

APPENDIX A. LIST OF MEASURES AND SUMMARY OF RESULTS FOR FIGURES

A.6. Disparities: Residence Location

Measures included in Figure 128. Number and percentage of quality measures for which members of selected groups experienced better, same, or worse quality of care compared with reference group in 2015, 2016, or 2017, by residence location

Large Central Metropolitan vs. Large Fringe Metropolitan

Measures for Large Central Metro Better Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over	-25.68	-5.55	HCUP	2016
Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over	-15.93	-3.09	HCUP	2016
Hospital admissions for dehydration per 100,000 population, adults age 18 and over	-13.74	-2.74	HCUP	2016
Suicide deaths among persons age 12 and over per 100,000 population	-12.84	-13.40	NVSS_M	2016
Adults who received a blood cholesterol measurement in the last 5 years	-14.55	-2.05	NHIS	2017

Measures for Large Central Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	-8.00	-0.99	MEPS	2016
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-7.20	-0.60	MEPS	2016
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	2.64	0.28	MEPS	2016
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	4.10	0.69	MEPS	2016
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	4.52	0.41	MEPS	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, adults	-9.78	-4.89	HCUP	2016
Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over	-4.57	-0.85	HCUP	2016
Hospital admissions for short-term complications of diabetes per 100,000 population, adults	0.60	0.11	HCUP	2016
Hospital admissions for asthma per 100,000 population, adults ages 18-39	1.56	0.23	HCUP	2016

Appendix A: List of Measures and Summary of Results for Figures

Measures for Large Central Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Emergency department visits with a principal diagnosis related to dental conditions	5.64	0.49	HCUP_NED S	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children	5.84	1.06	HCUP	2016
Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years	6.76	0.52	HCUP	2016
Hospitalizations and emergency department encounters for congestive heart failure	7.43	0.72	HCUP_NED S	2016
Composite measure: Emergency department visits with a principal diagnosis related to co-occurring of mental health, alcohol and substance abuse, per 100,000 population	9.70	0.74	HCUP_NED S	2016
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	10.47	1.41	MEPS	2016
Hospital admissions for hypertension per 100,000 population, adults age 18 and over	11.24	1.74	HCUP	2016
Hospital admissions for long-term complications of diabetes per 100,000 population, adults	11.24	1.88	HCUP	2016
Emergency department visits with a principal diagnosis related to mental health only per 100,000 population	18.10	1.58	HCUP_NED S	2016
Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years	19.43	1.29	HCUP	2016
Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17	22.81	1.26	HCUP	2016
Lung cancer deaths per 100,000 population per year	-9.07	-11.70	NVSS_M	2016
Hospital admissions for congestive heart failure per 100,000 population	-7.04	-1.41	HCUP	2016
Deaths per 1,000 adult hospital admissions with congestive heart failure	-6.99	-2.43	HCUP	2016
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-6.97	-0.60	MEPS	2016
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	-0.83	-0.07	MEPS	2016
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-0.71	-0.10	NHIS	2017
People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months	-0.22	-0.12	NSDUH	2016
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-0.17	-0.03	NSDUH	2016

Measures for Large Central Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	1.79	0.51	MEPS	2016
Breast cancer deaths per 100,000 female population per year	2.53	1.77	NVSS_M	2016
Deaths per 1,000 adult hospital admissions with pneumonia	3.15	0.94	HCUP	2016
Emergency department visits involving opioid-related diagnoses per 100,000 population	3.17	.	HCUP_NEDS	2016
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	3.35	0.19	MEPS	2016
Colorectal cancer deaths per 100,000 population per year	4.55	4.24	NVSS_M	2016
Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over	5.36	0.81	HCUP	2016
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	6.42	1.51	NSDUH	2016
Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair	8.45	0.91	HCUP	2016
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	9.27	.	HCUP	2016
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	12.12	1.33	NSDUH	2016
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	17.77	1.44	MEPS	2016
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-3.31	-0.80	MEPS	2016
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	-2.80	-0.59	MEPS	2016
Children ages 3-5 who ever had their vision checked by a health provider	-0.33	-0.02	MEPS	2016
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	1.53	0.11	MEPS	2016
Adults with obesity who ever received advice from a health professional to exercise more	3.09	0.54	MEPS	2016
Adults who had a preventive dental service in the calendar year	5.72	2.22	MEPS	2016
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	5.88	3.54	NVSS_L	2016
Adults with a dental visit in the calendar year	6.34	2.76	MEPS	2016
Live-born infants with low birth weight (less than 2,500 g)	7.59	21.21	NVSS_N	2017
Women ages 50-74 who received a mammogram in the last 2 years	8.40	0.95	NHIS	2015

Measures for Large Central Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
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	9.04	2.05	MEPS	2016
Children over 80 lb for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	10.14	1.63	MEPS	2016
Children 0-40 lb for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	10.23	0.89	MEPS	2016
Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	11.71	1.61	MEPS	2016
Deaths per 1,000 hospital admissions with expected low-mortality	-9.52	-1.41	HCUP	2016
Birth trauma - injury to neonate per 1,000 selected live births	-7.28	-1.12	HCUP	2016
Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults	-5.45	-0.60	HCUP	2016
Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults	-4.76	-0.71	HCUP	2016
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults	0.00	0.00	HCUP	2016
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	0.00	0.00	HCUP	2016
Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults	0.00	0.00	HCUP	2016
Obstetric trauma per 1,000 instrument-assisted deliveries	1.39	0.33	HCUP	2016
Postoperative hemorrhage or hematoma with surgical drainage or evacuation per 1,000 surgical hospital discharges, adults	1.80	0.47	HCUP	2016
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	3.26	0.20	MEPS	2016
Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults	3.61	0.42	HCUP	2016
Obstetric trauma per 1,000 vaginal deliveries without instrument assistance	3.95	1.09	HCUP	2016
Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults	5.34	1.58	HCUP	2016
Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions	8.52	3.82	HCUP	2016
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children	10.34	0.60	HCUP	2016

Measures for Large Central Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
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	15.91	0.37	MEPS	2016
Adults with limited English proficiency and usual source of care (USC) and the USC had language assistance	-40.00	-1.34	MEPS	2016
Adults with limited English proficiency who had a usual source of care	-15.97	-1.62	MEPS	2016
Adults who had a doctor's office or clinic 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	-7.32	-1.40	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-0.58	-0.22	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	2.83	1.09	MEPS	2016
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	4.37	0.38	MEPS	2016
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	4.43	0.51	MEPS	2016
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	8.51	0.87	MEPS	2016
Rating of healthcare 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	13.33	1.41	MEPS	2016
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	23.32	1.66	MEPS	2016

Measures for Large Central Metro Worse Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Emergency department encounters for asthma, children ages 2-17	74.46	2.85	HCUP_NEDS	2016
Hospital admissions for asthma per 100,000 population, children ages 2-17	72.26	3.83	HCUP	2016
Emergency department visits with a principal diagnosis related to substance abuse only, per 100,000 population	42.24	2.61	HCUP_NEDS	2016
Emergency department encounters for asthma, adults	34.20	2.42	HCUP_NEDS	2016
Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes	15.77	2.53	HCUP	2016
Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults	14.04	2.20	HCUP	2016

Measures for Large Central Metro Worse Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
HIV infection deaths per 100,000 population	141.67	16.67	NVSS_M	2016
Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over	17.90	4.33	HCUP	2016
Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI)	10.74	4.09	HCUP	2016
Children who had their height and weight measured by a health provider within the past 2 years	61.70	2.73	MEPS	2016
Women ages 21-65 who received a Pap smear in the last 3 years	33.33	3.79	NHIS	2015
Children ages 0-17 with wellness checkup in the past 12 months	24.78	2.20	NHIS	2017
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	24.75	3.36	MEPS	2016
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	21.87	2.19	NHIS	2017
Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over	16.90	2.28	HCUP	2016
Children ages 2-17 who had a preventive dental service in the calendar year	13.57	2.59	MEPS	2016
Children ages 2-17 who had a dental visit in the calendar year	13.55	2.40	MEPS	2016
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	12.37	2.38	MEPS	2016
Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults	19.51	3.99	HCUP	2016
Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults	13.94	2.46	HCUP	2016
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	27.73	1.99	MEPS	2016

Medium Metropolitan vs. Large Fringe Metropolitan

Measures for Medium Metro Better Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	-31.61	-2.39	MEPS	2016
Hospital admissions for asthma per 100,000 population, adults ages 18-39	-23.70	-3.66	HCUP	2016
Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over	-15.69	-2.79	HCUP	2016
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	-27.42	-2.15	MEPS	2016

Measures for Medium Metro Better Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over	-14.15	-2.02	HCUP	2016
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	-21.52	-2.29	MEPS	2016

Measures for Medium Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-15.02	-1.21	MEPS	2016
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	-9.14	-1.08	MEPS	2016
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	-6.79	-1.00	MEPS	2016
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	5.45	0.51	MEPS	2016
Hospital admissions for hypertension per 100,000 population, adults age 18 and over	-8.95	-1.35	HCUP	2016
Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over	-8.31	-1.47	HCUP	2016
Hospital admissions for dehydration per 100,000 population, adults age 18 and over	-8.15	-1.39	HCUP	2016
Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults	-8.11	-1.27	HCUP	2016
Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over	-4.77	-0.78	HCUP	2016
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-4.71	-0.51	MEPS	2016
Hospital admissions for long-term complications of diabetes per 100,000 population, adults	-3.98	-0.64	HCUP	2016
Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years	-3.43	-0.26	HCUP	2016
Hospital admissions for asthma per 100,000 population, children ages 2-17	-0.68	-0.05	HCUP	2016
Emergency department encounters for asthma, children ages 2-17	1.10	0.07	HCUP_NEDS	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children	2.76	0.61	HCUP	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, adults	3.03	1.29	HCUP	2016

Measures for Medium Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Emergency department visits with a principal diagnosis related to substance abuse only, per 100,000 population	8.39	0.67	HCUP_NEDS	2016
Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years	8.70	0.71	HCUP	2016
Composite measure: Emergency department visits with a principal diagnosis related to co-occurring of mental health, alcohol and substance abuse, per 100,000 population	9.68	0.69	HCUP_NEDS	2016
Hospitalizations and emergency department encounters for congestive heart failure	10.05	0.92	HCUP_NEDS	2016
Hospital admissions for short-term complications of diabetes per 100,000 population, adults	11.42	1.68	HCUP	2016
Emergency department encounters for asthma, adults	13.00	1.09	HCUP_NEDS	2016
Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes	13.28	1.83	HCUP	2016
Emergency department visits with a principal diagnosis related to mental health only per 100,000 population	16.60	1.34	HCUP_NEDS	2016
Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17	22.81	1.34	HCUP	2016
Hospital admissions for congestive heart failure per 100,000 population	-9.05	-1.56	HCUP	2016
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	-5.44	-0.41	MEPS	2016
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-4.57	-0.39	MEPS	2016
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	-3.07	-0.70	MEPS	2016
People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months	-1.83	-0.96	NSDUH	2016
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-0.34	-0.05	NSDUH	2016
Breast cancer deaths per 100,000 female population per year	0.00	0.00	NVSS_M	2016
Colorectal cancer deaths per 100,000 population per year	0.00	0.00	NVSS_M	2016
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	1.83	.	HCUP	2016
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	3.35	0.15	MEPS	2016
Deaths per 1,000 adult hospital admissions with congestive heart failure	4.78	1.53	HCUP	2016
Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair	5.35	0.61	HCUP	2016

Measures for Medium Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Lung cancer deaths per 100,000 population per year	6.04	7.78	NVSS_M	2016
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	6.16	1.42	NSDUH	2016
Deaths per 1,000 adult hospital admissions with pneumonia	7.09	1.95	HCUP	2016
Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over	7.14	1.19	HCUP	2016
Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI)	8.68	3.30	HCUP	2016
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	8.87	1.03	NHIS	2017
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	10.61	1.09	NSDUH	2016
Children ages 2-17 who had a dental visit in the calendar year	-7.01	-1.01	MEPS	2016
Children ages 2-17 who had a preventive dental service in the calendar year	-6.98	-1.10	MEPS	2016
Adults with a dental visit in the calendar year	-2.47	-0.82	MEPS	2016
Adults who had a preventive dental service in the calendar year	-2.08	-0.59	MEPS	2016
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	-1.87	-0.30	MEPS	2016
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	1.56	0.16	NHIS	2017
Adults with obesity who ever received advice from a health professional to exercise more	2.53	0.36	MEPS	2016
Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	3.16	0.33	MEPS	2016
Live-born infants with low birth weight (less than 2,500 g)	5.06	14.14	NVSS_N	2017
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	5.83	0.39	MEPS	2016
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	6.04	1.37	MEPS	2016
Women ages 50-74 who received a mammogram in the last 2 years	10.00	1.04	NHIS	2015
Adults who received a blood cholesterol measurement in the last 5 years	10.91	1.41	NHIS	2017
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	11.03	1.91	MEPS	2016
Children ages 3-5 who ever had their vision checked by a health provider	12.13	0.70	MEPS	2016
Children 0-40 lb for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	18.15	1.19	MEPS	2016

Appendix A: List of Measures and Summary of Results for Figures

Measures for Medium Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Children who had their height and weight measured by a health provider within the past 2 years	31.91	1.33	MEPS	2016
Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults	-9.55	-2.67	HCUP	2016
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	-8.33	-0.71	HCUP	2016
Obstetric trauma per 1,000 instrument-assisted deliveries	-8.02	-1.99	HCUP	2016
Obstetric trauma per 1,000 vaginal deliveries without instrument assistance	-3.39	-0.94	HCUP	2016
Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults	-1.20	-0.14	HCUP	2016
Birth trauma - injury to neonate per 1,000 selected live births	-0.21	-0.03	HCUP	2016
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults	4.76	0.78	HCUP	2016
Deaths per 1,000 hospital admissions with expected low-mortality	4.76	0.45	HCUP	2016
Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions	7.09	3.04	HCUP	2016
Postoperative hemorrhage or hematoma with surgical drainage or evacuation per 1,000 surgical hospital discharges, adults	7.21	1.74	HCUP	2016
Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults	7.77	1.58	HCUP	2016
Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults	9.52	1.41	HCUP	2016
Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults	9.89	1.94	HCUP	2016
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	24.25	1.22	MEPS	2016
Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults	28.57	0.89	HCUP	2016
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children	37.93	1.94	HCUP	2016
Adults with limited English proficiency who had a usual source of care	-17.13	-1.36	MEPS	2016
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	-10.64	-0.94	MEPS	2016
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	-1.87	-0.14	MEPS	2016

Measures for Medium Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Adults with limited English proficiency and usual source of care (USC) and the USC had language assistance	-1.33	-0.03	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	1.23	0.46	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	3.78	1.23	MEPS	2016
Adults who had a doctor's office or clinic 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	3.82	0.56	MEPS	2016
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	10.08	0.64	MEPS	2016
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	10.70	0.80	MEPS	2016
Rating of healthcare 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	14.44	1.20	MEPS	2016

Measures for Medium Metro Worse Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
HIV infection deaths per 100,000 population	33.33	14.14	NVSS_M	2016
Suicide deaths among persons age 12 and over per 100,000 population	20.27	13.42	NVSS_M	2016
Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over	19.07	4.61	HCUP	2016
Children ages 0-17 with wellness checkup in the past 12 months	39.82	3.17	NHIS	2017
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	29.41	4.90	NVSS_L	2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	23.41	2.75	MEPS	2016
Women ages 21-65 who received a Pap smear in the last 3 years	22.22	2.18	NHIS	2015
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	16.42	2.66	MEPS	2016
Children over 80 lb for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	15.84	2.24	MEPS	2016
Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults	41.82	3.59	HCUP	2016

Small Metropolitan vs. Large Fringe Metropolitan

Measures for Small Metro Better Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	-31.61	-2.08	MEPS	2016
Hospital admissions for asthma per 100,000 population, adults ages 18-39	-29.17	-4.17	HCUP	2016
Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years	-26.86	-2.37	HCUP	2016
Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over	-15.57	-2.46	HCUP	2016
Hospital admissions for hypertension per 100,000 population, adults age 18 and over	-14.48	-2.01	HCUP	2016
Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over	-17.76	-2.30	HCUP	2016
Obstetric trauma per 1,000 instrument-assisted deliveries	-16.39	-3.74	HCUP	2016
Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults	-12.08	-3.03	HCUP	2016
Obstetric trauma per 1,000 vaginal deliveries without instrument assistance	-10.73	-2.97	HCUP	2016

Measures for Small Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-16.05	-0.99	MEPS	2016
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	2.29	0.19	MEPS	2016
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	3.65	0.38	MEPS	2015
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	4.53	0.52	MEPS	2016
Hospital admissions for asthma per 100,000 population, children ages 2-17	-18.27	-1.60	HCUP	2016
Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults	-10.75	-1.52	HCUP	2016
Hospital admissions for long-term complications of diabetes per 100,000 population, adults	-10.30	-1.53	HCUP	2016
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-8.90	-0.81	MEPS	2016
Hospital admissions for dehydration per 100,000 population, adults age 18 and over	-5.70	-0.83	HCUP	2016
Emergency department encounters for asthma, children ages 2-17	-5.19	-0.31	HCUP_NEDS	2016

Measures for Small Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over	0.09	0.01	HCUP	2016
Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over	2.05	0.30	HCUP	2016
Emergency department visits with a principal diagnosis related to substance abuse only, per 100,000 population	2.72	0.19	HCUP_NEDS	2016
Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17	3.51	0.21	HCUP	2016
Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes	6.22	0.82	HCUP	2016
Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years	8.21	0.65	HCUP	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, adults	9.93	3.92	HCUP	2016
Composite measure: Emergency department visits with a principal diagnosis related to co-occurring of mental health, alcohol and substance abuse, per 100,000 population	10.88	0.63	HCUP_NEDS	2016
Hospital admissions for short-term complications of diabetes per 100,000 population, adults	14.63	1.72	HCUP	2016
Emergency department visits with a principal diagnosis related to mental health only per 100,000 population	26.55	1.75	HCUP_NEDS	2016
Emergency department encounters for asthma, adults	27.56	1.77	HCUP_NEDS	2016
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	-16.74	-0.66	MEPS	2016
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	-11.65	-1.85	MEPS	2016
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-8.41	-0.50	MEPS	2016
Hospital admissions for congestive heart failure per 100,000 population	-8.01	-1.22	HCUP	2016
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	-6.09	-0.34	MEPS	2016
Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair	-1.97	-0.19	HCUP	2016
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-1.82	-0.15	NSDUH	2016
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	-0.07	.	HCUP	2016

Measures for Small Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
HIV infection deaths per 100,000 population	0.00	0.00	NVSS_M	2016
People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months	0.75	0.38	NSDUH	2016
Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI)	1.86	0.60	HCUP	2016
Breast cancer deaths per 100,000 female population per year	3.54	1.94	NVSS_M	2016
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	6.05	0.75	NSDUH	2016
Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over	7.39	1.46	HCUP	2016
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	7.80	0.83	NHIS	2017
Deaths per 1,000 adult hospital admissions with pneumonia	8.27	1.94	HCUP	2016
Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over	14.73	1.83	HCUP	2016
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	15.47	0.96	MEPS	2016
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	-6.73	-0.84	MEPS	2016
Adults with a dental visit in the calendar year	-4.17	-0.99	MEPS	2016
Adults who had a preventive dental service in the calendar year	-3.81	-0.83	MEPS	2016
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	2.15	0.11	MEPS	2016
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	2.92	0.44	MEPS	2016
Live-born infants with low birth weight (less than 2,500 g)	3.80	10.61	NVSS_N	2017
Children ages 3-5 who ever had their vision checked by a health provider	4.92	0.23	MEPS	2016
Children ages 2-17 who had a preventive dental service in the calendar year	5.43	0.70	MEPS	2016
Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	6.51	0.58	MEPS	2016
Adults with obesity who ever received advice from a health professional to exercise more	8.43	1.08	MEPS	2016
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	8.74	1.06	MEPS	2016

Measures for Small Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
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	10.13	1.25	MEPS	2016
Women ages 50-74 who received a mammogram in the last 2 years	11.20	0.83	NHIS	2015
Children over 80 lb for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	12.28	1.30	MEPS	2016
Women ages 21-65 who received a Pap smear in the last 3 years	14.38	1.28	NHIS	2015
Children ages 2-17 who had a dental visit in the calendar year	14.72	1.65	MEPS	2016
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	15.62	1.16	NHIS	2017
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	22.07	1.78	MEPS	2016
Children 0-40 lb for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	39.60	1.86	MEPS	2016
Children who had their height and weight measured by a health provider within the past 2 years	55.32	1.53	MEPS	2016
Deaths per 1,000 hospital admissions with expected low-mortality	-4.76	-0.45	HCUP	2016
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	0.00	0.00	HCUP	2016
Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults	3.61	0.38	HCUP	2016
Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions	5.01	1.85	HCUP	2016
Postoperative hemorrhage or hematoma with surgical drainage or evacuation per 1,000 surgical hospital discharges, adults	7.21	1.48	HCUP	2016
Birth trauma - injury to neonate per 1,000 selected live births	7.71	0.99	HCUP	2016
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults	8.57	1.12	HCUP	2016
Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults	9.34	1.75	HCUP	2016
Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults	9.52	1.41	HCUP	2016
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	26.66	0.95	MEPS	2016

Measures for Small Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children	27.59	1.11	HCUP	2016
Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults	42.86	1.34	HCUP	2016
Adults with limited English proficiency who had a usual source of care	-21.19	-1.38	MEPS	2015
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	-13.92	-1.18	MEPS	2016
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	-13.83	-0.94	MEPS	2016
Adults who had a doctor's office or clinic 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	-1.91	-0.23	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-0.62	-0.19	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	2.77	0.78	MEPS	2016
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	6.33	0.29	MEPS	2016
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	6.71	0.41	MEPS	2016
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	13.45	0.62	MEPS	2016
Rating of healthcare 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	16.67	1.29	MEPS	2016

Measures for Small Metro Worse Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Hospitalizations and emergency department encounters for congestive heart failure	39.58	2.65	HCUP_NEDS	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children	10.89	2.29	HCUP	2016
Suicide deaths among persons age 12 and over per 100,000 population	30.41	14.23	NVSS_M	2016
Lung cancer deaths per 100,000 population per year	14.01	14.14	NVSS_M	2016
Deaths per 1,000 adult hospital admissions with congestive heart failure	12.13	3.05	HCUP	2016
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	11.07	2.47	NSDUH	2016

Colorectal cancer deaths per 100,000 population per year	10.61	6.26	NVSS_M	2016
Children ages 0-17 with wellness checkup in the past 12 months	53.98	3.67	NHIS	2017
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	52.94	8.83	NVSS_L	2016
Adults who received a blood cholesterol measurement in the last 5 years	46.36	3.80	NHIS	2017
Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults	47.27	2.91	HCUP	2016
Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults	12.75	2.08	HCUP	2016

Micropolitan vs. Large Fringe Metropolitan

Measures for Micropolitan Better Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-31.28	-2.02	MEPS	2016
Hospital admissions for asthma per 100,000 population, adults ages 18-39	-28.39	-4.62	HCUP	2016
Hospital admissions for asthma per 100,000 population, children ages 2-17	-26.66	-2.70	HCUP	2016
Hospital admissions for hypertension per 100,000 population, adults age 18 and over	-14.48	-2.49	HCUP	2016
Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over	-26.97	-4.52	HCUP	2016
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	-25.00	-2.12	HCUP	2016
Obstetric trauma per 1,000 instrument-assisted deliveries	-20.31	-5.04	HCUP	2016
Obstetric trauma per 1,000 vaginal deliveries without instrument assistance	-18.08	-5.00	HCUP	2016
Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults	-11.52	-2.88	HCUP	2016
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	-26.58	-2.26	MEPS	2016

Measures for Micropolitan Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	-20.00	-0.91	MEPS	2016
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-7.10	-0.48	MEPS	2016
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	-1.84	-0.21	MEPS	2016

Appendix A: List of Measures and Summary of Results for Figures

Measures for Micropolitan Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	14.29	1.29	MEPS	2016
Emergency department encounters for asthma, children ages 2-17	-16.89	-1.27	HCUP_NEDS	2016
Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years	-16.00	-1.41	HCUP	2016
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-12.57	-1.09	MEPS	2016
Emergency department visits with a principal diagnosis related to substance abuse only, per 100,000 population	-11.11	-1.13	HCUP_NEDS	2016
Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults	-1.97	-0.35	HCUP	2016
Hospital admissions for long-term complications of diabetes per 100,000 population, adults	-1.52	-0.30	HCUP	2016
Composite measure: Emergency department visits with a principal diagnosis related to co-occurring of mental health, alcohol and substance abuse, per 100,000 population	3.19	0.25	HCUP_NEDS	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children	5.11	1.15	HCUP	2016
Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17	6.14	0.40	HCUP	2016
Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over	7.38	1.39	HCUP	2016
Hospital admissions for dehydration per 100,000 population, adults age 18 and over	8.49	1.63	HCUP	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, adults	9.66	3.94	HCUP	2016
Emergency department encounters for asthma, adults	14.27	1.24	HCUP_NEDS	2016
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-20.43	-1.52	MEPS	2016
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-9.75	-1.19	NSDUH	2016
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	-9.74	-0.51	MEPS	2016
Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair	-3.10	-0.30	HCUP	2016
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	-2.52	-0.45	NSDUH	2016

Measures for Micropolitan Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	-1.66	-0.10	MEPS	2016
Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over	-0.39	-0.09	HCUP	2016
People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months	-0.11	-0.05	NSDUH	2016
Breast cancer deaths per 100,000 female population per year	2.02	1.11	NVSS_M	2016
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	3.35	0.10	MEPS	2016
Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI)	3.93	1.27	HCUP	2016
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	5.25	1.32	MEPS	2016
Hospital admissions for congestive heart failure per 100,000 population	5.69	1.15	HCUP	2016
HIV infection deaths per 100,000 population	8.33	0.98	NVSS_M	2016
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	10.00	0.87	NSDUH	2016
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	13.12	1.31	NHIS	2017
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-7.36	-0.36	MEPS	2016
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	0.19	0.02	MEPS	2016
Live-born infants with low birth weight (less than 2,500 g)	6.33	17.68	NVSS_N	2017
Children 0-40 lb for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	6.93	0.27	MEPS	2016
Adults with a dental visit in the calendar year	9.89	2.80	MEPS	2016
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	10.33	1.64	MEPS	2016
Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	10.41	0.98	MEPS	2016
Children ages 2-17 who had a dental visit in the calendar year	14.72	1.62	MEPS	2016
Children over 80 lb for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	16.90	1.78	MEPS	2016
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	17.19	1.28	NHIS	2017

Appendix A: List of Measures and Summary of Results for Figures

Measures for Micropolitan Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Children ages 3-5 who ever had their vision checked by a health provider	22.95	0.93	MEPS	2016
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children	-3.45	-0.14	HCUP	2016
Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults	0.00	0.00	HCUP	2016
Postoperative hemorrhage or hematoma with surgical drainage or evacuation per 1,000 surgical hospital discharges, adults	2.70	0.60	HCUP	2016
Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions	7.44	2.75	HCUP	2016
Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults	13.25	1.28	HCUP	2016
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults	14.29	1.86	HCUP	2016
Deaths per 1,000 hospital admissions with expected low-mortality	19.05	1.26	HCUP	2016
Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults	42.86	1.34	HCUP	2016
Adults with limited English proficiency who had a usual source of care	-20.37	-1.16	MEPS	2016
Adults who had a doctor's office or clinic 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	-8.28	-0.89	MEPS	2016
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	-3.19	-0.20	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	0.29	0.10	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	3.33	1.06	MEPS	2016
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	9.98	0.49	MEPS	2016
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	13.03	0.46	MEPS	2016
Rating of healthcare 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	31.11	1.73	MEPS	2016

Measures for Micropolitan Worse Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Emergency department visits with a principal diagnosis related to dental conditions	117.92	9.31	HCUP_NEDS	2016
Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over	46.85	7.93	HCUP	2016
Hospitalizations and emergency department encounters for congestive heart failure	45.84	4.38	HCUP_NEDS	2016
Emergency department visits with a principal diagnosis related to mental health only per 100,000 population	35.80	3.19	HCUP_NEDS	2016
Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over	24.56	4.19	HCUP	2016
Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years	24.15	2.13	HCUP	2016
Hospital admissions for short-term complications of diabetes per 100,000 population, adults	22.65	3.99	HCUP	2016
Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes	18.26	2.93	HCUP	2016
Suicide deaths among persons age 12 and over per 100,000 population	41.22	19.29	NVSS_M	2016
Lung cancer deaths per 100,000 population per year	25.55	25.79	NVSS_M	2016
Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over	18.75	2.23	HCUP	2016
Colorectal cancer deaths per 100,000 population per year	16.67	9.84	NVSS_M	2016
Deaths per 1,000 adult hospital admissions with congestive heart failure	13.24	3.60	HCUP	2016
Deaths per 1,000 adult hospital admissions with pneumonia	10.63	2.70	HCUP	2016
Children ages 0-17 with wellness checkup in the past 12 months	94.69	4.68	NHIS	2017
Children who had their height and weight measured by a health provider within the past 2 years	91.49	2.18	MEPS	2016
Adults who received a blood cholesterol measurement in the last 5 years	70.00	6.15	NHIS	2017
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	58.82	9.81	NVSS_L	2016
Women ages 50-74 who received a mammogram in the last 2 years	43.20	3.48	NHIS	2015
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	41.14	2.61	MEPS	2016
Women ages 21-65 who received a Pap smear in the last 3 years	36.60	2.97	NHIS	2015
Adults with obesity who ever received advice from a health professional to exercise more	24.16	2.83	MEPS	2016
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	24.09	2.34	MEPS	2016

Measures for Micropolitan Worse Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
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	19.53	2.52	MEPS	2016
Children ages 2-17 who had a preventive dental service in the calendar year	13.57	2.00	MEPS	2016
Adults who had a preventive dental service in the calendar year	10.23	2.23	MEPS	2016
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	65.26	2.77	MEPS	2016
Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults	40.00	2.46	HCUP	2016
Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults	20.12	3.46	HCUP	2016
Birth trauma - injury to neonate per 1,000 selected live births	17.13	2.25	HCUP	2016
Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults	11.54	1.99	HCUP	2016
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	37.55	2.17	MEPS	2016

Noncore vs. Large Fringe Metropolitan

Measures for Noncore Better Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Hospital admissions for asthma per 100,000 population, children ages 2-17	-35.05	-3.48	HCUP	2016
Hospital admissions for asthma per 100,000 population, adults ages 18-39	-31.77	-5.17	HCUP	2016
Emergency department visits with a principal diagnosis related to substance abuse only, per 100,000 population	-30.34	-3.28	HCUP_NEDS	2016
Composite measure: Emergency department visits with a principal diagnosis related to co-occurring of mental health, alcohol and substance abuse, per 100,000 population	-25.63	-2.30	HCUP_NEDS	2016
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-27.58	-2.36	NSDUH	2016
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	-13.37	-2.08	NSDUH	2015
Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over	-26.02	-4.41	HCUP	2016
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	-25.00	-2.12	HCUP	2016
Obstetric trauma per 1,000 instrument-assisted deliveries	-22.76	-4.95	HCUP	2016
Obstetric trauma per 1,000 vaginal deliveries without instrument assistance	-18.08	-4.44	HCUP	2016

Measures for Noncore Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	13.71	1.01	MEPS	2016
Emergency department encounters for asthma, children ages 2-17	-18.90	-1.44	HCUP_NEDS	2016
Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years	-14.00	-1.13	HCUP	2016
Hospital admissions for hypertension per 100,000 population, adults age 18 and over	-10.29	-1.81	HCUP	2016
Hospital admissions for long-term complications of diabetes per 100,000 population, adults	4.92	0.86	HCUP	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children	6.53	1.44	HCUP	2016
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	6.81	0.38	MEPS	2016
Emergency department encounters for asthma, adults	9.52	0.91	HCUP_NEDS	2016
Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17	17.98	1.09	HCUP	2016
Emergency department visits with a principal diagnosis related to mental health only per 100,000 population	19.49	1.89	HCUP_NEDS	2016
HIV infection deaths per 100,000 population	-8.33	-0.98	NVSS_M	2016
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-7.09	-0.75	NHIS	2017
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-5.55	-0.59	NSDUH	2016
People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months	-5.17	-1.44	NSDUH	2016
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	-1.40	.	HCUP	2016
Emergency department visits involving opioid-related diagnoses per 100,000 population	-0.77	.	HCUP_NEDS	2016
Breast cancer deaths per 100,000 female population per year	3.54	1.57	NVSS_M	2016
Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI)	6.82	1.89	HCUP	2016
Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over	7.00	1.47	HCUP	2016
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	7.43	1.40	MEPS	2016

Measures for Noncore Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over	7.59	0.94	HCUP	2016
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	7.93	0.44	MEPS	2016
Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair	13.80	1.10	HCUP	2016
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	18.28	1.05	MEPS	2016
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	24.93	1.33	MEPS	2016
Live-born infants with low birth weight (less than 2,500 g)	5.06	3.92	NVSS_N	2017
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	8.77	0.92	MEPS	2016
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	9.91	0.64	MEPS	2016
Adults with obesity who ever received advice from a health professional to exercise more	17.42	1.40	MEPS	2016
Children ages 2-17 who had a dental visit in the calendar year	17.76	1.83	MEPS	2016
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	18.71	0.79	MEPS	2016
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	29.69	1.36	NHIS	2017
Children who had their height and weight measured by a health provider within the past 2 years	74.47	1.44	MEPS	2016
Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults	-6.74	-1.60	HCUP	2016
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children	0.00	0.00	HCUP	2016
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults	5.71	0.67	HCUP	2016
Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions	5.73	2.12	HCUP	2016
Postoperative hemorrhage or hematoma with surgical drainage or evacuation per 1,000 surgical hospital discharges, adults	6.76	1.29	HCUP	2016
Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults	13.25	1.07	HCUP	2016

Measures for Noncore Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults	14.29	1.34	HCUP	2016
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	36.31	1.20	MEPS	2016
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	-23.40	-1.49	MEPS	2016
Adults with limited English proficiency who had a usual source of care	-9.82	-0.38	MEPS	2015
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	-5.06	-0.31	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	0.37	0.10	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	3.49	0.80	MEPS	2016
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	4.15	0.17	MEPS	2016
Adults who had a doctor's office or clinic 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	5.10	0.50	MEPS	2016
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	14.66	0.60	MEPS	2016
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	32.77	1.07	MEPS	2016
Rating of healthcare 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	33.33	1.37	MEPS	2016

Measures for Noncore Worse Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over	115.23	16.11	HCUP	2016
Hospitalizations and emergency department encounters for congestive heart failure	71.92	5.59	HCUP_NEDS	2016
Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over	50.18	7.48	HCUP	2016
Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over	45.08	7.60	HCUP	2016
Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years	37.20	3.11	HCUP	2016

Appendix A: List of Measures and Summary of Results for Figures

Measures for Noncore Worse Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes	28.22	3.70	HCUP	2016
Hospital admissions for dehydration per 100,000 population, adults age 18 and over	21.66	3.95	HCUP	2016
Hospital admissions for short-term complications of diabetes per 100,000 population, adults	16.63	2.78	HCUP	2016
Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults	13.38	2.21	HCUP	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, adults	11.41	4.72	HCUP	2016
Suicide deaths among persons age 12 and over per 100,000 population	54.73	19.65	NVSS_M	2016
Lung cancer deaths per 100,000 population per year	32.42	26.39	NVSS_M	2016
Colorectal cancer deaths per 100,000 population per year	25.76	10.75	NVSS_M	2016
Deaths per 1,000 adult hospital admissions with pneumonia	20.47	4.81	HCUP	2016
Deaths per 1,000 adult hospital admissions with congestive heart failure	20.22	5.08	HCUP	2016
Hospital admissions for congestive heart failure per 100,000 population	15.73	2.96	HCUP	2016
Children ages 0-17 with wellness checkup in the past 12 months	84.96	3.89	NHIS	2017
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	82.35	13.73	NVSS_L	2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	79.26	3.08	MEPS	2016
Adults who received a blood cholesterol measurement in the last 5 years	78.18	4.77	NHIS	2017
Women ages 21-65 who received a Pap smear in the last 3 years	69.93	3.72	NHIS	2015
Women ages 50-74 who received a mammogram in the last 2 years	58.80	4.49	NHIS	2015
Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	41.08	2.92	MEPS	2016
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	37.07	3.01	MEPS	2016
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	36.46	2.83	MEPS	2016
Adults with a dental visit in the calendar year	21.95	5.38	MEPS	2016
Adults who had a preventive dental service in the calendar year	21.49	4.39	MEPS	2016
Children ages 2-17 who had a preventive dental service in the calendar year	19.96	2.24	MEPS	2016
Deaths per 1,000 hospital admissions with expected low-mortality	104.76	3.62	HCUP	2016

Measures for Noncore Worse Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults	90.91	4.27	HCUP	2016
Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults	71.43	2.24	HCUP	2016
Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults	27.49	4.25	HCUP	2016
Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults	20.60	3.29	HCUP	2016
Birth trauma - injury to neonate per 1,000 selected live births	18.63	2.19	HCUP	2016

Measures included in Figure 139. Number and percentage of all quality measures that were improving, not changing, or worsening, by residence location, from 2002 through 2011, 2014, 2015, 2016, or 2017

Large Central Metro Improving

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
HIV infection deaths per 100,000 population	-9.01	0.004	0	NVSS_M	13 (2004-2016)
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	-5.94	0.014	0.002	MEPS	15 (2002-2016)
Children who had their height and weight measured by a health provider within the past 2 years	-5.48	0.005	0	MEPS	15 (2002-2016)
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	-4.97	0.007	0	MEPS	15 (2002-2016)
Children ages 0-17 with wellness checkup in the past 12 months	-4.63	0.008	0.001	NHIS	9 (2009-2017)
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	-4.56	0.005	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic 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	-4.48	0.007	0.003	MEPS	6 (2011-2016)
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	-4.09	0.004	0	MEPS	15 (2002-2016)
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	-3.97	0.004	0	MEPS	15 (2002-2016)
Children ages 3-5 who ever had their vision checked by a health provider	-3.67	0.005	0	MEPS	15 (2002-2016)
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	-3.56	0.003	0	MEPS	15 (2002-2016)
Adults age 65 and over who ever received pneumococcal vaccination	-3.26	0.01	0.019	NHIS	7 (2005-2011)
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	-3.2	0.004	0	MEPS	15 (2002-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Lung cancer deaths per 100,000 population per year	-3.04	0.001	0	NVSS_M	13 (2004-2016)
Colorectal cancer deaths per 100,000 population per year	-2.44	0.001	0	NVSS_M	13 (2004-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-2.4	0.003	0	MEPS	15 (2002-2016)
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	-2.19	0.008	0.017	MEPS	15 (2002-2016)
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	-1.98	0.002	0	MEPS	15 (2002-2016)
Breast cancer deaths per 100,000 female population per year	-1.76	0	0	NVSS_M	13 (2004-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-1.75	0.005	0.032	MEPS	6 (2011-2016)
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	-1.73	0.004	0.002	MEPS	15 (2002-2016)
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-1.6	0.008	0.094	NHIS	9 (2009-2017)
Adults with obesity who ever received advice from a health professional to exercise more	-1.47	0.002	0	MEPS	15 (2002-2016)
Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-1.38	0.006	0.063	NHIS	7 (2005-2011)
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	-1.25	0.003	0	MEPS	15 (2002-2016)
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-1.2	0.006	0.087	NSDUH	8 (2009-2016)
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-1.06	0.004	0.032	MEPS	15 (2002-2016)

Large Central Metro Not Changing

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults age 65 and over who received an influenza vaccination in the last flu season	-2.97	0.018	0.154	NHIS	7 (2005-2011)
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-1.21	0.01	0.268	NSDUH	8 (2009-2016)
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-0.98	0.005	0.092	MEPS	15 (2002-2016)
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-0.96	0.003	0.034	NVSS_L	7 (2010-2016)
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-0.94	0.03	0.784	NHIS	10 (2008-2017)
Children ages 2-17 who had a dental visit in the calendar year	-0.9	0.002	0.001	MEPS	15 (2002-2016)
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	-0.84	0.002	0	MEPS	15 (2002-2016)
Children ages 2-17 who had a preventive dental service in the calendar year	-0.84	0.002	0.001	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-0.83	0.008	0.358	MEPS	9 (2008-2016)
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	-0.8	0.002	0.004	MEPS	15 (2002-2016)
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	-0.46	0.002	0.048	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-0.42	0.002	0.111	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-0.37	0.002	0.161	MEPS	6 (2011-2016)
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-0.3	0.004	0.419	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-0.14	0.007	0.841	MEPS	15 (2002-2016)
Women ages 50-74 who received a mammogram in the last 2 years	-0.12	0.004	0.807	NHIS	11 (2005-2015)
Live-born infants with low birth weight (less than 2,500 g)	-0.03	0.001	0.791	NVSS_N	11 (2007-2017)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	-0.02	0.002	0.922	MEPS	15 (2002-2016)
Adults with a dental visit in the calendar year	0.04	0.001	0.673	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	0.2	0.004	0.593	MEPS	15 (2002-2016)
Adults who had a preventive dental service in the calendar year	0.32	0.001	0.036	MEPS	15 (2002-2016)
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	0.56	0.009	0.54	MEPS	15 (2002-2016)
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	0.6	0.001	0.001	MEPS	14 (2003-2016)
Suicide deaths among persons age 12 and over per 100,000 population	0.73	0.002	0.002	NVSS_M	9 (2008-2016)
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	0.91	0.009	0.343	MEPS	15 (2002-2016)

Large Central Metro Worsening

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	1.02	0.003	0.004	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	1.65	0.007	0.038	MEPS	15 (2002-2016)
Women ages 21-65 who received a Pap smear in the last 3 years	2.61	0.002	0.001	NHIS	11 (2005-2015)
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	3.02	0.008	0.004	HCUP	12 (2005-2016)
Emergency department visits involving opioid-related diagnoses per 100,000 population	10.92	0.009	0	HCUP_NED S	12 (2005-2016)

Large Fringe Metro Improving

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
HIV infection deaths per 100,000 population	-8.23	0.004	0	NVSS_M	13 (2004-2016)
Children who had their height and weight measured by a health provider within the past 2 years	-6.2	0.006	0	MEPS	15 (2002-2016)
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	-5.73	0.015	0.007	MEPS	15 (2002-2016)
Children ages 0-17 with wellness checkup in the past 12 months	-4.73	0.011	0.005	NHIS	9 (2009-2017)
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	-4.09	0.007	0	MEPS	15 (2002-2016)
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	-4.08	0.004	0	MEPS	15 (2002-2016)
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	-3.9	0.003	0	MEPS	15 (2002-2016)
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	-3.8	0.004	0	MEPS	15 (2002-2016)
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	-3.37	0.003	0	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-3.2	0.003	0	MEPS	15 (2002-2016)
Lung cancer deaths per 100,000 population per year	-2.85	0.001	0	NVSS_M	13 (2004-2016)
Colorectal cancer deaths per 100,000 population per year	-2.83	0.001	0	NVSS_M	13 (2004-2016)
Children ages 3-5 who ever had their vision checked by a health provider	-2.56	0.003	0	MEPS	15 (2002-2016)
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	-2.53	0.003	0	MEPS	15 (2002-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults who had a doctor's office or clinic 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	-2.4	0.011	0.087	MEPS	6 (2011-2016)
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	-2.34	0.003	0	MEPS	15 (2002-2016)
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-2.19	0.007	0.019	NSDUH	8 (2009-2016)
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-2.12	0.006	0.003	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-2.01	0.002	0.001	MEPS	6 (2011-2016)
Adults age 65 and over who ever received pneumococcal vaccination	-1.97	0.006	0.018	NHIS	7 (2005-2011)
Breast cancer deaths per 100,000 female population per year	-1.96	0.001	0	NVSS_M	13 (2004-2016)
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	-1.79	0.007	0.029	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional to exercise more	-1.53	0.002	0	MEPS	15 (2002-2016)
Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-1.5	0.004	0.017	NHIS	7 (2005-2011)
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	-1.28	0.005	0.019	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-1.21	0.003	0.011	MEPS	6 (2011-2016)
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	-1.17	0.003	0.001	MEPS	15 (2002-2016)
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	-1.09	0.003	0.001	MEPS	15 (2002-2016)

Large Fringe Metro Not Changing

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults age 65 and over who received an influenza vaccination in the last flu season	-2.1	0.017	0.275	NHIS	7 (2005-2011)
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-1.73	0.011	0.173	NSDUH	8 (2009-2016)
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	-0.73	0.003	0.032	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-0.58	0.004	0.145	MEPS	15 (2002-2016)
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	-0.56	0.002	0.005	MEPS	15 (2002-2016)
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-0.44	0.007	0.508	MEPS	15 (2002-2016)
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-0.41	0.004	0.363	NVSS_L	7 (2010-2016)
Children ages 2-17 who had a preventive dental service in the calendar year	-0.24	0.002	0.198	MEPS	15 (2002-2016)
Children ages 2-17 who had a dental visit in the calendar year	-0.18	0.002	0.391	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-0.17	0.004	0.685	MEPS	15 (2002-2016)
Live-born infants with low birth weight (less than 2,500 g)	-0.11	0.001	0.326	NVSS_N	11 (2007-2017)
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	0.35	0.005	0.488	MEPS	15 (2002-2016)
Adults with a dental visit in the calendar year	0.41	0.001	0.001	MEPS	15 (2002-2016)
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	0.46	0.004	0.33	NHIS	9 (2009-2017)
Women ages 50-74 who received a mammogram in the last 2 years	0.47	0.009	0.629	NHIS	11 (2005-2015)
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	0.49	0.004	0.216	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	0.5	0.005	0.354	MEPS	9 (2008-2016)
Adults who had a preventive dental service in the calendar year	0.67	0.001	0	MEPS	15 (2002-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	0.73	0.01	0.469	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	0.85	0.006	0.207	MEPS	15 (2002-2016)
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	1.22	0.019	0.584	NHIS	10 (2008-2017)
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	1.49	0.01	0.17	MEPS	15 (2002-2016)
Women ages 21-65 who received a Pap smear in the last 3 years	2.29	0.012	0.159	NHIS	11 (2005-2015)

Large Fringe Metro Worsening

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	1.6	0.002	0	MEPS	14 (2003-2016)
Suicide deaths among persons age 12 and over per 100,000 population	1.74	0.002	0	NVSS_M	9 (2008-2016)
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	2.04	0.003	0	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	2.29	0.006	0.003	MEPS	15 (2002-2016)
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	7.56	0.006	0	HCUP	12 (2005-2016)
Emergency department visits involving opioid-related diagnoses per 100,000 population	9.38	0.012	0	HCUP_NED S	12 (2005-2016)

Medium Metro Improving

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
HIV infection deaths per 100,000 population	-6.95	0.004	0	NVSS_M	13 (2004-2016)
Children ages 0-17 with wellness checkup in the past 12 months	-5.22	0.01	0.002	NHIS	9 (2009-2017)
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	-4.24	0.006	0	MEPS	15 (2002-2016)
Children who had their height and weight measured by a health provider within the past 2 years	-3.95	0.01	0.001	MEPS	15 (2002-2016)
Adults age 65 and over who ever received pneumococcal vaccination	-3.44	0.007	0.004	NHIS	7 (2005-2011)
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	-3.36	0.008	0.001	MEPS	15 (2002-2016)
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	-2.99	0.006	0	MEPS	15 (2002-2016)
Adults age 65 and over who received an influenza vaccination in the last flu season	-2.9	0.011	0.048	NHIS	7 (2005-2011)
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	-2.79	0.005	0	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-2.67	0.004	0	MEPS	15 (2002-2016)
Lung cancer deaths per 100,000 population per year	-2.64	0.001	0	NVSS_M	13 (2004-2016)
Children ages 3-5 who ever had their vision checked by a health provider	-2.56	0.005	0	MEPS	15 (2002-2016)
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	-2.41	0.006	0.001	MEPS	15 (2002-2016)
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	-2.34	0.006	0.001	MEPS	15 (2002-2016)
Colorectal cancer deaths per 100,000 population per year	-2.3	0.001	0	NVSS_M	13 (2004-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
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	-2.13	0.003	0	MEPS	15 (2002-2016)
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	-1.69	0.003	0	MEPS	15 (2002-2016)
Breast cancer deaths per 100,000 female population per year	-1.65	0.001	0	NVSS_M	13 (2004-2016)
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-1.55	0.006	0.027	MEPS	15 (2002-2016)
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-1.53	0.005	0.01	MEPS	15 (2002-2016)
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	-1.49	0.004	0.002	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional to exercise more	-1.22	0.003	0.001	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-1.21	0.003	0.017	MEPS	6 (2011-2016)
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	-1.04	0.004	0.016	MEPS	15 (2002-2016)
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	-1.01	0.003	0.007	MEPS	15 (2002-2016)

Medium Metro Not Changing

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
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	-5.04	0.033	0.156	MEPS	10 (2002-2011)
Adults who had a doctor's office or clinic 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	-1.6	0.01	0.165	MEPS	6 (2011-2016)

Appendix A: List of Measures and Summary of Results for Figures

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-0.95	0.002	0.002	NHIS	7 (2005-2011)
Children ages 2-17 who had a dental visit in the calendar year	-0.89	0.003	0.015	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-0.8	0.003	0.028	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-0.79	0.002	0.026	MEPS	6 (2011-2016)
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-0.74	0.003	0.078	NSDUH	8 (2009-2016)
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	-0.69	0.005	0.161	MEPS	15 (2002-2016)
Children ages 2-17 who had a preventive dental service in the calendar year	-0.68	0.003	0.019	MEPS	15 (2002-2016)
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	-0.65	0.002	0.015	MEPS	15 (2002-2016)
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-0.57	0.005	0.276	MEPS	15 (2002-2016)
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	-0.47	0.003	0.151	MEPS	15 (2002-2016)
Women ages 50-74 who received a mammogram in the last 2 years	-0.44	0.011	0.716	NHIS	11 (2005-2015)
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-0.4	0.003	0.182	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-0.39	0.012	0.756	MEPS	9 (2008-2016)
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-0.31	0.006	0.647	NVSS_L	7 (2010-2016)
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	-0.27	0.005	0.592	MEPS	15 (2002-2016)
Live-born infants with low birth weight (less than 2,500 g)	0.03	0.001	0.749	NVSS_N	11 (2007-2017)
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	0.06	0.006	0.923	MEPS	15 (2002-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	0.2	0.012	0.876	NHIS	9 (2009-2017)
Adults with a dental visit in the calendar year	0.28	0.001	0.024	MEPS	15 (2002-2016)
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	0.31	0.027	0.919	NHIS	10 (2008-2017)
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	0.56	0.006	0.379	MEPS	15 (2002-2016)
Adults who had a preventive dental service in the calendar year	0.58	0.001	0	MEPS	15 (2002-2016)
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	0.82	0.002	0.005	MEPS	14 (2003-2016)
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	0.85	0.007	0.231	MEPS	15 (2002-2016)
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	0.93	0.013	0.486	MEPS	15 (2002-2016)

Medium Metro Worsening

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	2.17	0.011	0.093	NSDUH	8 (2009-2016)
Suicide deaths among persons age 12 and over per 100,000 population	2.58	0.001	0	NVSS_M	9 (2008-2016)
Women ages 21-65 who received a Pap smear in the last 3 years	2.98	0.012	0.099	NHIS	11 (2005-2015)
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	8.08	0.008	0	HCUP	12 (2005-2016)
Emergency department visits involving opioid-related diagnoses per 100,000 population	10.21	0.006	0	HCUP_NED S	12 (2005-2016)

Small Metro Improving

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined	-13.81	0.012	0	NCDB	10 (2005-2014)
Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	-7.19	0.014	0.001	NCDB	10 (2005-2014)
HIV infection deaths per 100,000 population	-6.34	0.004	0	NVSS_M	13 (2004-2016)
Children who had their height and weight measured by a health provider within the past 2 years	-5.44	0.018	0.009	MEPS	15 (2002-2016)
Children ages 0-17 with wellness checkup in the past 12 months	-4.77	0.01	0.003	NHIS	9 (2009-2017)
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	-4.59	0.011	0.001	MEPS	15 (2002-2016)
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)	-4.48	0.013	0.009	NCDB	10 (2005-2014)
Adults who had a doctor's office or clinic 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	-4.14	0.015	0.052	MEPS	6 (2011-2016)
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	-3.29	0.008	0.001	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-3.27	0.005	0	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-3.15	0.006	0	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-3.09	0.014	0.061	MEPS	9 (2008-2016)
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	-2.76	0.003	0	MEPS	15 (2002-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-2.55	0.011	0.047	MEPS	14 (2002-2015)
Lung cancer deaths per 100,000 population per year	-2.5	0.001	0	NVSS_M	13 (2004-2016)
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	-2.5	0.01	0.024	MEPS	15 (2002-2016)
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	-2.47	0.006	0.002	MEPS	15 (2002-2016)
Children ages 3-5 who ever had their vision checked by a health provider	-2.25	0.008	0.014	MEPS	15 (2002-2016)
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	-2.17	0.003	0	MEPS	15 (2002-2016)
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-2.08	0.004	0	MEPS	15 (2002-2016)
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	-2.07	0.011	0.081	MEPS	15 (2002-2016)
Colorectal cancer deaths per 100,000 population per year	-1.81	0.001	0	NVSS_M	13 (2004-2016)
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	-1.64	0.006	0.012	MEPS	15 (2002-2016)
Breast cancer deaths per 100,000 female population per year	-1.56	0.002	0	NVSS_M	13 (2004-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-1.54	0.002	0.002	MEPS	6 (2011-2016)
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	-1.52	0.003	0	MEPS	15 (2002-2016)
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	-1.33	0.007	0.073	MEPS	15 (2002-2016)

Small Metro Not Changing

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults age 65 and over who received an influenza vaccination in the last flu season	-1.26	0.019	0.527	NHIS	7 (2005-2011)
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	-1.21	0.014	0.389	MEPS	15 (2002-2016)
Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-1.12	0.007	0.153	NHIS	7 (2005-2011)
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	-1.08	0.007	0.126	MEPS	15 (2002-2016)
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	-0.96	0.004	0.037	MEPS	15 (2002-2016)
Children ages 2-17 who had a preventive dental service in the calendar year	-0.96	0.005	0.057	MEPS	15 (2002-2016)
Adults who had a doctor’s office or clinic in the last 12 months whose health providers always offered help in filling out forms	-0.91	0.004	0.107	MEPS	6 (2011-2016)
Children ages 2-17 who had a dental visit in the calendar year	-0.89	0.005	0.101	MEPS	15 (2002-2016)
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-0.76	0.005	0.183	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	-0.75	0.007	0.3	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional to exercise more	-0.56	0.003	0.049	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	-0.56	0.004	0.161	MEPS	15 (2002-2016)
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-0.49	0.023	0.849	NHIS	10 (2008-2017)
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-0.22	0.015	0.885	NHIS	9 (2009-2017)
Adults with a dental visit in the calendar year	-0.09	0.002	0.61	MEPS	15 (2002-2016)
Live-born infants with low birth weight (less than 2,500 g)	0.09	0.002	0.584	NVSS_N	11 (2007-2017)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
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	0.1	0.008	0.899	MEPS	15 (2002-2016)
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	0.12	0.013	0.928	NSDUH	8 (2009-2016)
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	0.15	0.003	0.562	MEPS	15 (2002-2016)
Adults who had a preventive dental service in the calendar year	0.19	0.002	0.334	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	0.36	0.009	0.682	MEPS	15 (2002-2016)
Adults age 65 and over who ever received pneumococcal vaccination	0.4	0.013	0.76	NHIS	7 (2005-2011)
Women ages 50-74 who received a mammogram in the last 2 years	0.67	0.011	0.603	NHIS	11 (2005-2015)
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	1.29	0.019	0.501	MEPS	15 (2002-2016)
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	1.4	0.013	0.312	NSDUH	8 (2009-2016)

Small Metro Worsening

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	1.09	0.005	0.045	MEPS	14 (2003-2016)
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	1.46	0.005	0.027	NVSS_L	7 (2010-2016)
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	1.72	0.005	0.002	MEPS	15 (2002-2016)
Suicide deaths among persons age 12 and over per 100,000 population	2.57	0.001	0	NVSS_M	9 (2008-2016)
Women ages 21-65 who received a Pap smear in the last 3 years	4.29	0.016	0.077	NHIS	11 (2005-2015)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	10.09	0.007	0	HCUP	12 (2005-2016)
Emergency department visits involving opioid-related diagnoses per 100,000 population	10.28	0.006	0	HCUP_NEDS	12 (2005-2016)

Micropolitan Improving

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined	-14.48	0.011	0	NCDB	10 (2005-2014)
Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	-7.59	0.01	0	NCDB	10 (2005-2014)
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)	-5.9	0.015	0.004	NCDB	10 (2005-2014)
HIV infection deaths per 100,000 population	-5.04	0.004	0	NVSS_M	13 (2004-2016)
Children ages 0-17 with wellness checkup in the past 12 months	-4.66	0.013	0.011	NHIS	9 (2009-2017)
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	-3.99	0.005	0	MEPS	15 (2002-2016)
Children who had their height and weight measured by a health provider within the past 2 years	-3.94	0.012	0.006	MEPS	15 (2002-2016)
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	-3.67	0.009	0.001	MEPS	15 (2002-2016)
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	-3.29	0.007	0	MEPS	15 (2002-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
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	-3.23	0.009	0.002	MEPS	15 (2002-2016)
Children ages 3-5 who ever had their vision checked by a health provider	-3.02	0.01	0.008	MEPS	15 (2002-2016)
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	-3	0.008	0.003	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-2.74	0.006	0.01	MEPS	6 (2011-2016)
Adults age 65 and over who ever received pneumococcal vaccination	-2.72	0.008	0.015	NHIS	7 (2005-2011)
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	-2.55	0.006	0.001	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-2.3	0.004	0	MEPS	15 (2002-2016)
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-2.07	0.006	0.004	MEPS	15 (2002-2016)
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	-1.98	0.007	0.017	MEPS	15 (2002-2016)
Lung cancer deaths per 100,000 population per year	-1.87	0.001	0	NVSS_M	13 (2004-2016)
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	-1.85	0.003	0	MEPS	15 (2002-2016)
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-1.75	0.008	0.046	MEPS	15 (2002-2016)
Colorectal cancer deaths per 100,000 population per year	-1.72	0.001	0	NVSS_M	13 (2004-2016)
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-1.51	0.005	0.014	MEPS	15 (2002-2016)
Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-1.47	0.005	0.038	NHIS	7 (2005-2011)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
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	-1.43	0.003	0.001	MEPS	15 (2002-2016)
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	-1.42	0.006	0.03	MEPS	15 (2002-2016)
Breast cancer deaths per 100,000 female population per year	-1.23	0.001	0	NVSS_M	13 (2004-2016)
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	-1.22	0.005	0.039	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional to exercise more	-1.06	0.004	0.018	MEPS	15 (2002-2016)

Micropolitan Not Changing

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults who had a doctor's office or clinic 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	-2.6	0.019	0.231	MEPS	6 (2011-2016)
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	-2.44	0.017	0.195	MEPS	10 (2002-2011)
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-1.72	0.016	0.304	MEPS	9 (2008-2016)
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-1.44	0.026	0.631	NHIS	10 (2008-2017)
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-1.3	0.01	0.217	MEPS	15 (2002-2016)
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-1.14	0.01	0.277	NSDUH	8 (2009-2016)
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-0.9	0.006	0.217	NVSS_L	7 (2010-2016)
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	-0.88	0.004	0.063	MEPS	15 (2002-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
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	-0.7	0.002	0.012	MEPS	15 (2002-2016)
Adults age 65 and over who received an influenza vaccination in the last flu season	-0.65	0.023	0.784	NHIS	7 (2005-2011)
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	-0.55	0.003	0.102	MEPS	15 (2002-2016)
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	-0.54	0.006	0.402	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-0.41	0.004	0.411	MEPS	6 (2011-2016)
Children ages 2-17 who had a preventive dental service in the calendar year	-0.37	0.003	0.237	MEPS	15 (2002-2016)
Children ages 2-17 who had a dental visit in the calendar year	-0.22	0.004	0.553	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-0.09	0.003	0.738	MEPS	15 (2002-2016)
Adults with a dental visit in the calendar year	-0.08	0.001	0.545	MEPS	15 (2002-2016)
Live-born infants with low birth weight (less than 2,500 g)	-0.08	0.001	0.611	NVSS_N	11 (2007-2017)
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	0.08	0.009	0.928	MEPS	15 (2002-2016)
Adults who had a preventive dental service in the calendar year	0.11	0.002	0.473	MEPS	15 (2002-2016)
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	0.22	0.019	0.914	NHIS	9 (2009-2017)
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	0.55	0.004	0.195	MEPS	15 (2002-2016)
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	0.95	0.013	0.493	NSDUH	8 (2009-2016)
Women ages 50-74 who received a mammogram in the last 2 years	1.22	0.013	0.407	NHIS	11 (2005-2015)
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	1.95	0.016	0.256	MEPS	15 (2002-2016)

Micropolitan Worsening

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	1.04	0.003	0.004	MEPS	14 (2003-2016)
Suicide deaths among persons age 12 and over per 100,000 population	2.61	0.001	0	NVSS_M	9 (2008-2016)
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	2.67	0.012	0.053	MEPS	15 (2002-2016)
Women ages 21-65 who received a Pap smear in the last 3 years	3.73	0.009	0.028	NHIS	11 (2005-2015)

Noncore Improving

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined	-13.73	0.014	0	NCDB	10 (2005-2014)
Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	-7.45	0.015	0.001	NCDB	10 (2005-2014)
HIV infection deaths per 100,000 population	-4.81	0.004	0	NVSS_M	13 (2004-2016)
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	-4.74	0.012	0.002	MEPS	15 (2002-2016)
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)	-4.71	0.016	0.019	NCDB	10 (2005-2014)
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	-3.85	0.01	0.002	MEPS	15 (2002-2016)
Children ages 0-17 with wellness checkup in the past 12 months	-3.7	0.013	0.03	NHIS	9 (2009-2017)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
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	-3.41	0.009	0.002	MEPS	15 (2002-2016)
Children who had their height and weight measured by a health provider within the past 2 years	-3.17	0.015	0.047	MEPS	15 (2002-2016)
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	-3.07	0.01	0.011	MEPS	15 (2002-2016)
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-3.05	0.009	0.004	MEPS	15 (2002-2016)
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	-2.19	0.011	0.068	MEPS	15 (2002-2016)
Adults age 65 and over who ever received pneumococcal vaccination	-2.03	0.006	0.014	NHIS	7 (2005-2011)
Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-1.95	0.007	0.038	NHIS	7 (2005-2011)
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	-1.74	0.004	0.001	MEPS	15 (2002-2016)
Lung cancer deaths per 100,000 population per year	-1.62	0.001	0	NVSS_M	13 (2004-2016)
Colorectal cancer deaths per 100,000 population per year	-1.41	0.001	0	NVSS_M	13 (2004-2016)
Adults with obesity who ever received advice from a health professional to exercise more	-1.32	0.004	0.004	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-1.31	0.006	0.04	MEPS	15 (2002-2016)
Breast cancer deaths per 100,000 female population per year	-1.22	0.001	0	NVSS_M	13 (2004-2016)

Noncore Not Changing

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults who had a doctor’s office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-2.02	0.01	0.12	MEPS	6 (2011-2016)
Adults who had a doctor’s office or clinic 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	-1.9	0.017	0.324	MEPS	6 (2011-2016)
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-1.75	0.021	0.445	NHIS	9 (2009-2017)
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	-1.7	0.015	0.261	MEPS	15 (2002-2016)
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	-1.65	0.011	0.151	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-1.57	0.019	0.426	MEPS	9 (2008-2016)
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	-1.11	0.008	0.183	MEPS	15 (2002-2016)
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-1.11	0.031	0.735	NSDUH	8 (2009-2016)
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-1.1	0.017	0.567	MEPS	5 (2002-2006)
People under age 65 whose family’s health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	-1.07	0.007	0.124	MEPS	15 (2002-2016)
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	-0.99	0.003	0.015	MEPS	13 (2002-2014)
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	-0.8	0.007	0.264	MEPS	15 (2002-2016)
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	-0.58	0.005	0.224	MEPS	15 (2002-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-0.35	0.01	0.722	MEPS	15 (2002-2016)
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	-0.31	0.003	0.323	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-0.31	0.003	0.38	MEPS	15 (2002-2016)
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-0.25	0.016	0.882	NSDUH	8 (2009-2016)
Live-born infants with low birth weight (less than 2,500 g)	-0.16	0.001	0.316	NVSS_N	11 (2007-2017)
Children ages 2-17 who had a dental visit in the calendar year	-0.03	0.004	0.941	MEPS	15 (2002-2016)
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	0.02	0.005	0.957	MEPS	15 (2002-2016)
Children ages 2-17 who had a preventive dental service in the calendar year	0.07	0.004	0.866	MEPS	15 (2002-2016)
Adults age 65 and over who received an influenza vaccination in the last flu season	0.22	0.017	0.902	NHIS	7 (2005-2011)
Adults with a dental visit in the calendar year	0.37	0.002	0.048	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	0.44	0.005	0.39	MEPS	6 (2011-2016)
Adults who had a preventive dental service in the calendar year	0.6	0.002	0.006	MEPS	15 (2002-2016)
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	0.88	0.008	0.3	MEPS	13 (2002-2014)
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	1.06	0.006	0.116	NVSS_L	7 (2010-2016)
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	1.5	0.02	0.542	NHIS	10 (2008-2017)
Women ages 50-74 who received a mammogram in the last 2 years	1.89	0.018	0.363	NHIS	11 (2005-2015)
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	3.37	0.02	0.132	MEPS	13 (2002-2014)

Noncore Worsening

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	1.27	0.002	0	MEPS	14 (2003-2016)
Suicide deaths among persons age 12 and over per 100,000 population	2.76	0.002	0	NVSS_M	9 (2008-2016)
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	3.1	0.008	0.012	MEPS	10 (2002-2011)
Women ages 21-65 who received a Pap smear in the last 3 years	4.07	0.006	0.005	NHIS	11 (2005-2015)
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	8.56	0.005	0	HCUP	12 (2005-2016)
Emergency department visits involving opioid-related diagnoses per 100,000 population	10.07	0.007	0	HCUP_NEDS	12 (2005-2016)

Measures Included in Figure 140. Number and percentage of quality measures with disparity at baseline for which disparities related to residence location were improving, not changing, or worsening, 2002 through 2011, 2014, 2015, 2016, or 2017

Large Central Metropolitan vs. Large Fringe Metropolitan

Disparities Between Large Central Metro and Large Fringe Metro Improving	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	13.263	7.218	HCUP	2005-2016

Disparities Between Large Central Metro and Large Fringe Metro Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	0.258	0.145	MEPS	2002-2016
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	0.126	-0.494	NHIS	2009-2017
HIV infection deaths per 100,000 population	-0.17	-0.476	NVSS_M	2004-2016
Adults age 65 and over who ever received pneumococcal vaccination	-0.768	-1.579	NHIS	2005-2011
Adults age 65 and over who received an influenza vaccination in the last flu season	-0.743	-1.214	NHIS	2005-2011
Children ages 0-17 with wellness checkup in the past 12 months	-0.677	-0.831	NHIS	2009-2017
Children who had their height and weight measured by a health provider within the past 2 years	-0.439	-0.579	MEPS	2002-2016
Children ages 2-17 who had a preventive dental service in the calendar year	-0.123	-0.534	MEPS	2002-2016
Children ages 2-17 who had a dental visit in the calendar year	-0.081	-0.484	MEPS	2002-2016
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	0.072	-0.083	NHIS	2008-2017
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-0.007	-0.018	NVSS_L	2010-2016
Adults with a dental visit in the calendar year	0.26	0.03	MEPS	2002-2016

Disparities Between Large Central Metro and Large Fringe Metro Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Adults who had a preventive dental service in the calendar year	0.367	0.199	MEPS	2002-2016
Women ages 21-65 who received a Pap smear in the last 3 years	0.332	0.464	NHIS	2005-2015
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	-0.451	-0.552	MEPS	2002-2016
Rating of healthcare 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	-0.289	-0.492	MEPS	2002-2016
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	-0.301	-0.424	MEPS	2002-2016
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	-0.259	-0.367	MEPS	2002-2016
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	-0.25	-0.3	MEPS	2002-2016
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	-0.267	-0.29	MEPS	2002-2016

Disparities Between Large Central Metro and Large Fringe Metro Worsening	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
None				

Medium Metropolitan vs. Large Fringe Metropolitan

Disparities Between Medium Metro and Large Fringe Metro Improving	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	0.466	-0.788	MEPS	2002-2016

Disparities Between Medium Metro and Large Fringe Metro Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-0.117	-0.535	MEPS	2002-2016
HIV infection deaths per 100,000 population	-0.17	-0.175	NVSS_M	2004-2016
Suicide deaths among persons age 12 and over per 100,000 population	0.237	0.415	NVSS_M	2008-2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-1.268	-1.216	MEPS	2002-2016
Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-0.71	-1.108	MEPS	2002-2016
Children ages 0-17 with wellness checkup in the past 12 months	-0.677	-0.968	NHIS	2009-2017
Women ages 50-74 who received a mammogram in the last 2 years	0.118	-0.135	NHIS	2005-2015
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-0.007	-0.007	NVSS_L	2010-2016

Disparities Between Medium Metro and Large Fringe Metro Worsening	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
None				

Small Metropolitan vs. Large Fringe Metropolitan

Disparities Between Small Metro and Large Fringe Metro Improving	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	0.466	-1.621	MEPS	2002-2016
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-0.117	-1.605	MEPS	2002-2015

Disparities Between Small Metro and Large Fringe Metro Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Suicide deaths among persons age 12 and over per 100,000 population	0.237	0.445	NVSS_M	2008-2016
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	-1.346	-1.833	MEPS	2002-2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-1.268	-1.607	MEPS	2002-2016
Children over 80 lb for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	-0.701	-1.538	MEPS	2002-2016
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	-0.335	-1.069	MEPS	2002-2016
Children ages 0-17 with wellness checkup in the past 12 months	-0.677	-0.995	NHIS	2009-2017
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	0.072	-0.041	NHIS	2008-2017
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-0.007	0.036	NVSS_L	2010-2016

Disparities Between Small Metro and Large Fringe Metro Worsening	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
None				

Micropolitan vs. Large Fringe Metropolitan

Disparities Between Micropolitan and Large Fringe Metro Improving	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
None				

Disparities Between Micropolitan and Large Fringe Metro Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	0.307	-0.101	MEPS	2002-2016

Disparities Between Micropolitan and Large Fringe Metro Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Lung cancer deaths per 100,000 population per year	-1.282	-0.991	NVSS_M	2004-2016
Suicide deaths among persons age 12 and over per 100,000 population	0.237	0.487	NVSS_M	2008-2016
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	-1.346	-1.31	MEPS	2002-2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-1.268	-1.255	MEPS	2002-2016
Children ages 0-17 with wellness checkup in the past 12 months	-0.677	-1.144	NHIS	2009-2017
Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-0.71	-1.039	MEPS	2002-2016
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	-0.335	-0.514	MEPS	2002-2016
Children who had their height and weight measured by a health provider within the past 2 years	-0.439	-0.452	MEPS	2002-2016
Children over 80 lb for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	-0.701	-0.405	MEPS	2002-2016
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	0.072	-0.121	NHIS	2008-2017
Adults with a dental visit in the calendar year	0.26	-0.055	MEPS	2002-2016
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-0.007	-0.025	NVSS_L	2010-2016
Adults who had a preventive dental service in the calendar year	0.367	0.07	MEPS	2002-2016
Women ages 50-74 who received a mammogram in the last 2 years	0.118	0.401	NHIS	2005-2015

Disparities Between Micropolitan and Large Fringe Metro Worsening	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
None				

Noncore vs. Large Fringe Metropolitan

Disparities Between Noncore and Large Fringe Metro Improving	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
None				

Disparities Between Noncore and Large Fringe Metro Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	0.307	-0.227	MEPS	2002-2016
Lung cancer deaths per 100,000 population per year	-1.282	-0.879	NVSS_M	2004-2016
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	0.126	-0.545	NHIS	2009-2017
Suicide deaths among persons age 12 and over per 100,000 population	0.237	0.562	NVSS_M	2008-2016
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	-1.346	-1.185	MEPS	2002-2016
Children ages 0-17 with wellness checkup in the past 12 months	-0.677	-0.938	NHIS	2009-2017
Children over 80 lb for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	-0.701	-0.789	MEPS	2002-2014
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-1.268	-0.745	MEPS	2002-2016
Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-0.71	-0.435	MEPS	2002-2016
Children who had their height and weight measured by a health provider within the past 2 years	-0.439	-0.394	MEPS	2002-2016
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	-0.335	-0.241	MEPS	2002-2016
Children ages 2-17 who had a dental visit in the calendar year	-0.081	-0.018	MEPS	2002-2016
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-0.007	0.032	NVSS_L	2010-2016

Disparities Between Noncore and Large Fringe Metro Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Children ages 2-17 who had a preventive dental service in the calendar year	-0.123	0.048	MEPS	2002-2016
Adults with a dental visit in the calendar year	0.26	0.282	MEPS	2002-2016
Adults who had a preventive dental service in the calendar year	0.367	0.397	MEPS	2002-2016
Women ages 50-74 who received a mammogram in the last 2 years	0.118	0.64	NHIS	2005-2015
Women ages 21-65 who received a Pap smear in the last 3 years	0.332	0.844	NHIS	2005-2015

Disparities Between Noncore and Large Fringe Metro Worsening	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
None				