

Supplemental Table 1. Demographic and socioeconomic characteristic of study population according to maternal employment status by perceived level of social support.

	Perceived level of social support Low								Perceived level of social support High								P for differences
	Maternal employment status, n (%)								Maternal employment status, n (%)								
	All n (%)	Regular workers	Dispatched workers	Part-time workers	Self-employed workers	Non-employed	Others	All n (%)	Regular workers	Dispatched workers	Part-time workers	Self-employed workers	Non-employed	Others			
	40,917 (100.0)	13,944 (34.1)	811 (2.0)	9,135 (22.3)	1,285 (3.1)	14,723 (36.0)	1,019 (2.5)	35,905 (100.0)	13,284 (37.0)	584 (1.6)	6,851 (19.1)	1,155 (3.2)	13,146 (36.6)	885 (2.5)			
Depressive symptomatology																	
Edinburgh Postpartum Depression Scale (EPDS) score \geq 9	4,794 (11.7)	1,484 (10.6)	116 (14.3)	1,109 (12.1)	131 (10.2)	1,831 (12.4)	123 (12.1)	<0.001	1,947 (5.4)	704 (5.3)	31 (5.3)	380 (5.6)	56 (4.9)	707 (5.4)	69 (7.8)	0.049	
Edinburgh Postpartum Depression Scale (EPDS) score \geq 13	890 (2.2)	254 (1.8)	19 (2.3)	222 (2.4)	26 (2.0)	350 (2.4)	19 (1.9)	0.013	277 (0.8)	94 (0.7)	6 (1.0)	64 (0.9)	6 (0.5)	95 (0.7)	12 (1.4)	0.113	
Age																	
\leq 24 years	4,013 (9.8)	1,011 (7.3)	69 (8.5)	1,022 (11.2)	51 (4.0)	1,746 (11.9)	114 (11.2)		2,393 (6.7)	690 (5.2)	41 (7.0)	550 (8.0)	38 (3.3)	1,002 (7.6)	72 (8.1)		
25-34 years	25,482 (62.3)	9,023 (64.7)	532 (65.6)	5,733 (62.8)	668 (52.0)	8,879 (60.3)	647 (63.5)	<0.001	23,766 (66.2)	9,166 (69.0)	387 (66.3)	4,472 (65.3)	620 (53.7)	8,523 (64.8)	598 (67.6)	<0.001	
\geq 35 years	11,422 (27.9)	3,910 (28.0)	210 (25.9)	2,380 (26.1)	566 (44.1)	4,098 (27.8)	258 (25.3)		9,746 (27.1)	3,428 (25.8)	156 (26.7)	1,829 (26.7)	497 (43.0)	3,621 (27.5)	215 (24.3)		
Educational attainment																	
High school or less	16,028 (39.2)	3,730 (26.8)	362 (44.6)	4,420 (48.4)	483 (37.6)	6,666 (45.3)	367 (36.0)		9,992 (27.8)	2,441 (18.4)	213 (36.5)	2,446 (35.7)	317 (27.5)	4,361 (33.2)	214 (24.2)		
Vocational school	9,492 (23.2)	4,015 (28.8)	123 (15.2)	2,011 (22.0)	325 (25.3)	2,838 (19.3)	180 (17.7)		8,419 (23.5)	3,586 (27.0)	112 (19.2)	1,601 (23.4)	281 (24.3)	2,665 (20.3)	174 (19.7)		
Junior college	7,408 (18.1)	2,494 (17.9)	156 (19.2)	1,556 (17.0)	244 (19.0)	2,727 (18.5)	231 (22.7)	<0.001	7,687 (21.4)	2,677 (20.2)	116 (19.9)	1,462 (21.3)	247 (21.4)	2,963 (22.5)	222 (25.1)	<0.001	
More than university	7,933 (19.4)	3,687 (26.4)	168 (20.7)	1,136 (12.4)	231 (18.0)	2,471 (16.8)	240 (23.6)		9,758 (27.2)	4,561 (34.3)	141 (24.1)	1,334 (19.5)	307 (26.6)	3,140 (23.9)	275 (31.1)		
Missing	56 (0.1)	18 (0.1)	2 (0.3)	12 (0.1)	2 (0.2)	21 (0.1)	1 (0.1)		49 (0.1)	19 (0.1)	2 (0.3)	8 (0.1)	3 (0.3)	17 (0.1)	0 (0.0)		
Household equivalent income (yen)																	
Low: Q1	13,100 (32.0)	1,989 (14.3)	234 (28.9)	3,994 (43.7)	519 (40.4)	6,070 (41.2)	294 (28.9)		8,610 (24.0)	1,245 (9.4)	114 (19.5)	2,329 (34.0)	381 (33.0)	4,324 (32.9)	217 (24.5)		
Q2	9,401 (23.0)	2,765 (19.8)	235 (29.0)	2,405 (26.3)	290 (22.6)	3,439 (23.4)	267 (26.2)	<0.001	7,460 (20.8)	2,107 (15.9)	143 (24.5)	1,821 (26.6)	256 (22.2)	2,923 (22.2)	210 (23.7)	<0.001	
Q3	10,378 (25.4)	4,087 (29.3)	225 (27.7)	1,996 (21.9)	219 (17.0)	3,567 (24.2)	284 (27.9)		10,305 (28.7)	3,821 (28.8)	212 (36.3)	1,846 (26.9)	255 (22.1)	3,908 (29.7)	263 (29.7)		
High: Q4	8,038 (19.6)	5,103 (36.6)	117 (14.4)	740 (8.1)	257 (20.0)	1,647 (11.2)	174 (17.1)		9,530 (26.5)	6,111 (46.0)	115 (19.7)	855 (12.5)	263 (22.8)	1,991 (15.2)	195 (22.0)		
Parity																	
Yes	11,916 (29.1)	5,599 (40.2)	359 (44.3)	2,414 (26.4)	271 (21.1)	2,888 (19.6)	385 (37.8)		11,986 (33.4)	6,089 (45.8)	312 (53.4)	2,129 (31.1)	294 (25.5)	2,760 (21.0)	402 (45.4)		
No	28,795 (70.4)	8,266 (59.3)	450 (55.5)	6,677 (73.1)	1,010 (78.6)	11,760 (79.9)	632 (62.0)	<0.001	23,782 (66.2)	7,147 (53.8)	269 (46.1)	4,689 (68.4)	856 (74.1)	10,344 (78.7)	477 (53.9)	<0.001	
Missing	206 (0.5)	79 (0.6)	2 (0.3)	44 (0.5)	4 (0.3)	75 (0.5)	2 (0.2)		137 (0.4)	48 (0.4)	3 (0.5)	33 (0.5)	5 (0.4)	42 (0.3)	6 (0.7)		
Living with partner																	
Yes	38,244 (93.5)	12,875 (31.5)	715 (88.2)	8,436 (92.4)	1,214 (94.5)	14,106 (95.8)	898 (88.1)	<0.001	33,970 (94.6)	12,391 (93.3)	547 (93.7)	6,423 (93.8)	1,101 (95.3)	12,710 (96.7)	798 (90.2)	<0.001	
No	2,673 (6.5)	1,069 (7.7)	96 (11.8)	699 (7.7)	71 (5.5)	617 (4.2)	121 (11.9)		1,935 (5.4)	893 (6.7)	37 (6.3)	428 (6.3)	54 (4.7)	436 (3.3)	87 (9.8)		
Living with parents																	
Yes	9,205 (22.5)	3,130 (22.5)	214 (26.4)	2,213 (24.2)	367 (28.6)	2,994 (20.3)	287 (28.2)	<0.001	6,615 (18.4)	2,491 (18.8)	101 (1.5)	1,396 (20.4)	328 (28.4)	2,089 (15.9)	210 (23.7)	<0.001	
No	31,712 (77.5)	10,814 (77.6)	597 (73.6)	6,922 (75.8)	918 (71.4)	11,729 (79.7)	732 (71.8)		29,290 (81.6)	10,793 (81.3)	483 (82.7)	5,455 (79.6)	827 (71.6)	11,057 (84.1)	675 (76.3)		
Marital status																	
Married	39,124 (95.6)	13,288 (95.3)	729 (89.9)	8,604 (94.2)	1,238 (96.3)	14,323 (97.3)	942 (92.4)		34,884 (97.2)	12,859 (96.8)	554 (94.9)	6,568 (95.9)	1,127 (97.6)	12,942 (98.5)	834 (94.2)		
Unmarried	1,357 (3.3)	544 (3.9)	61 (7.5)	366 (4.0)	30 (2.3)	295 (2.0)	61 (6.0)		756 (2.1)	333 (2.5)	27 (4.6)	191 (2.8)	22 (1.9)	145 (1.1)	38 (8.0)		
Divorce	309 (0.8)	69 (0.5)	15 (1.9)	131 (1.4)	11 (0.9)	73 (0.5)	10 (1.0)	<0.001	192 (0.5)	57 (0.4)	3 (0.5)	73 (1.1)	5 (0.4)	46 (0.4)	8 (0.9)	<0.001	
Bereavement	6 (0.0)	2 (0.0)	0 (0.0)	2 (0.0)	0 (0.0)	2 (0.0)	0 (0.0)		4 (0.0)	3 (0.0)	0 (0.0)	1 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)		
Missing	121 (0.3)	41 (0.3)	6 (0.7)	32 (0.4)	6 (0.5)	30 (0.2)	6 (0.6)		69 (0.2)	32 (0.2)	0 (0.0)	18 (0.3)	1 (0.1)	13 (0.1)	5 (0.6)		
Mental health status																	
0 \leq Kessler 6 (K6) score < 5	27,833 (68.0)	9,736 (69.8)	519 (64.0)	6,236 (68.3)	880 (68.5)	9,768 (66.4)	694 (68.1)	<0.001	27,397 (76.3)	10,167 (76.5)	444 (76.0)	5,250 (76.6)	885 (76.6)	9,978 (75.9)	673 (76.1)	0.838	
5 \leq Kessler 6 (K6) score < 13	13,084 (32.0)	4,208 (30.2)	292 (36.0)	2,899 (31.7)	405 (31.5)	4,955 (33.7)	325 (31.9)		8,508 (23.7)	3,117 (23.5)	140 (24.0)	1,601 (23.4)	270 (23.4)	3,168 (24.1)	212 (24.0)		

Supplemental Table 2. Demographic and socioeconomic characteristic of study population according to maternal employment status by household equivalent income.

	Household equivalent income Low								Household equivalent income High							
	Maternal employment status, n (%)								Maternal employment status, n (%)							
	All n (%)	Regular workers	Dispatched workers	Part-time workers	Self-employed workers	Non-employed	Others	P for differences	All n (%)	Regular workers	Dispatched workers	Part-time workers	Self-employed workers	Non-employed	Others	P for differences
	38,571 (100.0)	8,106 (21.0)	726 (1.9)	10,549 (27.4)	1,446 (3.8)	16,756 (43.4)	988 (2.6)		38,251 (100.0)	19,122 (50.0)	669 (1.8)	5,437 (14.2)	994 (2.6)	11,113 (29.1)	916 (2.4)	
Depressive symptomatology																
Edinburgh Postpartum Depression Scale (EPDS) score \geq 9	3,842 (10.0)	778 (9.6)	89 (12.3)	1,055 (10.0)	116 (8.0)	1,692 (10.1)	112 (11.3)	0.016	2,899 (7.6)	1,410 (7.4)	58 (8.7)	434 (8.0)	71 (7.1)	846 (7.6)	80 (8.7)	0.349
Edinburgh Postpartum Depression Scale (EPDS) score \geq 13	722 (1.9)	144 (1.8)	12 (1.7)	208 (2.0)	19 (1.3)	320 (1.9)	19 (1.9)	0.585	445 (1.2)	204 (1.1)	13 (1.9)	78 (1.4)	13 (1.3)	125 (1.1)	12 (1.3)	0.107
Age																
\leq 24 years	4,962 (12.9)	1,014 (12.5)	87 (12.0)	1,334 (12.7)	66 (4.6)	2,319 (13.8)	142 (14.4)		1,444 (3.8)	687 (3.6)	23 (3.4)	238 (4.4)	23 (2.3)	429 (3.9)	44 (4.8)	
25-34 years	24,778 (64.2)	5,306 (65.5)	502 (69.2)	6,822 (64.7)	801 (55.4)	10,711 (63.9)	636 (64.4)	<0.001	24,470 (64.0)	12,883 (67.4)	417 (62.3)	3,383 (62.2)	487 (49.0)	6,691 (60.2)	609 (66.5)	<0.001
\geq 35 years	8,831 (22.9)	1,786 (22.0)	137 (18.9)	2,393 (22.7)	579 (40.0)	3,726 (22.2)	210 (21.3)		12,337 (32.3)	5,552 (29.0)	229 (34.2)	1,816 (33.4)	484 (48.7)	3,993 (35.9)	263 (28.7)	
Educational attainment																
High school or less	17,824 (46.2)	2,980 (36.8)	372 (51.2)	5,430 (51.5)	568 (39.3)	8,099 (48.3)	375 (38.0)		8,196 (21.4)	3,191 (16.7)	203 (30.3)	1,436 (26.4)	232 (23.3)	2,928 (26.4)	206 (22.5)	
Vocational school	8,799 (22.8)	2,473 (30.5)	132 (18.2)	2,276 (21.6)	380 (26.3)	3,334 (19.9)	204 (20.7)		9,112 (23.8)	5,128 (26.8)	103 (15.4)	1,336 (24.6)	226 (22.7)	2,169 (19.5)	150 (16.4)	
Junior college	6,914 (17.9)	1,486 (18.3)	132 (18.2)	1,780 (16.9)	270 (18.7)	3,003 (17.9)	243 (24.6)	<0.001	8,181 (21.4)	3,685 (19.3)	140 (20.9)	1,238 (22.8)	221 (22.2)	2,687 (24.2)	210 (22.9)	<0.001
More than university	4,976 (12.9)	1,152 (14.2)	88 (12.1)	1,051 (10.0)	224 (15.5)	2,296 (13.7)	165 (16.7)		12,715 (33.2)	7,096 (37.1)	221 (33.0)	1,419 (26.1)	314 (31.6)	3,315 (29.8)	350 (38.2)	
Missing	58 (0.2)	15 (0.2)	2 (0.3)	12 (0.1)	4 (0.3)	24 (0.1)	1 (0.1)		47 (0.1)	22 (0.1)	2 (0.3)	8 (0.2)	1 (0.1)	14 (0.1)	0 (0.0)	
Parity																
Yes	9,982 (25.9)	3,138 (38.7)	316 (43.5)	2,630 (24.9)	283 (19.6)	3,249 (19.4)	366 (37.0)		13,920 (36.4)	8,550 (44.7)	355 (53.1)	1,913 (35.2)	282 (28.4)	2,399 (21.6)	421 (46.0)	
No	28,416 (73.7)	4,923 (60.7)	408 (56.2)	7,872 (74.6)	1,158 (80.1)	13,437 (80.2)	618 (62.6)	<0.001	24,161 (63.2)	10,490 (54.9)	311 (46.5)	3,494 (64.3)	708 (71.2)	8,667 (78.0)	491 (53.6)	<0.001
Missing	173 (0.5)	45 (0.6)	2 (0.3)	47 (0.5)	5 (0.4)	70 (0.4)	4 (0.4)		170 (0.4)	82 (0.4)	3 (0.5)	30 (0.6)	4 (0.4)	47 (0.4)	4 (0.4)	
Living with partner																
Yes	35,521 (92.1)	7,109 (87.7)	625 (86.1)	9,647 (91.5)	1,367 (94.5)	15,925 (95.0)	848 (85.8)	<0.001	36,693 (95.9)	18,157 (95.0)	637 (95.2)	5,212 (95.9)	948 (95.4)	10,891 (98.0)	848 (92.6)	<0.001
No	3,050 (7.9)	997 (12.3)	101 (13.9)	902 (8.6)	79 (5.5)	831 (5.0)	140 (14.2)		1,558 (4.1)	965 (5.1)	32 (4.8)	225 (4.1)	46 (4.6)	222 (2.0)	68 (7.4)	
Living with parents																
Yes	11,715 (30.4)	3,355 (41.4)	243 (33.5)	3,044 (28.9)	475 (32.9)	4,220 (25.2)	378 (38.3)	<0.001	4,105 (10.7)	2,266 (11.9)	72 (10.8)	565 (10.4)	220 (22.1)	863 (7.8)	119 (13.0)	<0.001
No	26,856 (69.6)	4,751 (58.6)	483 (66.5)	7,505 (71.1)	971 (67.2)	12,536 (74.8)	610 (61.7)		34,146 (89.3)	16,856 (88.2)	597 (89.2)	4,872 (89.6)	774 (77.9)	10,250 (92.2)	797 (87.0)	
Marital status																
Married	36,558 (94.8)	7,509 (92.6)	636 (87.6)	9,883 (93.7)	1,396 (96.5)	16,241 (96.9)	893 (90.4)		37,450 (97.9)	18,638 (97.5)	647 (96.7)	5,289 (97.3)	969 (97.5)	11,024 (99.2)	883 (96.4)	
Unmarried	1,457 (3.8)	470 (5.8)	70 (9.6)	439 (4.2)	33 (2.3)	373 (2.2)	72 (7.3)		656 (1.7)	407 (2.1)	18 (2.7)	118 (2.2)	19 (1.9)	67 (0.6)	27 (3.0)	
Divorce	409 (1.1)	81 (1.0)	14 (1.9)	180 (1.7)	13 (0.9)	105 (0.6)	16 (1.6)	<0.001	92 (0.2)	45 (0.2)	4 (0.6)	24 (0.4)	3 (0.3)	14 (0.1)	2 (0.2)	<0.001
Bereavement	6 (0.0)	2 (0.0)	0 (0.0)	2 (0.0)	0 (0.0)	2 (0.0)	0 (0.0)		4 (0.0)	3 (0.0)	0 (0.0)	1 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	
Missing	141 (0.4)	44 (0.5)	6 (0.8)	45 (0.4)	4 (0.3)	35 (0.2)	7 (0.7)		49 (0.1)	29 (0.2)	0 (0.0)	5 (0.1)	3 (0.3)	8 (0.1)	4 (0.4)	
Mental health status																
0 \leq Kessler 6 (K6) score < 5	27,074 (70.2)	5,768 (71.2)	472 (65.0)	7,462 (70.7)	1,045 (72.3)	11,651 (69.5)	676 (68.4)	<0.001	28,156 (73.6)	14,135 (73.9)	491 (73.4)	4,024 (74.0)	720 (72.4)	8,095 (72.8)	691 (75.4)	0.216
5 \leq Kessler 6 (K6) score < 13	11,497 (29.8)	2,338 (28.8)	254 (35.0)	3,087 (29.3)	401 (27.7)	5,105 (30.5)	312 (31.6)		10,095 (26.4)	4,987 (26.1)	178 (26.6)	1,413 (26.0)	274 (27.6)	3,018 (27.2)	225 (24.6)	
Perceived level of social support																
High	16,070 (41.7)	3,352 (41.4)	257 (35.4)	4,150 (39.3)	637 (44.1)	7,247 (43.3)	427 (43.2)	<0.001	19,835 (51.9)	9,932 (51.9)	327 (48.9)	2,701 (49.7)	518 (52.1)	5,899 (53.1)	458 (50.0)	<0.001
Low	22,501 (58.3)	4,754 (58.7)	469 (64.6)	6,399 (60.7)	809 (56.0)	9,509 (56.8)	561 (56.8)		18,416 (48.2)	9,190 (48.1)	342 (51.1)	2,736 (50.3)	476 (47.9)	5,214 (46.9)	458 (50.0)	