

## Title V Outcome Measures and Performance Measures

Kansas Maternal and Child Health Services Block Grant

2023 Application/2021 Annual Report

NOM#	National Outcome Measures	Medicaid Measures	2016	2017	2018	2019	2020	Trend	HP2030	Sources
1	Percent of pregnant women who receive prenatal care beginning in the first trimester	CMS								1
	All		80.8%	81.2%	81.0%	80.9%	81.0%	●	-	
	Medicaid		70.2%	72.1%	71.7%	71.4%	72.3%	●		
	Non-Medicaid		85.8%	85.5%	85.3%	85.0%	85.3%	●		
2	Rate of severe maternal morbidity per 10,000 delivery hospitalizations		56.1	56.7	61.8	65.9	71.0	▲*	<b>61.8</b>	2
3	Maternal mortality rate per 100,000 live births (5-year average, 2014-2018, 2015-2019, 2016-2020)		-	-	14.8	16.7	19.9	▲	<b>15.7</b>	3
4	Percent of low birth weight deliveries (<2,500 grams)	CMS								1
	All		7.0%	7.4%	7.4%	7.6%	7.3%	▲*	-	
	Medicaid		8.8%	9.5%	9.9%	9.7%	9.3%	▲*		
	Non-Medicaid		6.1%	6.4%	6.4%	6.7%	6.4%	▲*		
5	Percent of preterm births (<37 weeks gestation)									1
	All		9.1%	9.6%	9.5%	10.1%	10.0%	▲*	<b>9.4%</b>	
	Medicaid		10.8%	11.3%	11.4%	11.9%	11.9%	▲*		
	Non-Medicaid		8.3%	8.8%	8.6%	9.3%	9.1%	▲*		
6	Percent of early term births (37, 38 weeks gestation)									1
	All		24.4%	25.6%	26.3%	27.2%	27.4%	▲*	-	
	Medicaid		26.7%	28.3%	28.4%	29.3%	29.3%	▲*		
	Non-Medicaid		23.3%	24.4%	25.3%	26.2%	26.6%	▲*		
7	Percent of non-medically indicated early elective deliveries	CMS	1.0%	1.0%	1.0%	1.0%	-	●	-	4
8	Perinatal mortality rate per 1,000 live births plus fetal deaths		6.7	5.9	6.2	5.3	6.1	▼	-	1,5,6
9.1	Infant mortality rate per 1,000 live births									
	All		5.9	6.0	6.4	5.3	6.5	▲	<b>5.0</b>	1,5
	Medicaid		8.1	8.4	7.9	7.2	8.7	●		1,7
	Non-Medicaid		4.8	4.7	5.5	4.3	4.3	▼		1,7

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9.2	Neonatal mortality rate per 1,000 live births		3.8	4.2	4.5	3.3	4.3	●	-	1,5
9.3	Postneonatal mortality rate per 1,000 live births		2.1	1.7	1.9	2.0	2.2	▲	-	1,5
9.4	Preterm-related mortality rate per 100,000 live births									1,7
	All		189.2	202.9	198.5	152.6	151.3	▼	-	
	Medicaid		226.5	236.0	229.5	143.0	168.4	▼		
	Non-Medicaid		173.3	184.7	181.7	153.6	145.2	▼		
9.5	Sudden Unexpected Infant Death (SUID) rate per 100,000 live births (ICD-10 codes: R95, R99, W75)		128.8	107.0	118.6	101.7	148.4	▲	-	1,5
10	Percent of women who drink alcohol <i>in the last 3 months of pregnancy</i>		-	-	-	-	-	-	-	8
11	Rate of neonatal abstinence syndrome per 1,000 birth hospitalizations		3.4	3.7	3.9	3.6	2.9	▼	-	2
12	Percent of eligible newborns screened for heritable disorders with on time physician notification for out of range screens who are followed up in a timely manner. (DEVELOPMENTAL)		-	-	-	-	-	-	-	9
13	Percent of children meeting the criteria developed for school readiness (DEVELOPMENTAL)		-	-	-	-	-	-	-	9
14	Percent of children, ages 1 through 17, who have decayed teeth or cavities in the past year (2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020)		13.0%	10.8%	10.5%	11.7%	11.3%	▼	-	9
15	Child mortality rate, ages 1 through 9, per 100,000		18.2	19.4	16.3	17.3	14.0	▼	-	5,10
16.1	Adolescent mortality rate, ages 10 through 19, per 100,000		34.3	40.2	39.7	37.5	45.5	▲	-	5,10
16.2	Adolescent motor vehicle mortality rate, ages 15 through 19, per 100,000 (3 year rolling average)		14.0	14.1	14.1	14.6	12.5	▼	-	5,10
16.3	Adolescent suicide rate, ages 15 through 19, per 100,000 (3 year rolling average)	CMS	11.6	14.5	17.8	19.6	19.3	▲*	-	5,10
17.1	Percent of children with special health care needs (CSHCN), ages 0 through 17 (2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020)		20.5%	20.7%	20.3%	20.5%	20.7%	●	-	9
17.2	Percent of children with special health care needs (CSHCN), ages 0 through 17, who receive care in a well-functioning system (2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020)		13.3%	15.9%	18.8%	20.8%	19.0%	▲	<b>19.5%</b>	9

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17.3	Percent of children, ages 3 through 17, diagnosed with an autism spectrum disorder (2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020)		2.3%	2.8%	2.4%	0.9%	1.2%	↓	-	9
17.4	Percent of children, ages 3 through 17, diagnosed with Attention Deficit Disorder/Attention Deficit Hyperactivity Disorder (ADD/ADHD) (2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020)		11.3%	10.4%	10.0%	9.2%	7.9%	↓*	-	9
18	Percent of children, ages 3 through 17, with a mental/behavioral condition who receive treatment or counseling (2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020)	CMS/P4P	56.5%	51.7%	52.7%	55.9%	49.2%	↓	-	9
19	Percent of children, ages 0 through 17, in excellent or very good health (2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020)		90.6%	91.0%	93.5%	93.3%	91.0%	●	-	9
20	Percent of children, ages 2 through 4, and adolescents, ages 10 through 17, who are obese (BMI at or above the 95th percentile)	CMS/P4P								
	Children ages 2 through 4 (2012, 2014, 2016, 2018)		13.1%	12.8%	12.5%	13.7%	-	●	-	11
	Adolescents ages 10 through 17 (2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020)		11.6%	13.0%	12.2%	10.6%	11.7%	↓	-	9
	Adolescents in <i>grades 9 through 12</i> (2009, 2011, 2013, 2017, 2019)		10.2%	12.6%	13.1%	15.1%	-	↑	-	12
21	Percent of children, ages 0 through 17, without health insurance		4.7%	5.2%	5.0%	5.8%	-	↑	-	13
22.1	Percent of children who have completed the combined 7-vaccine series (4:3:1:3*:3:1:4) by age 24 months (Birth year 2013, 2014, 2015, 2016, 2017)	CMS/P4P	74.0%	73.1%	73.2%	67.9%	73.7%	↓	-	14
22.2	Percent of children, ages 6 months through 17 years, who are vaccinated annually against seasonal influenza	CMS/P4P	54.7%	53.2%	63.3%	66.1%	56.7%	↑	-	14
22.3	Percent of adolescents, ages 13 through 17, who have received at least one dose of the HPV vaccine	CMS/P4P	-	-	62.3%	65.9%	63.3%	↑	-	14
22.4	Percent of adolescents, ages 13 through 17, who have received at least one dose of the Tdap vaccine	CMS/P4P	-	-	89.4%	91.9%	89.4%	●	-	14
22.5	Percent of adolescents, ages 13 through 17, who have received at least one dose of the meningococcal conjugate vaccine	CMS/P4P	-	-	75.3%	80.7%	83.3%	↑	-	14
23	Teen birth rate, ages 15 through 19, per 1,000 females		21.9	21.2	20.0	19.2	18.1	↓*	-	1,10

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24	Percent of women who experience postpartum depressive symptoms following a recent live birth	P4P	-	12.4%	14.7%	13.5%	14.3%	↑	-	8
25	Percent of children, ages 0 through 17, who were unable to obtain needed health care in the past year (2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020)		1.8%	2.1%	2.0%	2.8%	3.5%	↑*	-	9
NPM#	National Performance Measures	Medicaid Measures	2016	2017	2018	2019	2020	Trend	HP2030	Sources
1	<b>Well-Women Visit:</b> Percent of women, ages 18 through 44, with a preventive medical visit in the past year		-	-	71.4%	71.7%	72.2%	↑	-	15
2	<b>Low Risk Cesarean Deliveries:</b> Percent of cesarean deliveries among low-risk first births	CMS	23.8%	23.8%	24.2%	24.3%	24.6%	↑*	<b>23.6%</b>	1
3	<b>Perinatal Regionalization:</b> Percent of very low birth weight (VLBW) infants born in a hospital with a Level III+ Neonatal Intensive Care Unit (NICU)		87.7%	90.6%	88.7%	87.9%	88.4%	●	-	1
4	<b>Breastfeeding:</b>									
	A) Percent of infants who are ever breastfed		88.1%	88.5%	88.7%	88.9%	89.3%	↑*	-	1
	B) Percent of infants breastfed exclusively through 6 months (Birth year: 2016, 2017, 2018)		-	-	31.4%	31.6%	32.0%	↑	<b>42.4%</b>	14
5	<b>Safe Sleep:</b>									
	A) Percent of infants placed to sleep on their backs		-	80.2%	84.8%	84.4%	82.3%	●	<b>88.9%</b>	8
	B) Percent of infants placed to sleep on a separate approved sleep surface		-	37.3%	37.0%	41.2%	46.1%	↑	-	8
	C) Percent of infants placed to sleep without soft objects or loose bedding		-	44.3%	49.1%	54.1%	54.8%	↑*	-	8
6	<b>Developmental Screening:</b> Percent of children, ages 9 through 35 months, who received a developmental screening using a parent-completed screening tool in the past year	P4P	41.6%	37.8%	34.6%	36.9%	44.3%	↑	<b>35.8%</b>	9
7	<b>Child Injury:</b>									
	7.1 Rate of hospitalization for non-fatal injury per 100,000 children, ages 0 through 9		111.9	112.0	109.1	119.5	110.0	●	-	2, 10
	7.2 Rate of hospitalization for non-fatal injury per 100,000 adolescents, ages 10 through 19		246.2	261.6	250.0	267.2	256.3	↑	-	2, 10

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NPM#	National Performance Measures	Medicaid Measures	2016	2017	2018	2019	2020	Trend	HP2030	Sources
8	<i>Physical Activity:</i>	CMS/P4P								
	8.1 Percent of children, ages 6 through 11, who are physically active at least 60 minutes per day (2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020)		32.0%	26.7%	26.8%	32.7%	30.8%	↑	-	9
	8.2 Percent of adolescents, ages 12 through 17, who are physically active at least 60 minutes per day (2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020)		18.8%	19.3%	18.4%	20.8%	22.0%	↑	-	9
	8.2 Percent of adolescents in <i>grades 9 through 12</i> who report being physically active at least 60 minutes per day in the past week (2009, 2011, 2013, 2017, 2019)		30.2%	28.3%	26.5%	26.5%	-	↓	<b>30.6%</b>	12
9	<i>Bullying:</i>									
	Percent of adolescents, ages 12 through 17, who are bullied (2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020)		-	-	49.8%	43.7%	36.7%	↓	-	9
	Percent of adolescents, ages 12 through 17, who bully others (2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020)		-	-	22.1%	19.7%	17.4%	↓*	-	9
	Percent of adolescents in <i>grades 9 through 12</i> who report that they are bullied on school property or electronically in the past year (2011, 2013, 2017, 2019)		26.4%	27.9%	25.7%	27.1%	-	●	-	12
<b>10</b>	<b>Adolescent Well-Visit:</b> Percent of adolescents, ages 12 through 17, with a preventive medical visit in the past year (2016, 2016-2017, 2019, 2019-2020; <i>Due to wording changes in 2018, the 2018 estimate is not comparable to other years and is omitted.</i> )	CMS	79.8%	77.5%	-	75.8%	75.6%	↓*	<b>82.0%</b>	9
11	<i>Medical Home:</i> Percent of children with and without special health care needs, ages 0 through 17, who have a medical home (2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020)									9
	All		50.9%	50.6%	52.0%	53.1%	53.2%	↑*	<b>53.6%</b>	
	CSHCN		38.6%	46.1%	52.3%	57.1%	58.3%	↑*	-	
	Non-CSHCN		54.1%	51.8%	51.9%	52.1%	51.9%	↓	-	
<b>12</b>	<b>Transition:</b> Percent of adolescents with and without special health care needs, ages 12 through 17, who received services to prepare for the transitions to adult health care (2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020)									9
	All		15.9%	18.8%	21.9%	23.7%	24.2%	↑*	-	

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	CSHCN		16.6%	16.1%	20.9%	30.0%	33.5%	↑*	-	-
	Non-CSHCN		15.7%	19.6%	22.3%	21.2%	20.6%	↑	-	-
13	<i>Oral Health:</i>									
	13.1 Percent of women who had a preventive dental visit during pregnancy		-	44.9%	46.5%	50.0%	45.9%	↑	-	8
	13.2 Percent of children, ages 1 through 17, who had a preventive dental visit in the past year (2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020)	CMS	76.3%	78.1%	79.3%	79.5%	78.8%	↑	-	9
14	<i>Smoking During Pregnancy and Household Smoking:</i>									
	14.1 Percent of women who smoke during pregnancy									1
	All		10.2%	10.1%	9.5%	8.5%	8.2%	↓*	-	
	Medicaid		23.7%	23.3%	22.2%	20.4%	19.1%	↓*	-	
	Non-Medicaid		4.0%	4.1%	3.7%	3.4%	3.2%	↓*	-	
	14.2 Percent of children, ages 0 through 17, who live in households where someone smokes (2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020)		14.6%	14.7%	17.9%	19.6%	16.4%	↑	-	9
15	<i>Adequate Insurance Coverage:</i> Percent of children, ages 0 through 17, who are continuously and adequately insured (2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020)								-	9
	All		71.8%	68.0%	65.3%	65.5%	65.2%	↓*		
	CSHCN		70.1%	63.7%	60.8%	61.1%	59.0%	↓*		
	Non-CSHCN		72.2%	69.1%	66.5%	66.7%	66.9%	↓		
SPM#	State Performance Measures	Medicaid Measures	2016	2017	2018	2019	2020	Trend	HP2030	Sources
1	Postpartum Depression: Percent of women who experience postpartum depressive symptoms following a recent live birth	P4P	-	12.4%	14.7%	13.5%	14.3%	↑	-	8
2	Breastfeeding: Percent of infants breastfed exclusively through 6 months (Birth year: 2016, 2017, 2018)		-	-	31.4%	31.6%	32.0%	●	-	14

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3	Percent of participants reporting increased self-efficacy in translating knowledge into practice after attending a state sponsored workforce development event	-	-	-	-	-	-	-	-	16
4	Family Strengths: Percent of children whose family members know all of the time they have strengths to draw on when the family faces problems (2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020)	52.0%	52.9%	55.9%	55.9%	56.2%	↑*	-	-	9

### Key and Definitions

An "-" indicates the data were not available at the time of reporting.

The **arrow** indicates direction of the trend, if any, and the color indicates if the direction is positive (**green**), negative (**red**), or no definite trend apparent (**yellow**).

\*Statistically significant trend (p<0.05).

**HP2030:** Healthy People 2030 goal

**Medicaid and Non-Medicaid:** Based on the "principal source of payment for this delivery" as reported on the birth certificate.

**Medicaid Measure:** Based on if it is a quality care measure necessary for the national level or for Managed Care Organizations to report to state of Kansas

**CMS:** Centers for Medicare and Medicaid Services

**P4P:** Pay for Performance Measure for Managed Care Organizations to report to state of Kansas

**Bolded NPMs:** Selected National Performance Measures that are most closely aligned with Kansas priorities.

### Sources:

1. Kansas Department of Health and Environment (KDHE), Kansas birth data (resident)
2. Kansas Department of Health and Environment (KDHE), Kansas hospital discharge data (resident)
3. National Center for Health Statistics (NCHS), National Vital Statistics System (NVSS).
4. Centers for Medicare & Medicaid Services (CMS) Hospital Compare
5. Kansas Department of Health and Environment (KDHE), Kansas death data (resident)
6. Kansas Department of Health and Environment (KDHE), Kansas fetal death data (resident)
7. Kansas Department of Health and Environment (KDHE), Kansas linked birth and infant death data (resident)
8. Kansas Pregnancy Risk Assessment Monitoring System (PRAMS)
9. Health Resources and Services Administration (HRSA), National Survey of Children's Health (NSCH).
10. U.S. Census Bureau, Population Estimate, Bridged-Race Vintage data set
11. U.S. Department of Agriculture, Special Supplemental Nutrition Program for Women, Infants, and Children (WIC)
12. Centers for Disease Control and Prevention (CDC), Youth Risk Behavior Surveillance System (YRBSS)
13. U.S. Census Bureau, American Community Survey (ACS)
14. Centers for Disease Control and Prevention (CDC), National Immunization Survey (NIS)
15. Centers for Disease Control and Prevention (CDC), Behavioral Risk Factor Surveillance System (BRFSS): The BRFSS 2018 data is not directly comparable to years of BRFSS data before 2011 because of the changes in weighting methodology and the addition of the cell phone sampling frame. In 2018, 50 states, the District of Columbia, Guam, and Puerto Rico collected samples of interviews conducted by landline and cellular telephone.
16. Kansas Maternal & Child Health Sponsored Workforce Post-Event Surveys