

Oregon Healthcare Indicators Project: Proposed Measures of Access and Need

DRAFT					
Rating (1 to 5; 1=lowest 5=highest)		Indicator			
Importance	Feasibility	Name	Description	Data source(s)	Notes
Need: general population measures					
		Population	Total population per area with age-sex distribution	Claritas	
		Pop_project	5 year population projection	Claritas	
		Pop_change	% population change 1990-2000	Claritas	Total, and by age bands
		Ethnic	Total population with ethnic distribution (White, Black, Hispanic, Asian, Native American, Pacific Islander)	Claritas	May dichotomize to white/non-white
Access and Need: spatial measures					
		30min_travel	% population who live within 30 minutes of primary care	Calculated	
Access and Need: socio-economic measures					
		Median_inc	Median household income	Census	More commonly used than income per capita
		Inc_disparity	Gini coefficient (measure of inequality in income distribution)	Census	Calculation using household income for 25 income levels, software from US Census Bureau
		100FPL	% population below 100% FPL	Census	Population living in poverty, sometime not explicit about FPL
		200FPL	% population below 200% FPL	Census	
		FPL_age	% population below 100 FPL for ages 0-17, 18-64, 65+	Census	
		Single_parent	% of households with single parent with children	Census	Measure of access and need for pediatric population
		Renter_occ	% of households which are renter occupied units	Census	
		OHP_eligible	% of total OHP eligibles	OMAP	
		SCHIP_eligible	% of total SCHIP eligibles	OMAP	
		Unemployment	Average (annual) unemployment rate	OED	
		Poor_english	% population (5+) who speak English < 'very well'	Census	Many variations measuring linguistic isolation
		No_health_ins	% population without health insurance	OPS	This will be an estimate
		medi_200FPL	% <65 with medicaid below 200 FPL	Census, OMAP	Proxy for insurance for the poor
Need: burden of disease measures					
		Disability_<65	% population (16-64) with disability	Census	

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Need: burden of disease measures					
		Good_health	% adults whose self-perceived health status is 'very good' or 'excellent'	BRFSS	This will be an estimate, can be reported as 'poor health'
		Chronic_dz	% adults who self report of any chronic medical condition	BRFSS	This will be an estimate
		Smokers	% (can be adults or all persons) who self-report as cigarette smokers	BRFSS, NCHS	This will be an estimate
		Phys_activity	% of adults who meet recommended activity levels	BRFSS, NCHS	This will be an estimate
		Overweight	% (can be adults or all persons) who are overweight, BMI 25-30	BRFSS, NCHS	This will be an estimate
		Obese	% (can be adults or all persons) who are obese, BMI 30+	BRFSS, NCHS	This will be an estimate
Access: availability of Primary Care measures					
		active_PCP	Number of licensed and active PCP (per 100K)	Oregon BME	Includes MD, DO, NP, PA
		active_ped	Number active pediatricians per 100K children	Oregon BME	
		active_obgyn	Number active OB/GYN per 100K women	Oregon BME	
		PCP_medicaid	Number of PCP per 100K accepting Medicaid	Oregon DHS	
		PCP_medicare	Number PCP per 100K accepting Medicare	Oregon DHS	
		PCP_uninsur	Number PCP per 100K accepting uninsured	Oregon DHS	
		PCP_capacity	Number of visits accommodated by primary care providers (MD, DO, PA, and NP)	Calculation, PWS	FP, GP, Peds, OB/GYN, and Int. Med.
		PCvisits_needed	Number of primary care visits needed	NAMCS, NCHS	

Oregon Healthcare Indicators Project: Proposed Measures of Unmet Need

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Importance	Feasibility	Name	Description	Data source(s)	Notes
Unmet/Met Need: maternal child health measures					
		Total_births	Total average per year (rates per 1000 births) by ethnic breakdown	Oregon DHS	Pool 3-4 years
		Low_birthwt	Average low birth weight per year (rates per 1000 births)	Oregon DHS	Pool 3-4 years, proxy for mch
		Prenatal_care	Average inadequate prenatal care per year (rates per 1000 births)	Oregon DHS	Pool 3-4 years, proxy for mch
		Infant_mort	Average infant mortality per year (rates per 1000 births)	Oregon DHS	Pool 3-4 years, proxy for mch
Unmet/Met Need: family planning measure					
		Teen_births	Average teen births per year (rates per 1000 births)	Oregon DHS	Pool 3-4 years, proxy for family planning
Unmet/Met Need: preventive pediatric measures					
		Immun_child	% 2-year olds who are adequately immunized	NIS, HEDIS	Proxy for peds
		Immun_adol	% adolescents (age 13-15) who are adequately immunized	NHIS, HEDIS	
Unmet/Met Need: preventive infectious disease measures- young adult					
		HIV	Incidence rate of HIV diagnoses age 13+	Oregon DHS	HIV/AIDS report; pool 3-4 years
		STD	Incidence rate of gonorrhea and chlamydia (syphilis)	Oregon DHS	Pool 3-4 years
		TB	Incidence rate of tuberculosis	Oregon DHS	Pool 3-4 years
Unmet/Met Need: outcome (mortality) measure- adult, pediatrics, and maternal child health					
		Avoid_deaths	Average deaths per year for conditions amenable to primary care (rates per 1000 persons)	Oregon DHS	Pool 3-4 years; definitions vary, but good literature base to support
Unmet/Met Need: process (hospitalization) measures- adult, pediatrics, and maternal child health					
		ACS_hosp	Average ACS hospitalizations (rate per 1000 pop)	HDD	Pool 3-4 years; may also be reported separately by condition as listed below

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Unmet/Met Need: process (hospitalization) measures- adult, pediatrics, and maternal child health					
		PQI1_short_dm	Discharges with ICD-9 principal diagnosis for dm short-term complications, 18+	HDD	Diabetes ACS conditon
		PQI3_long_dm	Discharges with ICD-9 principal diagnosis for dm long-term complications, 18+	HDD	Diabetes ACS conditon
		PQI14_uncont_dm	Discharges with ICD-9 principal diagnosis for uncontrolled dm, 18+	HDD	Diabetes ACS conditon
		PQI16_amputation	Discharges with ICD-9 for lower ext amputation and diabetes, 18+	HDD	Diabetes ACS conditon
		ACS_DM	Aggregate hospitalizations for any of the four preceding diabetes indicators	HDD	Aggregate diabetes ACS conditions
		PQI4_ped_asthma	Discharges with ICD-9 principal diagnosis for asthma, <18	HDD	Respiratory ACS conditions
		PQI15_adult_asthma	Discharges with ICD-9 principal diagnosis for asthma, 18+	HDD	Respiratory ACS conditions
		PQI5_COPD	Discharges with ICD-9 principal diagnosis for COPD, 18+	HDD	Respiratory ACS conditions
		PQI11_PNA	Discharges with ICD-9 principal diagnosis for bacterial pneumonia	HDD	Respiratory ACS conditions
		ACS_RESP	Aggregate hospitalizations for any of the four preceding respiratory indicators	HDD	Aggregate respiratory ACS conditions
		PQI7_HTN	Discharges with ICD-9 principal diagnosis for HTN, 18+	HDD	Cardiovascular ACS conditions
		PQI8_CHF	Discharges with ICD-9 principal diagnosis for CHF, 18+	HDD	Cardiovascular ACS conditions
		PQI13_angina	Discharges with ICD-9 principal diagnosis for angina, 18+	HDD	Cardiovascular ACS conditions
		ACS_CVD	Aggregate hospitalizations for any of the three preceding cardiovascular indicators	HDD	Aggregate cardiovascular ACS conditions
		PQI2_appendix	Discharges with ICD-9 principal diagnosis for perforated appendix per 100 admissions for appendicitis	HDD	Other ACS conditions

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Unmet/Met Need: process (hospitalization) measures- adult, pediatrics, and maternal child health					
		PQI6_gastro	Discharges with ICD-9 principal diagnosis for gastroenteritis, <18	HDD	Other ACS conditions
		PQI9_lowbirthwt	Number of births with ICD-9 codes for birth wt <2500g	HDD	Other ACS conditions
		PQI10_dehydration	Discharges with ICD-9 principal diagnosis for hypovolemia	HDD	Other ACS conditions
		PQI12_UTI	Discharges with ICD-9 principal diagnosis for UTI	HDD	Other ACS conditions
		ACS_OTH	Aggregate hospitalizations for any of the five preceding other indicators	HDD	Aggregate other ACS conditions
Unmet/Met Need: process (outpatient utilization) measures- adult and pediatrics					
		Visits_per_year	Average number of outpatient visits per person per year	OMAP	Proxy for outpatient care for the poor
		Yearly_visit_100FPL	% population below 100 FPL without PCP visit in past year	Census, OMAP	Calculation; proxy for outpatient care for the poor
		Yearly_visit_200FPL	% population below 200 FPL without PCP visit in past year	Census, OMAP	Calculation; proxy for outpatient care for the poor

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Abbreviations and acronyms

ACS	ambulatory care sensitive
BRFSS	Behavioral Risk Factor Surveillance System
Census	2000 Census
CHF	congestive heart failure
COPD	chronic obstructive pulmonary disease
DM	diabetes
dz	disease
FPL	federal poverty level
HDD	Hospital Discharge Data
HEDIS	Health Plan and Employer Data Information Set
HTN	hypertension
mh	mental health
NAMCS	National Ambulatory Medical Care Survey
NCHS	National Center for Health Statistics
NHIS	National Health Interview Survey
NIS	National Immunization Survey
OED	Oregon Employment Department
OHP	Oregon Health Plan
OMAP	Office of Medical Assistance Programs
OPS	Oregon Population Survey
Oregon BME	State of Oregon Board of Medical Examiners
PC	primary care
PCP	primary care provider (practitioner)
peds	pediatrics
PNA	pneumonia
PQI	(Guide to) Prevention Quality Indicators
SCHIP	State Children's Health Insurance Program