

## AMCHP Life Course Metrics Project Indicators Proposed, Not Selected

Thematic Category	Indicator Name	Brief Description	Formula Numerator	Formula Denominator	Data Source
1 Childhood Experiences	Adverse Childhood Experiences (ACE): Sexual Abuse	Prevalence of experience of sexual abuse among adults	Numerator: Weighted number of adults ages 18 and over responding to the BRFSS survey who report that they experienced sexual abuse during childhood	Denominator: Weighted number of adults ages 18 and over responding to the BRFSS survey	Behavioral Risk Factor Surveillance System (BRFSS)
2 Community Health Policy	Medicaid / CHIP Eligibility	Prevalence of states, territories, and jurisdictions with Medicaid/CHIP upper income limits at or above 200% Federal Poverty Level (FPL)	Numerator: Number of states, territories, and jurisdictions with Medicaid/CHIP upper income limits at or above 200%	Denominator: Total states, territories, and jurisdictions participating in Medicaid	The Children's Health Insurance Program Reauthorization Act (CHIPRA) Annual Report <a href="http://www.insurekidsnow.gov/chipraannualreport.pdf">http://www.insurekidsnow.gov/chipraannualreport.pdf</a>
3 Community Health Policy	MCH in Physical Activities and Nutrition Plans	Prevalence of states who have identified MCH interventions in their state-level, CDC-sponsored Physical Activity and Nutrition Plans (PANP)	Numerator: Number of states that identify PANP interventions, other than breastfeeding, involving target populations that could include pregnant women, mothers and/or young children (0-5) in the "Response to Obesity" section of their PANP. Interventions that are strictly limited to post-preschool school settings are not eligible.	Denominator: Number of states and territories with a PANP	CDC's Division of Nutrition, Physical Activity, and Obesity: <a href="http://www.cdc.gov/obesity/stateprograms/fundedstates.html">http://www.cdc.gov/obesity/stateprograms/fundedstates.html</a>
4 Community Health Policy	Low Birth Weight	Percent of all live births with birth weight < 2,500 grams	Numerator: Number of resident low birth weight (<2,500 g) live births	Denominator: Number of resident live births	NVSS National Vital Statistics Birth Records

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5	Community Health Policy	Infant Mortality	Infant mortality rate per 1,000 live births	Numerator: Total number of infant deaths (or deaths to children less than 1 year/365 days of age)	Denominator: Total live births	Death and birth records from state vital statistics offices and the National Center of Health Statistics via the National Vital Statistics System
6	Community Health Policy	Pregnancy-Related Death	Pregnancy-related death ratio per 100,000 total live births	Numerator: Total resident pregnancy-related deaths	Denominator: Total resident live births	Pregnancy Mortality Surveillance System (PMSS)
7	Community Health Policy	Medicaid Expansion	The prevalence of states implementing the 2014 Medicaid expansion	Numerator: Number of states/territories implementing expansion	Denominator: Total States and territories	Track until 2014 – The Advisory Board Company <a href="http://www.advisory.com/Daily-Briefing/2012/11/09/MedicaidMap">http://www.advisory.com/Daily-Briefing/2012/11/09/MedicaidMap</a>
8	Community Health Policy	Neighborhood Amenities	Percent of children ages 0 to 17 years with access to neighborhood amenities (sidewalks, parks, recreation centers, libraries).	Numerator: Number of neighborhood amenities (sidewalks, parks, recreation centers, or libraries) available to children ages 0-17 years	Denominator: Number of children ages 0 to 17 years	The National Survey of Children’s Health (NSCH) and the National Survey of Children with Special Health Care Needs (NSCSHCN)
9	Community Safety	Parents Perceived Safety of Children in School	Percent of adolescents 6-17 years whose parents consider them to be safe at school	Numerator – Number of adolescents aged 6 to 17 years whose parents consider them to be safe at school	Denominator – Number of adolescents aged 6 to 17 years enrolled in school	National Survey of Children’s Health
10	Early Life Services	Child Care Quality Rating and Improvement	Prevalence of states implementing a child care Quality Rating System (QRS) or Quality Rating & Improvement System (QRIS)	Numerator: Number of states, territories, and jurisdictions implementing one or more QRS included in the Office of Planning, Research and Evaluation (DHHS/ACF) Compendium of Quality	Denominator: Total states, territories, and jurisdictions	Child Care Quality Rating System (QRS) Assessment: Compendium of Quality Rating Systems and Evaluations <a href="https://www.acf.hhs.gov/sites/default/files/opr/qrs_compendium_fina">https://www.acf.hhs.gov/sites/default/files/opr/qrs_compendium_fina</a>

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			Rating Systems and Evaluations		l.pdf
11 Early Life Services	Children are Screened Early and Continuously for Special Health Care Needs	Percent of children with special health care needs (CSHCN) who received at least one preventive medical and dental visit in the past year	Numerator: Children 0-17 years who had at least 1 preventive medical visit and at least 1 preventive dental visit in the past 12 months. Children under 1 year old were excluded from needing preventive dental care. Therefore, any child under 12 months of age only needed to respond with 1 or more preventive medical visits to meet this indicator. Respondents with answers of don't know or refused to either item were set to missing	Denominator: all children 0-17 years	National Survey of Children with Special Health Care Needs

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<b>12</b> Early Life Services	Early Childhood Accreditation	Percentage of early childhood centers that are accredited	Numerator: Number of Early Childhood programs accredited by the National Association for the Education of Young Children (NAEYC)	Denominator: Total licensed childcare centers	<p>Numerator: National Association for the Education of Young Children  <a href="http://oldweb.naeyc.org/academy/summary/center_summary.asp">http://oldweb.naeyc.org/academy/summary/center_summary.asp</a>  or search by city, state, address, program name at:  <a href="http://www.naeyc.org/academy/accreditation/search">http://www.naeyc.org/academy/accreditation/search</a></p> <p>Denominator: Child Care Aware of America (formally NACCRA National Association of Child Care Resources and Referrals Agencies)  <a href="http://www.naccra.org/node/2495">http://www.naccra.org/node/2495</a> State data are available by clicking on individual states, then referencing the state Fact Sheet.</p>
<b>13</b> Economic Experiences	Housing Cost Burden	Percent of households paying more than 50% of their income towards housing costs	<p>Numerator: # of households that are paying more than 50% of their household income on housing costs (severe housing cost burden)  ***Note some team members suggested keeping 30% or more (vs. 50%)</p>	Denominator: total # of households	American Community Survey (ACS), US Census

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14 Economic Experiences	Gini Index of Income Inequality	The Gini index of income inequality measures the dispersion of the household income distribution in a population. The Gini index varies from zero to 1. Here, zero corresponds to perfect income equality (i.e. everyone has the same income) and 1 correspond	Numerator: Gini coefficient (0 to 1- 0 indicates no inequality, 1 indicates complete inequality) *pre-calculated by ACS	Denominator: N/A (pre-calculated by ACS)	U.S. Census Bureau, American Community Survey (ACS)
15 Environmental Health	Air Pollution-Particulates	The average exposure of the general public to particulate matter of 2.5 microns or less in size (PM2.5).	Numerator: The average exposure of the general public to particulate matter of 2.5 microns or less in size (PM2.5).	Denominator: Exposure levels are weighted to represent the population in the specific geographical region.	United Health Foundation, America's Health Rankings <a href="http://www.americashealthrankings.org/ALL/air/2012">http://www.americashealthrankings.org/ALL/air/2012</a>
16 Family & Social Wellbeing	School Absence	Percent fourth-graders absent from school 5 or more days in the past month. Good predictor of academic success	Numerator: 4th-graders absent 5 or more days in the past month	Denominator: all 4th-graders	National Center for Education Statistics
17 Family & Social Wellbeing	Adult Asthma	Percent adults who currently have asthma	Numerator: Total current asthma cases among adult population ≥18	Denominator: Total adult population ≥18	Behavioral Risk Factor Surveillance System
18 Family & Social Wellbeing	Literacy—Child	Percent of children who were read to by a family member every day	Numerator: Days during the previous week on which family members read stories to young children: none; 1-3 days; 4-6 days; every day	Denominator: Children ages 0-5 (weighted)	National Survey of Children's Health (NSCH)
19 Family & Social Wellbeing	Physical Inactivity	Prevalence of children and adults not meeting physical activity state policy standards per week	Numerator: Number of children and adults not meeting public health policy standards for physical activity.	Denominator: Number of children and adults included in the identified data systems used to measure this indicator.	a. Youth Behavior Risk Surveillance (YRBSS) b. National Survey of Children's Health (NSCH) c. Behavioral Risk Factor Surveillance System (BRFSS)

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20 Family & Social Wellbeing	Chronic Stress/Resilience	Regions and metropolitan area capacity for resilience, measure by the Resilience Capacity Index	Numerator: Regions/Metros with very high resilience capacity	Denominator: Total number of regions/metros	Building Resilient Regions (BRR) Institute of Government Studies, The University of California Berkley <a href="http://brr.berkeley.edu/rci/">http://brr.berkeley.edu/rci/</a>
21 Family & Social Wellbeing	Pregnancy-Induced Hypertension	Percent of adult women with diagnosed hypertension during pregnancy	Numerator: Total number of women diagnosed with hypertension during pregnancy	Denominator: Total number of pregnant women	Vital Stats, National Vital Statistics System (NVSS), and the Pregnancy Risk Assessment Monitoring System (PRAMS)
22 Family & Social Wellbeing	Injury Physical/Sexual Abuse	Number of rapes or sexual assaults per 1,000 females age 12 and older	Numerator: Number of females age 12 and older who reported being raped or sexually assaulted	Denominator: Per 1,000 females age 12 and older	Bureau of Justice Statistics (BJS) National Crime and Victimization Survey (NCVS)
23 Family & Social Wellbeing	Single Parent-Headed Households	Percentage of children that live in household headed by single parent (by race/ethnicity, child's age [<6 and 6-17 years])	Numerator: Single parent households with related children under 18 years of age (<6 and 6-17)	Denominator: Total household that have related children under 18 years of age (<6 and 6-17)	American Community Survey (ACS) <a href="http://www.census.gov/acs/www/">http://www.census.gov/acs/www/</a>
24 Family & Social Wellbeing	Foster Care	Rate of children 0 to 17 in foster care per 1,000	Numerator: Number of children 0 to 17 in foster care included in the data system used to measure this indicator.	Denominator: Number of children age 0 to 17 in the state or geographical unit of interest	Adoption and Foster Care Analysis and Reporting System (AFCARS)
25 Health Care Access and Quality	Children With Adequate Health Insurance Coverage	Percent of children who have adequate insurance coverage	Numerator: Child has adequate health insurance coverage; (Alternatively, look at inadequate: Child has inadequate health insurance coverage or currently uninsured)	Denominator: Children age 0-17 years	National Survey of Children's Health (NSCH)

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26 Health Care Access and Quality	Early and Adequate Prenatal Care	The proportion of pregnant women who receive early and adequate prenatal care.	Numerator: 1) The number of women who initiated PNC in the 1st trimester in a calendar year and 2) the number of women who received adequate PNC based on the Kotelchuck index in a calendar year	Denominator: 1) The number of live births that occurred in the calendar year and 2) the number of live births in a calendar year	Vital records – certificates of live birth – NCHS. States can also use their own vital records data that may be more timely than that available via NCHS.
27 Health Care Access and Quality	Preconception Health Counseling	Percent of women who have discussed preconception health with a health care worker prior to pregnancy.	Numerator – Number of women who reported that they obtained preconception counseling	Denominator – Total number of women of childbearing age surveyed	Pregnancy Risk Assessment Monitoring System (PRAMS)
28 Health Care Access and Quality	Health Care Utilization - Adult	Percent of adults who report they have had a preventive health visit in the past year.	Numerator: Number of adults (18+ years) who reported having had a routine health checkup within the past year	Denominator: Adult population (18+ years)	Behavioral Risk Factor Surveillance System (BRFSS)
29 Health Care Access and Quality	Transition Services for Youth with Special Health Care Needs	Youth with special health care needs receive services necessary for a successful transition to adult life.	Numerator: CSHCN age 12-17 years whose doctors usually/always encourage increasing responsibility for self-care and (when needed) have discussed transitioning to adult health care, changing health care needs, and how to maintain insurance coverage; CSHCN age 12-17 who did not achieve this outcome.	Denominator: All Children with special health care needs age 12-17 years	National Survey of Children with Special Health Care Needs

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30	Mental Health	Depression (Suicide Attempt-Teen)	Percent of 9th-12th graders who have seriously considered or have attempted to commit suicide	Numerator: Teens reporting seriously considering or attempted suicide	Denominator: All teens completing the YRBS (9-12th) in states that participate in YRBS)	Youth Risk Behavior Surveillance System (YRBSS)
31	Mental Health	Mental Health Screening - Juvenile Facilities	The proportion of juvenile residential facilities that screen admissions for mental health problems.	Numerator: Number of juvenile residential facilities that screen all admitted clients for mental health problems	Denominator: Number of juvenile residential facilities	Juvenile Residential Facilities Census (JFRC), DOJ, OJJDP.
32	Nutrition	Household Food Security - SNAP Recipients	Percent of families with children receiving SNAP benefits in a given state compared to percent of families with children eligible for SNAP benefits	Numerator: # of families with children receiving SNAP benefits	Denominator: # of families with children below 130% Federal Poverty Line	United States Department of Agriculture (USDA) Economic Research Survey (ERS)
33	Public Health Capacity	Data Capacity to capture adverse childhood events	Prevalence of states collecting Adverse Childhood Events (ACES) data through the Behavioral Risk Factor Surveillance System	Numerator: Number of states/territories with ACES module on the annual BRFSS	Denominator: 50 states, the District of Columbia, Puerto Rico, the U.S. Virgin Islands, and Guam	CDC Behavior Risk Factor Surveillance System (BRFSS) Website (Use of Multiple Questionnaire Data) : <a href="http://www.cdc.gov/brfss/technical_infodata/surveydata/2010/2010_multiple.htm">http://www.cdc.gov/brfss/technical_infodata/surveydata/2010/2010_multiple.htm</a>
34	Public Health Capacity	Child Maltreatment (ratio of CPS investigation and alternative response workers to child population)	Ratio of CPS Investigation and Alternative Response workers to child population	Numerator: Number of CPS investigation and alternative response workers	Denominator: Child population as defined in ACF Child Maltreatment report.	Administration for Children and Families Children's Bureau: Child Maltreatment 2011. <a href="http://www.acf.hhs.gov/programs/cb/research-data-technology/statistics-research/child-maltreatment">http://www.acf.hhs.gov/programs/cb/research-data-technology/statistics-research/child-maltreatment</a>



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35 Reproductive Life Experiences	Abortion Access	Access to safe, legal abortions using the number of abortion care providers within each county.	Numerator: # of abortion care providers	Denominator: women age 15-44 by county	Jones RK and Kooistra, K., Abortion Incidence and Access to Services in the United States, 2008, Perspectives on Sexual and Reproductive Health, 2011, 43(1). Guttmacher Institute (data collected every 4 years), planned parenthood, National Abortion Federation Population data from: Census
36 Reproductive Life Experiences	STI-Chlamydia (all)	Chlamydia rate per 100,000 total population	Numerator: Total reported Chlamydia cases in the population	Denominator: Total population	CDC's National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention (NCHHSTP) Atlas
37 Reproductive Life Experiences	Preconception Risk Factor Score	Percent of women with 2 or more risk factors based on at-risk drinking, smoking, obesity, diabetes and frequent mental stress (Denny et al., J. Women's Health 2012)	Numerator: Weighted number of non-pregnant women age 18-44 responding to the Behavioral Risk Factor Surveillance System (BRFSS) survey that they had two or more risk factors (based on: at-risk drinking, smoking, obesity, diabetes, and frequent mental distress)	Denominator: Weighted number of non-pregnant women age 18-44 responding to the BRFSS survey	Behavioral Risk Factor Surveillance Survey (BRFSS)

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38 Reproductive Life Experiences	Birth Spacing / Inter-pregnancy Interval	Percentage of live births conceived within 18 months of a previous birth	Numerator: Women in states and territories who have implemented the Revised 2003 birth certificate who had less than 18 months between their previous live birth and the start of the pregnancy resulting in the most recent live birth.	Denominator: All women in states and territories who have implemented the Revised 2003 birth certificate who reported having a previous live birth.	Certificate of Live Birth - National Vital Statistics System (NVSS)
39 Reproductive Life Experiences	Maternal Age	Both maternal age and maternal age at first birth (<=19, 20-24, and 25+) were assessed for face validity, predictive power, wide availability, and malleability and inclusion in the Index. The latter maternal age variable was chosen over maternal age as “it reflects concern about delaying the first birth over the mother’s age at any given focal child’s birth”.	Numerator: Median Mother’s Age (years)	Denominator: Primiparous women (women who have only given birth to one child)delivering a live birth	Birth data set, which is part of the National Vital Statistics System (NVSS). NVSS contains all live births reported in the United States. The birth data set is the primary data set for analyzing birth trends and patterns in the United States. Birth data sets are available from Vital Stats Online and VitalStats.
40 Social Capital & Community Engagement, Social Cohesion	Residential Mobility for Children	Percent of children who live in the same house as they did a year ago	Numerator: Children (1 to 4 yrs., 5 - 17 yrs) who live in the same house as they did a year ago	Denominator: Total children (1-4 yrs, 5-17 yrs)	American Community Survey, variable #B07001

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41 Social Capital & Community Engagement, Social Cohesion	Adolescent Social Connectedness	Measure of social connectedness: Is there at least one teacher or other adult in this school that you can talk to if you have a problem?; and Can you talk with at least one of your parents or other adult family members about things that are important to you?	Numerator: The number (weighted) of parents of children age 6-17 who reported being contacted by the child's school about children's problems at the school. 2007 - (K7Q04)- <a href="http://www.childhealthdata.org/browse/survey/results?q=939">http://www.childhealthdata.org/browse/survey/results?q=939</a> 2010/11- How often did school contact parents about children's problems at school? (S7Q04 ) <a href="http://www.childhealthdata.org/browse/survey/results?q=641">http://www.childhealthdata.org/browse/survey/results?q=641</a>	Denominator: Total number (weighted) of respondents	National Survey of Children's Health <a href="http://www.childhealthdata.org/browse/survey/results?q=641">http://www.childhealthdata.org/browse/survey/results?q=641</a>
42 Social Capital & Community Engagement, Social Cohesion	Percent Teens Not Attending School and Not Working	Associated with poor health and economic outcomes	Numerator: Youth, ages 16-19 not enrolled in school, and not employed	Denominator: All youth, ages 16-19	American Community Survey (ACS), US Census
43 Social Capital & Community Engagement, Social Cohesion	Arrests	Arrests per 1,000 persons : all offenses	Numerator: Number of global arrests reported: 1) Number of arrests (adults 18+) 2) Number of arrests (children < 18) / juvenile arrests 3) Number of children in public schools with in or out of school suspensions	Denominator: population covered in arrest report and Department of Education data source 1) Total adult population 2) Total juvenile population 3) Total student population in public schools	Bureau of Justice Statistics. Based on FBI's Age, Sex, and Race Summarized Yearly Arrest Master Files (indicators 1 & 2); Department of Education (DOE) Civil Rights Data Collection (indicator 3) - <a href="http://ocrdata.ed.gov/">http://ocrdata.ed.gov/</a>

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44 Social Capital & Community Engagement, Social Cohesion	Education Index of Concentration at the Extremes (ICE), by Community	Percent of counties with high educational inequality, also an indicator of social capital	Numerator: # of residents in a census tract with a college degree as an indicator of advantage, calculated as: ICE=(College graduates–No High School)	Denominator: total population x 100,000	American Community Survey 2011, U.S. Bureau of the Census