



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

Health Indicator	2016		2017 ^v		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	1070	40.4 (36.3-44.6)					628	42.6 (37.2-48.2)	1223	43.6 (40.0-47.4)	43.6 (42.9-44.4)
Pre-pregnancy Weight											
• Underweight (body mass index [BMI] <18.5 kg/m ²)	1040	5.2 (3.6-7.5)					606	4.3 (2.4-7.7)	1178	4.0 (2.7-5.8)	3.2 (2.9-3.5)
• Overweight (BMI 25–29.9 kg/m ²)	1040	23.5 (20.1-27.4)					606	25.8 (21.2-31.0)	1178	27.1 (23.7-30.7)	26.1 (25.5-26.8)
• Obese (BMI ≥30 kg/m ²)	1040	19.3 (16.1-22.9)					606	23.4 (19.0-28.6)	1178	23.6 (20.6-27.0)	27.7 (27.0-28.4)
Substance Use											
• Any cigarette smoking											
• During the 3 months before pregnancy	1071	14.7 (11.9-18.0)					619	14.3 (10.6-19.1)	1207	9.6 (7.7-11.9)	14.0 (13.4-14.5)
• During the last 3 months of pregnancy	1070	4.9 (3.3-7.3)					621	5.8 (3.5-9.6)	1209	3.0 (2.0-4.4)	6.5 (6.2-6.9)
• Postpartum	1064	7.8 (5.8-10.5)					617	7.1 (4.3-11.4)	1212	4.1 (2.9-5.6)	8.8 (8.3-9.2)
• Any e-cigarette use											
• During the 3 months before pregnancy	1044	4.8 (3.2-7.0)					610	7.7 (4.9-11.9)	1206	9.2 (7.0-11.8)	5.2 (4.9-5.6)
• During the last 3 months of pregnancy	1045	0.9 (0.4-2.2)					609	0.6 (0.3-1.2)	1207	2.1 (1.1-3.8)	1.5 (1.3-1.7)
• Hookah use in the last 2 years	1046	3.4 (2.2-5.3)					610	3.5 (1.8-6.8)	1195	2.0 (1.2-3.3)	4.4 (4.1-4.8)
• Heavy drinking (≥8 drinks a week) during the 3 months before pregnancy	1057	3.3 (2.1-4.9)					617	2.9 (1.7-5.0)	1204	3.7 (2.6-5.3)	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	1056	3.1 (1.9-5.0)					612	1.9 (1.1-3.2)	1206	2.2 (1.4-3.5)	2.5 (2.3-2.8)
• Experienced IPV during pregnancy by a husband or partner and/or by an ex-husband or ex-partner	1053	2.3 (1.3-3.9)					609	1.4 (0.7-2.7)	1196	1.6 (0.9-2.8)	1.7 (1.5-1.9)
Depression											
• Self-reported depression in the 3 months before pregnancy	1068	7.5 (5.7-10.0)					624	10.1 (7.2-14.1)	1214	7.7 (6.0-9.8)	15.5 (15.0-16.1)
• Self-reported depression during pregnancy	1067	6.6 (4.9-8.9)					615	8.4 (5.8-12.1)	1203	9.6 (7.6-12.1)	15.2 (14.7-15.8)
• Self-reported postpartum depressive symptoms ^{**}	1055	12.0 (9.6-14.8)					610	11.1 (8.0-15.2)	1196	13.7 (11.3-16.5)	13.4 (12.9-13.9)
Health Care Services											
• Health care visit in the 12 months before pregnancy	1068	62.9 (58.8-66.9)					625	64.0 (58.3-69.2)	1204	61.5 (57.7-65.1)	66.0 (65.3-66.8)
• Began prenatal care in 1st trimester	1055	87.3 (84.2-89.9)					615	87.5 (83.1-90.9)	1184	88.1 (85.4-90.3)	87.1 (86.5-87.6)
• Had a flu shot in the 12 months before delivery	1059	58.8 (54.7-62.8)					612	64.8 (59.5-69.8)	1193	68.6 (65.3-71.7)	60.9 (60.1-61.7)
• Had maternal postpartum checkup	1062	90.4 (87.6-92.6)					615	93.0 (89.8-95.2)	1206	90.5 (88.1-92.4)	88.1 (87.6-88.6)
Pregnancy Intention											
• Mistimed	1047	17.9 (14.9-21.4)					620	13.9 (10.4-18.3)	1201	14.4 (12.0-17.2)	17.7 (17.2-18.4)
• Unwanted pregnancy	1047	5.4 (3.8-7.7)					620	5.0 (3.2-7.7)	1201	5.9 (4.3-8.0)	6.3 (6.0-6.7)
• Unsure whether wanted pregnancy	1047	20.4 (17.2-24.1)					620	18.0 (14.0-22.8)	1201	21.3 (18.3-24.7)	15.5 (15.0-16.1)
• Intended pregnancy	1047	56.3 (52.0-60.4)					620	63.2 (57.6-68.4)	1201	58.3 (54.6-62.0)	60.4 (59.6-61.1)

Health Indicator	2016		2017 ^y		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 ⁺⁺⁺	1039	71.9 (67.9-75.5)					600	70.7 (65.4-75.6)	1180	68.5 (64.8-71.9)	74.5 (73.9-75.2)
• Highly effective contraceptive methods											
• Male or female sterilization	1039	5.9 (4.3-8.0)					600	9.9 (7.0-13.8)	1180	6.0 (4.6-7.9)	10.9 (10.4-11.4)
• Long-acting reversible contraceptive method ^{§§}	1039	14.9 (12.0-18.2)					600	19.8 (15.6-24.9)	1180	20.1 (17.1-23.4)	16.7 (16.1-17.3)
• Moderately effective contraceptive methods ^{§§}	1039	26.0 (22.5-29.9)					600	24.1 (19.4-29.5)	1180	25.6 (22.4-29.0)	24.5 (23.9-25.2)
• Least effective contraceptive methods ^{§§}	1039	25.1 (21.5-29.1)					600	16.9 (13.1-21.5)	1180	16.8 (14.2-19.9)	22.4 (21.8-23.1)
Oral Health											
• Teeth cleaned during pregnancy by a dentist or dental hygienist	1065	45.4 (41.2-49.6)					622	46.9 (41.4-52.6)	1215	42.4 (38.7-46.1)	40.0 (39.3-40.8)
Health Insurance Status One Month Before Pregnancy^{¶¶}											
• Private insurance	1037	72.2 (68.3-75.8)					600	69.0 (63.5-74.0)	1168	71.8 (68.3-75.1)	61.8 (61.0-62.5)
• Medicaid	1037	24.2 (20.8-28.0)					600	27.2 (22.4-32.7)	1168	23.5 (20.5-26.8)	23.5 (22.9-24.1)
• No insurance	1037	3.6 (2.4-5.5)					600	3.8 (2.3-6.0)	1168	4.7 (3.3-6.8)	14.0 (13.4-14.5)
Health Insurance Status for Prenatal Care^{¶¶}											
• Private insurance	1010	71.3 (67.3-74.9)					586	66.7 (61.1-71.9)	1130	69.7 (66.1-73.1)	59.6 (58.8-60.3)
• Medicaid	1010	28.4 (24.7-32.3)					586	32.3 (27.2-37.9)	1130	29.3 (25.9-32.9)	36.6 (35.8-37.3)
• No insurance	1010	0.4 (0.2-0.8)					586	1.0 (0.4-2.4)	1130	0.9 (0.4-2.0)	2.8 (2.5-3.1)
Health Insurance Status Postpartum^{+++¶¶}											
• Private insurance	1034	68.6 (64.6-72.2)					600	65.1 (59.7-70.2)	1172	65.4 (61.8-68.9)	56.4 (55.6-57.2)
• Medicaid	1034	27.5 (24.0-31.3)					600	30.9 (26.0-36.2)	1172	32.7 (29.3-36.3)	35.4 (34.7-36.1)
• No insurance	1034	3.9 (2.6-5.9)					600	4.0 (2.4-6.5)	1172	1.9 (1.1-3.2)	7.2 (6.8-7.7)
Infant Sleep Practices											
• Baby most often laid on back to sleep	1032	77.9 (74.1-81.3)					594	84.0 (79.2-87.8)	1178	80.1 (76.9-82.9)	79.5 (78.9-80.2)
Breastfeeding Practices											
• Ever breastfed	1039	93.9 (91.3-95.8)					600	94.3 (90.8-96.5)	1187	96.5 (95.0-97.6)	87.9 (87.3-88.4)
• Any breastfeeding at 8 weeks	1032	79.4 (75.6-82.8)					598	81.3 (76.3-85.4)	1175	85.8 (83.0-88.2)	68.5 (67.8-69.3)

^y Did not meet the required 55% response rate threshold in 2017.

[^] Did not meet the required 50% response rate threshold in 2018.

^{||} 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.