



Prevalence of Selected Maternal and Child Health Indicators for South Dakota, Pregnancy Risk Assessment Monitoring System (PRAMS), 2016–2020

Health Indicator	2016 ^z		2017		2018		2019		2020		Overall 2020 ^{ll}
	N [#]	% (95% CI) ^{nl}	N [#]	% (95% CI) ^{nl}	N [#]	% (95% CI) ^{nl}	N [#]	% (95% CI) ^{nl}	N [#]	% (95% CI) ^{nl}	% (95% CI) ^{nl}
Nutrition											
• Multivitamin use ≥4 times a week during the month before pregnancy			1099	48.2 (44.9-51.6)	997	46.9 (43.4-50.5)	990	49.0 (45.6-52.4)	973	47.9 (44.3-51.4)	43.6 (42.9-44.4)
Pre-pregnancy Weight											
• Underweight (body mass index [BMI] <18.5 kg/m ²)			1072	4.0 (2.9-5.6)	966	2.6 (1.7-3.9)	975	0.9 (0.5-1.7)	904	2.2 (1.3-3.6)	3.2 (2.9-3.5)
• Overweight (BMI 25–29.9 kg/m ²)			1072	24.9 (22.0-27.9)	966	28.2 (25.0-31.6)	975	24.9 (22.0-28.0)	904	28.8 (25.7-32.2)	26.1 (25.5-26.8)
• Obese (BMI ≥30 kg/m ²)			1072	25.6 (22.7-28.7)	966	22.4 (19.6-25.4)	975	30.8 (27.6-34.1)	904	29.0 (25.8-32.4)	27.7 (27.0-28.4)
Substance Use											
• Any cigarette smoking											
• During the 3 months before pregnancy			1106	23.6 (21.0-26.4)	996	24.9 (21.9-28.1)	998	22.9 (20.3-25.8)	972	18.8 (16.3-21.6)	14.0 (13.4-14.5)
• During the last 3 months of pregnancy			1106	9.6 (7.9-11.6)	994	10.4 (8.4-12.9)	998	9.5 (7.7-11.5)	972	8.7 (6.9-10.8)	6.5 (6.2-6.9)
• Postpartum			1106	14.2 (12.2-16.5)	993	16.4 (13.9-19.3)	997	14.9 (12.6-17.4)	969	12.3 (10.3-14.7)	8.8 (8.3-9.2)
• Any e-cigarette use											
• During the 3 months before pregnancy			1106	2.5 (1.7-3.8)	995	4.4 (3.0-6.5)	995	4.6 (3.3-6.4)	969	6.5 (4.8-8.7)	5.2 (4.9-5.6)
• During the last 3 months of pregnancy			1105	0.3 (0.1-0.8)	996	1.2 (0.6-2.4)	995	0.9 (0.5-1.8)	970	1.9 (1.1-3.3)	1.5 (1.3-1.7)
• Hookah use in the last 2 years			1093	3.1 (2.2-4.5)	986	2.4 (1.5-3.7)	981	2.4 (1.5-3.6)	967	2.4 (1.5-3.8)	4.4 (4.1-4.8)
• Heavy drinking (≥8 drinks a week) during the 3 months before pregnancy			1108	3.3 (2.3-4.8)	991	3.0 (1.9-4.6)	997	3.9 (2.8-5.6)	969	3.7 (2.6-5.4)	3.0 (2.8-3.3)
Intimate Partner Violence (IPV)[‡]											
• Experienced IPV during the 12 months before pregnancy by a husband or partner and/or by an ex-husband or ex-partner			1109	3.8 (2.8-5.2)	994	4.4 (3.2-6.0)	993	4.2 (3.1-5.7)	966	3.7 (2.7-5.1)	2.5 (2.3-2.8)
• Experienced IPV during pregnancy by a husband or partner and/or by an ex-husband or ex-partner			1106	2.5 (1.7-3.6)	996	3.4 (2.3-5.0)	989	2.1 (1.4-3.0)	961	2.5 (1.7-3.6)	1.7 (1.5-1.9)
Depression											
• Self-reported depression in the 3 months before pregnancy			1119	15.8 (13.6-18.4)	1011	15.5 (13.1-18.3)	1012	20.0 (17.4-23.0)	969	18.3 (15.7-21.3)	15.5 (15.0-16.1)
• Self-reported depression during pregnancy			1103	14.9 (12.7-17.4)	996	16.7 (14.1-19.7)	997	18.1 (15.6-21.0)	962	17.4 (14.8-20.3)	15.2 (14.7-15.8)
• Self-reported postpartum depressive symptoms ^{**}			1098	14.3 (12.2-16.8)	995	13.0 (10.9-15.5)	990	12.6 (10.6-15.0)	960	12.6 (10.5-15.2)	13.4 (12.9-13.9)
Health Care Services											
• Health care visit in the 12 months before pregnancy			1099	71.6 (68.7-74.4)	996	69.2 (65.9-72.3)	990	72.5 (69.5-75.3)	969	66.4 (63.1-69.5)	66.0 (65.3-66.8)
• Began prenatal care in 1st trimester			1111	86.3 (84.0-88.3)	1002	83.3 (80.4-85.8)	984	86.5 (84.0-88.6)	928	85.6 (83.1-87.8)	87.1 (86.5-87.6)
• Had a flu shot in the 12 months before delivery			1112	74.2 (71.1-77.0)	995	74.7 (71.5-77.7)	993	76.8 (73.8-79.6)	967	76.0 (72.8-78.9)	60.9 (60.1-61.7)
• Had maternal postpartum checkup			1115	91.2 (89.7-92.6)	1003	89.4 (87.2-91.2)	996	89.6 (87.6-91.3)	965	87.4 (85.3-89.2)	88.1 (87.6-88.6)
Pregnancy Intention											
• Mistimed			1092	18.0 (15.6-20.7)	988	18.0 (15.3-21.0)	985	18.6 (16.0-21.5)	965	18.7 (16.1-21.8)	17.7 (17.2-18.4)
• Unwanted pregnancy			1092	6.8 (5.4-8.6)	988	5.3 (3.9-7.1)	985	5.4 (4.2-7.0)	965	6.4 (5.0-8.2)	6.3 (6.0-6.7)
• Unsure whether wanted pregnancy			1092	17.7 (15.4-20.4)	988	15.8 (13.4-18.5)	985	17.3 (14.9-20.0)	965	17.5 (15.0-20.2)	15.5 (15.0-16.1)
• Intended pregnancy			1092	57.4 (54.1-60.6)	988	61.0 (57.4-64.4)	985	58.6 (55.3-62.0)	965	57.4 (53.9-60.8)	60.4 (59.6-61.1)

Health Indicator	2016 [≥]		2017		2018		2019		2020		Overall 2020 [¶]
	N [#]	% (95% CI) [¶]	N [#]	% (95% CI) [¶]	N [#]	% (95% CI) [¶]	N [#]	% (95% CI) [¶]	N [#]	% (95% CI) [¶]	% (95% CI) [¶]
Postpartum^{††} Family Planning											
• Use of any postpartum contraception ^{††††}			1092	76.1 (73.2-78.9)	988	76.3 (73.2-79.2)	991	79.3 (76.4-82.0)	963	77.2 (74.1-80.0)	74.5 (73.9-75.2)
• Highly effective contraceptive methods											
• Male or female sterilization			1092	9.2 (7.5-11.3)	988	11.8 (9.6-14.6)	991	11.5 (9.5-13.9)	963	11.1 (9.0-13.5)	10.9 (10.4-11.4)
• Long-acting reversible contraceptive method ^{§§}			1092	19.3 (16.7-22.1)	988	19.7 (17.0-22.7)	991	19.1 (16.5-22.0)	963	16.1 (13.6-18.9)	16.7 (16.1-17.3)
• Moderately effective contraceptive methods ^{§§}			1092	26.3 (23.4-29.5)	988	24.0 (21.0-27.3)	991	23.4 (20.5-26.5)	963	25.2 (22.2-28.4)	24.5 (23.9-25.2)
• Least effective contraceptive methods ^{§§}			1092	21.4 (18.6-24.3)	988	20.8 (18.0-23.9)	991	25.3 (22.4-28.5)	963	24.8 (21.8-28.0)	22.4 (21.8-23.1)
Oral Health											
• Teeth cleaned during pregnancy by a dentist or dental hygienist			1121	47.7 (44.4-51.0)	1007	48.7 (45.1-52.3)	1005	50.3 (46.9-53.7)	974	41.6 (38.1-45.1)	40.0 (39.3-40.8)
Health Insurance Status One Month Before Pregnancy^{¶¶}											
• Private insurance			1026	67.3 (64.5-69.9)	957	68.6 (65.5-71.6)	951	69.0 (66.2-71.7)	929	66.9 (63.9-69.8)	61.8 (61.0-62.5)
• Medicaid			1026	16.0 (13.9-18.2)	957	14.3 (12.2-16.6)	951	14.7 (12.7-16.9)	929	14.3 (12.3-16.5)	23.5 (22.9-24.1)
• No insurance			1026	16.8 (14.6-19.1)	957	17.1 (14.6-19.9)	951	16.3 (14.1-18.7)	929	18.8 (16.3-21.5)	14.0 (13.4-14.5)
Health Insurance Status for Prenatal Care^{¶¶}											
• Private insurance			995	64.9 (62.0-67.8)	930	66.3 (63.1-69.4)	922	66.7 (63.7-69.5)	889	65.4 (62.2-68.4)	59.6 (58.8-60.3)
• Medicaid			995	31.8 (29.0-34.7)	930	28.9 (26.0-32.1)	922	29.3 (26.6-32.2)	889	30.6 (27.6-33.6)	36.6 (35.8-37.3)
• No insurance			995	3.3 (2.3-4.5)	930	4.7 (3.4-6.6)	922	4.0 (2.9-5.6)	889	4.1 (2.9-5.6)	2.8 (2.5-3.1)
Health Insurance Status Postpartum^{††¶¶}											
• Private insurance			1028	66.6 (63.8-69.3)	954	66.8 (63.7-69.8)	942	67.2 (64.4-70.0)	925	65.9 (62.8-68.8)	56.4 (55.6-57.2)
• Medicaid			1028	17.1 (15.1-19.3)	954	17.6 (15.2-20.3)	942	17.8 (15.7-20.1)	925	22.3 (19.8-25.0)	35.4 (34.7-36.1)
• No insurance			1028	16.2 (14.1-18.6)	954	15.5 (13.3-18.1)	942	15.0 (12.8-17.5)	925	11.8 (9.9-14.1)	7.2 (6.8-7.7)
Infant Sleep Practices											
• Baby most often laid on back to sleep			1091	87.6 (85.3-89.7)	982	87.0 (84.3-89.3)	982	86.6 (84.0-88.8)	957	87.8 (85.2-89.9)	79.5 (78.9-80.2)
Breastfeeding Practices											
• Ever breastfed			1096	89.4 (87.4-91.2)	989	91.7 (89.6-93.4)	989	89.7 (87.6-91.5)	959	89.9 (87.7-91.7)	87.9 (87.3-88.4)
• Any breastfeeding at 8 weeks			1087	73.4 (70.5-76.2)	986	75.7 (72.6-78.6)	981	74.1 (71.1-76.9)	946	74.4 (71.2-77.3)	68.5 (67.8-69.3)

[≥] Did not participate in 2016.

[¶] PRAMS sites aggregated for 2020: Alabama, Alaska, Arizona, Arkansas, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, Hawaii, Illinois, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, New Hampshire, New Jersey, New Mexico, New York City, North Dakota, Oregon, Pennsylvania, Puerto Rico, South Dakota, Tennessee, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming that met the required 50% response rate threshold for inclusion.

[#] Unweighted sample size.

[¶] Weighted percentage (95% confidence interval [CI]).

[†] Defined as being pushed, hit, slapped, kicked, choked, or physically hurt in any way by a husband or partner and/or by an ex-husband or ex-partner. In 2016 (Phase 8 questionnaire), the question response options were expanded to include “my ex-husband or ex-partner” in addition to “my husband or partner.”

^{**} Defined as “always” or “often” feeling down, depressed, or hopeless or having little interest or little pleasure in doing things she usually enjoyed since delivery.

^{††} Postpartum defined as the time the PRAMS survey was completed.

^{†††} Defined as using any kind of birth control postpartum (female or male sterilization, intrauterine device (IUD), contraceptive implant, birth control pills, shots or injections, contraceptive patch, vaginal ring, condoms, rhythm method or natural family planning, withdrawal).

^{§§} Long-acting reversible contraception (LARC) methods include IUD or contraceptive implant. Moderately effective methods include birth control pills, shots or injections (e.g., Depo-Provera), contraceptive patch, and vaginal ring. Least effective methods include condom, rhythm method or natural family planning, and withdrawal. Women who selected the “other” write-in option were excluded from the analysis.

^{¶¶} Insurance coded as Medicaid (Medicaid or state-named Medicaid program), Private (private only, any other insurance in combination with private, or TRICARE or other military insurance), or No insurance (no insurance or Indian Health Service (IHS) only; in Alaska, coverage by the Alaska Tribal Health System was part of the IHS response option). Other state-specific government plans or programs, such as the Children’s Health Insurance Program (CHIP) or State Children’s Health Insurance Program (SCHIP), were excluded from estimates.