

# Title V Outcome Measures and Performance Measures

Kansas Maternal and Child Health Services Block Grant

2025 Application/2023 Annual Report

Page 1

Measure Name	National Performance Measure or Standard Measure	Medicaid Measure	2018	2019	2020	2021	2022	Trend	HP2030	Sources
Adequate Insurance	Percent of children, ages 0 through 17, who are continuously and adequately insured (2017-2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022)									1
	All		64.9%	65.3%	65.0%	66.7%	65.7%	●		
	CSHCN		61.2%	62.1%	59.4%	59.6%	55.7%	↓		
	Non-CSHCN		65.9%	66.0%	66.3%	68.6%	68.5%	↑*		
Adolescent Well-Visit	<b>Percent of adolescents, ages 12 through 17, with a preventive medical visit in the past year (2019, 2019-2020, 2020-2021, 2021-2022; Due to wording changes in 2018, the 2018 estimate is not comparable to other years and is omitted.)</b>	CMS	-	76.6%	75.7%	72.2%	73.7%	↓		1
Breastfeeding	A) Percent of infants who are ever breastfed		88.7%	88.9%	89.3%	89.4%	90.5%	↑*		2
	B) Percent of children, ages 6 month through 2 years, who were breastfed exclusively for 6 months (Birth year: 2016, 2017, 2018, 2019, 2020)		31.4%	31.6%	32.0%	29.2%	22.2%	↓	42.4%	3
Bullying – Victimization	Percent of adolescents with and without special health care needs, ages 12 through 17, who are bullied (2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022; Due to wording differences in 2017, the 2017 estimate is not comparable to other years and is omitted.)									1
	All		49.2%	42.6%	35.8%	34.6%	42.5%	↓		
	CSHCN		65.8%	63.7%	54.2%	54.7%	64.2%	↓		
	Non-CSHCN		41.9%	35.1%	29.3%	27.1%	34.7%	↓		

\* Statistically significant trend (p<0.05). Trend assessed via Joinpoint regression software, where an increasing trend was considered as any significant increase in annual percent change (APC) or a non-significant APC > 0.5, a decreasing trend was considered as any significant decrease in APC or a non-significant decrease < -0.5, and no definite trend was considered as a non-significant APC between -0.5 and 0.5.

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2025 Application/2023 Annual Report

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Bullying – Perpetration	Percent of adolescents with and without special health care needs, ages 12 through 17, who bully others (2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022; <i>Due to wording differences in 2017, the 2017 estimate is not comparable to other years and is omitted.</i> )									1
	All		21.7%	19.0%	16.7%	16.4%	16.6%	↓*		
	CSHCN		31.3%	29.8%	27.1%	26.1%	24.9%	↓*		
	Non-CSHCN		17.5%	15.2%	13.0%	12.8%	13.5%	↓		
Developmental Screening	Percent of children, ages 9 through 35 months, who received a developmental screening using a parent-completed screening tool in the past year (2017-2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022)	P4P	35.5% <sup>†</sup>	37.6% <sup>†</sup>	44.6% <sup>†</sup>	40.9%	33.4%	↓		1
Injury Hospitalization – Adolescent	Rate of hospitalization for non-fatal injury per 100,000 adolescents, ages 10 through 19		250.0	267.2	256.3	253.9	222.9	↓		4,5
Injury Hospitalization – Child	Rate of hospitalization for non-fatal injury per 100,000 children, ages 0 through 9		109.1	119.5	110.0	114.6	117.7	↑		4,5
Low-Risk Cesarean Delivery	Percent of cesarean deliveries among low-risk first births	CMS	24.2%	24.3%	24.6%	23.9%	24.6%	●	<b>23.6%</b>	2
Medical Home	Percent of children with and without special health care needs, ages 0 through 17, who have a medical home (2017-2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022)									1

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Updated on June 17, 2024

## Title V Outcome Measures and Performance Measures

Kansas Maternal and Child Health Services Block Grant  
2025 Application/2023 Annual Report

Page 3

Measure Name	National Performance Measure or Standard Measure	Medicaid Measure	2018	2019	2020	2021	2022	Trend	HP2030	Sources
	All		52.4%	53.7%	53.5%	52.9%	52.7%	●	53.6%	
	CSHCN		53.2%	55.9%	56.9%	49.0%	50.2%	↓		
	Non-CSHCN		52.2%	53.2%	52.8%	53.9%	53.4%	↑		
Physical Activity – Adolescent	Percent of adolescents, ages 12 through 17, who are physically active at least 60 minutes per day (2017-2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022)	CMS/P4P	19.0%	21.2%	22.2%	19.4%	18.8%	↓		1
	Percent of adolescents, grades 9 through 12, who are physically active at least 60 minutes per day (2013, 2015, 2017, 2019, 2021)	CMS/P4P	28.3%	-	26.5%	26.5%	27.1%	↓	30.6%	6
Physical Activity – Child	Percent of children, ages 6 through 11, who are physically active at least 60 minutes per day (2017-2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022)	CMS/P4P	25.6%	32.3%	31.1%	30.7%	28.0%	●		1
Preventive Dental Visit – Child	Percent of children, ages 1 through 17, who had a preventive dental visit in the past year (2017-2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022)	CMS	98.2%	97.8%	97.7%	86.2%	81.1%	↓		1
Preventive Dental Visit - Pregnancy	Percent of women who had a preventive dental visit during pregnancy		46.5%	50.0%	45.9%	49.3%	48.9%	↑		7
Postpartum Visit	<b>A) Percent of women who attended a postpartum checkup</b>		90.6%	92.5%	89.6%	91.7%	92.1%	●		7
	<b>B) Percent of women who attended a postpartum checkup and received recommended care components</b>		74.9%	76.1%	80.6%	77.7%	79.0%	↑		7

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Updated on June 17, 2024

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Kansas Maternal and Child Health Services Block Grant

2025 Application/2023 Annual Report

Page 4

Measure Name	National Performance Measure or Standard Measure	Medicaid Measure	2018	2019	2020	2021	2022	Trend	HP2030	Sources
Risk-Appropriate Perinatal Care	Percent of very low birth weight (VLBW) infants born in a hospital with a Level III+ Neonatal Intensive Care Unit (NICU)		88.7%	87.9%	88.4%	86.8%	88.4%	●		2
Smoking – Household	Percent of children, ages 0 through 17, who live in households where someone smokes (2017-2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022)		18.0%	19.5%	16.2%	12.6%	10.5%	↓*		1
Smoking – Pregnancy	Percent of women who smoke during pregnancy									2
	All		9.5%	8.5%	8.2%	6.9%	5.5%	↓*		
	Medicaid		22.2%	20.4%	19.1%	16.7%	12.9%	↓*		
	Non-Medicaid		3.7%	3.4%	3.2%	2.6%	2.1%	↓*		
Safe Sleep	<b>A) Percent of infants placed to sleep on their backs</b>		84.8%	84.4%	82.3%	82.2%	81.1%	↓*		7
	<b>B) Percent of infants placed to sleep on a separate approved sleep surface</b>		37.0%	41.2%	46.1%	47.7%	43.0%	↑		
	<b>C) Percent of infants placed to sleep without soft objects or loose bedding</b>		49.1%	54.1%	54.8%	61.1%	60.8%	↑*		
Transition	Percent of adolescents with and without special health care needs, ages 12 through 17, who received services to prepare for the transition to adult health care (2017-2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022)									1
	All		22.4%	23.7%	23.9%	19.4%	20.1%	↓		
	CSHCN		22.0%	30.5%	32.9%	25.2%	24.3%	↓		
	Non-CSHCN		22.6%	21.3%	20.8%	17.2%	18.5%	↓		

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## Title V Outcome Measures and Performance Measures

Kansas Maternal and Child Health Services Block Grant  
2025 Application/2023 Annual Report

Page 5

Measure Name	National Performance Measure or Standard Measure	Medicaid Measure	2018	2019	2020	2021	2022	Trend	HP2030	Sources
Well-Woman Visit	Percent of women, ages 18 through 44, with a preventive medical visit in the past year		71.4%	71.7%	72.2%	72.4%	74.0%	↑*		8

Measure Name	National Outcome Measure	Medicaid Measure	2018	2019	2020	2021	2022	Trend	HP2030	Sources
ADD or ADHD	Percent of children, ages 3 through 17, diagnosed with Attention Deficit Disorder/Attention Deficit Hyperactivity Disorder (ADD/ADHD) (2017-2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022)		10.2%	8.4%	7.6%	9.0%	10.2%	↑		1
Adolescent Mortality	Adolescent mortality rate, ages 10 through 19, per 100,000		39.7	37.5	45.5	49.7	46.8	↑		5,9
Adolescent Motor Vehicle Death	Adolescent motor vehicle mortality rate, ages 15 through 19 per 100,000 (3-year rolling average)		14.1	14.6	12.5	12.4	12.3	↓		5,9
Adolescent Suicide	Adolescent suicide rate, ages 10 through 19 per 100,000 (3-year rolling average)	CMS	10.7	11.6	11.6	11.2	10.6	↓		5,9
Autism	Percent of children, ages 3 through 17, diagnosed with an autism spectrum disorder (2017-2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022)		2.6%†	0.8%	1.2%	2.2%	2.7%	↑		1
Children's Health Status	Percent of children, ages 0 through 17, in excellent or very good health (2017-2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022)		93.0%	93.4%	91.0%	90.9%	90.8%	↓		1
Child Mortality	Child mortality rate, ages 1 through 9, per 100,000		16.3	17.3	14.0	18.3	19.0	↑		5,9

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CSHCN	Percent of children with special health care needs (CSHCN), ages 0 through 17 (2017-2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022)		21.6%	18.3%	19.2%	20.7%	22.1%	↑		1
Drinking During Pregnancy	Percent of women who drink alcohol in the last 3 months of pregnancy		-	-	-	-	-			7
Early Elective Delivery	Percent of non-medically indicated early elective deliveries	CMS	1.0%	1.0%	-	2.0%	2.0%	↑		10
Early Term Birth	Percent of early term births (37, 38 weeks)									2
	All		26.3%	27.2%	27.4%	28.8%	29.6%	↑*		
	Medicaid		28.4%	29.3%	29.3%	31.1%	31.8%	↑*		
	Non-Medicaid		25.3%	26.2%	26.6%	27.9%	28.6%	↑*		
Forgone Health Care	Percent of children, ages 0 through 17, who were unable to obtain needed health care in the past year (2017-2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022)		2.1%	2.7%	3.4%	3.1%	2.5%	↑		1
Infant Mortality	Infant mortality rate per 1,000 live births									
	All		6.4	5.3	6.5	5.3	5.8	↓	<b>5.0</b>	2,9
	Medicaid		7.9	7.2	8.7	7.0	6.7	↓		2,11
	Non-Medicaid		5.5	4.3	4.3	3.5	4.0	↓		2,11
Neonatal Mortality	Neonatal mortality rate per 1,000 live births		4.5	3.3	4.3	3.1	3.7	↓		2,9
Postneonatal Mortality	Postneonatal mortality rate per 1,000 live births		1.9	2.0	2.2	2.2	2.1	↑		2,9
Preterm-Related Mortality	Preterm-related mortality rate per 100,000 live births									2,11
	All		198.5	152.6	151.3	123.9	139.6	↓		
	Medicaid		229.5	143.0	168.4	114.2	120.5	↓		

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2025 Application/2023 Annual Report

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	Non-Medicaid		181.7	153.6	145.2	126.6	150.4	↓		
SUID Mortality	Sudden Unexpected Infant Death (SUID) rate per 100,000 live births (ICD-10 codes: R95, R99, W75)		118.6	101.7	148.4	138.3	110.5	↑		2,9
Low Birth Weight	Percent of low birth weight deliveries (<2,500 grams)	CMS								2
	All		7.4%	7.6%	7.3%	7.4%	7.9%	↑		
	Medicaid		9.9%	9.7%	9.3%	9.5%	9.9%	●		
	Non-Medicaid		6.4%	6.7%	6.4%	6.5%	6.9%	↑		
Mental Health Treatment	Percent of children, ages 3 through 17, with a mental/behavioral condition who receive treatment or counseling (2017-2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022)	CMS/P4P	54.2% <sup>†</sup>	54.7% <sup>†</sup>	47.5%	50.8%	58.0%	↑		1
Maternal Mortality	Maternal mortality rate per 100,000 live births (5-year rolling averages)		14.8	16.7	19.9	20.9	22.8	↑*	<b>15.7</b>	12
Neonatal Abstinence Syndrome	Rate of neonatal abstinence syndrome per 1,000 birth hospitalizations		3.9	3.6	2.9	3.4	3.7	↓		4
Newborn Screening Timely Follow-Up	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)		-	-	-	-	-			13
Obesity	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, 2020)		13.1%	12.8%	12.5%	13.7%	12.2%	●		14

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2025 Application/2023 Annual Report

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	Children and adolescents ages 6 through 17 (2017-2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022)		13.1%	14.0%	14.6%	14.5%	14.9%	↑*		1
	Adolescents in <i>grades 9 through 12</i> (2013, 2015, 2017, 2019, 2021)		12.6%	-	13.1%	15.1%	17.0%	↑		6
Early Prenatal Care	Percent of pregnant women who receive prenatal care beginning in the first trimester	CMS								2
	All		81.0%	80.9%	81.0%	81.9%	80.6%	●		
	Medicaid		71.7%	71.4%	72.3%	75.1%	73.5%	↑		
	Non-Medicaid		85.3%	85.0%	85.3%	85.4%	84.2%	●		
Perinatal Mortality	Perinatal mortality rate per 1,000 live births plus fetal deaths		6.2	5.3	6.1	5.8	6.1	↑		2,9,15
Postpartum Depression	Percent of women who experience postpartum depressive symptoms following a recent live birth	P4P	14.7%	13.5%	14.3%	15.1%	11.9%	↓		7
Preterm Birth	Percent of preterm births (<37 weeks)									2
	All		9.5%	10.1%	10.0%	9.8%	10.5%	↑	<b>9.4%</b>	
	Medicaid		11.4%	11.9%	11.9%	11.7%	12.0%	↑		
	Non-Medicaid		8.6%	9.3%	9.1%	9.0%	9.8%	↑		
Severe Maternal Morbidity	Rate of severe maternal morbidity per 10,000 delivery hospitalizations		61.8	65.9	71.0	70.0	69.4	↑		4
CSHCN Systems of Care	Percent of children with special health care needs (CSHCN), ages 0 through 17, who receive care in a well-functioning system (2017-2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022)		19.5%	20.9%	18.7%	14.2%	14.7%	↓	<b>19.5%</b>	1
School Readiness	Percent of children meeting the criteria developed for school readiness (DEVELOPMENTAL)		-	-	-	-	-			1

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2025 Application/2023 Annual Report

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Teen Births	Teen birth rate, ages 15 through 19, per 1,000 females		20.0	19.2	18.1	16.3	16.2	↓*		2,5
Tooth Decay or Cavities	Percent of children, ages 1 through 17, who have decayed teeth or cavities in the past year (2017-2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022)		10.2%	11.5%	11.0%	12.1%	11.4%	↑		1
Uninsured	Percent of children, ages 0 through 17, without health insurance		5.0%	5.8%	-	4.9%	4.9%	↓		16
Childhood Vaccination	Percent of children who have completed the combined 7-vaccine series (4:3:1:3*:3:1:4) by age 24 months (Birth year 2014, 2015, 2016, 2017, 2018)	CMS/P4P	73.1%	73.2%	67.9%	73.7%	68.0%	↓		3
Flu Vaccination	Percent of children, ages 6 months through 17 years, who are vaccinated annually against seasonal influenza (2018-2019, 2019-2020, 2020-2021, 2021-2022, 2022-2023)	CMS/P4P	63.3%	66.1%	56.7%	55.8%	55.8%	↓		3
HPV Vaccination	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%	76.5%	73.4%	↑		3
Meningitis Vaccination	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%	86.0%	85.9%	↑*		3
Tdap Vaccination	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%	87.8%	89.2%	↓		3

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Postpartum Depression	Percent of women who experience postpartum depressive symptoms following a recent live birth	P4P	14.7%	13.5%	14.3%	15.1%	11.9%	↓		7

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Breastfeeding – Exclusivity	Percent of children, ages 6 month through 2 years, who were breastfed exclusively for 6 months (Birth year: 2016, 2017, 2018, 2019, 2020)		31.4%	31.6%	32.0%	29.2%	22.2%	↓	<b>42.4%</b>	3
Workforce Development	Percent of participants reporting increased self-efficacy in translating knowledge into practice after attending a state sponsored workforce development event)		-	-	-	-	90.6%			17
Family Strengths	Percent of children whose family members know all of the time they have strengths to draw on when the family faces problems		55.7%	56.2%	56.6%	60.2%	60.3%	↑*		1

Key and Definitions
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The <b>arrow</b> indicates direction of the trend, if any, and the color indicates if the direction is positive ( <b>green</b> ), negative ( <b>red</b> ), or no definite trend apparent ( <b>orange</b> ). *Statistically significant trend (p<0.05). Trend assessed via Joinpoint regression software, where an increasing trend was considered as any significant increase in annual percent change (APC) or a non-significant APC > 0.5, a decreasing trend was considered as any significant decrease in APC or a non-significant decrease < -0.5, and no definite trend was considered as a non-significant APC between -0.5 and 0.5.
<b>HP2030:</b> Healthy People 2030 goal
<b>Medicaid and Non-Medicaid:</b> Based on the “principal source of payment for this delivery” as reported on the birth certificate.
<b>Medicaid Measure:</b> 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
<b>CMS:</b> Centers for Medicare and Medicaid Services
<b>P4P:</b> Pay for Performance Measure for Managed Care Organizations to report to state of Kansas
<b>Bolded NPMs:</b> Selected National Performance Measures that are most closely aligned with Kansas priorities.

**Sources:**

1. Health Resources and Services Administration (HRSA), National Survey of Children’s Health (NSCH)
2. Kansas Department of Health and Environment (KDHE), Kansas birth data (resident)
3. Centers for Disease Control and Prevention (CDC), National Immunization Survey (NIS)
4. Kansas Department of Health and Environment (KDHE), Kansas hospital discharge data (resident)
5. U.S. Census Bureau, Population Estimate, Single-Race Vintage data set
6. Centers for Disease Control and Prevention (CDC), Youth Risk Behavior Surveillance System (YRBSS)
7. Kansas Department of Health and Environment (KDHE), Kansas Pregnancy Risk Assessment Monitoring System (PRAMS)

\* Statistically significant trend (p<0.05). Trend assessed via Joinpoint regression software, where an increasing trend was considered as any significant increase in annual percent change (APC) or a non-significant APC > 0.5, a decreasing trend was considered as any significant decrease in APC or a non-significant decrease < -0.5, and no definite trend was considered as a non-significant APC between -0.5 and 0.5.

† Estimate is statistically unreliable and should be interpreted with caution. Criteria for reliability can be found in the [Federally Available Data resource documents](#) released by the Maternal and Child Health Bureau (MCHB) of the Health Resources and Services Administration (HRSA).

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

Updated on June 17, 2024



# Title V Outcome Measures and Performance Measures

Kansas Maternal and Child Health Services Block Grant  
2025 Application/2023 Annual Report

Page 11



8. Centers for Disease Control and Prevention (CDC), Behavioral Risk Factor Surveillance System (BRFSS)
9. Kansas Department of Health and Environment (KDHE), Kansas death data (resident)
10. Centers for Medicare & Medicaid Services (CMS) Hospital Compare
11. Kansas Department of Health and Environment (KDHE), Kansas linked birth and infant death data (resident)
12. National Center for Health Statistics (NCHS), National Vital Statistics System (NVSS)
13. American Public Health Laboratories
14. U.S. Department of Agriculture, Special Supplemental Nutrition Program for Women, Infants, and Children (WIC)
15. Kansas Department of Health and Environment (KDHE), Kansas fetal death data (resident)
16. U.S. Census Bureau, American Community Survey (ACS)
17. Kansas Department of Health and Environment (KDHE), Kansas Maternal & Child Health Sponsored Workforce Post-Event Surveys: Data available for 2022 Q4 onward only.

\* Statistically significant trend ( $p < 0.05$ ). Trend assessed via Joinpoint regression software, where an increasing trend was considered as any significant increase in annual percent change (APC) or a non-significant APC  $> 0.5$ , a decreasing trend was considered as any significant decrease in APC or a non-significant decrease  $< -0.5$ , and no definite trend was considered as a non-significant APC between  $-0.5$  and  $0.5$ .

† Estimate is statistically unreliable and should be interpreted with caution. Criteria for reliability can be found in the [Federally Available Data resource documents](#) released by the Maternal and Child Health Bureau (MCHB) of the Health Resources and Services Administration (HRSA).

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