

Suggested Population Level Measures for the CMS State Innovation Model Initiative

The following key population level measures are proposed for the CMS State Innovation Model Initiative. We define population health as the factors that influence the health outcomes of groups of individuals, including the distribution and equity of such outcomes across various segments of society (adopted from Kindig et al *Am J Public Health*. 2003;93:380–383). The measures listed below were selected based on the following three criteria:

1. High population burden, societal costs
2. Amenable to interventions with potential improvement in health, quality of care and decreased costs within the next three to five years
3. Data for the measure are available for major segments of the population at the state and/or sub-state level.

Topic	Population Health Measure	Population Data Source/ Link	Related NQF # / Measure
Core Measures			
Tobacco - Adult	Four Level Smoking Status	BRFSS – 2011 http://apps.nccd.cdc.gov/BRFSS/list.asp?cat=TU&yr=2011&qkey=8171&state=US	NQF 0028 Measure Pair: A) Tobacco Use Assessment, B) Tobacco Cessation Intervention A) Percentage of patients who were queried about tobacco use one or more times during the two-year measurement period, B)Percentage of patients identified as tobacco users who received cessation intervention during the two-year measurement period
Tobacco	Percent of adult smokers who have made a quit attempt in the past year	BRFSS http://www.cdc.gov/brfss/questionnaires/pdf-ques/2013%20BRFSS_English.pdf (question 9.3)	NQF 0028 Measure Pair: A) Tobacco Use Assessment, B) Tobacco Cessation Intervention A) Percentage of patients who were queried about tobacco use one or more times during the two-year measurement period, B)Percentage of patients

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			identified as tobacco users who received cessation intervention during the two-year measurement period
Obesity - Adult	Weight Classification by BMI	BRFSS – 2011 http://apps.nccd.cdc.gov/BRFSS/list.asp?cat=OB&yr=2011&qkey=8261&state=All	NQF 0421 Adult Weight Screening and Follow-Up Percentage of patients aged 18 years and older with a calculated BMI documented in the medical record AND if the most recent BMI is outside the parameters, a follow up plan is documented
Obesity - Youth	Obese: Students who were >=95 th Percentile for BMI (based on 2000 CDC Growth Charts)	YRBS – 2011 http://apps.nccd.cdc.gov/youthonline/App/Results.aspx?TT=&OUT=&SID=HS&QID=QNOBESE&LID=&YID=&LID2=&YID2=&COL=&ROW1=&ROW2=&HT=&LCT=&FS=&FR=&FG=&FSL=&FRL=&FGL=&PV=&TST=&C1=&C2=&QP=G&DP=&VA=CI&CS=Y&SYID=&EYID=&SC=&SO=	NQF 0024 Body Mass Index (BMI) 2 through 18 Years of Age Percentage children, 2 through 18 years of age, whose weight is classified based on BMI percentile for age and gender
Physical Activity	Participated in enough Aerobic and Muscle Strengthening exercises to meet guidelines	BRFSS - 2011 http://apps.nccd.cdc.gov/BRFSS/list.asp?cat=PA&yr=2011&qkey=8291&state=All	No relevant NQF measure identified

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Fruit and Vegetable Consumption	Median intake of fruits and vegetables (times per day)	BRFSS See report: http://www.cdc.gov/nutrition/downloads/State-Indicator-Report-Fruits-Vegetables-2013.pdf	No relevant NQF measure identified
Food Desert/ Food Availability	Percentage of the population living in census tracts designated as food deserts	USDA: http://www.ers.usda.gov/data-products/food-access-research-atlas http://assessment.communitycommons.org/DataReport/SelectArea.aspx?reporttype=FOOD	No relevant NQF measure identified
Diabetes	Percentage of Adults(aged 18 years or older) with Diabetes Having Two or More A1c Tests in the Last Year	BRFSS http://www.cdc.gov/brfss/questionnaires/pdf-ques/2013%20BRFSS_English.pdf (Module 2, question 6)	NQF 0729 Optimal Diabetes Care The percentage of patients 18-75 with a diagnosis of diabetes, who have optimally managed modifiable risk factors (A1c<8.0%, LDL<100 mg/dL, blood pressure<140/90 mm Hg, tobacco non-use and daily aspirin usage for patients with diagnosis of IVD) with the intent of preventing or reducing future complications associated with poorly managed diabetes.
Additional Measures for Consideration			
Community Characteristics			
Health Care	Do you have any type of	BRFSS 2011	No relevant NQF measure identified

Behavioral Risk Factor Surveillance System (BRFSS): The BRFSS 2011 data should be considered a baseline year for data analysis and is not directly comparable to previous years of BRFSS data because of the changes in weighting methodology and the addition of the cell phone sampling frame.

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Access	health care coverage?	http://apps.nccd.cdc.gov/BRFSS/list.asp?cat=HC&yr=2011&qkey=8021&state=All	
Tobacco	Legislation – Smokefree Indoor Air	CDC OSH State Tobacco Activities Tracking and Evaluation (STATE) System – 2013 http://apps.nccd.cdc.gov/statesystem/DetailReport/DetailReports.aspx	No relevant NQF measure identified
Tobacco - Youth	Smoked cigarettes on at least one day in the last 30 days	YRBS – 2011 http://apps.nccd.cdc.gov/youthonline/App/Results.aspx?TT=&OUT=&SID=HS&QID=H31&LID=&YID=&LID2=&YID2=&COL=&ROW1=&ROW2=&HT=&LCT=&FS=&FR=&FG=&FSL=&FRL=&FGL=&PV=&TST=&C1=&C2=&QP=G&DP=&VA=CI&CS=Y&SYID=&EYID=&SC=&SO=	HP2020 LHI Objective No relevant NQF measure identified
Key Health Behaviors			
Motor vehicle injury prevention	Driving after drinking in the past 30 days	BRFSS 2012 (not asked annually) During the past 30 days, how many times have you driven when you've had perhaps too much to drink? http://apps.nccd.cdc.gov/BRFSS/list.asp?cat=IN&yr=2010&qkey=7315&state=All	No relevant NQF measure identified
Health Care Quality and Outcomes			
Blood Pressure / Hypertension	Taking medicine for high blood pressure control among adults aged >=	BRFSS http://www.cdc.gov/brfss/questionnaires/p	NQF 0018 HTN: Controlling High Blood Pressure

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	18 years	df-ques/2013%20BRFSS_English.pdf (question 5.2)	Percentage of patients > 18 years of age with a diagnosis of hypertension in the first six months of the measurement year or any time prior with last BP < 140/90 mm Hg
Colorectal Cancer	Percentage of respondents aged 50-75 years who reported colorectal test use, by test type: <ul style="list-style-type: none"> • Up-to-date with CRC screening • FOBT within 1 year • Sigmoidoscopy within 5 years with FOBT within 3 years • Colonoscopy within 10 years 	BRFSS http://www.cdc.gov/brfss/questionnaires/pdf-ques/2013%20BRFSS_English.pdf (Module 13)	NQF – 0034 Colorectal Cancer Screening Percentage of members 50-75 years of age who had appropriate screening for colorectal cancer
Healthcare associated infections			NQF 1717 Facility-wide Inpatient Hospital-Onset Clostridium difficile Infection (CDI) Outcome Measure - Standardized infection ratio (SIR) of hospital-onset CDI inpatients in the facility, excluding well-baby nursery
Immunization Rate – Adult	Adults aged 65+ who have had a flu shot within the past year	BRFSS - 2011 http://apps.nccd.cdc.gov/BRFSS/list.asp?cat	NQF 0041 Influenza Vaccination

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		=IM&yr=2011&qkey=8341&state=US	Percentage of patients aged 6 months and older seen for a visit between October 1 and the end of February who received an influenza immunization OR patient reported previous receipt of an influenza immunization
Immunization Rate – Child	Estimated Vaccination Coverage* with Individual Vaccines and Selected Vaccination Series	US National Immunization Survey, 2011 http://www2a.cdc.gov/nip/coverage/nis/ContentNIS.asp?fmt=v&rpt=tab03_antigen_state_2011.xlsx&qtr=Q1/2011-Q4/2011	NQF 0038 Childhood Immunization Status Measure calculates a rate for each recommended vaccines and nine separate combination rates.
HIV	Stage 3 (AIDS) at the time of diagnosis of HIV infection, among persons aged 13 years and older	http://www.cdc.gov/hiv/pdf/statistics_2010_HIV_Surveillance_Report_vol_17_no_3.pdf#page=15	NQF 1999  1999_NQF_HIV_MeasureDetails.pdf Percentage of persons 13 years and older diagnosed with Stage 3 HIV infection (AIDS) within 3 months of a diagnosed HIV infection.
HIV	HIV viral suppression at most recent viral load test, among persons aged 13 years and older with HIV infection	http://www.cdc.gov/hiv/pdf/statistics_2010_HIV_Surveillance_Report_vol_18_no_2.pdf#page=20 (limited state set)	NQF 2082  2082_HIV_NQF_MeasureDetails.pdf Percentage of patient, regardless of age, with a

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			diagnosis of HIV with a HIV viral load less than 200 copies/ml at last HIV viral load test during the measurement year.
Measures of Health			
Health Related Quality of Life	Health Related Quality of Life— physically and mentally unhealthy days In the past month.	<p>BRFSS 2011</p> <p>http://www.cdc.gov/brfss/questionnaires/pdf-ques/2013%20BRFSS_English.pdf (question 2.3)</p> <p>two data sources with examples:</p> <p> HRQOLStates2011.d ocx</p> <p>Also here on CDI site from 2010 http://apps.nccd.cdc.gov/cdi/SearchResults.aspx?IndicatorIds=36,50,44,136,135,55,16,122,123,124&StateIds=46&StateNames=United%20States&FromPage=HomePage</p>	No relevant NQF measure identified
Low Birth Weight	Percent of live births <2500 g.	<p>http://datacenter.kidscount.org/data/across/states/Rankings.aspx?ind=5425 and can be computed at: http://wonder.cdc.gov/</p>	No relevant NQF measure identified