

List of Measures

Measure	Measure Specifications a/	National Database a/	State Database a/
<i>EFFECTIVENESS OF CARE</i>			
CANCER			
<i>Screening for breast cancer:</i>			
Process: % of women (age 40 and over) who report they had a mam-mogram within the past 2 years	HP2010(3-13)	NHIS	BRFSS
Outcome: Rate of breast cancers diagnosed at advanced stage	SEER program	SEER	n.a.
<i>Screening for cervical cancer:</i>			
Process: % of women (age 18 and over) who report that they had a Pap smear within the past 3 years	HP2010(3-11b)	NHIS	BRFSS
Outcome: Rate of cervical cancers diagnosed as invasive (includes local, regional, and distant disease except in situ disease)	SEER program	SEER	n.a.
<i>Screening for colorectal cancer:</i>			
Process: % of men and women (age 50 and over) who report they ever had a flexible sigmoidoscopy/colonoscopy	HP2010(3-12b)	NHIS	BRFSS
Process: % of men and women (age 50 and over) who report they had a fecal occult blood test (FOBT) within the past 2 years	HP2010(3-12a)	NHIS	BRFSS
Outcome: Rate of colorectal cancers diagnosed as regional or distant staged cancers	SEER program	SEER	n.a.

Measure	Measure Specifications a/	National Database a/	State Database a/
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EFFECTIVENESS OF CARE

CANCER (cont.)

Cancer treatment:

Outcome: Cancer deaths per 100,000 persons per year for all cancers

HP2010(3-1)

Vital statistics

Vital statistics

Outcome: Cancer deaths per 100,000 persons per year for most common cancers, prostate cancer

HP2010(3-7)

Vital statistics

Vital statistics

Outcome: Cancer deaths per 100,000 persons per year for most common cancers, breast cancer

HP2010(3-3)

Vital statistics

Vital statistics

Outcome: Cancer deaths per 100,000 persons per year for most common cancers, lung cancer

HP2010(3-2)

Vital statistics

Vital statistics

Outcome: Cancer deaths per 100,000 persons per year for most common cancers, colorectal cancer

HP2010(3-5)

Vital statistics

Vital statistics

Palliative care:

Process: Cancer deaths in hospice per 100 cancer deaths

NHHCS-
Vital statistics

n.a

Process: Median length of stay for cancer patients who received hospice care

NHHCS

n.a.

Measure	Measure Specifications a/	National Database a/	State Database a/
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EFFECTIVENESS OF CARE

END STAGE RENAL DISEASE

Management of End Stage Renal Disease:

Process: % of dialysis patients registered on waiting list for transplantation

HP2010 4-5

USRDS

USRDS

Process: % of patients with treated chronic kidney failure who receive a transplant within three years of registration on waiting list

HP2010 4-6

USRDS

USRDS

Outcome: % of hemodialysis patients with URR 65 or greater

From CMS, Umich Unit Specific Report, pp.3,4,5, 18,21

U. Michigan

U. Michigan

Outcome: % of patients with hematocrit 33 or greater

From CMS, Umich Unit Specific Report, pp.3,4,5, 18,21

U. Michigan

U. Michigan

Outcome: Patient survival rate

From CMS, Umich Unit Specific Report, pp.3,4,5, 18,21

U. Michigan

U. Michigan

DIABETES

Management of diabetes:

Process: % of adults with diabetes who had a hemoglobin A1c measurement at least once in past year

Specs for MEPS

MEPS

BRFSS

Process: % of patients with diabetes who had a lipid profile in past two years

Specs for MEPS

MEPS

n.a.

Process: % of adults with diabetes who had a retinal eye examination in past year

Specs for MEPS

MEPS

BRFSS

Process: % of adults with diabetes who had a foot examination in past year

Specs for MEPS

MEPS

BRFSS

Measure	Measure Specifications a/	National Database a/	State Database a/
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EFFECTIVENESS OF CARE

DIABETES

Management of diabetes (cont.):

Process: % of adults with diabetes who had an influenza immunization in past year	Specs for MEPS	MEPS	BRFSS
Outcome: % of adults with diagnosed diabetes with HbA1c level > 9.5% (poor control); < 9.0 (minimally acceptable); < 7.0 (optimal)	National Diabetes Quality Improvement Alliance	NHANES	n.a.
Outcome: % of adults with diagnosed diabetes with most recent LDL-C level <130 mg/dL (minimally acceptable); <100 (optimal) b/	National Diabetes Quality Improvement Alliance	n.a.	n.a.
Outcome: % of adults with diagnosed diabetes with most recent blood pressure <140/90 mm/Hg	National Diabetes Quality Improvement Alliance	NHANES	n.a.
Outcome: Hospital admissions for uncontrolled diabetes per 100,000 population	AHRQ-QI	HCUP	n.a.
Outcome: Hospital admissions for short-term complications of diabetes per 100,000 population	AHRQ-QI	HCUP	n.a.
Outcome: Hospital admissions for long-term complications of diabetes per 100,000 population	AHRQ-QI	HCUP	n.a.
Outcome: Hospital admissions for lower extremity amputations in patients with diabetes per 1,000 population	HP 2010(5-10)	NHDS	n.a.

Measure	Measure Specifications a/	National Database a/	State Database a/
<i>EFFECTIVENESS OF CARE</i>			
HEART DISEASE			
<i>Treatment of AMI (cont.):</i>			
Process: Median Time to Thrombolysis. Time from arrival to initiation of a thrombolytic agent in patients with ST segment elevation or left bundle branch block (LBBB) on the electrocardiogram (ECG) performed closest to hospital arrival time	QIO scope of work	QIO	QIO
Process: Median time to PTCA. Median time from arrival to percutaneous transluminal angioplasty (PTCA) in patients with ST segment elevation or left bundle branch block (LBBB) on the electrocardiogram (ECG) performed closest to hospital arrival time.	QIO scope of work	QIO	QIO
<i>Treatment of acute heart failure:</i>			
Process: % of heart failure patients having evaluation of left ventricular ejection fraction	QIO scope of work	QIO	QIO
Process: % of heart failure patients with left ventricular systolic dysfunction prescribed ACE inhibitor at discharge	QIO scope of work	QIO	QIO
<i>Management of hypertension:</i>			
Outcome: % of people with hypertension who have blood pressure under control	HP2010(12-10)	NHANES	n.a.
<i>Management of CHF:</i>			
Outcome: Hospital admissions for congestive heart failure (CHF) per 1,000 population	HP2010(12-6)	NHDS	n.a.

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EFFECTIVENESS OF CARE

HIV/AIDS

AIDS prevention:

Outcome: New AIDS cases per 100,000 population (age 13 and over)

HP2010(13-1) CDC-AIDS n.a.

Management of HIV/AIDS:

Outcome: HIV-infection deaths per 100,000 population

HP2010(13-14) Vital statistics Vital statistics

MATERNAL AND CHILD HEALTH

Maternity care:

Process: % of pregnant women receiving prenatal care in first trimester

HP2010(16-6a) Vital statistics Vital statistics

Outcome: % of liveborn infants with low and very low birthweight (less than 2,500 grams, less than 1,500 grams)

HP2010(16-10) Vital statistics Vital statistics

Outcome: Infant mortality per 1,000 live births

HP2010(16-1c) Vital statistics Vital statistics

Outcome: Maternal deaths per 100,000 live births

HP2010(16-4) Vital statistics Vital statistics

[See Safety measures for complications of obstetric care]

Immunization, childhood:

Process: % of children 19-35 months who received all recommended vaccines

HP2010(14-24a) NIS NIS

Process: % of children 19-35 months who received 4 doses of DPaT vaccine

HP2010(14-22a) NIS NIS

Process: % of children 19-35 months who received 3 doses of polio vaccine

HP2010(14-22e) NIS NIS

Process: % of children 19-35 months who received 1 dose of MMR vaccine

HP2010(14-22d) NIS NIS

Measure	Measure Specifications a/	National Database a/	State Database a/
<i>EFFECTIVENESS OF CARE</i>			
MATERNAL AND CHILD HEALTH			
<i>Immunization, childhood, (cont.):</i>			
Process: % of children 19-35 months who received 3 doses of Hib vaccine	HP2010(14-22b)	NIS	NIS
Process: % of children 19-35 months who received 3 doses of hepatitis B vaccine	HP2010(14-22c)	NIS	NIS
Process: % of children 19-35 months who received 1 dose of varicella vaccine	HP2010(14-22f)	NIS	NIS
<i>Immunization, adolescent:</i>			
Process: % of adolescents (age 13-15) reported to have received 3 or more doses of hepatitis B vaccine	HP2010(14-27a)	NHIS	n.a.
Process: % of adolescents (age 13-15) reported to have received 2 or more doses of MMR vaccine	HP2010(14-27b)	NHIS	n.a.
Process: % of adolescents (age 13-15) reported to have received 1 or more doses of tetanus-diphtheria booster	HP2010(14-27c)	NHIS	n.a.
Process: % of adolescents (age 13-15) reported to have received 3 or more doses of varicella vaccine	HP2010(14-27d)	NHIS	n.a.
<i>Childhood dental care:</i>			
Process: % of children age 2-17 who report dental visit in last year	HP 2010(21-10)	MEPS	n.a.
<i>Treatment of pediatric gastroenteritis:</i>			
Outcome: Hospital admissions for pediatric gastroenteritis per 100,000 population less than 18 years of age	AHRQ-QI	HCUP	n.a.

Measure	Measure Specifications a/	National Database a/	State Database a/
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EFFECTIVENESS OF CARE

MENTAL HEALTH

Treatment of depression:

Process: % of adults diagnosed with a new episode of depression who had optimal practitioner contacts for medication management during the acute treatment phase

HEDIS

HEDIS

n.a.

Process: % of adults diagnosed with a new episode of depression and initiated on an antidepressant drug who received a continuous trial of medication treatment during the acute treatment phase

HEDIS

HEDIS

n.a.

Process: % of adults diagnosed with a new episode of depression and initiated on an antidepressant drug who remained on an antidepressant medication through the continuation phase of treatment

HEDIS

HEDIS

n.a.

Outcome: Deaths due to suicide per 100,000 population

HP2010(18-1)

Vital statistics

Vital statistics

RESPIRATORY DISEASES

Immunization, influenza:

Process: % of high risk persons (e.g., COPD) age 18-64 who received an influenza vaccination in the past 12 months

HP2010(14-29c)

NHIS

BRFSS

Process: % of persons age 65 and over who received an influenza vaccination in the past 12 months

HP2010(14-29a)

NHIS

BRFSS

Process: % of institutionalized adults (persons in long-term care or nursing homes) who received influenza vaccination in past 12 months

HP2010(14-29e)

NNHS

n.a.

Measure	Measure Specifications a/	National Database a/	State Database a/
<i>EFFECTIVENESS OF CARE</i>			
RESPIRATORY DISEASES			
<i>Immunization, influenza (cont.):</i>			
Outcome: Hospital admissions for immunization-preventable influenza per 100,000 population	HP2010 (1-9c, approximate) AHRQ-QI	HCUP	n.a.
<i>Immunization, pneumonia:</i>			
Process: % of high risk persons (e.g., COPD) age 18-64 who ever received a pneumococcol vaccination	HP2010(14-29d)	NHIS	BRFSS
Process: % of persons age 65 and over who ever received a pneumococcol vaccination	HP2010(14-29b)	NHIS	BRFSS
Process: % of institutionalized adults (persons in long-term care or nursing homes) who ever received pneumococcol vaccination	HP2010(14-29f)	NNHS	n.a.
<i>Treatment of pneumonia:</i>			
Process: % of patients with pneumonia who have blood cultures collected before antibiotics are administered	QIO scope of work	QIO	QIO
Process: % of patients with pneumonia who receive the initial antibiotic dose within 8 hours of hospital arrival	QIO scope of work	QIO	QIO
Process: % of patients with pneumonia who receive the initial antibiotic consistent with current recommendations	QIO scope of work	QIO	QIO
Process: % of patients with pneumonia who receive influenza screening or vaccination	QIO scope of work	QIO	QIO

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EFFECTIVENESS OF CARE

RESPIRATORY DISEASES

Treatment of pneumonia (cont.):

Process: % of patients with pneumonia who receive pneumococcal screening or vaccination

QIO
scope of work

QIO

QIO

Treatment of URI:

Process: % of visits where antibiotic was prescribed for the diagnosis of a common cold, children & adults

HP2010(14-19)

NAMCS-
NHAMCS

n.a.

Management of asthma:

Process: % of people with persistent asthma who are prescribed medications acceptable as primary therapy for long-term control of asthma (inhaled corticosteroids)

HEDIS

HEDIS

n.a.

Outcome: Hospital admissions for pediatric asthma per 10,000 population under age 18

HP2010
(24-2, 1-9a)

NHDS

n.a.

Outcome: Hospital admissions for asthma per 10,000 population

HP2010(24-2)

NHDS

n.a.

Outcome: Hospital admissions for asthma per 100,000 population age 65 and over

AHRQ-QI

HCUP

n.a.

Treatment of TB:

Process: % of TB patients that complete a curative course of TB treatment within 12 months of initiation of treatment

CDC, TB

n.a.

Measure	Measure Specifications a/	National Database a/	State Database a/
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EFFECTIVENESS OF CARE

NURSING HOME AND HOME HEALTH CARE

Nursing facility care:

Chronic care: % of residents with pain	CMS	n.a.	MDS
Chronic care: Late-loss ADL worsening	CMS	n.a.	MDS
Chronic care: Infections prevalence	CMS	n.a.	MDS
Chronic care: Stage 1-4 pressure ulcer prevalence	CMS	n.a.	MDS
Chronic care: Restraint use prevalence	CMS	n.a.	MDS
Post acute care: Failure to improve/ manage delirium symptoms	CMS	n.a.	MDS
Post acute care: % of residents with pain	CMS	n.a.	MDS
Post acute care: Improvement in walking	CMS	n.a.	MDS

Home health care:

Outcome: Improvement in upper body dressing	CMS	n.a.	OASIS
Outcome: Improvement in management of oral medications	CMS	n.a.	OASIS
Outcome: Improvement in bathing	CMS	n.a.	OASIS
Outcome: Stabilization in bathing	CMS	n.a.	OASIS
Outcome: Improvement in transferring	CMS	n.a.	OASIS
Outcome: Improvement in ambulation/locomotion	CMS	n.a.	OASIS
Outcome: Improvement in toileting	CMS	n.a.	OASIS
Outcome: Improvement in pain interfering with activity	CMS	n.a.	OASIS

Measure	Measure Specifications a/	National Database a/	State Database a/
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EFFECTIVENESS OF CARE

NURSING HOME AND HOME HEALTH CARE

Home health care (cont.):

Outcome: Improvement in dyspnea	CMS	n.a.	OASIS
Outcome: Improvement in urinary incontinence	CMS	n.a.	OASIS
Outcome: Improvement in confusion frequency	CMS	n.a.	OASIS
Outcome: Acute care hospitalization	CMS	n.a.	OASIS

SAFETY

Complications of care:

Birth trauma	AHRQ-QI	HCUP	n.a.
Death in low mortality DRGs	AHRQ-QI	HCUP	n.a.
Failure to rescue	AHRQ-QI	HCUP	n.a.
Transfusion reaction and transfusion reaction (area)	AHRQ-QI	HCUP	n.a.
Foreign body left in body during procedure and foreign body left in body during procedure (area)	AHRQ-QI	HCUP	n.a.
Central line-associated bloodstream infection in ICU patients	HP2010(14-20b)	NNIS	n.a.
Central line-associated bloodstream infection in infants weighing 1000 grams or less at birth in intensive care	HP2010(14-20d)	NNIS	n.a.
Complications of anesthesia	AHRQ-QI	HCUP	n.a.
Decubitus ulcer	AHRQ-QI	HCUP	n.a.
Iatrogenic pneumothorax and iatrogenic pneumothorax (area)	AHRQ-QI	HCUP	n.a.

Measure	Measure Specifications a/	National Database a/	State Database a/
<i>SAFETY</i>			
<i>Complications of care (cont.):</i>			
Infection due to intravenous lines or catheters and infection due to intravenous lines or catheters (area)	AHRQ-QI	HCUP	n.a.
Postoperative hip fracture	AHRQ-QI	HCUP	n.a.
Postoperative hemorrhage or hematoma	AHRQ-QI	HCUP	n.a.
Postoperative physiologic and metabolic derangements	AHRQ-QI	HCUP	n.a.
Postoperative respiratory failure	AHRQ-QI	HCUP	n.a.
Postoperative pulmonary embolism or deep vein thrombosis	AHRQ-QI	HCUP	n.a.
Postoperative septicemia	AHRQ-QI	HCUP	n.a.
Technical difficulty with procedure and technical difficulty with procedure (area)	AHRQ-QI	HCUP	n.a.
Postoperative wound dehiscence and postoperative wound dehiscence (area)	AHRQ-QI	HCUP	n.a.
Obstetrical trauma - vaginal with instrument	AHRQ-QI	HCUP	n.a.
Obstetrical trauma - vaginal without instrument	AHRQ-QI	HCUP	n.a.
Obstetric trauma - cesarean delivery	AHRQ-QI	HCUP	n.a.
<i>Prescribing medications:</i>			
% of community dwelling elderly who had at least one prescription (from a list of 11 medications and from a list of 33 medications) that is potentially inappropriate for the elderly.	AHRQ-QI	MEPS	n.a.

Measure	Measure Specifications a/	National Database a/	State Database a/
SAFETY			
Prescribing medications (cont.):			
% of adults who report that usual source of care asks about prescription medications and treatments from other providers	Specs for MEPS	MEPS	n.a.
TIMELINESS			
Basic access:			
% of persons who report that they have a usual source of medical care, by place of care	HP2010(1-4)	NHIS	n.a.
% of families who experienced difficulty in obtaining care, by reason	HP2010(1-6)	MEPS	n.a.
Getting appointments for care:			
% of persons who report that they can get an appointment for routine care as soon as they wanted (always, usually, sometimes/never)	Specs for MEPS	MEPS	NCBD
% of persons who report that they can get care for illness/injury as soon as they wanted (always, usually, sometimes/never)	Specs for MEPS	MEPS	NCBD
Waiting time:			
ED visits: % of patients with waiting time to be seen by physician greater than or equal to one hour (presented separately for emergent, urgent, semi-urgent, and NAMCS-non-urgent visits)	NCHS	NAMCS-NHAMCS	n.a.
ED visits: % of patients who left NAMCS-without being seen	NCHS	NAMCS-NHAMCS	n.a.

Measure	Measure Specifications a/	National Database a/	State Database a/
<i>PATIENT CENTEREDNESS</i>			
<i>Patient experience of care:</i>			
% of patients who report that doctor listens carefully (always, usually, sometimes/never), adults and parents of children	Specs for MEPS	MEPS	NCBD
% of patients who report that doctor explains things clearly (always, usually, sometimes/never), adults and parents of children	Specs for MEPS	MEPS	NCBD
% of patients who report that doctor showed respect for what you had to say (always, usually, sometimes/never), adults and parents	Specs for MEPS	MEPS	NCBD
% of patients who report that doctor spent enough time with them (always, usually, sometimes/never), adults and parents of children	Specs for MEPS	MEPS	NCBD
<i>RESOURCE CONSUMPTION</i>			
National Health Expenditures by Source of Funds: Selected Calendar Years		NHA	n.a.
Total per capita health expenditures in dollars: Selected countries and years		NCHS	n.a.
Total Personal Health Care as a Percent of Gross State Product by State		n.a.	NHA
<i>OVERALL MEASURES</i>			
Overall rating of health care received	Specs for MEPS	MEPS	NCBD
Life expectancy (at birth, at age 65)		Vital statistics	n.a.
Days of activity limitation due to health		NHIS	n.a.

Notes

- a/ AHRQ-QI=AHRQ Quality Indicators (Prevention Quality Indicators and Patient Safety Indicators)
BRFSS=Behavioral Risk Factor Surveillance System
CDC TB=Centers for Disease Control & Prevention National Tuberculosis Surveillance System
HCUP=Healthcare Cost and Utilization Project
HEDIS=Health Plan and Employer Data Information Set
HP2010=Healthy People 2010 JCAHO=Joint Commission for Accreditation of Healthcare Organization's hospital core measures.
LHI=Leading Health Indicators.
MEPS=Medical Expenditure Panel Survey
MDS=Minimum Data Set
NAMCS=National Ambulatory Medical Care Survey
NCBD=National CAHPS Benchmarking Database
NCQA=National Committee for Quality Assurance' s HEDIS measure set
NHA=National Health Accounts
NHANES=National Health and Nutrition Examination Survey
NHIS=National Health Interview Survey
NHHCS=National Home Health and Hospice Care Survey
NHAMCS=National Hospital Ambulatory Medical Care Survey
NHDS=National Hospital Discharge Survey
NIS=National Immunization Survey
NNHS=National Nursing Home Survey
NQF=National Quality Forum
OECD=Organization for Economic Cooperation & Development Health Data File
Vital statistics=National Vital Statistics System, Mortality
SEER=Surveillance, Epidemiology, and End Results Program
USRDS=United States Renal Data System
WHO=World Health Organization
- b/ Measure listed is part of approved final NHQR measure set.
However, data were unavailable for first NHQR.

