table 49. Person-Centered Care Measures for Publicly Insured vs. Privately Insured

For Person-Centered Care measures, people with public insurance experienced better quality care compared with people with private insurance for 2 measures, the same quality of care for 2 measures, and worse quality for 7 measures, 2016-2018.

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Person-Centered Care | Adults with limited English proficiency who had a usual source of care | 76.1 | 68.0 | Better | -25.31 | -2.15 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always asked them to describe how they will follow the instructions | 34.0 | 26.1 | Better | -10.69 | -4.65 | 2017 | MEPS |
| Person-Centered Care | Adults with limited English proficiency and usual source of care (USC) and the USC had language assistance | 95.7 | 90.5 | Same | -54.74 | -1.88 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always offered help in filling out forms | 20.5 | 15.1 | Same | -6.36 | -3.26 | 2017 | MEPS |
| Person-Centered Care | People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments | 18.8 | 13.5 | Worse | 39.26 | 5.15 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them | 16.1 | 11.0 | Worse | 46.36 | 4.95 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions | 64.5 | 76.0 | Worse | 47.92 | 6.58 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them | 13.1 | 7.7 | Worse | 69.08 | 5.58 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand | 11.9 | 6.4 | Worse | 85.96 | 6.12 | 2017 | MEPS |
| Person-Centered Care | Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months | 22.3 | 11.9 | Worse | 87.39 | 8.61 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say | 12.2 | 6.4 | Worse | 90.36 | 5.88 | 2017 | MEPS |

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Table 50. Care Coordination Measures for Publicly Insured vs. Privately Insured

For Care Coordination measures, people with public insurance did not experience better quality care compared with people with private insurance for any measure; they experienced the same quality of care for 1 measure and worse quality for 1 measure, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children | 552.2 | 532.2 | Same | 3.76 | 1.08 | 2016 | HCUP |
| Care Coordination | People with a usual source of care who usually asks about prescription medications and treatments from other doctors | 77.8 | 83.8 | Worse | 37.04 | 4.79 | 2017 | MEPS |

Table 51. Effectiveness of Care Measures for Publicly Insured vs. Privately Insured

For Effectiveness of Care measures, people with public insurance experienced better quality care compared with people with private insurance for 3 measures, the same quality of care for 8 measures, and worse quality for 5 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with heart failure | 13.4 | 25.5 | Better | -47.45 | -12.29 | 2017 | HCUP |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with pneumonia | 13.1 | 19.7 | Better | -33.50 | -7.67 | 2017 | HCUP |
| Effectiveness of Care | Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms | 78.7 | 72.3 | Better | -23.10 | -3.08 | 2018 | NHIS |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year | 72.8 | 66.0 | Same | -20.00 | -1.96 | 2017 | MEPS |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year | 78.0 | 74.9 | Same | -12.35 | -0.81 | 2017 | MEPS |
| Effectiveness of Care | People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler) | 21.7 | 19.7 | Same | -2.49 | -0.91 | 2016 | MEPS |
| Effectiveness of Care | Persons with current asthma who received written asthma management plans from their healthcare provider | 36.9 | 36.9 | Same | 0.00 | 0.00 | 2018 | NHIS |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year | 57.6 | 59.5 | Same | 4.69 | 0.53 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined | 92.8 | 93.6 | Same | 12.50 | 1.11 | 2016 | NCDB |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair | 35.6 | 31.5 | Same | 13.02 | 0.71 | 2017 | HCUP |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year | 55.7 | 62.5 | Same | 18.13 | 1.88 | 2017 | MEPS |
| Effectiveness of Care | Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy) | 95.4 | 96.2 | Worse | 21.05 | 2.53 | 2016 | NCDB |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI) | 34.8 | 27.6 | Worse | 26.09 | 6.66 | 2017 | HCUP |
| Effectiveness of Care | Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over | 22.4 | 17.1 | Worse | 30.99 | 5.15 | 2017 | HCUP |
| Effectiveness of Care | Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over | 21.4 | 16.3 | Worse | 31.29 | 3.26 | 2017 | HCUP |
| Effectiveness of Care | Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis | 89.0 | 93.7 | Worse | 74.60 | 8.73 | 2016 | NCDB |

Table 52. Healthy Living Measures for Publicly Insured vs. Privately Insured

For Healthy Living measures, people with public insurance experienced better quality care compared with people with private insurance for 3 measures, the same quality of care for 11 measures, and worse quality for 12 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child | 57.3 | 42.9 | Better | -25.22 | -7.27 | 2017 | MEPS |
| Healthy Living | Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination | 33.4 | 21.5 | Better | -15.16 | -6.80 | 2018 | NHIS |
| Healthy Living | Adults with obesity who ever received advice from a health professional to exercise more | 67.5 | 62.1 | Better | -14.25 | -2.78 | 2016 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods | 49.1 | 46.4 | Same | -5.04 | -1.33 | 2016 | MEPS |
| Healthy Living | Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car | 38.1 | 36.5 | Same | -2.52 | -0.58 | 2017 | MEPS |
| Healthy Living | Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car | 64.6 | 64.6 | Same | 0.00 | 0.00 | 2017 | MEPS |
| Healthy Living | Adult current smokers who had a doctor's office or clinic visit in the last 12 months who received advice to quit smoking from their providers | 75.5 | 75.8 | Same | 1.24 | 0.09 | 2017 | MEPS |
| Healthy Living | Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high | 94.2 | 94.3 | Same | 1.75 | 0.17 | 2017 | NHIS |
| Healthy Living | Adults ages 18 and over who received influenza vaccination in the last flu season | 40.3 | 43.1 | Same | 4.92 | 1.74 | 2018 | NHIS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle | 37.4 | 42.2 | Same | 8.30 | 2.34 | 2017 | MEPS |
| Healthy Living | Children ages 6 months to 17 years who received influenza vaccination in the last flu season | 51.8 | 55.9 | Same | 9.30 | 1.69 | 2018 | NHIS |
| Healthy Living | Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season | 50.0 | 54.4 | Same | 9.65 | 1.46 | 2018 | NHIS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy | 64.0 | 67.3 | Same | 10.09 | 1.79 | 2017 | MEPS |
| Healthy Living | Children ages 3-5 who ever had their vision checked by a health provider | 66.9 | 72.2 | Same | 19.06 | 1.56 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have | 45.6 | 51.8 | Worse | 12.86 | 3.02 | 2017 | MEPS |
| Healthy Living | Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car | 41.7 | 49.8 | Worse | 16.14 | 2.72 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Children ages 0-17 with wellness checkup in the past 12 months | 86.6 | 88.7 | Worse | 18.58 | 2.28 | 2018 | NHIS |
| Healthy Living | Adults who received a blood cholesterol measurement in the last 5 years | 86.4 | 88.6 | Worse | 19.30 | 2.46 | 2017 | NHIS |
| Healthy Living | Infants born in the calendar year who received breastfeeding through 3 months | 40.6 | 54.2 | Worse | 29.69 | 6.18 | 2016 | NIS |
| Healthy Living | Children ages 2-17 who received a preventive dental service in the calendar year | 38.2 | 53.3 | Worse | 32.33 | 7.61 | 2017 | MEPS |
| Healthy Living | Women ages 21-65 who received a Pap smear in the last 3 years | 79.0 | 84.2 | Worse | 32.91 | 3.63 | 2018 | NHIS |
| Healthy Living | Adults with a dental visit in the calendar year | 15.5 | 39.0 | Worse | 38.52 | 20.77 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 who had a dental visit in the calendar year | 45.5 | 60.7 | Worse | 38.68 | 7.68 | 2017 | MEPS |
| Healthy Living | Adults who received a preventive dental service in the calendar year | 24.5 | 46.4 | Worse | 40.86 | 17.94 | 2017 | MEPS |
| Healthy Living | Women ages 50-74 who received a mammogram in the last 2 years | 67.2 | 76.8 | Worse | 41.38 | 3.83 | 2018 | NHIS |
| Healthy Living | Children who had their height and weight measured by a health provider within the past 2 years | 93.1 | 95.6 | Worse | 56.82 | 3.20 | 2017 | MEPS |

Table 53. Affordable Care Measures for Publicly Insured vs. Privately Insured

For Affordable Care measures, people with public insurance experienced better quality care compared with people with private insurance for 1 measure, the same quality of care for 1 measure, and worse quality for 3 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Affordable Care | People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income | 12.2 | 16.9 | Better | -27.74 | -4.60 | 2017 | MEPS |
| Affordable Care | People unable to get or delayed in getting needed dental care due to financial or insurance reasons | 71.3 | 65.2 | Same | 9.36 | 1.51 | 2017 | MEPS |
| Affordable Care | People unable to get or delayed in getting needed medical care due to financial or insurance reasons | 47.8 | 37.5 | Worse | 27.47 | 2.41 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Affordable Care | People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons | 68.4 | 46.9 | Worse | 45.84 | 4.47 | 2017 | MEPS |
| Affordable Care | People without a usual source of care who indicated a financial or insurance reason for not having a source of care | 13.4 | 6.0 | Worse | 123.33 | 4.98 | 2017 | MEPS |

Table 54. Patient Safety Measures for Uninsured vs. Privately Insured

For Patient Safety measures, uninsured adults experienced better quality care compared with people with private insurance for 2 measures, the same quality of care for 8 measures, and worse quality for 4 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults | 0.1 | 0.2 | Better | -37.50 | -4.24 | 2017 | HCUP |
| Patient Safety | Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults | 0.7 | 0.9 | Better | -21.51 | -2.63 | 2017 | HCUP |
| Patient Safety | Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults | 0.0 | 0.0 | Same | -25.00 | -0.45 | 2017 | HCUP |
| Patient Safety | Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children | 0.2 | 0.3 | Same | -20.00 | -0.89 | 2017 | HCUP |
| Patient Safety | Postoperative acute kidney injury requiring dialysis per 1,000 elective surgical hospital discharges, adults | 2.0 | 2.1 | Same | -5.77 | -0.99 | 2017 | HCUP |
| Patient Safety | Birth trauma - injury to neonate per 1,000 selected live births | 4.9 | 4.8 | Same | 2.07 | 0.32 | 2017 | HCUP |
| Patient Safety | Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults | 0.6 | 0.5 | Same | 3.77 | 0.18 | 2017 | HCUP |
| Patient Safety | Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults | 2.9 | 2.8 | Same | 3.91 | 0.77 | 2017 | HCUP |
| Patient Safety | Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults | 0.4 | 0.4 | Same | 4.76 | 0.23 | 2017 | HCUP |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions | 0.1 | 0.1 | Same | 57.14 | 1.79 | 2017 | HCUP |
| Patient Safety | Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults | 3.7 | 2.9 | Worse | 30.53 | 2.56 | 2017 | HCUP |
| Patient Safety | Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions | 161.4 | 118.3 | Worse | 36.43 | 8.73 | 2017 | HCUP |
| Patient Safety | Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults | 3.8 | 2.4 | Worse | 55.74 | 3.89 | 2017 | HCUP |
| Patient Safety | Deaths per 1,000 hospital admissions with expected low-mortality | 0.2 | 0.1 | Worse | 100.00 | 2.85 | 2017 | HCUP |

Uninsured vs. Privately Insured

Table 55. Person-Centered Care Measures for Uninsured vs. Privately Insured

For Person-Centered Care measures, uninsured adults did not experience better quality care compared with people with private insurance for any measure; they experienced the same quality of care for 3 measures and worse quality for 8 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Person-Centered Care | Adults with limited English proficiency and usual source of care (USC) and the USC had language assistance | 96.3 | 90.5 | Same | -61.05 | -1.95 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always asked them to describe how they will follow the instructions | 25.3 | 26.1 | Same | 1.08 | 0.25 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always offered help in filling out forms | 13.9 | 15.1 | Same | 1.41 | 0.46 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions | 61.0 | 76.0 | Worse | 62.50 | 4.20 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Person-Centered Care | People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments | 22.7 | 13.5 | Worse | 68.15 | 3.47 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them | 20.0 | 11.0 | Worse | 81.82 | 3.67 | 2017 | MEPS |
| Person-Centered Care | Adults with limited English proficiency who had a usual source of care | 39.2 | 68.0 | Worse | 90.00 | 7.52 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them | 15.1 | 7.7 | Worse | 94.83 | 3.55 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say | 13.3 | 6.4 | Worse | 107.31 | 3.03 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand | 13.5 | 6.4 | Worse | 110.30 | 3.71 | 2017 | MEPS |
| Person-Centered Care | Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months | 26.2 | 11.9 | Worse | 120.17 | 6.08 | 2017 | MEPS |

Table 56. Care Coordination Measures for Uninsured vs. Privately Insured

For Care Coordination measures, uninsured adults did not experience better quality care compared with people with private insurance for any measure; they experienced the same quality of care for 1 measure and worse quality for 1 measure, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | People with a usual source of care who usually asks about prescription medications and treatments from other doctors | 79.5 | 83.8 | Same | 26.54 | 1.61 | 2017 | MEPS |
| Care Coordination | Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children | 587.1 | 532.2 | Worse | 10.32 | 2.02 | 2016 | HCUP |

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Table 57. Effectiveness of Care Measures for Uninsured vs. Privately Insured

For Effectiveness of Care measures, uninsured adults experienced better quality care compared with people with private insurance for 2 measures, the same quality of care for 5 measures, and worse quality for 8 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with heart failure | 13.5 | 25.5 | Better | -47.06 | -8.44 | 2017 | HCUP |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with pneumonia | 12.3 | 19.7 | Better | -37.56 | -5.01 | 2017 | HCUP |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year | 78.4 | 74.6 | Same | -14.96 | -0.76 | 2016 | MEPS |
| Effectiveness of Care | Persons with current asthma who received written asthma management plans from their healthcare provider | 29.8 | 36.9 | Same | 11.25 | 1.40 | 2018 | NHIS |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year | 61.6 | 65.5 | Same | 11.30 | 0.64 | 2016 | MEPS |
| Effectiveness of Care | Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined | 92.5 | 93.6 | Same | 17.19 | 1.23 | 2016 | NCDB |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year | 49.7 | 59.7 | Same | 24.81 | 1.73 | 2016 | MEPS |
| Effectiveness of Care | Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis | 92.2 | 93.7 | Worse | 23.81 | 2.79 | 2016 | NCDB |
| Effectiveness of Care | Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over | 22.3 | 16.3 | Worse | 36.81 | 2.50 | 2017 | HCUP |
| Effectiveness of Care | Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy) | 94.8 | 96.2 | Worse | 36.84 | 3.40 | 2016 | NCDB |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI) | 38.3 | 27.6 | Worse | 38.77 | 7.47 | 2017 | HCUP |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year | 45.1 | 63.9 | Worse | 52.08 | 3.38 | 2016 | MEPS |
| Effectiveness of Care | Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms | 56.9 | 72.3 | Worse | 55.60 | 4.91 | 2018 | NHIS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over | 27.8 | 17.1 | Worse | 62.57 | 7.68 | 2017 | HCUP |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair | 102.8 | 31.5 | Worse | 226.35 | 4.51 | 2017 | HCUP |

Table 58. Healthy Living Measures for Uninsured vs. Privately Insured

For Healthy Living measures, uninsured adults did not experience better quality care compared with people with private insurance for any measure; they experienced the same quality of care for 4 measures and worse quality for 19 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Infants born in the calendar year who received exclusive breastfeeding through 3 months | 56.5 | 54.2 | Same | -5.02 | -0.58 | 2016 | NIS |
| Healthy Living | Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car | 30.2 | 36.5 | Same | 9.92 | 0.98 | 2017 | MEPS |
| Healthy Living | Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child | 35.8 | 42.9 | Same | 12.43 | 1.25 | 2017 | MEPS |
| Healthy Living | Adult current smokers who had a doctor's office or clinic visit in the last 12 months who received advice to quit smoking from their providers | 63.8 | 75.8 | Same | 49.59 | 1.91 | 2017 | MEPS |
| Healthy Living | Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination | 11.4 | 21.5 | Worse | 12.87 | 6.39 | 2018 | NHIS |
| Healthy Living | Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods | 35.5 | 46.4 | Worse | 20.34 | 5.17 | 2016 | MEPS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle | 24.5 | 42.2 | Worse | 30.62 | 3.00 | 2017 | MEPS |
| Healthy Living | Children ages 6 months to 17 years who received influenza vaccination in the last flu season | 41.2 | 55.9 | Worse | 33.33 | 3.60 | 2018 | NHIS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have | 34.7 | 51.8 | Worse | 35.48 | 2.90 | 2017 | MEPS |
| Healthy Living | Adults with obesity who ever received advice from a health professional to exercise more | 45.3 | 62.1 | Worse | 44.33 | 6.83 | 2016 | MEPS |
| Healthy Living | Adults ages 18 and over who received influenza vaccination in the last flu season | 15.9 | 43.1 | Worse | 47.80 | 18.86 | 2018 | NHIS |
| Healthy Living | Adults with a dental visit in the calendar year | 9.2 | 39.0 | Worse | 48.85 | 21.91 | 2017 | MEPS |
| Healthy Living | Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season | 29.1 | 54.4 | Worse | 55.48 | 5.95 | 2018 | NHIS |
| Healthy Living | Adults who received a preventive dental service in the calendar year | 15.7 | 46.4 | Worse | 57.28 | 20.79 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 who received a preventive dental service in the calendar year | 22.9 | 53.3 | Worse | 65.10 | 6.05 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy | 43.2 | 67.3 | Worse | 73.70 | 3.99 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 who had a dental visit in the calendar year | 26.4 | 60.7 | Worse | 87.28 | 6.26 | 2017 | MEPS |
| Healthy Living | Women ages 21-65 who received a Pap smear in the last 3 years | 61.3 | 84.2 | Worse | 144.94 | 10.49 | 2018 | NHIS |
| Healthy Living | Adults who received a blood cholesterol measurement in the last 5 years | 71.2 | 88.6 | Worse | 152.63 | 11.95 | 2017 | NHIS |
| Healthy Living | Women ages 50-74 who received a mammogram in the last 2 years | 39.2 | 76.8 | Worse | 162.07 | 10.61 | 2018 | NHIS |
| Healthy Living | Children ages 0-17 with wellness checkup in the past 12 months | 61.1 | 88.7 | Worse | 244.25 | 8.48 | 2018 | NHIS |
| Healthy Living | Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high | 78.4 | 94.3 | Worse | 278.95 | 13.95 | 2017 | NHIS |
| Healthy Living | Children who had their height and weight measured by a health provider within the past 2 years | 79.7 | 95.6 | Worse | 361.36 | 3.44 | 2017 | MEPS |

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Table 59. Affordable Care Measures for Uninsured vs. Privately Insured

For Affordable Care measures, uninsured adults experienced better quality care compared with people with private insurance for 1 measure and worse quality for 3 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Affordable Care | People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income | 12.6 | 16.9 | Better | -25.37 | -2.64 | 2017 | MEPS |
| Affordable Care | People unable to get or delayed in getting needed dental care due to financial or insurance reasons | 93.8 | 65.2 | Worse | 43.87 | 8.66 | 2017 | MEPS |
| Affordable Care | People unable to get or delayed in getting needed medical care due to financial or insurance reasons | 88.4 | 37.5 | Worse | 135.73 | 12.35 | 2017 | MEPS |
| Affordable Care | People without a usual source of care who indicated a financial or insurance reason for not having a source of care | 36.8 | 6.0 | Worse | 513.33 | 15.68 | 2017 | MEPS |

Large Central Metro vs. Large Fringe Metro

Table 60. Patient Safety Measures for Large Central Metro vs. Large Fringe Metro

For Patient Safety measures, residents of large central metropolitan areas did not experience better quality care compared with residents of large fringe metropolitan areas for any measure; they experienced the same quality of care for 14 measures and worse quality for 2 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults | 0.1 | 0.1 | Same | -25.00 | -0.71 | 2017 | HCUP |
| Patient Safety | Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults | 6.8 | 8.9 | Same | -23.60 | -1.56 | 2017 | MEPS |
| Patient Safety | Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children | 0.3 | 0.3 | Same | -19.35 | -1.20 | 2017 | HCUP |
| Patient Safety | Birth trauma - injury to neonate per 1,000 selected live births | 4.4 | 5.0 | Same | -12.40 | -1.94 | 2017 | HCUP |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults | 0.2 | 0.2 | Same | -5.26 | -0.71 | 2017 | HCUP |
| Patient Safety | Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults | 1.0 | 1.0 | Same | -0.96 | -0.18 | 2017 | HCUP |
| Patient Safety | Postoperative acute kidney injury requiring dialysis per 1,000 elective surgical hospital discharges, adults | 2.3 | 2.2 | Same | 4.59 | 1.18 | 2017 | HCUP |
| Patient Safety | Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions | 149.9 | 141.8 | Same | 5.71 | 2.60 | 2017 | HCUP |
| Patient Safety | Deaths per 1,000 hospital admissions with expected low-mortality | 0.2 | 0.2 | Same | 5.88 | 0.71 | 2017 | HCUP |
| Patient Safety | Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults | 3.8 | 3.4 | Same | 9.33 | 2.83 | 2017 | HCUP |
| Patient Safety | Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions | 0.1 | 0.1 | Same | 10.00 | 0.71 | 2017 | HCUP |
| Patient Safety | Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults | 0.9 | 0.8 | Same | 10.13 | 1.25 | 2017 | HCUP |
| Patient Safety | Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults | 0.6 | 0.5 | Same | 13.21 | 1.24 | 2017 | HCUP |
| Patient Safety | Adults age 65 and over who received in the calendar year at least 1 of 11 prescription medications that should be avoided in older adults | 1.5 | 1.3 | Same | 15.38 | 0.35 | 2016 | MEPS |
| Patient Safety | Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults | 4.7 | 4.1 | Worse | 16.54 | 3.04 | 2017 | HCUP |
| Patient Safety | Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults | 4.1 | 3.5 | Worse | 18.00 | 3.54 | 2017 | HCUP |

Table 61. Person-Centered Care Measures for Large Central Metro vs. Large Fringe Metro

For Person-Centered Care measures, residents of large central metropolitan areas experienced better quality care compared with residents of large fringe metropolitan areas for 1 measure, the same quality of care for 7 measures, and worse quality for 3 measures, 2016-2018.

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Person-Centered Care | Adults with limited English proficiency who had a usual source of care | 66.8 | 57.3 | Better | -22.25 | -2.10 | 2017 | MEPS |
| Person-Centered Care | Adults with limited English proficiency and usual source of care (USC) and the USC had language assistance | 94.9 | 86.4 | Same | -62.50 | -1.88 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always offered help in filling out forms | 15.7 | 14.6 | Same | -1.29 | -0.74 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always asked them to describe how they will follow the instructions | 26.9 | 27.5 | Same | 0.83 | 0.39 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions | 72.5 | 75.1 | Same | 10.44 | 1.66 | 2017 | MEPS |
| Person-Centered Care | Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months | 12.6 | 11.2 | Same | 12.50 | 1.52 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand | 7.5 | 6.5 | Same | 15.67 | 1.40 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them | 11.9 | 10.2 | Same | 16.67 | 1.72 | 2017 | MEPS |
| Person-Centered Care | People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments | 17.5 | 14.4 | Worse | 21.53 | 2.92 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say | 6.7 | 5.3 | Worse | 25.19 | 2.10 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them | 8.9 | 6.4 | Worse | 40.03 | 3.25 | 2017 | MEPS |

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Table 62. Care Coordination Measures for Large Central Metro vs. Large Fringe Metro

For Care Coordination measures, residents of large central metropolitan areas experienced better quality care compared with residents of large fringe metropolitan areas for 2 measures, the same quality of care for 9 measures, and worse quality for 10 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over | 130.7 | 166.6 | Better | -21.55 | -4.63 | 2017 | HCUP |
| Care Coordination | Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over | 138.7 | 159.6 | Better | -13.10 | -2.59 | 2017 | HCUP |
| Care Coordination | Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over | 477.7 | 518.4 | Same | -7.85 | -1.50 | 2017 | HCUP |
| Care Coordination | Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years | 20.2 | 19.9 | Same | 1.51 | 0.12 | 2017 | HCUP |
| Care Coordination | Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children | 552.8 | 522.3 | Same | 5.84 | 1.06 | 2016 | HCUP |
| Care Coordination | Hospital admissions for short-term complications of diabetes per 100,000 population, adults | 61.7 | 56.9 | Same | 8.44 | 1.51 | 2017 | HCUP |
| Care Coordination | People with a usual source of care who usually asks about prescription medications and treatments from other doctors | 80.3 | 82.0 | Same | 9.44 | 1.34 | 2017 | MEPS |
| Care Coordination | Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17 | 26.3 | 23.5 | Same | 11.91 | 0.67 | 2017 | HCUP |
| Care Coordination | Hospital admissions for asthma per 100,000 population, adults ages 18-39 | 39.1 | 34.5 | Same | 13.33 | 1.85 | 2017 | HCUP |
| Care Coordination | Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years | 42.3 | 36.8 | Same | 14.95 | 1.06 | 2017 | HCUP |
| Care Coordination | Emergency department visits with a principal diagnosis related to dental conditions | 242.0 | 207.1 | Same | 16.85 | 1.43 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for long-term complications of diabetes per 100,000 population, adults | 123.8 | 109.5 | Worse | 13.06 | 2.20 | 2017 | HCUP |
| Care Coordination | Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults | 52.5 | 45.2 | Worse | 16.15 | 2.50 | 2017 | HCUP |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes | 32.9 | 27.8 | Worse | 18.35 | 2.74 | 2017 | HCUP |
| Care Coordination | Hospital admissions for hypertension per 100,000 population, adults age 18 and over | 75.2 | 61.8 | Worse | 21.68 | 3.30 | 2017 | HCUP |
| Care Coordination | Emergency department visits with a principal diagnosis related to mental health only per 100,000 population | 1136.9 | 879.1 | Worse | 29.33 | 2.30 | 2017 | HCUP_NEDS |
| Care Coordination | Hospitalizations and emergency department encounters for heart failure | 533.6 | 402.5 | Worse | 32.57 | 2.78 | 2017 | HCUP_NEDS |
| Care Coordination | Emergency department visits with a principal diagnosis related to substance abuse only, per 100,000 population | 684.9 | 469.8 | Worse | 45.79 | 2.89 | 2017 | HCUP_NEDS |
| Care Coordination | Emergency department encounters for asthma, adults | 471.5 | 307.2 | Worse | 53.48 | 3.53 | 2017 | HCUP_NEDS |
| Care Coordination | Emergency department encounters for asthma, children ages 2-17 | 829.9 | 475.6 | Worse | 74.50 | 3.03 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for asthma per 100,000 population, children ages 2-17 | 124.3 | 70.4 | Worse | 76.56 | 3.78 | 2017 | HCUP |

Table 63. Effectiveness of Care Measures for Large Central Metro vs. Large Fringe Metro

For Effectiveness of Care measures, residents of large central metropolitan areas experienced better quality care compared with residents of large fringe metropolitan areas for 4 measures, the same quality of care for 18 measures, and worse quality for 3 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year | 71.5 | 62.8 | Better | -23.39 | -1.97 | 2017 | MEPS |
| Effectiveness of Care | Suicide deaths among persons age 12 and over per 100,000 population | 13.3 | 15.1 | Better | -11.92 | -12.73 | 2017 | NVSS_M |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with heart failure | 23.8 | 27.0 | Better | -11.85 | -3.77 | 2017 | HCUP |
| Effectiveness of Care | Lung cancer deaths per 100,000 population per year | 31.3 | 35.1 | Better | -10.83 | -13.44 | 2017 | NVSS_M |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year | 65.0 | 62.6 | Same | -6.42 | -0.54 | 2017 | MEPS |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year | 62.9 | 60.6 | Same | -5.84 | -0.51 | 2017 | MEPS |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with pneumonia | 23.5 | 24.5 | Same | -4.08 | -1.18 | 2017 | HCUP |
| Effectiveness of Care | Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms | 73.8 | 72.9 | Same | -3.32 | -0.41 | 2018 | NHIS |
| Effectiveness of Care | Hospital admissions for heart failure per 100,000 population | 442.2 | 453.6 | Same | -2.51 | -0.49 | 2017 | HCUP |
| Effectiveness of Care | Persons with current asthma who received written asthma management plans from their healthcare provider | 39.2 | 38.0 | Same | -1.94 | -0.35 | 2018 | NHIS |
| Effectiveness of Care | People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months | 7.6 | 8.0 | Same | 0.43 | 0.20 | 2018 | NSDUH |
| Effectiveness of Care | Breast cancer deaths per 100,000 female population per year | 19.9 | 19.8 | Same | 0.51 | 0.35 | 2017 | NVSS_M |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair | 41.0 | 40.4 | Same | 1.49 | 0.18 | 2017 | HCUP |
| Effectiveness of Care | People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler) | 20.5 | 21.9 | Same | 1.79 | 0.51 | 2016 | MEPS |
| Effectiveness of Care | People age 12 and over who needed treatment for illicit drug use and who received such treatment at a specialty facility in the last 12 months | 13.5 | 16.6 | Same | 3.72 | 1.11 | 2018 | NSDUH |
| Effectiveness of Care | Colorectal cancer deaths per 100,000 population per year | 13.5 | 12.9 | Same | 4.65 | 4.24 | 2017 | NVSS_M |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI) | 52.2 | 48.2 | Same | 8.30 | 3.14 | 2017 | HCUP |
| Effectiveness of Care | Hospital inpatient stays involving opioid-related diagnoses per 100,000 population | 314.6 | 288.4 | Same | 9.08 | 1.60 | 2017 | HCUP |
| Effectiveness of Care | Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months | 38.1 | 43.6 | Same | 9.75 | 1.41 | 2018 | NSDUH |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months | 61.1 | 64.8 | Same | 10.51 | 1.27 | 2018 | NSDUH |
| Effectiveness of Care | Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over | 26.9 | 24.0 | Same | 12.08 | 1.86 | 2017 | HCUP |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year | 72.9 | 78.9 | Same | 28.44 | 1.54 | 2017 | MEPS |
| Effectiveness of Care | Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over | 30.4 | 26.3 | Worse | 15.59 | 3.60 | 2017 | HCUP |
| Effectiveness of Care | Emergency department visits involving opioid-related diagnoses per 100,000 population | 268.6 | 210.3 | Worse | 27.72 | 2.02 | 2017 | HCUP_NEDS |
| Effectiveness of Care | HIV infection deaths per 100,000 population | 2.5 | 1.1 | Worse | 127.27 | 49.50 | 2017 | NVSS_M |

Table 64. Person-Centered Care Measures for Large Central Metro vs. Large Fringe Metro

For Person-Centered Care measures, residents of large central metropolitan areas experienced better quality care compared with residents of large fringe metropolitan areas for 1 measure, the same quality of care for 17 measures, and worse quality for 6 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Adults who received a blood cholesterol measurement in the last 5 years | 90.6 | 89.0 | Better | -14.55 | -2.05 | 2017 | NHIS |
| Healthy Living | Adult current smokers who had a doctor's office or clinic visit in the last 12 months who received advice to quit smoking from their providers | 78.7 | 75.5 | Same | -13.06 | -0.83 | 2017 | MEPS |
| Healthy Living | Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods | 50.5 | 49.0 | Same | -2.94 | -0.71 | 2016 | MEPS |
| Healthy Living | Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over | 298.6 | 306.1 | Same | -2.45 | -0.41 | 2017 | HCUP |
| Healthy Living | Children ages 3-5 who ever had their vision checked by a health provider | 70.1 | 70.6 | Same | 1.70 | 0.11 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car | 50.4 | 51.6 | Same | 2.48 | 0.28 | 2017 | MEPS |
| Healthy Living | Adults with obesity who ever received advice from a health professional to exercise more | 63.4 | 64.5 | Same | 3.10 | 0.54 | 2016 | MEPS |
| Healthy Living | Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child | 46.9 | 48.5 | Same | 3.11 | 0.61 | 2017 | MEPS |
| Healthy Living | Women ages 50-74 who received a mammogram in the last 2 years | 73.3 | 74.7 | Same | 5.53 | 0.71 | 2018 | NHIS |
| Healthy Living | Infant mortality per 1,000 live births, birth weight 2,500 grams or more | 1.8 | 1.7 | Same | 5.88 | 3.54 | 2017 | NVSS_L |
| Healthy Living | Women ages 21-65 who received a Pap smear in the last 3 years | 81.2 | 82.4 | Same | 6.82 | 0.81 | 2018 | NHIS |
| Healthy Living | Live-born infants with low birth weight (less than 2,500 g) | 8.5 | 7.9 | Same | 7.59 | 21.21 | 2018 | NVSS_N |
| Healthy Living | Adults with a dental visit in the calendar year | 31.9 | 37.6 | Same | 9.13 | 3.83 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have | 49.3 | 53.7 | Same | 9.50 | 1.55 | 2017 | MEPS |
| Healthy Living | Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car | 35.0 | 40.8 | Same | 9.80 | 1.55 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy | 66.6 | 70.3 | Same | 12.46 | 1.49 | 2017 | MEPS |
| Healthy Living | Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car | 63.6 | 69.6 | Same | 19.74 | 1.60 | 2017 | MEPS |
| Healthy Living | Children who had their height and weight measured by a health provider within the past 2 years | 93.8 | 95.6 | Same | 40.91 | 1.82 | 2017 | MEPS |
| Healthy Living | Adults who received a preventive dental service in the calendar year | 39.2 | 45.1 | Worse | 10.75 | 4.15 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 who received a preventive dental service in the calendar year | 43.3 | 50.0 | Worse | 13.40 | 2.29 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Children ages 2-17 who had a dental visit in the calendar year | 50.4 | 57.4 | Worse | 16.43 | 2.52 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle | 37.6 | 48.2 | Worse | 20.46 | 3.53 | 2017 | MEPS |
| Healthy Living | Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high | 92.2 | 93.6 | Worse | 21.87 | 2.19 | 2017 | NHIS |
| Healthy Living | Children ages 0-17 with wellness checkup in the past 12 months | 86.7 | 89.8 | Worse | 30.39 | 2.57 | 2018 | NHIS |

Table 65. Affordable Care Measures for Large Central Metro vs. Large Fringe Metro

For Affordable Care measures, residents of large central metropolitan areas experienced better quality care compared with residents of large fringe metropolitan areas for 1 measure and the same quality of care for 4 measures. No measure showed residents of large central metropolitan areas experiencing worse quality compared with residents of large fringe metropolitan areas, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Affordable Care | People unable to get or delayed in getting needed dental care due to financial or insurance reasons | 67.0 | 76.9 | Better | -12.87 | -2.22 | 2017 | MEPS |
| Affordable Care | People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income | 14.3 | 15.9 | Same | -9.72 | -1.18 | 2017 | MEPS |
| Affordable Care | People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons | 53.6 | 55.6 | Same | -3.60 | -0.34 | 2017 | MEPS |
| Affordable Care | People unable to get or delayed in getting needed medical care due to financial or insurance reasons | 42.6 | 42.0 | Same | 1.43 | 0.12 | 2017 | MEPS |
| Affordable Care | People without a usual source of care who indicated a financial or insurance reason for not having a source of care | 14.0 | 13.6 | Same | 2.94 | 0.22 | 2017 | MEPS |

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Medium Metro vs. Large Fringe Metro

Table 66. Patient Safety Measures for Medium Metro vs. Large Fringe Metro

For Patient Safety measures, residents of medium metropolitan areas did not experience better quality care compared with residents of large fringe metropolitan areas for any measure; they experienced the same quality of care for 13 measures and worse quality for 2 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults | 3.2 | 3.4 | Same | -7.87 | -2.24 | 2017 | HCUP |
| Patient Safety | Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults | 1.0 | 1.0 | Same | -2.88 | -0.47 | 2017 | HCUP |
| Patient Safety | Birth trauma - injury to neonate per 1,000 selected live births | 5.0 | 5.0 | Same | -1.00 | -0.12 | 2017 | HCUP |
| Patient Safety | Postoperative acute kidney injury requiring dialysis per 1,000 elective surgical hospital discharges, adults | 2.3 | 2.2 | Same | 4.13 | 0.98 | 2017 | HCUP |
| Patient Safety | Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults | 3.7 | 3.5 | Same | 4.29 | 0.88 | 2017 | HCUP |
| Patient Safety | Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults | 0.2 | 0.2 | Same | 5.26 | 0.71 | 2017 | HCUP |
| Patient Safety | Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults | 4.3 | 4.1 | Same | 5.93 | 1.13 | 2017 | HCUP |
| Patient Safety | Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions | 152.6 | 141.8 | Same | 7.62 | 3.25 | 2017 | HCUP |
| Patient Safety | Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions | 0.1 | 0.1 | Same | 10.00 | 0.71 | 2017 | HCUP |
| Patient Safety | Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults | 0.9 | 0.8 | Same | 11.39 | 1.41 | 2017 | HCUP |
| Patient Safety | Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults | 0.1 | 0.1 | Same | 12.50 | 0.45 | 2017 | HCUP |
| Patient Safety | Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children | 0.4 | 0.3 | Same | 12.90 | 0.62 | 2017 | HCUP |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults | 10.9 | 8.9 | Same | 22.47 | 1.35 | 2017 | MEPS |
| Patient Safety | Deaths per 1,000 hospital admissions with expected low-mortality | 0.2 | 0.2 | Worse | 41.18 | 3.13 | 2017 | HCUP |
| Patient Safety | Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults | 0.8 | 0.5 | Worse | 45.28 | 3.75 | 2017 | HCUP |

Table 67. Person-Centered Care Measures for Medium Metro vs. Large Fringe Metro

For Person-Centered Care measures, residents of medium metropolitan areas experienced better quality care compared with residents of large fringe metropolitan areas for 1 measure, the same quality of care for 9 measures, and worse quality for 1 measure, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Person-Centered Care | Adults with limited English proficiency who had a usual source of care | 73.1 | 57.3 | Better | -37.00 | -3.15 | 2017 | MEPS |
| Person-Centered Care | People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments | 13.7 | 14.4 | Same | -4.86 | -0.55 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always offered help in filling out forms | 16.2 | 14.6 | Same | -1.87 | -1.03 | 2017 | MEPS |
| Person-Centered Care | Adults with limited English proficiency and usual source of care (USC) and the USC had language assistance | 86.5 | 86.4 | Same | -0.74 | -0.02 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them | 10.2 | 10.2 | Same | 0.00 | 0.00 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always asked them to describe how they will follow the instructions | 27.5 | 27.5 | Same | 0.00 | 0.00 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions | 73.5 | 75.1 | Same | 6.43 | 0.94 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand | 7.4 | 6.5 | Same | 13.82 | 1.06 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them | 7.7 | 6.4 | Same | 20.09 | 1.62 | 2017 | MEPS |
| Person-Centered Care | Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months | 13.5 | 11.2 | Same | 20.54 | 1.88 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say | 7.0 | 5.3 | Worse | 31.02 | 2.21 | 2017 | MEPS |

Table 68. Care Coordination Measures for Medium Metro vs. Large Fringe Metro

For Care Coordination measures, residents of medium metropolitan areas experienced better quality care compared with residents of large fringe metropolitan areas for 2 measures, the same quality of care for 14 measures, and worse quality for 4 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | Hospital admissions for asthma per 100,000 population, adults ages 18-39 | 28.0 | 34.5 | Better | -18.84 | -2.87 | 2017 | HCUP |
| Care Coordination | Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over | 134.1 | 159.6 | Better | -15.98 | -2.91 | 2017 | HCUP |
| Care Coordination | Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over | 149.3 | 166.6 | Same | -10.38 | -1.89 | 2017 | HCUP |
| Care Coordination | Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults | 40.8 | 45.2 | Same | -9.73 | -1.59 | 2017 | HCUP |
| Care Coordination | Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years | 33.7 | 36.8 | Same | -8.42 | -0.70 | 2017 | HCUP |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over | 483.9 | 518.4 | Same | -6.66 | -1.12 | 2017 | HCUP |
| Care Coordination | Hospital admissions for long-term complications of diabetes per 100,000 population, adults | 103.4 | 109.5 | Same | -5.57 | -0.94 | 2017 | HCUP |
| Care Coordination | Hospital admissions for asthma per 100,000 population, children ages 2-17 | 67.1 | 70.4 | Same | -4.69 | -0.36 | 2017 | HCUP |
| Care Coordination | Hospital admissions for hypertension per 100,000 population, adults age 18 and over | 59.0 | 61.8 | Same | -4.53 | -0.70 | 2017 | HCUP |
| Care Coordination | Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children | 536.7 | 522.3 | Same | 2.76 | 0.61 | 2016 | HCUP |
| Care Coordination | People with a usual source of care who usually asks about prescription medications and treatments from other doctors | 80.8 | 82.0 | Same | 6.67 | 0.84 | 2017 | MEPS |
| Care Coordination | Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years | 21.5 | 19.9 | Same | 8.04 | 0.69 | 2017 | HCUP |
| Care Coordination | Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes | 31.4 | 27.8 | Same | 12.95 | 1.78 | 2017 | HCUP |
| Care Coordination | Emergency department visits with a principal diagnosis related to substance abuse only, per 100,000 population | 542.1 | 469.8 | Same | 15.39 | 1.28 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17 | 27.2 | 23.5 | Same | 15.74 | 0.93 | 2017 | HCUP |
| Care Coordination | Emergency department encounters for asthma, children ages 2-17 | 639.5 | 475.6 | Same | 34.46 | 1.40 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for short-term complications of diabetes per 100,000 population, adults | 65.5 | 56.9 | Worse | 15.11 | 2.20 | 2017 | HCUP |
| Care Coordination | Emergency department encounters for asthma, adults | 380.5 | 307.2 | Worse | 23.86 | 1.97 | 2017 | HCUP_NEDS |
| Care Coordination | Hospitalizations and emergency department encounters for heart failure | 520.0 | 402.5 | Worse | 29.19 | 2.36 | 2017 | HCUP_NEDS |
| Care Coordination | Emergency department visits with a principal diagnosis related to mental health only per 100,000 population | 1138.0 | 879.1 | Worse | 29.45 | 2.38 | 2017 | HCUP_NEDS |

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Table 69. Effectiveness of Care Measures for Medium Metro vs. Large Fringe Metro

For Effectiveness of Care measures, residents of medium metropolitan areas experienced better quality care compared with residents of large fringe metropolitan areas for 1 measure, the same quality of care for 19 measures, and worse quality for 5 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year | 73.9 | 62.8 | Better | -29.84 | -2.48 | 2017 | MEPS |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year | 66.8 | 60.6 | Same | -15.74 | -1.32 | 2017 | MEPS |
| Effectiveness of Care | Hospital admissions for heart failure per 100,000 population | 405.3 | 453.6 | Same | -10.65 | -1.90 | 2017 | HCUP |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair | 36.2 | 40.4 | Same | -10.40 | -1.29 | 2017 | HCUP |
| Effectiveness of Care | Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months | 67.3 | 64.8 | Same | -7.10 | -0.82 | 2018 | NSDUH |
| Effectiveness of Care | Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms | 74.5 | 72.9 | Same | -5.90 | -0.71 | 2018 | NHIS |
| Effectiveness of Care | People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months | 11.9 | 8.0 | Same | -4.24 | -1.76 | 2018 | NSDUH |
| Effectiveness of Care | People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler) | 24.3 | 21.9 | Same | -3.07 | -0.70 | 2016 | MEPS |
| Effectiveness of Care | People age 12 and over who needed treatment for illicit drug use and who received such treatment at a specialty facility in the last 12 months | 16.6 | 16.6 | Same | 0.00 | 0.00 | 2018 | NSDUH |
| Effectiveness of Care | Breast cancer deaths per 100,000 female population per year | 20.0 | 19.8 | Same | 1.01 | 0.71 | 2017 | NVSS_M |
| Effectiveness of Care | Hospital inpatient stays involving opioid-related diagnoses per 100,000 population | 294.5 | 288.4 | Same | 2.12 | 0.35 | 2017 | HCUP |
| Effectiveness of Care | Colorectal cancer deaths per 100,000 population per year | 13.3 | 12.9 | Same | 3.10 | 2.83 | 2017 | NVSS_M |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with heart failure | 28.3 | 27.0 | Same | 4.81 | 1.53 | 2017 | HCUP |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year | 60.7 | 62.6 | Same | 5.08 | 0.44 | 2017 | MEPS |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI) | 50.7 | 48.2 | Same | 5.19 | 1.96 | 2017 | HCUP |
| Effectiveness of Care | Lung cancer deaths per 100,000 population per year | 37.0 | 35.1 | Same | 5.41 | 6.72 | 2017 | NVSS_M |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with pneumonia | 25.9 | 24.5 | Same | 5.71 | 1.52 | 2017 | HCUP |
| Effectiveness of Care | Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months | 38.8 | 43.6 | Same | 8.51 | 1.35 | 2018 | NSDUH |
| Effectiveness of Care | Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over | 27.0 | 24.0 | Same | 12.50 | 1.84 | 2017 | HCUP |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year | 71.4 | 78.9 | Same | 35.55 | 1.62 | 2017 | MEPS |
| Effectiveness of Care | Persons with current asthma who received written asthma management plans from their healthcare provider | 30.6 | 38.0 | Worse | 11.94 | 2.01 | 2018 | NHIS |
| Effectiveness of Care | Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over | 31.0 | 26.3 | Worse | 17.87 | 4.42 | 2017 | HCUP |
| Effectiveness of Care | Suicide deaths among persons age 12 and over per 100,000 population | 18.8 | 15.1 | Worse | 24.50 | 16.55 | 2017 | NVSS_M |
| Effectiveness of Care | Emergency department visits involving opioid-related diagnoses per 100,000 population | 274.1 | 210.3 | Worse | 30.34 | 1.97 | 2017 | HCUP_NEDS |
| Effectiveness of Care | HIV infection deaths per 100,000 population | 1.5 | 1.1 | Worse | 36.36 | 14.14 | 2017 | NVSS_M |

Table 70. Healthy Living Measures for Medium Metro vs. Large Fringe Metro

For Healthy Living measures, residents of medium metropolitan areas experienced better quality care compared with residents of large fringe metropolitan areas for 1 measure, the same quality of care for 19 measures, and worse quality for 4 measures, 2016-2018.

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over | 253.4 | 306.1 | Better | -17.22 | -2.83 | 2017 | HCUP |
| Healthy Living | Adult current smokers who had a doctor's office or clinic visit in the last 12 months who received advice to quit smoking from their providers | 78.6 | 75.5 | Same | -12.65 | -0.79 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 who received a preventive dental service in the calendar year | 50.5 | 50.0 | Same | -1.00 | -0.15 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 who had a dental visit in the calendar year | 57.3 | 57.4 | Same | 0.23 | 0.03 | 2017 | MEPS |
| Healthy Living | Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high | 93.5 | 93.6 | Same | 1.56 | 0.16 | 2017 | NHIS |
| Healthy Living | Adults who received a preventive dental service in the calendar year | 43.8 | 45.1 | Same | 2.37 | 0.70 | 2017 | MEPS |
| Healthy Living | Adults with obesity who ever received advice from a health professional to exercise more | 63.5 | 64.5 | Same | 2.82 | 0.40 | 2016 | MEPS |
| Healthy Living | Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child | 47.0 | 48.5 | Same | 2.91 | 0.47 | 2017 | MEPS |
| Healthy Living | Adults with a dental visit in the calendar year | 35.4 | 37.6 | Same | 3.53 | 1.13 | 2017 | MEPS |
| Healthy Living | Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods | 45.9 | 49.0 | Same | 6.08 | 1.37 | 2016 | MEPS |
| Healthy Living | Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car | 37.1 | 40.8 | Same | 6.25 | 0.95 | 2017 | MEPS |
| Healthy Living | Live-born infants with low birth weight (less than 2,500 g) | 8.4 | 7.9 | Same | 6.33 | 17.68 | 2018 | NVSS_N |
| Healthy Living | Women ages 50-74 who received a mammogram in the last 2 years | 72.7 | 74.7 | Same | 7.91 | 0.94 | 2018 | NHIS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have | 50.0 | 53.7 | Same | 7.99 | 1.22 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Women ages 21-65 who received a Pap smear in the last 3 years | 80.5 | 82.4 | Same | 10.80 | 1.17 | 2018 | NHIS |
| Healthy Living | Adults who received a blood cholesterol measurement in the last 5 years | 87.8 | 89.0 | Same | 10.91 | 1.41 | 2017 | NHIS |
| Healthy Living | Children ages 3-5 who ever had their vision checked by a health provider | 67.3 | 70.6 | Same | 11.22 | 0.62 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy | 65.3 | 70.3 | Same | 16.84 | 1.72 | 2017 | MEPS |
| Healthy Living | Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car | 64.2 | 69.6 | Same | 17.76 | 1.17 | 2017 | MEPS |
| Healthy Living | Children who had their height and weight measured by a health provider within the past 2 years | 94.1 | 95.6 | Same | 34.09 | 1.41 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle | 39.5 | 48.2 | Worse | 16.80 | 2.73 | 2017 | MEPS |
| Healthy Living | Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car | 41.2 | 51.6 | Worse | 21.49 | 2.10 | 2017 | MEPS |
| Healthy Living | Infant mortality per 1,000 live births, birth weight 2,500 grams or more | 2.2 | 1.7 | Worse | 29.41 | 4.90 | 2017 | NVSS_L |
| Healthy Living | Children ages 0-17 with wellness checkup in the past 12 months | 84.9 | 89.8 | Worse | 48.04 | 2.80 | 2018 | NHIS |

Table 71. Affordable Care Measures for Medium Metro vs. Large Fringe Metro

For Affordable Care measures, residents of medium metropolitan areas experienced better quality care compared with residents of large fringe metropolitan areas for 1 measure and the same quality of care for 4 measures. No measure showed residents of large central metropolitan areas experiencing worse quality compared with residents of large fringe metropolitan areas, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Affordable Care | People unable to get or delayed in getting needed dental care due to financial or insurance reasons | 67.0 | 76.9 | Better | -12.87 | -1.98 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Affordable Care | People without a usual source of care who indicated a financial or insurance reason for not having a source of care | 10.4 | 13.6 | Same | -23.53 | -1.67 | 2017 | MEPS |
| Affordable Care | People unable to get or delayed in getting needed medical care due to financial or insurance reasons | 40.3 | 42.0 | Same | -4.05 | -0.30 | 2017 | MEPS |
| Affordable Care | People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons | 59.6 | 55.6 | Same | 7.19 | 0.64 | 2017 | MEPS |
| Affordable Care | People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income | 17.4 | 15.9 | Same | 9.97 | 1.12 | 2017 | MEPS |

Small Metro vs. Large Fringe Metro

Table 72. Patient Safety Measures for Small Metro vs. Large Fringe Metro

For Patient Safety measures, residents of small metropolitan areas did not experience better quality care compared with residents of large fringe metropolitan areas for any measure; they experienced the same quality of care for 14 measures and worse quality for 1 measure, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions | 0.1 | 0.1 | Same | -20.00 | -1.41 | 2017 | HCUP |
| Patient Safety | Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults | 3.1 | 3.4 | Same | -8.75 | -2.21 | 2017 | HCUP |
| Patient Safety | Birth trauma - injury to neonate per 1,000 selected live births | 5.0 | 5.0 | Same | 0.40 | 0.05 | 2017 | HCUP |
| Patient Safety | Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults | 1.1 | 1.0 | Same | 0.96 | 0.14 | 2017 | HCUP |
| Patient Safety | Postoperative acute kidney injury requiring dialysis per 1,000 elective surgical hospital discharges, adults | 2.2 | 2.2 | Same | 2.29 | 0.50 | 2017 | HCUP |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions | 153.8 | 141.8 | Same | 8.46 | 3.11 | 2017 | HCUP |
| Patient Safety | Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults | 3.8 | 3.5 | Same | 8.86 | 1.60 | 2017 | HCUP |
| Patient Safety | Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults | 0.2 | 0.2 | Same | 10.53 | 1.41 | 2017 | HCUP |
| Patient Safety | Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults | 0.1 | 0.1 | Same | 12.50 | 0.45 | 2017 | HCUP |
| Patient Safety | Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults | 0.9 | 0.8 | Same | 18.99 | 1.68 | 2017 | HCUP |
| Patient Safety | Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults | 11.4 | 8.9 | Same | 28.09 | 1.27 | 2017 | MEPS |
| Patient Safety | Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children | 0.4 | 0.3 | Same | 29.03 | 1.25 | 2017 | HCUP |
| Patient Safety | Deaths per 1,000 hospital admissions with expected low-mortality | 0.2 | 0.2 | Same | 29.41 | 1.58 | 2017 | HCUP |
| Patient Safety | Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults | 0.7 | 0.5 | Same | 32.08 | 1.90 | 2017 | HCUP |
| Patient Safety | Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults | 4.7 | 4.1 | Worse | 15.80 | 2.71 | 2017 | HCUP |

Table 73. Person-Centered Care Measures for Small Metro vs. Large Fringe Metro

For Person-Centered Care measures, residents of small metropolitan areas did not experience better quality care compared with residents of large fringe metropolitan areas for any measure; they experienced same quality of care for 7 measures and worse quality for 3 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Person-Centered Care | Adults with limited English proficiency who had a usual source of care | 68.6 | 57.3 | Same | -26.46 | -1.41 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Person-Centered Care | People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments | 14.3 | 14.4 | Same | -0.69 | -0.07 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always offered help in filling out forms | 14.8 | 14.6 | Same | -0.23 | -0.11 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always asked them to describe how they will follow the instructions | 26.1 | 27.5 | Same | 1.93 | 0.72 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them | 11.4 | 10.2 | Same | 11.76 | 0.98 | 2017 | MEPS |
| Person-Centered Care | Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months | 13.2 | 11.2 | Same | 17.86 | 1.53 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand | 8.0 | 6.5 | Same | 22.27 | 1.32 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions | 69.1 | 75.1 | Worse | 24.10 | 2.77 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them | 10.4 | 6.4 | Worse | 62.79 | 3.33 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say | 9.1 | 5.3 | Worse | 71.24 | 3.93 | 2017 | MEPS |

Table 74. Care Coordination Measures for Small Metro vs. Large Fringe Metro

For Care Coordination measures, residents of small metropolitan areas experienced better quality care compared with residents of large fringe metropolitan areas for 3 measures, the same quality of care for 13 measures, and worse quality for 4 measures, 2016-2018.

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | Hospital admissions for asthma per 100,000 population, adults ages 18-39 | 25.5 | 34.5 | Better | -26.09 | -3.62 | 2017 | HCUP |
| Care Coordination | Hospital admissions for asthma per 100,000 population, children ages 2-17 | 52.8 | 70.4 | Better | -25.00 | -2.11 | 2017 | HCUP |
| Care Coordination | Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over | 136.2 | 159.6 | Better | -14.66 | -2.30 | 2017 | HCUP |
| Care Coordination | Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years | 29.3 | 36.8 | Same | -20.38 | -1.87 | 2017 | HCUP |
| Care Coordination | Hospital admissions for long-term complications of diabetes per 100,000 population, adults | 97.7 | 109.5 | Same | -10.78 | -1.67 | 2017 | HCUP |
| Care Coordination | Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults | 40.4 | 45.2 | Same | -10.62 | -1.48 | 2017 | HCUP |
| Care Coordination | Hospital admissions for hypertension per 100,000 population, adults age 18 and over | 56.0 | 61.8 | Same | -9.39 | -1.28 | 2017 | HCUP |
| Care Coordination | Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17 | 23.1 | 23.5 | Same | -1.70 | -0.10 | 2017 | HCUP |
| Care Coordination | People with a usual source of care who usually asks about prescription medications and treatments from other doctors | 82.2 | 82.0 | Same | -1.11 | -0.11 | 2017 | MEPS |
| Care Coordination | Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over | 167.5 | 166.6 | Same | 0.54 | 0.08 | 2017 | HCUP |
| Care Coordination | Emergency department encounters for asthma, children ages 2-17 | 485.8 | 475.6 | Same | 2.14 | 0.13 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over | 536.3 | 518.4 | Same | 3.45 | 0.47 | 2017 | HCUP |
| Care Coordination | Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years | 20.8 | 19.9 | Same | 4.52 | 0.39 | 2017 | HCUP |
| Care Coordination | Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes | 29.8 | 27.8 | Same | 7.19 | 0.88 | 2017 | HCUP |
| Care Coordination | Emergency department visits with a principal diagnosis related to substance abuse only, per 100,000 population | 544.6 | 469.8 | Same | 15.92 | 1.04 | 2017 | HCUP_NEDS |
| Care Coordination | Emergency department encounters for asthma, adults | 377.5 | 307.2 | Same | 22.88 | 1.59 | 2017 | HCUP_NEDS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children | 579.2 | 522.3 | Worse | 10.89 | 2.29 | 2016 | HCUP |
| Care Coordination | Hospital admissions for short-term complications of diabetes per 100,000 population, adults | 66.3 | 56.9 | Worse | 16.52 | 1.96 | 2017 | HCUP |
| Care Coordination | Hospitalizations and emergency department encounters for heart failure | 528.2 | 402.5 | Worse | 31.23 | 2.06 | 2017 | HCUP_NEDS |
| Care Coordination | Emergency department visits with a principal diagnosis related to mental health only per 100,000 population | 1170.0 | 879.1 | Worse | 33.09 | 2.09 | 2017 | HCUP_NEDS |

Table 75. Effectiveness of Care Measures for Small Metro vs. Large Fringe Metro

For Effectiveness of Care measures, residents of small metropolitan areas did not experience better quality care compared with residents of large fringe metropolitan areas for any measure; they experienced the same quality of care for 20 measures and worse quality for 5 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms | 76.9 | 72.9 | Same | -14.76 | -1.29 | 2018 | NHIS |
| Effectiveness of Care | People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler) | 31.0 | 21.9 | Same | -11.65 | -1.85 | 2016 | MEPS |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year | 81.3 | 78.9 | Same | -11.37 | -0.62 | 2017 | MEPS |
| Effectiveness of Care | Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months | 68.3 | 64.8 | Same | -9.94 | -1.01 | 2018 | NSDUH |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year | 64.2 | 60.6 | Same | -9.14 | -0.66 | 2017 | MEPS |
| Effectiveness of Care | HIV infection deaths per 100,000 population | 1.0 | 1.1 | Same | -9.09 | -0.98 | 2017 | NVSS_M |
| Effectiveness of Care | Hospital admissions for heart failure per 100,000 population | 422.2 | 453.6 | Same | -6.92 | -1.02 | 2017 | HCUP |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair | 38.1 | 40.4 | Same | -5.69 | -0.58 | 2017 | HCUP |
| Effectiveness of Care | Hospital inpatient stays involving opioid-related diagnoses per 100,000 population | 281.0 | 288.4 | Same | -2.57 | -0.47 | 2017 | HCUP |
| Effectiveness of Care | People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months | 7.9 | 8.0 | Same | 0.11 | 0.05 | 2018 | NSDUH |
| Effectiveness of Care | Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months | 43.4 | 43.6 | Same | 0.35 | 0.04 | 2018 | NSDUH |
| Effectiveness of Care | People age 12 and over who needed treatment for illicit drug use and who received such treatment at a specialty facility in the last 12 months | 16.3 | 16.6 | Same | 0.36 | 0.09 | 2018 | NSDUH |
| Effectiveness of Care | Breast cancer deaths per 100,000 female population per year | 20.0 | 19.8 | Same | 1.01 | 0.55 | 2017 | NVSS_M |
| Effectiveness of Care | Persons with current asthma who received written asthma management plans from their healthcare provider | 35.6 | 38.0 | Same | 3.87 | 0.55 | 2018 | NHIS |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI) | 50.1 | 48.2 | Same | 3.94 | 1.20 | 2017 | HCUP |
| Effectiveness of Care | Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over | 25.4 | 24.0 | Same | 5.83 | 0.75 | 2017 | HCUP |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with heart failure | 28.6 | 27.0 | Same | 5.93 | 1.48 | 2017 | HCUP |
| Effectiveness of Care | Emergency department visits involving opioid-related diagnoses per 100,000 population | 224.9 | 210.3 | Same | 6.94 | 0.66 | 2017 | HCUP_NEDS |
| Effectiveness of Care | Colorectal cancer deaths per 100,000 population per year | 14.1 | 12.9 | Same | 9.30 | 5.37 | 2017 | NVSS_M |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year | 55.0 | 62.8 | Same | 20.97 | 1.47 | 2017 | MEPS |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with pneumonia | 27.4 | 24.5 | Worse | 11.84 | 2.31 | 2017 | HCUP |
| Effectiveness of Care | Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over | 30.1 | 26.3 | Worse | 14.45 | 2.74 | 2017 | HCUP |
| Effectiveness of Care | Lung cancer deaths per 100,000 population per year | 40.8 | 35.1 | Worse | 16.24 | 15.81 | 2017 | NVSS_M |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year | 49.9 | 62.6 | Worse | 33.96 | 2.04 | 2017 | MEPS |
| Effectiveness of Care | Suicide deaths among persons age 12 and over per 100,000 population | 21.3 | 15.1 | Worse | 41.06 | 19.61 | 2017 | NVSS_M |

Table 76. Healthy Living Measures for Small Metro vs. Large Fringe Metro

For Healthy Living measures, residents of small metropolitan areas experienced better quality care compared with residents of large fringe metropolitan areas for 1 measure, the same quality of care for 19 measures, and worse quality for 4 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over | 252.2 | 306.1 | Better | -17.61 | -2.54 | 2017 | HCUP |
| Healthy Living | Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child | 50.5 | 48.5 | Same | -3.88 | -0.57 | 2017 | MEPS |
| Healthy Living | Women ages 50-74 who received a mammogram in the last 2 years | 75.0 | 74.7 | Same | -1.19 | -0.11 | 2018 | NHIS |
| Healthy Living | Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car | 41.5 | 40.8 | Same | -1.18 | -0.15 | 2017 | MEPS |
| Healthy Living | Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods | 47.4 | 49.0 | Same | 3.14 | 0.46 | 2016 | MEPS |
| Healthy Living | Live-born infants with low birth weight (less than 2,500 g) | 8.2 | 7.9 | Same | 3.80 | 10.61 | 2018 | NVSS_N |
| Healthy Living | Children ages 3-5 who ever had their vision checked by a health provider | 69.4 | 70.6 | Same | 4.08 | 0.21 | 2017 | MEPS |
| Healthy Living | Adult current smokers who had a doctor's office or clinic visit in the last 12 months who received advice to quit smoking from their providers | 74.4 | 75.5 | Same | 4.49 | 0.23 | 2017 | MEPS |
| Healthy Living | Adults with a dental visit in the calendar year | 34.7 | 37.6 | Same | 4.65 | 1.27 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Adults who received a preventive dental service in the calendar year | 42.3 | 45.1 | Same | 5.10 | 1.28 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have | 51.3 | 53.7 | Same | 5.18 | 0.60 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 who had a dental visit in the calendar year | 54.9 | 57.4 | Same | 5.87 | 0.70 | 2017 | MEPS |
| Healthy Living | Adults with obesity who ever received advice from a health professional to exercise more | 61.7 | 64.5 | Same | 7.89 | 0.95 | 2016 | MEPS |
| Healthy Living | Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car | 47.5 | 51.6 | Same | 8.47 | 0.70 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 who received a preventive dental service in the calendar year | 45.5 | 50.0 | Same | 9.00 | 1.12 | 2017 | MEPS |
| Healthy Living | Women ages 21-65 who received a Pap smear in the last 3 years | 79.9 | 82.4 | Same | 14.20 | 1.19 | 2018 | NHIS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle | 40.3 | 48.2 | Same | 15.25 | 1.90 | 2017 | MEPS |
| Healthy Living | Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high | 92.6 | 93.6 | Same | 15.62 | 1.16 | 2017 | NHIS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy | 65.2 | 70.3 | Same | 17.17 | 1.34 | 2017 | MEPS |
| Healthy Living | Children who had their height and weight measured by a health provider within the past 2 years | 93.8 | 95.6 | Same | 40.91 | 1.22 | 2017 | MEPS |
| Healthy Living | Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car | 57.3 | 69.6 | Worse | 40.46 | 2.24 | 2017 | MEPS |
| Healthy Living | Infant mortality per 1,000 live births, birth weight 2,500 grams or more | 2.4 | 1.7 | Worse | 41.18 | 6.86 | 2017 | NVSS_L |
| Healthy Living | Children ages 0-17 with wellness checkup in the past 12 months | 85.2 | 89.8 | Worse | 45.10 | 2.76 | 2018 | NHIS |
| Healthy Living | Adults who received a blood cholesterol measurement in the last 5 years | 83.9 | 89.0 | Worse | 46.36 | 3.80 | 2017 | NHIS |

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Table 77. Affordable Care Measures for Small Metro vs. Large Fringe Metro

For Affordable Care measures, residents of small metropolitan areas experienced better quality care compared with residents of large fringe metropolitan areas for 1 measure and the same quality of care for 4 measures. No measure showed residents of small metropolitan areas experiencing worse quality compared with residents of large fringe metropolitan areas, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Affordable Care | People without a usual source of care who indicated a financial or insurance reason for not having a source of care | 8.9 | 13.6 | Better | -34.56 | -2.29 | 2017 | MEPS |
| Affordable Care | People unable to get or delayed in getting needed medical care due to financial or insurance reasons | 35.6 | 42.0 | Same | -15.24 | -1.01 | 2017 | MEPS |
| Affordable Care | People unable to get or delayed in getting needed dental care due to financial or insurance reasons | 73.2 | 76.9 | Same | -4.81 | -0.71 | 2017 | MEPS |
| Affordable Care | People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons | 60.1 | 55.6 | Same | 8.09 | 0.59 | 2017 | MEPS |
| Affordable Care | People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income | 17.6 | 15.9 | Same | 10.79 | 0.96 | 2017 | MEPS |

Micropolitan vs. Large Fringe Metro

Table 78. Patient Safety Measures for Micropolitan vs. Large Fringe Metro

For Patient Safety measures, residents of micropolitan areas experienced better quality care compared with residents of large fringe metropolitan areas for 1 measure, the same quality of care for 11 measures, and worse quality for 3 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults | 3.0 | 3.4 | Better | -13.70 | -3.67 | 2017 | HCUP |
| Patient Safety | Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions | 0.1 | 0.1 | Same | -10.00 | -0.71 | 2017 | HCUP |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Postoperative acute kidney injury requiring dialysis per 1,000 elective surgical hospital discharges, adults | 2.2 | 2.2 | Same | 2.75 | 0.60 | 2017 | HCUP |
| Patient Safety | Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions | 150.5 | 141.8 | Same | 6.14 | 2.16 | 2017 | HCUP |
| Patient Safety | Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults | 3.8 | 3.5 | Same | 7.14 | 1.29 | 2017 | HCUP |
| Patient Safety | Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults | 0.9 | 0.8 | Same | 8.86 | 0.87 | 2017 | HCUP |
| Patient Safety | Birth trauma - injury to neonate per 1,000 selected live births | 5.5 | 5.0 | Same | 9.00 | 1.13 | 2017 | HCUP |
| Patient Safety | Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults | 0.2 | 0.2 | Same | 10.53 | 1.41 | 2017 | HCUP |
| Patient Safety | Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults | 0.1 | 0.1 | Same | 12.50 | 0.45 | 2017 | HCUP |
| Patient Safety | Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children | 0.4 | 0.3 | Same | 29.03 | 1.25 | 2017 | HCUP |
| Patient Safety | Deaths per 1,000 hospital admissions with expected low-mortality | 0.2 | 0.2 | Same | 35.29 | 1.90 | 2017 | HCUP |
| Patient Safety | Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults | 13.0 | 8.9 | Same | 46.07 | 1.47 | 2017 | MEPS |
| Patient Safety | Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults | 1.2 | 1.0 | Worse | 15.38 | 1.98 | 2017 | HCUP |
| Patient Safety | Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults | 5.0 | 4.1 | Worse | 23.46 | 3.53 | 2017 | HCUP |
| Patient Safety | Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults | 0.8 | 0.5 | Worse | 52.83 | 3.13 | 2017 | HCUP |

Table 79. Person-Centered Care Measures for Micropolitan vs. Large Fringe Metro

For Person-Centered Care measures, residents of micropolitan areas did not experience better quality care compared with residents of large fringe metropolitan areas for any measure; they experienced the same quality of care for 6 measures and worse quality for 4 measures, 2016-2018.

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Person-Centered Care | Adults with limited English proficiency who had a usual source of care | 67.6 | 57.3 | Same | -24.12 | -1.31 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always offered help in filling out forms | 16.4 | 14.6 | Same | -2.11 | -0.73 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always asked them to describe how they will follow the instructions | 24.3 | 27.5 | Same | 4.41 | 1.40 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions | 73.7 | 75.1 | Same | 5.62 | 0.60 | 2017 | MEPS |
| Person-Centered Care | People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments | 15.3 | 14.4 | Same | 6.25 | 0.48 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them | 11.5 | 10.2 | Same | 12.75 | 0.83 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand | 9.1 | 6.5 | Worse | 39.02 | 1.96 | 2017 | MEPS |
| Person-Centered Care | Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months | 15.7 | 11.2 | Worse | 40.18 | 2.45 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them | 9.2 | 6.4 | Worse | 43.64 | 2.15 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say | 8.9 | 5.3 | Worse | 67.67 | 2.50 | 2017 | MEPS |

Table 80. Care Coordination Measures for Micropolitan vs. Large Fringe Metro

For Care Coordination measures, residents of micropolitan areas experienced better quality care compared with residents of large fringe metropolitan areas for 2 measures, the same quality of care for 10 measures, and worse quality for 9 measures, 2016-2018.

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | Hospital admissions for asthma per 100,000 population, children ages 2-17 | 49.1 | 70.4 | Better | -30.26 | -2.80 | 2017 | HCUP |
| Care Coordination | Hospital admissions for asthma per 100,000 population, adults ages 18-39 | 25.2 | 34.5 | Better | -26.96 | -4.51 | 2017 | HCUP |
| Care Coordination | Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years | 29.6 | 36.8 | Same | -19.57 | -1.88 | 2017 | HCUP |
| Care Coordination | Hospital admissions for hypertension per 100,000 population, adults age 18 and over | 56.2 | 61.8 | Same | -9.06 | -1.65 | 2017 | HCUP |
| Care Coordination | Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17 | 22.1 | 23.5 | Same | -5.96 | -0.39 | 2017 | HCUP |
| Care Coordination | Emergency department encounters for asthma, children ages 2-17 | 458.2 | 475.6 | Same | -3.66 | -0.26 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults | 44.6 | 45.2 | Same | -1.33 | -0.24 | 2017 | HCUP |
| Care Coordination | Hospital admissions for long-term complications of diabetes per 100,000 population, adults | 108.1 | 109.5 | Same | -1.28 | -0.26 | 2017 | HCUP |
| Care Coordination | People with a usual source of care who usually asks about prescription medications and treatments from other doctors | 81.9 | 82.0 | Same | 0.56 | 0.04 | 2017 | MEPS |
| Care Coordination | Emergency department visits with a principal diagnosis related to substance abuse only, per 100,000 population | 479.5 | 469.8 | Same | 2.06 | 0.20 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children | 549.0 | 522.3 | Same | 5.11 | 1.15 | 2016 | HCUP |
| Care Coordination | Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over | 175.5 | 159.6 | Same | 9.96 | 1.89 | 2017 | HCUP |
| Care Coordination | Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes | 32.2 | 27.8 | Worse | 15.83 | 2.47 | 2017 | HCUP |
| Care Coordination | Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years | 24.8 | 19.9 | Worse | 24.62 | 2.23 | 2017 | HCUP |
| Care Coordination | Emergency department encounters for asthma, adults | 386.3 | 307.2 | Worse | 25.75 | 2.36 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for short-term complications of diabetes per 100,000 population, adults | 71.9 | 56.9 | Worse | 26.36 | 4.59 | 2017 | HCUP |
| Care Coordination | Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over | 676.2 | 518.4 | Worse | 30.44 | 5.14 | 2017 | HCUP |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | Hospitalizations and emergency department encounters for heart failure | 590.9 | 402.5 | Worse | 46.81 | 4.48 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over | 245.7 | 166.6 | Worse | 47.48 | 7.93 | 2017 | HCUP |
| Care Coordination | Emergency department visits with a principal diagnosis related to mental health only per 100,000 population | 1340.5 | 879.1 | Worse | 52.49 | 4.78 | 2017 | HCUP_NEDS |
| Care Coordination | Emergency department visits with a principal diagnosis related to dental conditions | 491.7 | 207.1 | Worse | 137.42 | 10.54 | 2017 | HCUP_NEDS |

Table 81. Effectiveness of Care Measures for Micropolitan vs. Large Fringe Metro

For Effectiveness of Care measures, residents of micropolitan areas did not experience better quality care compared with residents of large fringe metropolitan areas for any measure; they experienced the same quality of care for 19 measures and worse quality for 4 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months | 50.6 | 43.6 | Same | -12.41 | -1.41 | 2018 | NSDUH |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year | 67.0 | 62.8 | Same | -11.29 | -0.66 | 2017 | MEPS |
| Effectiveness of Care | People age 12 and over who needed treatment for illicit drug use and who received such treatment at a specialty facility in the last 12 months | 23.3 | 16.6 | Same | -8.03 | -1.44 | 2018 | NSDUH |
| Effectiveness of Care | Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months | 65.9 | 64.8 | Same | -3.13 | -0.29 | 2018 | NSDUH |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair | 39.2 | 40.4 | Same | -2.97 | -0.28 | 2017 | HCUP |
| Effectiveness of Care | People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months | 9.3 | 8.0 | Same | -1.41 | -0.53 | 2018 | NSDUH |
| Effectiveness of Care | Breast cancer deaths per 100,000 female population per year | 20.1 | 19.8 | Same | 1.52 | 0.83 | 2017 | NVSS_M |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over | 26.7 | 26.3 | Same | 1.52 | 0.33 | 2017 | HCUP |
| Effectiveness of Care | Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms | 72.2 | 72.9 | Same | 2.58 | 0.25 | 2018 | NHIS |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI) | 49.8 | 48.2 | Same | 3.32 | 1.01 | 2017 | HCUP |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year | 60.9 | 62.6 | Same | 4.55 | 0.27 | 2017 | MEPS |
| Effectiveness of Care | Hospital admissions for heart failure per 100,000 population | 476.0 | 453.6 | Same | 4.94 | 0.99 | 2017 | HCUP |
| Effectiveness of Care | People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler) | 17.8 | 21.9 | Same | 5.25 | 1.32 | 2016 | MEPS |
| Effectiveness of Care | Persons with current asthma who received written asthma management plans from their healthcare provider | 33.2 | 38.0 | Same | 7.74 | 1.01 | 2018 | NHIS |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with heart failure | 29.3 | 27.0 | Same | 8.52 | 2.30 | 2017 | HCUP |
| Effectiveness of Care | HIV infection deaths per 100,000 population | 1.2 | 1.1 | Same | 9.09 | 0.98 | 2017 | NVSS_M |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year | 56.5 | 60.6 | Same | 10.41 | 0.69 | 2017 | MEPS |
| Effectiveness of Care | Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over | 27.2 | 24.0 | Same | 13.33 | 1.65 | 2017 | HCUP |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year | 70.4 | 78.9 | Same | 40.28 | 1.06 | 2017 | MEPS |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with pneumonia | 27.1 | 24.5 | Worse | 10.61 | 2.40 | 2017 | HCUP |
| Effectiveness of Care | Colorectal cancer deaths per 100,000 population per year | 15.8 | 12.9 | Worse | 22.48 | 12.97 | 2017 | NVSS_M |
| Effectiveness of Care | Lung cancer deaths per 100,000 population per year | 44.2 | 35.1 | Worse | 25.93 | 25.24 | 2017 | NVSS_M |
| Effectiveness of Care | Suicide deaths among persons age 12 and over per 100,000 population | 22.7 | 15.1 | Worse | 50.33 | 24.03 | 2017 | NVSS_M |

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Table 82. Healthy Living Measures for Micropolitan vs. Large Fringe Metro

For Healthy Living measures, residents of micropolitan areas experienced better quality care compared with residents of large fringe metropolitan areas for 1 measure, the same quality of care for 11 measures, and worse quality for 12 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over | 266.7 | 306.1 | Better | -12.87 | -2.34 | 2017 | HCUP |
| Healthy Living | Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child | 49.5 | 48.5 | Same | -1.94 | -0.19 | 2017 | MEPS |
| Healthy Living | Live-born infants with low birth weight (less than 2,500 g) | 8.3 | 7.9 | Same | 5.06 | 14.14 | 2018 | NVSS_N |
| Healthy Living | Children ages 2-17 who received a preventive dental service in the calendar year | 47.1 | 50.0 | Same | 5.80 | 0.63 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 who had a dental visit in the calendar year | 53.5 | 57.4 | Same | 9.15 | 0.87 | 2017 | MEPS |
| Healthy Living | Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods | 43.5 | 49.0 | Same | 10.78 | 1.71 | 2016 | MEPS |
| Healthy Living | Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car | 65.2 | 69.6 | Same | 14.47 | 0.66 | 2017 | MEPS |
| Healthy Living | Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high | 92.5 | 93.6 | Same | 17.19 | 1.28 | 2017 | NHIS |
| Healthy Living | Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car | 29.7 | 40.8 | Same | 18.75 | 1.54 | 2017 | MEPS |
| Healthy Living | Adult current smokers who had a doctor's office or clinic visit in the last 12 months who received advice to quit smoking from their providers | 70.5 | 75.5 | Same | 20.41 | 0.98 | 2017 | MEPS |
| Healthy Living | Children ages 3-5 who ever had their vision checked by a health provider | 62.5 | 69.5 | Same | 22.95 | 0.93 | 2016 | MEPS |
| Healthy Living | Children who had their height and weight measured by a health provider within the past 2 years | 93.3 | 95.6 | Same | 52.27 | 1.19 | 2017 | MEPS |
| Healthy Living | Adults with a dental visit in the calendar year | 31.1 | 37.6 | Worse | 10.42 | 3.21 | 2017 | MEPS |
| Healthy Living | Adults who received a preventive dental service in the calendar year | 38.9 | 45.1 | Worse | 11.29 | 3.06 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Adults with obesity who ever received advice from a health professional to exercise more | 56.0 | 64.5 | Worse | 23.94 | 2.72 | 2016 | MEPS |
| Healthy Living | Women ages 50-74 who received a mammogram in the last 2 years | 66.5 | 74.7 | Worse | 32.41 | 2.86 | 2018 | NHIS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle | 30.7 | 48.2 | Worse | 33.78 | 3.32 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have | 36.1 | 53.7 | Worse | 38.01 | 3.14 | 2017 | MEPS |
| Healthy Living | Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car | 31.8 | 51.6 | Worse | 40.91 | 2.87 | 2017 | MEPS |
| Healthy Living | Women ages 21-65 who received a Pap smear in the last 3 years | 74.3 | 82.4 | Worse | 46.02 | 2.97 | 2018 | NHIS |
| Healthy Living | Infant mortality per 1,000 live births, birth weight 2,500 grams or more | 2.6 | 1.7 | Worse | 52.94 | 8.83 | 2017 | NVSS_L |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy | 54.5 | 70.3 | Worse | 53.20 | 3.72 | 2017 | MEPS |
| Healthy Living | Children ages 0-17 with wellness checkup in the past 12 months | 83.4 | 89.8 | Worse | 62.75 | 3.04 | 2018 | NHIS |
| Healthy Living | Adults who received a blood cholesterol measurement in the last 5 years | 81.3 | 89.0 | Worse | 70.00 | 6.15 | 2017 | NHIS |

Table 83. Affordable Care Measures for Micropolitan vs. Large Fringe Metro

For Affordable Care measures, residents of micropolitan areas did not experience better or worse quality care compared with residents of large fringe metropolitan areas for any measure. Residents of micropolitan areas experienced the same quality of care compared with residents of large fringe metropolitan areas for 5 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Affordable Care | People unable to get or delayed in getting needed dental care due to financial or insurance reasons | 70.5 | 76.9 | Same | -8.32 | -0.98 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Affordable Care | People unable to get or delayed in getting needed medical care due to financial or insurance reasons | 41.0 | 42.0 | Same | -2.38 | -0.14 | 2017 | MEPS |
| Affordable Care | People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons | 61.0 | 55.6 | Same | 9.71 | 0.74 | 2017 | MEPS |
| Affordable Care | People without a usual source of care who indicated a financial or insurance reason for not having a source of care | 15.5 | 13.6 | Same | 13.97 | 0.54 | 2017 | MEPS |
| Affordable Care | People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income | 18.2 | 15.9 | Same | 14.64 | 1.04 | 2017 | MEPS |

Noncore vs. Large Fringe Metro

Table 84. Patient Safety Measures for Noncore vs. Large Fringe Metro

For Patient Safety measures, residents of noncore areas did not experience better quality care compared with residents of large fringe metropolitan areas for any measure; they experienced the same quality of care for 11 measures and worse quality for 4 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions | 0.1 | 0.1 | Same | -10.00 | -0.71 | 2017 | HCUP |
| Patient Safety | Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults | 3.1 | 3.4 | Same | -8.75 | -2.08 | 2017 | HCUP |
| Patient Safety | Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults | 0.2 | 0.2 | Same | -5.26 | -0.71 | 2017 | HCUP |
| Patient Safety | Postoperative acute kidney injury requiring dialysis per 1,000 elective surgical hospital discharges, adults | 2.2 | 2.2 | Same | -0.92 | -0.17 | 2017 | HCUP |
| Patient Safety | Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions | 147.6 | 141.8 | Same | 4.09 | 1.28 | 2017 | HCUP |
| Patient Safety | Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children | 0.4 | 0.3 | Same | 12.90 | 0.55 | 2017 | HCUP |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Patient Safety | Birth trauma - injury to neonate per 1,000 selected live births | 5.7 | 5.0 | Same | 14.40 | 1.74 | 2017 | HCUP |
| Patient Safety | Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults | 1.2 | 1.0 | Same | 15.38 | 1.79 | 2017 | HCUP |
| Patient Safety | Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults | 10.3 | 8.9 | Same | 15.73 | 0.63 | 2017 | MEPS |
| Patient Safety | Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults | 0.9 | 0.8 | Same | 17.72 | 1.42 | 2017 | HCUP |
| Patient Safety | Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults | 0.1 | 0.1 | Same | 37.50 | 1.34 | 2017 | HCUP |
| Patient Safety | Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults | 4.0 | 3.5 | Worse | 14.29 | 2.28 | 2017 | HCUP |
| Patient Safety | Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults | 5.1 | 4.1 | Worse | 25.19 | 3.56 | 2017 | HCUP |
| Patient Safety | Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults | 1.0 | 0.5 | Worse | 86.79 | 3.93 | 2017 | HCUP |
| Patient Safety | Deaths per 1,000 hospital admissions with expected low-mortality | 0.3 | 0.2 | Worse | 88.24 | 3.64 | 2017 | HCUP |

Table 85. Person Centered Care Measures for Noncore vs. Large Fringe Metro

For Person-Centered Care measures, residents of noncore areas did not experience better quality care compared with residents of large fringe metropolitan areas for any measure; they received the same quality of care for 8 measures and worse quality for 1 measure, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always offered help in filling out forms | 14.6 | 14.6 | Same | 0.00 | 0.00 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them | 10.9 | 10.2 | Same | 6.86 | 0.36 | 2017 | MEPS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always asked them to describe how they will follow the instructions | 22.2 | 27.5 | Same | 7.31 | 1.82 | 2017 | MEPS |
| Person-Centered Care | People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments | 15.5 | 14.4 | Same | 7.64 | 0.49 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions | 70.5 | 75.1 | Same | 18.47 | 1.66 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand | 7.8 | 6.5 | Same | 19.05 | 0.79 | 2017 | MEPS |
| Person-Centered Care | Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months | 14.2 | 11.2 | Same | 26.79 | 1.63 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say | 8.3 | 5.3 | Same | 56.58 | 1.69 | 2017 | MEPS |
| Person-Centered Care | Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them | 9.7 | 6.4 | Worse | 52.43 | 1.97 | 2017 | MEPS |

Table 86. Care Coordination Measures for Noncore vs. Large Fringe Metro

For Care Coordination measures, residents of noncore areas experienced better quality care compared with residents of large fringe metropolitan areas for 4 measures, the same quality of care for 8 measures, and worse quality for 8 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | Hospital admissions for asthma per 100,000 population, children ages 2-17 | 45.4 | 70.4 | Better | -35.51 | -3.14 | 2017 | HCUP |
| Care Coordination | Hospital admissions for asthma per 100,000 population, adults ages 18-39 | 25.2 | 34.5 | Better | -26.96 | -4.37 | 2017 | HCUP |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | Emergency department visits with a principal diagnosis related to substance abuse only, per 100,000 population | 368.9 | 469.8 | Better | -21.48 | -2.38 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for hypertension per 100,000 population, adults age 18 and over | 54.8 | 61.8 | Better | -11.33 | -2.10 | 2017 | HCUP |
| Care Coordination | People with a usual source of care who usually asks about prescription medications and treatments from other doctors | 85.1 | 82.0 | Same | -17.22 | -1.61 | 2017 | MEPS |
| Care Coordination | Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years | 30.8 | 36.8 | Same | -16.30 | -1.43 | 2017 | HCUP |
| Care Coordination | Emergency department encounters for asthma, children ages 2-17 | 453.2 | 475.6 | Same | -4.71 | -0.34 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children | 556.4 | 522.3 | Same | 6.53 | 1.44 | 2016 | HCUP |
| Care Coordination | Hospital admissions for long-term complications of diabetes per 100,000 population, adults | 118.2 | 109.5 | Same | 7.95 | 1.41 | 2017 | HCUP |
| Care Coordination | Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults | 49.0 | 45.2 | Same | 8.41 | 1.49 | 2017 | HCUP |
| Care Coordination | Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17 | 26.3 | 23.5 | Same | 11.91 | 0.74 | 2017 | HCUP |
| Care Coordination | Emergency department encounters for asthma, adults | 349.3 | 307.2 | Same | 13.70 | 1.38 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for short-term complications of diabetes per 100,000 population, adults | 65.3 | 56.9 | Worse | 14.76 | 2.51 | 2017 | HCUP |
| Care Coordination | Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years | 24.8 | 19.9 | Worse | 24.62 | 2.23 | 2017 | HCUP |
| Care Coordination | Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes | 35.5 | 27.8 | Worse | 27.70 | 3.80 | 2017 | HCUP |
| Care Coordination | Emergency department visits with a principal diagnosis related to mental health only per 100,000 population | 1186.6 | 879.1 | Worse | 34.98 | 3.38 | 2017 | HCUP_NEDS |
| Care Coordination | Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over | 236.8 | 159.6 | Worse | 48.37 | 8.17 | 2017 | HCUP |
| Care Coordination | Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over | 794.0 | 518.4 | Worse | 53.16 | 7.92 | 2017 | HCUP |
| Care Coordination | Hospitalizations and emergency department encounters for heart failure | 634.9 | 402.5 | Worse | 57.74 | 5.33 | 2017 | HCUP_NEDS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Care Coordination | Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over | 376.5 | 166.6 | Worse | 125.99 | 16.46 | 2017 | HCUP |

Table 87. Effectiveness of Care Measures for Noncore vs. Large Fringe Metro

For Effectiveness of Care measures, residents of noncore areas did not experience better quality care compared with residents of large fringe metropolitan areas for any measure; they experienced the same quality of care for 18 measures and worse quality for 7 measures, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair | 34.9 | 40.4 | Same | -13.61 | -1.42 | 2017 | HCUP |
| Effectiveness of Care | Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms | 76.5 | 72.9 | Same | -13.28 | -1.19 | 2018 | NHIS |
| Effectiveness of Care | People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months | 12.0 | 8.0 | Same | -4.35 | -1.19 | 2018 | NSDUH |
| Effectiveness of Care | Hospital inpatient stays involving opioid-related diagnoses per 100,000 population | 282.5 | 288.4 | Same | -2.05 | -0.29 | 2017 | HCUP |
| Effectiveness of Care | Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months | 65.4 | 64.8 | Same | -1.70 | -0.13 | 2018 | NSDUH |
| Effectiveness of Care | Breast cancer deaths per 100,000 female population per year | 19.5 | 19.8 | Same | -1.52 | -0.67 | 2017 | NVSS_M |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI) | 47.7 | 48.2 | Same | -1.04 | -0.32 | 2017 | HCUP |
| Effectiveness of Care | Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over | 26.2 | 26.3 | Same | -0.38 | -0.08 | 2017 | HCUP |
| Effectiveness of Care | People age 12 and over who needed treatment for illicit drug use and who received such treatment at a specialty facility in the last 12 months | 14.1 | 16.6 | Same | 3.00 | 0.59 | 2018 | NSDUH |
| Effectiveness of Care | Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months | 39.7 | 43.6 | Same | 6.91 | 0.72 | 2018 | NSDUH |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------------|---|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year | 60.2 | 62.8 | Same | 6.99 | 0.43 | 2017 | MEPS |
| Effectiveness of Care | Emergency department visits involving opioid-related diagnoses per 100,000 population | 225.6 | 210.3 | Same | 7.28 | 0.49 | 2017 | HCUP_NEDS |
| Effectiveness of Care | People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler) | 16.1 | 21.9 | Same | 7.43 | 1.40 | 2016 | MEPS |
| Effectiveness of Care | HIV infection deaths per 100,000 population | 1.2 | 1.1 | Same | 9.09 | 0.98 | 2017 | NVSS_M |
| Effectiveness of Care | Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over | 27.8 | 24.0 | Same | 15.83 | 1.96 | 2017 | HCUP |
| Effectiveness of Care | Persons with current asthma who received written asthma management plans from their healthcare provider | 26.3 | 38.0 | Same | 18.87 | 1.87 | 2018 | NHIS |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year | 50.9 | 60.6 | Same | 24.62 | 1.51 | 2017 | MEPS |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year | 68.7 | 78.9 | Same | 48.34 | 1.84 | 2017 | MEPS |
| Effectiveness of Care | Hospital admissions for heart failure per 100,000 population | 521.2 | 453.6 | Worse | 14.90 | 2.77 | 2017 | HCUP |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with heart failure | 31.9 | 27.0 | Worse | 18.15 | 4.20 | 2017 | HCUP |
| Effectiveness of Care | Deaths per 1,000 adult hospital admissions with pneumonia | 30.1 | 24.5 | Worse | 22.86 | 5.18 | 2017 | HCUP |
| Effectiveness of Care | Colorectal cancer deaths per 100,000 population per year | 16.6 | 12.9 | Worse | 28.68 | 11.70 | 2017 | NVSS_M |
| Effectiveness of Care | Lung cancer deaths per 100,000 population per year | 46.1 | 35.1 | Worse | 31.34 | 24.60 | 2017 | NVSS_M |
| Effectiveness of Care | Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year | 50.2 | 62.6 | Worse | 33.16 | 2.14 | 2017 | MEPS |
| Effectiveness of Care | Suicide deaths among persons age 12 and over per 100,000 population | 23.7 | 15.1 | Worse | 56.95 | 20.86 | 2017 | NVSS_M |

Table 88. Healthy Living Measures for Noncore vs. Large Fringe Metro

For Healthy Living measures, residents of noncore areas experienced better quality care compared with residents of large fringe metropolitan areas for 1 measure, the same quality of care for 11 measures, and worse quality for 10 measures, 2016-2018.

Disparities Measures

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over | 256.8 | 306.1 | Better | -16.11 | -3.08 | 2017 | HCUP |
| Healthy Living | Adult current smokers who had a doctor's office or clinic visit in the last 12 months who received advice to quit smoking from their providers | 79.7 | 75.5 | Same | -17.14 | -0.88 | 2017 | MEPS |
| Healthy Living | Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child | 52.5 | 48.5 | Same | -7.77 | -0.83 | 2017 | MEPS |
| Healthy Living | Live-born infants with low birth weight (less than 2,500 g) | 8.4 | 7.9 | Same | 6.33 | 4.90 | 2018 | NVSS_N |
| Healthy Living | Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods | 44.2 | 49.0 | Same | 9.41 | 0.99 | 2016 | MEPS |
| Healthy Living | Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car | 31.5 | 40.8 | Same | 15.71 | 1.50 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 who received a preventive dental service in the calendar year | 41.8 | 50.0 | Same | 16.40 | 1.38 | 2017 | MEPS |
| Healthy Living | Adults with obesity who ever received advice from a health professional to exercise more | 58.2 | 64.5 | Same | 17.75 | 1.42 | 2016 | MEPS |
| Healthy Living | Children ages 2-17 who had a dental visit in the calendar year | 49.5 | 57.4 | Same | 18.54 | 1.35 | 2017 | MEPS |
| Healthy Living | Women ages 50-74 who received a mammogram in the last 2 years | 69.2 | 74.7 | Same | 21.74 | 1.53 | 2018 | NHIS |
| Healthy Living | Children who had their height and weight measured by a health provider within the past 2 years | 94.5 | 95.6 | Same | 25.00 | 0.70 | 2017 | MEPS |
| Healthy Living | Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high | 91.7 | 93.6 | Same | 29.69 | 1.36 | 2017 | NHIS |
| Healthy Living | Adults who received a preventive dental service in the calendar year | 32.7 | 45.1 | Worse | 22.59 | 4.39 | 2017 | MEPS |
| Healthy Living | Adults with a dental visit in the calendar year | 23.0 | 37.6 | Worse | 23.40 | 5.73 | 2017 | MEPS |
| Healthy Living | Women ages 21-65 who received a Pap smear in the last 3 years | 76.9 | 82.4 | Worse | 31.25 | 2.08 | 2018 | NHIS |

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| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have | 35.9 | 53.7 | Worse | 38.44 | 3.52 | 2017 | MEPS |
| Healthy Living | Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car | 24.1 | 46.2 | Worse | 41.08 | 2.92 | 2016 | MEPS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle | 26.2 | 48.2 | Worse | 42.47 | 4.63 | 2017 | MEPS |
| Healthy Living | Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy | 53.3 | 70.3 | Worse | 57.24 | 3.18 | 2017 | MEPS |
| Healthy Living | Infant mortality per 1,000 live births, birth weight 2,500 grams or more | 2.9 | 1.7 | Worse | 70.59 | 11.77 | 2017 | NVSS_L |
| Healthy Living | Adults who received a blood cholesterol measurement in the last 5 years | 80.4 | 89.0 | Worse | 78.18 | 4.77 | 2017 | NHIS |
| Healthy Living | Children ages 0-17 with wellness checkup in the past 12 months | 81.6 | 89.8 | Worse | 80.39 | 2.79 | 2018 | NHIS |

Table 89. Affordable Care Measures for Noncore vs. Large Fringe Metro

For Affordable Care measures, residents of noncore areas did not experience better quality care compared with residents of large fringe metropolitan areas for any measure; they experienced the same quality of care for 1 measure and worse quality for 1 measure, 2016-2018.

| Priority Area | Measure Title | Rate for Comparison Group | Rate for Reference Group | Disparities | Relative Difference | Z-Score | Data Year | Data Source |
|-----------------|--|---------------------------|--------------------------|-------------|---------------------|---------|-----------|-------------|
| Affordable Care | People without a usual source of care who indicated a financial or insurance reason for not having a source of care | 12.2 | 13.6 | Same | -10.29 | -0.45 | 2017 | MEPS |
| Affordable Care | People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income | 23.2 | 15.9 | Worse | 46.50 | 2.21 | 2017 | MEPS |