SUPPLEMENT A: TABLE 1

Biological and Psychosocial Predictors of Postpartum Depression

ID	Authors (Date)	Study Design	Participants ^a	Predictor(s)/ Timing (Stimulation tests in italics)	Measure of PPD/ Timing	Control Variables/ Other Predictors in Final Model	Did Measure(s) Predict PPD?
SEC	CTION 1: STU	DIES OF	N BIOLOGICAL MEASURES				
1	Albacar et al. (2010)	LG	1,053 mothers of Spanish origin, mostly married/ cohabiting, em- ployed, low to medium educ., no current psychiatr. care	FT4, TSH, TPOAb in serum, CRP in plasma 8-9am, 24-48 hrs pp	EPDS>9, confirmed w/dx (DSM-IV) 24-48hrs, 8, 32 wks pp	Employment status, sick leave	Binary and multivar. logistic models n.s.
2	Alvim-Soares et al. (2013)	CS	116 Cauc. women delivering in a maternity unit in Brazil	COMT (Val ¹⁵⁸ Met)	EPDS>12 8 wks pp	-	Homozygous Met allele carriers w/ more PPD
3	Binder et al. (2010)	LG	188 preg. US women w/ maj. depr. hx; 88% White Non-Hisp.; Excl.: suicidal, psychotic, anemia, abnor- mal TSH, drug, alcohol abuse	5-HTT (5-HTTLPR)	HAM-D, confirmed w/ SCID mood module ≤8 wks, 9-24 wks pp	Age, race, educ., marital status, GA at delivery, gravidity, parity	Short allele w/ increased likelihood of PPD before 8 wks pp
4	Bloch et al. (2000)	LG	16 US non-preg. parous women, ≥1 yr from last birth; healthy, no meds, euthymic, no non-puerperal depr. hx, 8 w/ and 8 w/o PPD hx; 22-45 yrs; Excl.: premenstrual dysphoric disorder	Preg. simulation: GRH analog for 5 mos; in mos 2-3 estradiol and progesterone; in mos 4 placebo instead of active meds (withdrawal)	SCID (for DSM-IV), SADS, sx w/ EPDS, BDI, Cornell Dysthy- mia Scale Wk 1-4 and 9-12 wks after withdrawal	-	No group differences in estradiol or progesterone; Sx only among women w/ PPD hx
5	Boufidou et al. (2009)	LG	56 Greek, physically healthy, preg. women; 93% breastfeeding; Excl.: Being single, psychiatr. hx, premature labor, labor complic.	TNF-α, IL-6 in serum early in labor, and in CSF before epidural	PBQ, EPDS On admission and daily, 1-4 days pp (PBQ); day 4 and 6 wks pp (EPDS)	Preg. duration, menstrual cycle in days, BMI	Simple comparisons: higher serum IL-6 at 1 day pp, higher TNF- α in CSF at 3 days pp in cases (PBQ); Multiple regressions: higher TNF- α (mean PBQ), higher IL-6 and TNF- α (EPDS, 4 days pp) and higher IL-6 (6 wks pp) in CSF of cases
6	Chatzichara- lampous et al. (2010)	LG	57 married, preg. Greek women, w/o psychiatr. hx, current anti-depressant meds, obstetric complic., eating disorders	Estradiol, progesterone, testos- terone in blood Daily, admission for delivery to 4 days pp	PBQ sx and cutoff 8.2, EPDS sx cutoff 11 Daily 1-4 days (PBQ), 4 days, 6 wks pp (EPDS)	Preg. duration	N.s. for simple correlations and multiple regression model
7	Corwin et al. (2008)	LG	25 US mothers, 73% married, 73% breastfeeding at birth, 58% on day 28 pp; 92% White; Excl.: multiple birth, C-section, delivery complic.; pp: any disease, most meds	IL-1β, IL-6 in urine Within 24 hrs of giving birth; 9- 10am, 7,14,28 days pp	CES-D >10 7,14,28 days pp	-	IL-6 fell over time only in women w/o PPD; higher day 14 IL-1β in day 28 cases Note: IL-6 not detectable in most women at 14 and 28 days pp
8	Costas et al. (2010)	LG	1,804 Spanish mothers, no psychiatr. treatment in preg.; 31% w/ family hx, 16% w/ personal hx of psychiatr. treatment; Excl.: neonatal death Sample overlaps w/ Study ID 40	508 polymorphisms in 44 genes (related to HPA axis, sex hormones and effects of stress on prefrontal cortex)	EPDS>8, confirmed w/ DSM-IV dx based on Diagnostic Interview for Genetic Studies 2-3 days; 8,32 wks pp	-	7 polymorphisms on estrogen receptor 1, protein kinase C beta, PENK genes sig. before multiple test correction; haplotype combination (rs198183, rs381901, rs2051684) on protein kinase C beta sig.

9	Doornbos et al. (2009)	LG	98 Cauc. women w/ healthy preg., healthy infants from the Netherlands; Excl.: diabetes, vegan diet Note: Secondary analysis from trial on dietary supplements	5-HTT, MAO-A, COMT	EPDS sx 6, 12 wks pp	Treatment group	MAO-A (low activity variant), COMT (met/met) w/ more sx, trend for 5-HTT (long allele); stronger effect in women w/ MAO-A (low activity) and COMT (met/met) at 6 wks pp
10	Engineer et al. (2013)	CS ^b	140 Cauc. women from the UK; Excl.: anemia, thyroid disease, pre- existing mental illness, antidepres- sant or other meds influencing risk for perinatal depr.	Glucocorticoid receptor (Bcll, ER22/23EK), CRH receptor 1 (rs1876828, rs242939, rs242941)	EPDS sx, >9 2-8 wks pp	-	CRHR1 rs242939 G allele, rs242941 T allele w/ sx. BcII (C/G) and CRHR1 (A/G) minor alleles more frequent in cases, stronger effect for carriers of both alleles. C-G-T haplotype of CRHR1 overrepresented in cases
11	Epperson et al. (2006)	CS	23 mothers, 9 w/ and 14 w/o PPD; otherwise healthy, neg. tox. screen,	Estradiol, progesterone in serum 0-6 mos pp	Clinical Interview, 19- item HAM-D>17	Age	Estradiol levels higher in cases
			not menstruating, med free, 87% breastfeeding		0-4 mos pp		
12	Fasching et al. (2012)	LG	361 German women w/ healthy preg.; 43% primiparous; Excl.: psychiatr. disorders	TPH2 (14 single nucleotide polymorphisms combined into haplotype blocks)	EPDS sx 48-72 hrs pp, 6-8 mos pp	-	Haplotype block in promoter region (rs11178993, rs6582071, rs11178997) w/sx at 6-8 mos pp
13	Figueiredo & Costa (2009)	CSb	91 primiparous women from Portugal; 99% Cauc.	Cortisol in 24-h urine 21-28 wks' GA, 3 mos pp	EPDS sx 3 mos pp	Prenatal depr., and pre- and postnatal anxiety and bonding	No sig. associations
14	Glynn & Sandman (2014)	LG	170 US women w/ singleton preg. and delivery ≥37 wks' GA; 52% non-Hisp. White, 21% Latina, 11% Asian; Excl.: Smoking, conditions affecting neuroendocrine function	Cortisol, ACTH, and CRH in plasma 15,19,25,31,36+ wks' GA; 3, 6 mos pp	EPDS > 9, > 13 3, 6 mos pp	Maternal age, BMI, educ., income, parity, GA	Simple comparisons: CRH at 25, 31, 36+ wks w/ sx at 3 mos pp; Multilevel modeling: Cases at 3 mos pp w/ accelerated CRH between 20-25 wks' (EPDS >9), 19 and 27 wks' GA (EPDS >13); higher levels between 23-31 wks (EPDS >9), 26-31 wks (EPDS >13)
15	Groër (2005)	CS	183 US mothers, exclusively breast (n=84) or formula (n=99) feeders, 64% married, 84% Cauc.; Excl.: <18 or >45 yrs, preg. complication, infant morbidity, chronic illness, meds influencing immune function Sample overlaps w/ Studies 17, 205	Cortisol and prolactin in serum, ACTH in plasma 8-11am, 4-6 wks pp	POMS-D sx and highest vs. lowest decile 4-6 wks pp	-	Odds of higher cortisol in highest compared to lowest decile greater than 6:1, but t-test n.s. Prolactin lower in highest compared to lowest decile
16	Groer & Davis (2006)	CS	181 US mothers, exclusively breast- or formula feeding, mostly married, low SES, white; Excl.: <18 or >45 yrs, PTB, preg./ labor/ delivery complic., chronic illness, meds influencing immune function Sample overlaps w/ Studies 16, 205	IFN-γ and IL-10 in serum 8-11am, 4-6 wks pp	POMS-D sx 4-6 wks pp	Income, marital status, age, feeding status	POMS-D correlated w/ IFN- γ in formula feeders, but not in breastfeeders. No association w/ IL-10 or the IFN- γ /IL-10 ratio
17	Groer & Vaughan (2013)	LG	119 US women w/ singleton preg., mostly white; Excl.: <18 or > 45 yrs, chronic disease, med affecting immunity, IVF, fetal anomalies	TPOAb 16-25 wks' GA	POMS-D >20 1 wk; 1, 2, 3, 4, 5, 6 mos pp	Age, marital status	TPOAb+ women had higher depr. scores

18	Guintivano et al. (2014)	LG	51 US preg. women w/ depr. or bipolar disorder hx (n=32 euthymic in 3rd trim., but depr. within 4 wks pp; n=19 depr. prepartum of which 12 remained depr. pp); 70% Cauc.	DNA methylation (estrogen mediated epigenetic change; 1578 differentially methylated regions) 1st, 2nd or 3rd trim.	DSM-IV dx	-	Increase in estrogen-mediated DNA methylation change in PPD group; two genes related to estrogen signaling (promoter regions of HP1BP3 and TTC9B genes) emerged as most sig. biomarkers of PPD
19	Hohlag- schwandtner et al. (2001)	CS ^b	193 women w/ normal singleton preg. from Austria; Excl.: serious marital, health or SES problems, psychiatr. hx, fetal complic.	Cortisol, estradiol, progesterone, testosterone, prolactin in serum 38-40 wks' GA, and fasting at 1, 3 days pp	POMS-D sx Daily, day 1 pp until discharge	-	More sx w/ higher testosterone levels
20	Jolley et al. (2007)	LG	22 US preg. women, mostly breast-feeding; Excl.: <20 or >40 yrs,	Cortisol in serum, ACTH in plasma	PPD Screening Scale >59	Baseline, 10 min lag between cortisol and	No direct effects for cortisol and ACTH, but steeper slopes of the ACTH-to-
			disease, preg. problems, smoking, most meds, EPDS ≥12 at 8 mos' GA, impaired physical activity readiness; 86% Cauc.	Before (-15, -10 min), during (+10 min), immediately after (+22 min) and +32, 42, 52, 62 min; response to <i>treadmill exercise</i> ; Afternoon, after infant feeding, 6, 12 wks pp	6, 12 wks pp	ACTH peak	cortisol regression lines in non-cases (i.e., cases had higher ACTH and lower cortisol at each time point) at 6 and 12 wks pp
21	Khabour et al. (2013)	CS	370 pp women from Jordan, 130 w/PPD; 99.5% married; Excl.: previous psychiatr. disorder, <17 or > 45 yrs	5-HTT (5HTTLPR), TPH1 (A218C), TPH2 (G1463A)	EPDS >12 4-6 wks pp	-	No sig. associations
22	Klier et al. (2007)	LG	192 women w/ normal, singleton preg. from Austria; Cauc.; Excl.: serious health problems (except maj. depr.), fetal complic., most	Estradiol, progesterone in plasma 8-10am; day 1, 3 pp	current PPD, depr. hx, healthy controls; SRDS , EPDS sx	-	Day 5 cases had higher day 3 estradiol than controls; No effects for progesterone; Hormonal change scores not correlated w/sx at 6 mos
			meds		Day 5 pp (SCID), daily days 1-10 pp (SRDS), 6 mos (EPDS)		
23	Lambrinouda- ki et al. (2010)	LG	57 preg., married Greek women, 93.3% breastfeeding; Excl.: Preg. complic., thyroid, eating or psychi- atr. disorders	FT4, fT3, TSH, TPOAb, TgAb in blood Upon delivery and daily until day 4 pp	daily days 1-3 pp	Preg. duration	More sx (PBQ) w/ lower fT3 on day 4, and mean of days 1-4 pp
24	Le Donne et al. (2012)	CS	74 married Italian mothers, healthy preg. w/o stressors, healthy neo-	FT3, fT4, TSH, TPOAb, TgAb in serum	EPDS >9, >11, >12 or	-	Simple comparisons: cases (EPDS ≥13 or ≥14) had greater levels of TPOAb and
			nate, no alcohol/drug abuse; Excl.: psychiatr. disorders, endocrine	8am, day 3 pp	>13; MADRS >14 Day 3 pp		TgAb; Multiple regression analyses w/ all variables (including the T4/T3 ratio) did
			disease, head-trauma, drugs affect- ing thyroid system, localized or systemic disease	Thyroid dysfunction: high TSH, low fT4 and fT3	24, 5 pp		not show effects
25	Letourneau et al. (2011)	CS	53 mothers scoring >12 on EPDS w/ healthy preg. and healthy infants	Cortisol in saliva	EPDS sx	Low income, NICU, premature, difficult life	Simple comparisons: more sx w/ lower cortisol; Multivar.: n.s.; but reverse direc-
	ai. (2011)		from Canada; Excl.: co-morbid mental health conditions, cortico- steroid med	15-30 min after waking, 10-11am, 3-5pm, evening before bed; once at 3-12 mos pp (area under the curve)	3-12 mos pp	circumstances, depr. severity, below average response to caregiver	tionality (cortisol was outcome variable)

26	Light et al. (2004)	CS ^b	35 US mothers w/ healthy, full-term infants, 10 used cocaine in preg., all cocaine users and 11 non-users bottle-fed; Excl.: serious cardiovascular, renal, pulmonary disorder, prescription meds	Oxytocin, epinephrine (plasma), norepinephrine (plasma, urine), cortisol (serum, urine) Plasma: baseline, 2 min into speech stressor; serum: baseline; 9-10am, 2 days (w/ and w/o pre-stress baby holding), 1-11 mos pp, 24h urine between sessions	BDI sx 1-11 mos pp	-	More sx w/ higher norepinephrine base- line and stress levels on both days
27	Lucas et al. (2001)	CSb	641 healthy women from Spain, 29.6% breastfeed for ≥2 mos; Cauc.	FT4, TSH, TPOAb, TgAb, TRAb in blood 36 wks' GA-4 days pp; 1, 3, 6, 9, 12 mos pp Thyroid dysfunction: abnormal fT4 and/ or TSH, confirmed by Ab status (unique effects of T4, TSH, Ab status not reported)	BDI sx and > 20 36 wks' GA-4 days pp; 1, 3, 6, 9, 12 mos pp	-	No differences in # of cases or sx severity between women w/ and w/o thyroid dys- function
28	Maes et al. (2000)	LG	91 healthy preg. women from Belgium; Excl.: PTB, infections, labor complic., C-section after labor, any disease except depr., use of psychotropic meds or meds affecting immune or endocrine function	IL-6, IL-6 receptor, IL-1 receptor antagonist, gp130 (a signal transducer for IL-6), leukemia inhibitory factor receptor in serum 8am, 3-5 days before estimated delivery; day 1, 3 pp	sRDS "reactors" (highest quartile for change score from preg. to day 3 pp) vs. "nonreactors" 3-5 days before estimated delivery; day 1, 3 pp	-	Depr. reactors w/ higher IL-6 and IL-6 receptor levels than non-reactors (overall, prenatally and at 1 and 3 days pp) and higher IL-6 x IL-6 receptor values (overall and at 1 and 3 days pp)
29	McCoy et al. (2008)	CS ^b	51 US preg. women; Excl.: pos. drug screen, EPDS>13 in 3rd trim., C-section, multiple preg.	FT4, TSH, TPOAb, TgAb in plasma 3rd trim, 4 wks pp	EPDS sx 4 wks pp	-	More sx w/ higher TSH and in Ab pos. women at 4 wks pp
30	Meltzer-Brody et al. (2011)	LG	484 US preg. women, married, primiparous, at least some college, and income>200% poverty line; Mostly White	CRH in plasma <20 wks' GA, 24-29 wks' GA	EPDS sx and > 11 12 wks, 1 yr pp	Age, time of day, race/ ethn., parity, educ., marital status, income, BMI	No sig. associations
31	Mileva-Seitz et al. (2013)	CS ^b	187 Cauc. mothers from Canada; 94% w/ partner; Excl.: premature delivery, stillbirth or termination	Oxytocin peptide gene (rs2740210, rs4813627) and oxyto- cin receptor gene (rs237885)	CES-D 6 mos pp	Mother's early life care quality, age, educ., pari- ty, infant gender and activity in final model	No main effects, but less sx w/ increasing quality of early life care, in particular among women w/ the C/C (rs2740210) and G/G (rs4813627) genotypes
32	Mitchell et al. (2011)	LG	1,206 mothers from large US cities; about 25% married; 63% Black, 21% Hisp., 13% White	5-HTT (5-HTTLPR, STin2 VnTR)	DSM-IV dx based on CIDI short form 1 yr pp	Yrs of educ. in final model; Control for hospital, city, race, age, marital status, preg. use of tobacco, alcohol or drugs, low birth weight, mother injured by father during preg., neighborhood safety, soc. supp., mother immigrant	No main effect; Yrs of educ. decreases PPD for homozygous short allele carriers of the 5-HTTLPR (12% per year) and homozygous long allele carriers of STin2 VnTR (10% per year); combined effect: 18% decrease in odds of PPD per yr

33	Nappi et al. (2001)	CS	40 married, well-educ., primiparous, breastfeeding Italian mothers w/ normal preg. and healthy infant; Excl.: hx of depr., neuroactive drugs, alcohol abuse	Cortisol, estradiol, prolactin in plasma, progesterone in serum 8-8:30am, day 3 pp	Modified HAM-D sx and score 11-18, SBS sx and cutoff=8 Day 3 pp	-	More sx (HAM-D) w/ lower progesterone
34	O'Keane et al. (2011)	LG	70 full-term, mostly primiparous UK women; Excl.: past or current psychiatr. disorder, maj. obstetric, medical or neurological problem, multiple preg., most meds, <19 or >45 yrs	Cortisol, ACTH, CRH, estriol, progesterone in blood 11am-3pm, >4 hrs after waking, >1hr after breastfeeding; at 36 wks' GA, and days 1, 3, 5 or 2, 4, 6 pp	PBQ sx Day 1, 3, 5 pp or day 2, 4, 6 pp	-	More sx w/ less pronounced perinatal CRH decrease, w/ higher ACTH pp and lower estriol pp
35	Okun et al. (2011)	LG	56 US mothers w/ hx of PPD or maj. depr. disorder, not depr. at 36 wks' GA of current preg., wide SES distribution, 95% mar- ried/cohabiting; 93% Cauc.	Cortisol, estradiol, progesterone, IL-6 in plasma 2,3,4,6,8,11,14,17 wks pp	HAM-D: 2 scores of >14 within 1 wk, and 2 psychiatrists agreeing on dx (DSM-IV) 2,3,4,6,8,11,14,17 wks pp	Meds (3 groups: place- bo, nortriptyline, ser- traline), covariates time- dependent	No sig. associations
36	Pedersen et al. (2007)	LG	31 US preg. women mostly married, some college, 9 w/ depr. hx; Mostly Cauc.; Excl.: <18 or > 42 yrs, current mood, psychotic, anxiety, eating, substance use disorders, medical disorder, obstetric complic., most meds, C-section, premature birth	FT4, total T4, fT3, total T3, TSH in blood, T3 resin uptake in serum; (fT4 index computed) 10am-3pm, 32-35,36,37 wks' GA	sx and >9, BDI sx and >17 at one or more time points every other wk, 2-24 wks pp (sx averaged across 2-6, 8-12, 14- 18, 20-24 wks)	-	More sx at 2-6 wks w/ lower average antenatal total T4 levels and w/ lower average antenatal fT4 index
37	Pinsonneault et al. (2013)	CS	257 Canadian women w/ full-term healthy infant; 91% Cauc.; Excl.: bipolar or psychotic disorder, risk for suicide, homicide, infanticide, drug or alcohol abuse; serious medical condition	ESR1 (TA repeat, rs2077647, rs988328, rs1801132, rs1884051, rs3020327, rs9340958, rs3020434, rs3798577), COMT (rs4680), TPH2 (rs7305115), DRD2 (rs2283265), HTR2A (rs6311, rs6314), DAT, MAO-A (pVNTR, rs1137070), SERTLPR, SLC6A3 (ln8VNTR, rs6347, rs27072)	EPDS, MADRS, DSM (SCID), MINI Within 12 wks pp	Age	ESR1 TA repeat (L allele) and rs2077647 (G allele) w/ high EPDS score and dx, only TA repeat w/ EPDS sig. after correction for multiple tests; COMT rs4680, MAOA rs1137070 HTR2A rs6314 sig. in some models; Interactions: ESR1 TA repeat (long allele) w/ serotonin SERTLPR (short allele) w/ higher risk
38	Rich-Edwards et al. (2008)	LG	616 preg. US women, 64% income > \$70,000, 93% at least some college, 87% married, 50% nulliparous, all live-births; 77% Cauc., 12% Black	CRH in plasma 25-37 wks' GA	EPDS >12 6 mos pp	Age, race/ ethn., income, marital status, parity, PTB	No sig. associations
39	Sanjuan et al. (2008)	LG	1,407 women from Spain; 46% primiparous, 31% w/ family and 16% w/ personal hx of psychiatr. treatment; Excl.: psychiatr. care during preg., neonatal death Sample overlaps w/ Study 8	5-HTT (5-HTTLPR, Stin2 Vntr)	EPDS sx and >9, confirmed by Diagnostic Interview for Genetic Studies adapted for PPD 8, 32 wks pp	Age	Higher EPDS scores w/ 5-HTT expression levels at 8 wks; no association for dx

40	Scrandis et al. (2008)	LG	27 preg. US women at high risk for PPD; Mostly AfrAm.; Incl.: ≥18 yrs, maj. recurrent mood disorder hx, anxiety disorder in preg., ≥1 maj. stressful soc. situation in past yr; Excl.: autoimmune disorder, drug abuse, hx of psychosis, active infections, anti-depressant meds	CRP, IL-6 in serum 35-38 wks' GA, 1-5 days, 5-6 wks pp	HAM-D 1-5 days pp, 5-6 wks pp	-	Higher CRP w/ atypical depr. at 1-5 days pp; No associations at 5-6 wks for CRP, no associations for IL-6
41	Skalkidou et al. (2009)	LG	347 Swedish preg. women; Excl.: intrauterine demise, infant in NICU Sample overlaps w/ Studies 202, 203	IL-6 in blood During routine intravenous catherization before delivery	EPDS >13 on day 5, >11 at 6 wks, >11 at 6 mos pp Day 5, 6 wks, 6 mos pp	Leptin, BMI at 6 wks pp, age, preg. duration, infant gender, smoking in preg.	No sig. associations
42	Skrundz et al. (2011)	LG	73 Swiss preg. women; Excl.: disease, fetal malformation, pre-preg. BMI ≥32, smoking	Oxytocin in plasma 1-3 pm, 30-34 wks' GA	EPDS >9 within first 2 wks pp	Prenatal depr., length of gestation	Multiple regression: Lower oxytocin in cases; oxytocin classified 83.6% of sample correctly into cases vs. non-cases
43	Stuebe et al. (2013)	CS ^b	48 preg. US women w/ intent to breastfeed; 83% White, 15% Black/AfrAm.; Excl.: current	Oxytocin, estradiol, progester- one, prolactin, cortisol, CRH, fT4, total T4 in plasma	EPDS >9 at 2 and 8 wks pp	-	Lower baseline oxytocin in cases at 2 wks; Lower baseline and stimulated oxytocin and T4 at 8 wks; smaller oxytocin
			psychiatr. disorder except unipolar depr. and anxiety, substance use, medical conditions interfering w/ breastfeeding	Baseline (all), at 1,3,7 min (oxytocin), 10 min of <i>breastfeeding</i> (oxytocin, prolactin), after post feeding rest (oxytocin, prolactin, cortisol, CRH, T4)			area under the curve in cases at 8 wks
				2, 8 wks pp			
44	Sylvén et al.	LG	347 women from Sweden; > 95%	FT4, TSH in blood	EPDS >11	Previous psychiatr.	High TSH w/ more depr. sx at 6 mos;
	(2013)		Cauc.; Excl.: Intrauterine demise, infants in NICU	Upon delivery	Day 5, 6 wks, 6 mos pp	contact, smoking, pre- preg. BMI, sleep	Lower fT4 w/ more sx at 5 days
45	Taylor et al. (2009)	CS	21 mothers w/ and w/o PPD from Switzerland, mostly married, breastfeeding	Cortisol in saliva Waking, +30 min, +3, +12 hrs, 6-8 wks pp	EPDS >12 6-8 wks* pp	-	Sig. cortisol increase from waking to +30 min in women w/o but not in women w/ PPD
46	Wissart et al.	LG	73 preg. Afro-Jamaican women in	Total T4, fT3, TSH in blood	SRDS <50 normal, 50-	-	T4 changes from 28 wks' GA-6 wks pp
	(2005)		Jamaica; Excl.: thyroid disease hx, medical illness, depr., substance	8, 28, 35 wks' GA, day 1 pp, 6 wks pp	59 mild, 60-69 moderate, ≥70 severe		w/ PPD; Each unit increase in T4 change increased odds of being more depr. by a
			abuse		6 wks pp		factor of 0.75
47	Yim et al. (2009)	LG	100 US women w/ singleton preg., all live births; 54% non-Hisp. White, 22% Hisp. White, 12% Asian, 7% AfrAm.; Excl.: <18 yrs, conditions affecting neuroendocrine function, drug and alcohol abuse Sample overlaps w/ Study 49	Cortisol, ACTH, CRH in plasma 15,19,25,31,37 wks' GA	EPDS sx and >9 9 wks pp	Time of day, depr. in preg.	Simple comparisons: more sx w/ higher ACTH at 25 wks' GA, higher CRH at 25, 31 wks' GA; Multivar.: More sx w/ higher CRH at 25 wks' GA; Multilevel modeling: Accelerated CRH increases in cases from 23-26 wks' GA, differences in CRH level from 18 wks' GA throughout preg.

48	Yim et al. (2010)	LG	307 US women w/ singleton, full-term preg., all live births; 49% non-Hisp. White, 20% Hisp. White, 12% Asian, 10% AfrAm., 9% Asian; Excl.: <18 yrs, conditions affecting neuroendocrine function, drug and alcohol abuse Sample overlaps w/ Study 48	β-Endorphin in plasma 15,19,25,31,37 wks' GA, 9 wks pp	EPDS sx and >9 9 wks pp	Time of day, depr. in preg.	Among women who are euthymic at 25 wks' GA, β -endorphin throughout preg. is predictive of PPD, no effect among women who are symptomatic at 25 wks' or when sample is split by depr. mood at other GAs
SEC	CTION 2: STUD	DIES ON	N PSYCHOSOCIAL PREDICTORS				
49	Abbott & Williams (2006)	CS	1,363 Pacific Island mothers from Australia; 47% Samoan, 21% Tongan, 17% Cook Islands Maori, 4% Niuean	Stress due to insufficient money for food (30 predictor variables, but incomplete information provided) Marital status, relationship happiness 6 wks pp	EPDS >12 6 wks pp	Age, educ., ethn., household income; cul- tural orientation, parity, satisfaction w/ home, difficulty w/ transport, reaction to preg., satis- faction w/ birth experi- ence and w/ baby's sleep pattern in final model.	Univar.: More stress, being non- partnered, married but separated, unmar- ried or not living together, and low rela- tionship happiness w/ more PPD; Multi- var.: More stress and low relationship happiness w/ more sx
50	Ahmad & Munaf (2006)	CS	90 married Pakistani mothers of healthy newborns	Family structure (nuclear vs. joint) 1 day pp	BDI sx 1 day pp	-	Univar.: Women in nuclear family unit had more sx than those living w/ extended family
51	Akincigil et al. (2010)	LG	4,348 urban US mothers, 76% near/below poverty level; 48% AfrAm., 27% Hisp., 22% White	Marital status, partner relation- ship quality (disagreement, vio- lence, supportiveness), perc. fami- ly supp. Immediately post birth	CIDI (Short Form) dx (consistent w/ DSM-IV) 1 yr pp	Educ., race/ethn., age, income to poverty ratio, infant birth weight, # of children, self-rated health, prenatal substance use	Univar.: married < cohabiting < non- cohabiting/no relationship; Violence, disagreement about preg., relationship quality predictive after contr. for marital status; Full model: Relationship quality, lack of relationship, family supp. neg. related; disagreement about preg. pos. related; violence, marital status n.s.; Rela- tionship quality mediated association w/ marital status and PPD
52	Ali et al. (2009)	LG	267 Pakistani mothers living in "peri-urban" areas, 88% Muslim, 37% w/ formal educ.	Family/soc. supp. , abuse of mother or child in home Within 10 days pp	Pos. combined screen for depr. and anxiety sx; confirmed w/ DSM IV dx 1, 2, 6, 12 mos pp	Age, study site, planned preg., breast-feeding difficulties	Univar. and multivar.: Domestic violence toward mother or child w/ increased risk of depr. (timing unspecified); Stress and supp. findings not reported
53	Appolonio & Fingerhut (2008)	CS	87 active duty US military mothers who gave birth to healthy babies; 62% Cauc., 16% Hisp., 14% African origin	Amount of supp. (general), partner relationship satisfaction (1-item), marital status, life stress, child care stress, difficult infant temperament Within 6 mos after delivery (M=12 wks)	EPDS >11 Within 6 mos after de- livery (M=12 wks)	-	Univar.: Low soc. supp., low relationship satisfaction, increased life and child care stress, and difficult infant temperament w/sx

54	Bjerke et al. (2008)	CS ^b	197 preg., mostly married, unemployed immigrant Pakistani women in Norway	LEs in last 12 mos, marital status (single vs. married), family structure (nuclear vs. extended), perc. soc. supp., partner attachment Timing unclear (women seen once during preg., 6-12 wks pp)	EPDS >9 6-12 wks pp	-	Univar.: More LEs, low partner attachment, and single status among women w/ PPD
55	Boury et al. (2004)	CS	151 low income US mothers receiving public assistance, w/ at least one child <2 yrs; all women also participated in clinical trial for weight management (mean BMI: 30); 91% Cauc., 7% AfrAm.	Perc. stress, financial stress, soc. supp. number and satisfaction M=30 wks pp (55% ≤6 mos pp, 31% 6-12 mos pp, 14% >1 yr pp)	BDI sx and categorical: normal 0-9, mild 10-16, moderate/ severe ≥17 30 wks pp	Primipara, age, smoking	Univar.: Higher perc. and financial stress, lower supp. number and satisfaction w/sx; More perc. stress in mild than normal group; More perc. and financial stress, less supp. satisfaction in moderate/severe group than normal group; Multivar.: Perc. stress w/sx
56	Boyce (2003)	LG	914 mothers in secondary analysis of 2 datasets of English-speaking women, mostly married or in relationship, w/ healthy infants and w/o psychosis or maj. medical condition; "Risk Factor Study": n=424; "Outcomes Study": n=490	Current intimate relationship, soc. supp., partner status, LEs 1 wk pp	Risk Factor Study: EPDS >12 on 2 occa- sions and SCID dx within 6 mos pp Outcomes study: EPDS >12 at 8 wks pp	-	Lack of partner and ≥1 LEs w/ PPD in Risk Factor Study; Unsatisfactory instru- mental and emot. supp., arguments w/ partner, low satisfaction or poor partner supp. w/ PPD in Outcomes Study
57	Boyce & Hickey (2005)	LG	425 mothers of healthy infants from Australia	Intimate relationship functioning, soc. supp., quality of key relationships 2 days pp Changes in relationship 6, 12, 18, 24 wks pp LEs in last 12 months 12 wks pp	EPDS >12 on two consecutive occasions, confirmed w/ SCID 2 days; 6, 12, 18, 24 wks pp	Age, educ., baseline EPDS, self and family hx of depr., vulnerable and low organized/ responsive personality	Univar.: Intimate relationship functioning at 2 days pp (global dissatisfaction, problems communication, deficient emot. supp.), unsatisfactory soc. supp. and ≥ 1 LE w/ PPD; worsening relationship n.s.; Multivar.: All n.s.
58	Britton (2011)	CS	296 US mothers of singleton newborns w/o need for NICU care; 74% Cauc., 10% Hisp., 6% Asian/Pacific Islander, 4% Native American	Soc. supp., infant temperament, recent LEs, perc. perinatal stress 1 mo pp	BDI sx 1mo pp	Depr. hx, trait anxiety, self-concept, marital satisfaction, preg. planning, family income, educ.	Soc. supp., perc. perinatal stress and infant temperament independently predictive of sx
59	Certain et al. (2008)	CS	1,519 US mothers recruited at postnatal medical visit; 89% White, 6% Hisp., 5% Black	Retrospective report of emot. or physical abuse by known perpetrator in last 12 mos M=45 days pp	EPDS >12 M=45 days pp	Age, ethn., employ- ment, marital status, educ., tobacco/alcohol use, # of children in final model	Report of abuse w/ more sx
60	Cerulli et al. (2011)	CS	188 US mothers from urban pediatric clinic w/ infant under 14 mos who attended well-baby visit in first 12 mos post-birth, 80% never married	IPV (hx, during preg. or first mo pp) 2 wks-14mos pp	Maj. or minor depr. w/ SCID-IV 2 wks-14 mos pp	Race, cohabitation, prior depr.	Univar.: IPV in past yr w/ PPD; Multivar.: n.s.

61	Chaaya et al.	LG	396 mostly married urban and rural	Number of close friends (dichot-	EPDS >12	Prenatal depr., chronic	Univar.: 0 or 1 close friends w/ more
	(2002)		Lebanese mothers	omized 0-1 and 2+), SLEs 24 hrs pp	4-5 mos pp	maternal health prob- lems, delivery type, area (urban/ rural), lifetime depr., educ., working status, breastfeeding in final model	PPD; SLEs w/ PPD in rural area only; Multivar.: n.s.
62	Chatterji & Markowitz (2012)	CS ^b	3,350 biolog. or adoptive mothers in the US who had worked either part-time or full-time during preg. and returned to work either part-time or full-time by 9 mos pp	Marital status, length of family leave and paid leave after child-birth	CES-D sx and >14 9 mos pp	Age, educ., race/ethn., child age, parity, marital status, region, urban residence, receiving welfare, infant low birthweight, infant prematurity	Less than 12 weeks of maternal leave w/more sx
63	Chen et al. (2013)	LG	203 mothers who immigrated from China or Vietnam to Taiwan; all married to Taiwanese men.	Soc. supp. 1, 6 mos pp	EPDS sx 1, 6 mos pp	Length of time in Tai- wan, local language ability, soc. accultura- tion, age, educ.al level, work status, family SES, parity	Univar.: Soc. supp. at 1 mo w/ lower sx at 1, 6 mos pp; Soc. supp. at 6 mos w/ lower sx at 6 mos; Multivar.: Soc. supp. at 1 mo indirectly predicted sx at 6 mos via soc. attitude and supp. at 6 mos; Pos. soc. attitude moderated (decreased) neg. relationship between PPD at 1 mo and soc. supp. at 6 mos
64	Cheng & Pick- ler (2009)	CS	152 US mothers, 95% foreignborn; 100% Asian (Taiwanese or Chinese decent)	Soc. supp. (importance and amount received), perc. stress During 1st yr pp (average of 6 mos)	cutoff 16	Baby's age, length of stay in US, employ- ment, and parity in final model	Univar. and multivar.: Received soc. supp. w/ fewer sx; supp. importance, perc. stress w/ more sx; Relationship between stress and depr. moderated by received supp. and importance of supp.
65	Chien et al. (2012)	CS	380 mothers from Taiwan, half immigrant (Chinese, Vietnamese), half native, all married	Received soc. supp. (informational, emot., household) Within 1st yr pp (M=6 mos)	EPDS >9 Within first yr pp (M=6 mos pp)	Immigrant status, income sufficiency, decision-making power	Univar.: Lower soc. supp. w/ PPD (all subtypes for native women, only informational and emot. for immigrant women); Multivar.: n.s.
66	Choi et al. (2013)	CSb	262 Japanese mothers	Parent relationships in childhood (maternal/ paternal care, overpro- tection), financial distress 3-12 mos pp	Zung Self-Rating Depression Scale sx 3-12 mo pp	-	Lower parental care, higher paternal overprotection, lower maternal overprotection w/ sx
67	Chung et al. (2013)	CS	249 mothers from urban hospitals in Korea; Excl.: current or past psychiatr. illness, maj. chronic diseases, obstetric or preg. com- plic., infant complic.	Stressful events during preg., soc. supp. 3-7 days pp	EPDS sx 3-7 days pp	Household income, self- esteem, antenatal depr.	Stressful events during preg. w/ sx; Soc. supp. indirectly w/ sx via self-esteem, antenatal depr., and stressful events
68	Cohen et al. (2002)	CS	200 English-speaking Canadian mothers w/ full-term singleton preg. and infants w/o sig. medical problems	Adult physical, sexual, or emot. abuse (dichotomous), Child physical, sexual, or emot. abuse/neglect (dichotomous), Soc. supp. (low/high) 8-10 wks pp	EPDS >11 8-10 wks pp	Hx of depr., panic during preg., preg. complic.	Univar.: Low soc. supp., adult emot. abuse w/ PPD; Multivar.: Low soc. supp., emot. abuse sig. contr. for maternal com- plic., only soc. supp. sig. when also contr. for depr. hx and panic

69	Cooklin et al. (2011)	CS	1,300 employed mothers from Australia, 82% married, 85% born in Australia/ New Zealand	Partner status, unhappiness w/partner, lack of soc. supp., SLEs, lack of favorable job conditions (job security/ autonomy, flexible start/finish times, access to paid family leave) Within 12 mos pp (M=8.8 mos pp)	Kessler-6 >7 Within 1st yr (M=8.8 mos pp)	Prior depr., SES, single- mother household, # of children in household, infant age, hrs em- ployed, child care type also in model	Relationship unhappiness, lack of soc. supp., decreasing number of favorable job conditions w/ PPD
70	Cryan et al. (2001)	CS	377 urban Irish mothers	Marital status, presence/absence of confidant 6-12wks pp	EPDS >12 6-12 wks pp	Age, employment, pari- ty, delivery method, prior miscarriage, prior depr. treatment	Absence of confidant sig., marital status n.s.
71	Da Costa et al. (2000)	LG	80 English- or French-speaking preg. women from Canada, married or in stable relationship	Marital quality 8-14 wks' GA Supp. satisfaction, network size 8-14, 18-19, 31-32 wks' GA Daily stress, pregspecific stress 8-14 wks' and then monthly throughout preg. Infant Temperament 4-5 wks pp	EPDS >13, >9 and Lubin Depr. Adjective Check-List >13 4-5 wks pp	Prenatal depr., anxiety, self-confidence, emot. coping in 3rd trim., labor or delivery complic. in final model	Infant temperament w/ PPD
72	Dagher et al. (2009), Dagher et al. (2011)	CS (2009), LG (2011)	817 employed US mothers w/ healthy, singleton birth; 87% White	Work demands 11 wks pp Total workload, job flexibility, supervisor and coworker supp., soc. supp. from family and friends, infant sleep problems, infant irritable temperament 5 wks, 11 wks, 6 mos pp	EPDS sx 2009 paper: 11 wks pp 2011 paper: 5, 11 wks, 6 mos pp	2009 paper: Age, race, educ., marital status, poverty, occupation, leave status, prenatal mood disturbance; 2011 paper: Breastfeeding	2009 paper: Univar.: Psychol. demands w/ more sx; schedule autonomy, coworker supp., perc. control w/ fewer sx; Multivar.: Schedule autonomy, perc. control w/ fewer sx; For women w/ low coworker supp., decision latitude w/ fewer sx; 2011 paper: Higher total workload, lower job flexibility, lower soc. supp. from friends and family, infant sleep problems w/ sx
73	Dagher & Shenassa (2012)	CS	662 US mothers, 46% married, 31% college degree, one third smokers; 76% White	Responsibility-related and infant- related stress 8 wks pp	EPDS sx (w/ item 10, suicidal thoughts, excluded) 8 wks pp	Age, race, birth place, educ., marital status, self-reported health, labor/ delivery complic., infant sex, breastfeed- ing, health behaviors	Responsibility- and infant-related stress w/ sx
74	Davis et al. (2003)	CS	62 mothers of very premature (<32 wks) singleton infants w/o congenital anomalies from Australia, 92% Australian-born	Perc. Stress 1 mo pp	EPDS >11 1 mo pp	Nurse supp. and maternal educ.	Univar. and multivar.: Greater perc. stress w/ sx
75	Dennis et al. (2004)	CS	594 English-speaking Canadian mothers; 91% Cauc. Samples of Studies 76-80 overlap	Psychosoc. health (substance use + family violence), global soc. supp., relationship-specific supp. (partner, mother, mother-in-law, other mothers), LEs lwk pp	EPDS >9 1 wk pp	Recent immigrant, vul- nerable personality, depr. hx, preginduced hypertension, readiness for hospital discharge, satisfaction w/ feeding method	Univar.: Psychosoc. risk, low global and partner-specific supp. w/ PPD; Multivar.: low global supp. w/ PPD

76	Dennis & Letourneau (2007)	LG	498 English-speaking Canadian mothers; 91% Cauc. Samples of Studies 76-80 overlap	Global supp., relationship- specific supp. (partner, mother, other women w/ children) 1 wk pp	EPDS >12 8 wks pp	Income, depr. at 1 wk pp	Partner alliance and nurturance, and attachment w/ peer mothers w/ PPD.; global supp. n.s.
77	Dennis & Ross (2006a)	LG	594 Canadian women recruited at 32 wks' GA or at discharge post birth, mostly married; 175 w/ sx at 1 wk, 101 w/ sx at 8 wks pp; Most-	LEs (in past 12 mos), perc. stress, psychosoc. risk (endorsement of substance use, family violence, childhood sexual abuse)	EPDS >9 1, 8 wks pp	-	Cases at 1 wk pp who remained cases at 8 wks had higher psychosoc. risk (partner's drug abuse, childhood sexual abuse); less global, partner, maternal, other mothers' supp.; lack of available emot. supp.; and conflict w/ partner or other mothers; Cases at 8 wks who were also cases at 1 wk had more LEs and perc. stress, less global supp. and supp. from mother in law, more conflict w/ husband; Relationship status
			ly white Samples of Studies 76-80 overlap	Relationship status, soc. supp. (perc. global/ relationship-specific, available instrumental and emot.), relationship-specific conflict 1 wk pp			
78	Dennis &	LG	396 English-speaking Canadian	Partner-specific supp., pp-	EPDS sx and >9	_	n.s. Univar.: Low partner supp. (soc. integra-
, 0	Ross (2006b)	Lo	mothers, 94% Cauc.	specific partner supp. 4 wks pp	8 wks pp		tion subscale strongest), low pp supp., high conflict sig.; Multivar.: Soc. integra-
			Samples of Studies 76-80 overlap	Partner conflict 1 wk pp			tion subscale partner supp., encouragement to seek help sig.
79	Dennis & Vigod (2013)	LG	497 English-speaking Canadian mothers, 92% Cauc.	Childhood abuse, IPV, partner substance abuse, marital status	EPDS >9	Own substance abuse, ethn., income, educ.,	Univar.: partner substance abuse, physical and emot. IPV, childhood or adult sexual
	v igou (2013)		Samples of Studies 76-80 overlap	Antenatal (reported 1 wk pp)	8 wks pp	parity, personal hx of depr.	abuse, parent physical abuse sig.; Marital status n.s.; Multivar.: childhood physical abuse, partner substance abuse sig.
80	des Rivières- Pigeon et al. (2001)	CS	447 French-speaking mothers of singleton infants from Canada, 91% living w/ husband or boyfriend	Presence of stressors measured 3 ways: 1) ≥1 stressful event of 11 (e.g. health problems, divorce); 2) baby's health problems; 3) relationship stressors (# of people w/whom mother reported conflict); Soc. supp. network size, lack of soc. supp. when needed, relationship status 6 mos pp	CES-D sx 6 mos pp	# of children, educ.	Univar.: Stressful events, # of relationship conflicts, mother's and baby's health problems, # of people in network, lack of help when needed w/ sx; Multivar.: Maj. stressors, lack of supp. when needed and # of relationship conflicts predicted sx; Interactions n.s.
81	Dewing et al. (2013)	CS	249 mothers participating in a child health and nutrition program in South Africa		EPDS >13 3 mos pp	Age, HIV dx, smoking, marital status, employment, housing	Food insecurity w/ PPD
82	Diaz et al.	LG	69 English- or Spanish-speaking	Soc. supp., marital quality	CES-D sx	High vs. low risk for	High-risk women showed larger decline
	(2007)	07) low-income, mostly immigrant U Latinas in 2nd trim. and in intim relationship w/o maj. depr. disor	Latinas in 2nd trim. and in intimate relationship w/o maj. depr. disorder, substance abuse, psychosis or	Monthly 2nd trim -6 mos pn	Monthly, 2nd trim6 mos pp	depr. at baseline	in depr. if they had high supp. (interaction); Higher pp marital quality compared to prenatal predicted greater decline in depr. sx

83	Dolbier et al. (2013)	LG	299 non-Hisp. white and AfrAm. mothers in rural US; 60% below federal poverty level	Subjective SES, relationship status 6 mos pp	EPDS >9 and >12 1, 6 mos pp	Poverty, educ., race	Univar.: Single and unmarried relationship status w/ PPD (>9) at 1 mo pp; Multivar.: Lower subjective SES w/ PPD (>9, >12) at 6 mos pp; Marital status n.s. at 1 mo pp after contr. for race
84	Eastwood et al. (2013)	CS	15,389 mothers living in 101 Australian suburbs (data drawn from 3 sources)	Six factors derived from suburb- level variables: neighborhood adversity , soc. cohesion, health behaviors, housing quality, soc. services, and supp. networks	EPDS >9 2-3 wks pp	Most parsimonious model: entropy, nurse visit rate, percent living in apartments, smoking	Univar.: All variables sig.; Multivar.: Lack of soc. supp. w/ higher PPD odds
85	Eberhard-Gran et al. (2002)	CS	416 mothers from a total sample of 2,730 women from Norway	Emot. impact of 10 LEs in past 12 months 6 wks pp	EPDS >9 6 wks pp	-	Greater impact of LEs w/ PPD
86	Ehrlich et al. (2010), Harville et al. (2009)	LG	292 US women from New Orleans and Baton Rouge who were preg. during or shortly after Hurricane Katrina; 68% White, 29% Black Ehrlich et al. (2010) are 208 women w/ 6 and/ or 12 mos follow-up	Hurricane experience (damage, illness/injury, and danger) assessed during hospitalization at time of birth, loss of resources 6 mos pp	EPDS >12 8-10 wks, 6 mos, 12 mos pp	Age, race, educ., marital/partnership status, parity and income (income not in 6 and 12 mos models)	Perc. or experienced danger, injury to self or other, severe impact on property w/ PPD at 8-10 wks pp; ≥2 severe experienc- es of the storm w/ PPD at 8-10 wks pp; Hurricane experience and nontangible loss of resources w/ PPD at 6 and 12 mos
87	Escribà-Agüir & Artazcoz (2011)	LG	687 Spanish preg. women, majority Spanish natives	Marital dissatisfaction, available confidant, affective soc. supp., neg. LEs 28-31 wks' GA, 3 mos pp	EPDS >12 3, 12 mos pp	Model 1: Partner depr., depr. hx, time of data collection (3 vs. 12 mos pp); Model 2: Above + 3rd trim. depr.	Univar.: All variables w/ sx; Multivar.: Marital dissatisfaction and neg. LEs w/ PPD sx in both models
88	Escribà-Agüir et al. (2013)	LG	914 Spanish preg. women recruited in 1st trim.	Partner/family substance abuse 1st trim. Perc. soc. supp. (affective, emot./ informational, instrumental), cur- rent and lifetime IPV 5, 12 mos pp	EPDS >10 5, 12 mos pp	Prenatal depr., prenatal health status	Multivar.: Current psychol. IPV, low tangible, affective soc. supp., partner/family substance abuse w/ PPD
89	Fagan & Lee (2010)	LG	100 adolescent preg. women ages 13 to 19 from the US whose part- ners participated in fathering inter- vention; 41% Black, 41% Latina	Partner's involvement in preg./ caregiving, satisfaction w/ level of partner involvement, partner received supp., partner conflict, parenting stress 5-9 mos' GA, 3 mo pp	CES-D sx 3 mos pp	# of sessions attended by partner, maternal race and ethn., educ., co-habitation, prenatal depr. sx	Univar.: Satisfaction w/ pp involvement, pp supp., preg. pp conflict and parenting stress w/ sx; Multivar.: Satisfaction w/ involvement pp sig., contr. for supp. and conflict (but not after contr. for parenting competence)
90	Faisal-Cury et al. (2004)	CS	or living w/ child's father; Excl.: hx of depr., psychiatr. treatment, alcohol, drug use, severe infant health problems; 65% White	LEs in past 12 mos 10 days pp	BDI > 15 for depr.; SBS > 8 or Pitt's Depression Inventory > 20 for blues 10 days pp		No sig. associations
91	Faisal-Cury et al. (2013)	CS	701 low-income women in Brazil; 47% White	Partner status, IPV prior, during, after preg. (psychol., physical, sexual), sexual abuse before age 16, perc. soc. supp. 12 mos pp	Self-Report Question- naire (SRQ-20) >7 12 mos pp	Income, partner status, ethn., age, educ., prenatal depr.	Univar.: low soc. supp., psychol. IPV, physical/ sexual IPV, early life sexual abuse sig.; Partner status n.s.; Multivar.: Contr. for soc. supp., all types of IPV sig.; IPV pp, or preg. and pp sig.

92	Feeney et al. (2003)	LG	76 married Australian couples undergoing transition to parenthood	Attachment (discomfort w/ closeness, relationship anxiety), spousal caregiving (sensitivity, proximity, cooperation, compulsive); relationship satisfaction; soc. supp. (perc. network) 2nd trim.	Depression Anxiety and Stress Scale sx 6 wks pp	Prenatal depr.	Univar.: Relationship anxiety, infant temperament sig.; Multivar.: Relationship anxiety predictive; Sx highest when relationship anxiety and compulsive care both high
				Infant temperament 6 wks pp			
93	Figueiredo et al. (2007)	LG	108 mostly Portuguese preg. women (54 adolescents 14-18 yrs, 54 adult); 98% Cauc.	Cohabitation w/ partner, family of origin 24-36 wks' GA	EPDS >12 and sx 2-3 mos pp	Age, educ., employ- ment, parity, prenatal depr. sx	Linear regression: living w/ family w/ greater sx; Logistic regression: Living w/ partner w/ increased risk of PPD
94	Forman et al.	LG	5,091 preg. women from Denmark	Perc. isolation, marital status	EPDS >12	Age, parity, occupation-	Univar.; Perc. soc. isolation and marital
	(2000)		enrolled at 16 wks' GA and followed to pp	30 wks' GA	4 mos pp	al status, personal and family psychiatr. hx, preg. distress, neg. peri- natal events	status sig.; Multivar.: Perc. soc. isolation sig.
95	Gao et al.	CS	130 married middle-class couples	Soc. supp., perc. Stress	EPDS sx	Maternal educ., parent-	Univar. and multivar.: Lower soc. supp.
	(2009)		from mainland China w/ first and singleton births, no birth complic. or psychiatr. hx	6-8 wks pp	6-8 wks pp	in-law preference for male baby and husband depr.	and greater perc. stress w/ PPD
96	Gao et al. (2008)	CS	1,085 Pacific Island mothers from New Zealand, cohabiting w/ spouse or partner; 49% Samoan, 24% Ni- uean, 14% Tongan, 7% Non- Pacific	Verbal aggression, minor or severe physical violence 6 wks pp	EPDS >12 6 wks pp	Ethn., income, parity, satisfaction w/ home, transportation problems, reaction to preg., satisfaction w/ infant sleep, happiness in relationship, insufficient money for food	Univar.: Verbal aggression and physical violence; severe physical violence stronger odds than minor violence; Multivar.: Physical violence only; small difference in odds between severe and mild violence
97	Garabedian et al. (2011)	CS	5,380 US women ≥18 yrs from Kentucky Women's Health Registry w/ ≥1 live birth; Mostly white, non-Hisp.	IPV (physical, sexual, stalking), non-partner sexual violence, childhood abuse (physical, sexual) Retrospective report of experiences at any time in life and in childhood		Age, marital status, obstetrical hx, breast- feeding, tobacco and substance use hx	All adult violence and childhood physical abuse w/ PPD; Dose-response increase in PPD odds for each type of violence endorsed
98	Gauthier et al.	LG	331 Canadian preg. women cohab-	Anxious attachment to partner	EPDS sx	Motivation for being	Simple correlations: Anxious attachment
	(2010)		iting w/ child's father, w/ singleton preg. and delivery >34 wks' GA, w/o maj. complic.	2nd-3rd trim.; 2, 5 mos pp	2, 5 mos pp	parent, parenting self- efficacy	at all times w/ sx; Cross-lagged associations: Anxious attachment at 2 mos pp w/ sx at 5 mos, contr. for earlier depr.
99	Giardinelli et	LG	590 preg. women from Italy attend-	Family conflict, partner conflict	EPDS >9	-	Family and partner conflict w/ PPD in
	al. (2012)		ing childbirth preparation course	28-32 wks' GA	3 mos pp		whole sample, but n.s. for de novo PPD
100	Gold et al. (2013)	CS	153 mothers of sick, hospitalized newborns in Ghana	Marital status, soc. supp. (relative available to help post-hospital), IPV Timing unspecified	PHQ-9; None <5, Mild 5-9, Mod/severe >9 Timing unspecified	Maternal age, educ., financial status, rural versus urban residence, parity, self-rated poor health, depr. hx	Univar.: Lack of soc. supp., IPV w/ higher PPD, marital status n.s.; Multivar.: IPV w/ higher PPD

101	Gomez-Beloz et al. (2009)	CS	2,317 Peruvian mothers	Lifetime and preg. IPV 1-4 days pp	Physical Health Questionnaire-Depression Subset sx 1-4 days pp	Age, educ., employment status; preg. model also adjusted for marital status	Lifetime and preg. IPV sig.
102	Grazioli & Terry (2000)	CS	57 first-time mothers from Australia, married or in stable relationship	Parental stress, infant temperament 6 wks pp	EPDS sx 6 wks pp	Depr. sx in 3rd trim.	Univar. and multivar.: Greater parental stress w/ sx
103	Gremigni et al. (2011)	LG	70 primiparous Italian women receiving care at regional public hospital and cohabiting w/ baby's father	Partner supp. expectations, partner relationship adjustment 38 wks' GA Confirmation of partner supp. expectations (dichotomous) 3 mos pp	EPDS >9 3 mos pp	Age, educ., depr. hx, prior miscarriage in final model	Lower partner supp. than expected w/PPD; Relationship adjustment and partner supp. expectations in preg. n.s. both univar. and multivar.
104	Grote & Bledsoe (2007)	LG	179 married nulliparous preg. women from the US; Predominantly White	Stress frequency (financial, spousal, physical, work stress) 5 mos' GA	Symptom Check List - Depression subscale 6, 12 mos pp	Antenatal depr. sx, individual income and optimism in final models	Simple comparisons: Higher financial, spousal, physical stress w/ sx at 6, 12 mos pp; work stress w/ sx at 12 mos; Multivar.: Financial, spousal, and physical stress interacted w/ optimism in predicting sx at 6 and/or 12 mos
105	Grussu & Quatraro (2009)	LG	297 Italian-born preg. women attending antenatal classes, mostly married or cohabiting and middle SES; Excl.: "psychol. problems"	Soc. supp. (family/ friend confidant), marital satisfaction, LEs 8-9 mos' GA	EPDS >8 and General Health Questionnaire >3 6-8 wks pp	Prenatal anxiety, educ.	Univar.: Soc. supp. from family and friends, life stress (moving only) w/ PPD; marital satisfaction n.s.; Multivar.: Soc. supp. from friends w/ PPD; marital satisfaction, family supp., and moving not in final model
106	Hagen (2002)	CS	128 mostly married US and Canadian mothers w/ infants 3-32 wks old, low to middle income	Relationship quality, soc. constraints from partner on abortion 3-32 wks pp (M=11)	EPDS sx 3-32 wks pp (M=11)	-	Soc. constraints on abortion (especially from partner) w/ increased sx for mothers w/ unwanted/ unplanned preg.
107	Hamdan & Tamim (2011)	LG	137 Arabic- or English-speaking, married and mostly college-educ. (71%) preg. women in the United Arab Emirates, 53% from Arabian Peninsula and Levant Countries, 47% from North Africa and other countries (e.g., India, Pakistan)	LEs 2nd trim.	EPDS sx and if >9, dx confirmed w/ MINI- Major Depression Module 2 mos pp	-	No sig. associations
108	Haslam et al. (2006)	LG	168 Australian preg. women w/ relationship partners and first births, half college-educ.	Marital status 3rd trim. Available supp. (parents, partner) 4 wks pp	Combined EPDS and BDI sx 4 wks pp	Antenatal depr., in- come, preg. planning, self-efficacy in final model	Univar.: marital status, parent supp. sig. (not partner); Multivar.: self-efficacy mediated effect of parent supp.
109	Hayes et al. (2010)	CS	7,154 US mothers w/ recent live births from Hawaii (data from Ha- waii PRAMS, 2004-2007); 22% Hawaiian, 20% Filipino, 19% White, 12% Japanese, 11% Chi- nese, 5% Korean, 4% Other Pacific Islander	IPV during preg. Timing unspecified	PHQ-2 scored into 3 groups: depr./possible depr./none Timing unspecified	Race/ethn., age, educ., preg. intent, smok- ing/drug use in preg., low SES	IPV during preg. w/ increased odds of depr. and "possible" depr.

110	Hergüner et al. (2013)	CS	105 mothers of infants with normal, low and very low birth weight in Turkey; Excl.: depr. treatment, multiple births, birth defects.	Perc. soc. supp. 5 mos pp	EPDS sx, >12 5 mos pp	-	Lower soc. supp. w/ more sx
111	Hibino et al. (2009)	LG	99 married women who were preg. immediately after or during maj. earthquake and living in disaster area during earthquake in Japan	Earthquake exposure (evacuation, subjective feelings or anxiety about an earthquake, degree of damage to home, earthquake intensity) 20 wks (avg) after quake and 32	EPDS sx Avg of 26.7 days pp	Age, GA at time of earthquake and sense of coherence (i.e., stress resistance) in final model	Univar.: Anxiety about earthquake w/ sx; Multivar.: Sense of coherence in preg. moderated association between sx and anxiety about earthquake
				wks' (avg) GA			
112	Ho et al. (2013)	CS	186 first-time mothers w/o obstetric complic. in Taiwan	Relationship quality, perception of father's participation in child-care, supp. for maternal role from friends, parents, other family members	EPDS sx	Confidence to cope w/ motherhood, life satis- faction	Univar.: Relationship quality, perception of father's participation in childcare, supp. for maternal role w/ sx; Multivar.: Father's participation in childcare w/ sx in stepwise model
				1 wk-2 mos pp			
113	Honey, Bennett & Morgan (2003); Honey, Morgan & Bennett (2003)	LG	223 preg. women w/ first births in the UK from a total sample of 306 studied in 3rd trim.	Appraisal of anticipated child- care stress, daily hassles, partner relationship length, mother rela- tionship quality, available supp. (non-partner/mother confidants, access to childcare), supp. satis- faction 28-42 wks' GA (M=34)	EPDS sx and >12 6 wks pp	Depr. hx, depr. during preg.; antenatal apprais- al, coping; neg. postna- tal appraisal (threat, low 'controllable by self')	Univar.: Cases reported more hassles, low access to childcare help, and low satisfaction w/ soc. supp.; Multivar.: Frequency of childcare stressors, hassles since preg., low access to childcare help, and low preand postnatal soc. supp. satisfaction w/ sx
				Frequency of childcare stress, supp. satisfaction 5-9 wks pp (M=6)			
114	Horowitz et al.	CS	143 US mothers; 65% White, 25%	Financial stress	Lubin Depression Ad-	Predictors in canonical	Financial stress w/ greater mood sx but
	(2005)		Black, and 9% other	2-50 wks pp (avg 11 wks)	jective Check-List (depr. mood) and Brief Symptom Inventory (clinical depr. sx)	correlations: maternal attributes (age, parity, depr. hx, time since delivery), resources	lower clinical sx in one of the two canonical variate pairs
					2-30 wks pp (avg 11 wks)	(income, marital status, partner help/ emot. supp., perceptions (par- enting evaluation, infant centrality)	
115	Howell et al. (2005)	CS	655 urban English or Spanish speaking US mothers w/ normal birth weight infants w/o maj. complic.; 55% Cauc., 29% Hisp., 16% AfrAm. Sample overlaps w/ Study 118	Marital status, soc. supp. and criticism, infant colic 2-6 wks pp (asked about 1st and 2nd wk pp)	2-item Primary Care Evaluation screener scored as yes/no 2-6 wks pp (asked about 1st and 2nd wk pp)	Race, depr. hx, physical sx, physical functional limitations, infant- related role demands, self-efficacy, access and trust in health care in final model	Univar.: Soc. supp. sig., infant colic sig. among White and Hisp. but not among AfrAm. women; Multivar.: Soc. supp. and infant colic sig.

116	Howell et al. (2006)	CS	720 primarily low and middle income US mothers; 50% Cauc., 26% Hisp., 15% AfrAm., 5% Asian Sample overlaps w/ Study 117	Marital status, soc. supp. and criticism, infant colic 2-6 wks pp (asked about 1st and 2nd wk pp)	2-item Primary Care Evaluation screener scored as yes/no 2-6 wks pp (asked about 1st and 2nd wk pp)	Race, depr. hx, physical sx, infant colic, functional impairment and self-efficacy in final model	Univar.: Lack of soc. supp., criticism, infant colic w/ sx; Multivar.: Lack of soc. supp., infant colic sig.; Interaction between soc. supp. and self-efficacy n.s.
117	Husain et al. (2012)	LG	208 preg. English- or Urduspeaking 1st and 2nd generation Pakistani women w/ singleton preg. from the UK; Excl.: diagnosed physical or learning disability	LEs and difficulties in past 12 mos, marital status, adequacy of soc. supp. (family, friends, sig. other), soc. isolation, lack of soc. supp., dissatisfaction w/ supp., availability of confidant 3rd trim.	EPDS >11 6 mos pp	Age	Univar.: Life difficulties (financial, marital, other relationship, entrapment), not being married, soc. isolation, and low soc. supp. (all sources) w/ PPD; Family and partner supp. w/ resolved PPD over time; Multivar.: Soc. isolation, others' health difficulties, and difficulties not related to health w/ PPD
118	Husain et al. (2011)	LG	763 preg. women from Pakistan	LEs and difficulties in past 12 mos 3rd trim.	EPDS >11 3 mos pp	For persistent depr. (3rd trim. to 3 mos pp): Age, income, educ., work outside home, husband educ./ employment, husband away for >1 mo, # children, ever lost child, separate family, med, disability, current psychol. distress	Univar.: LEs w/ persistent depr. and de novo onset pp; Logistic regression (con- ducted for persistent vs. resolved depr. only): LEs w/ persistent depr.
119	Iles et al. (2011)	LG	212 married or cohabiting English- speaking couples from the UK w/ partner present during la- bor/delivery, no NICU or hx of domestic violence; 98% White	Partner attachment anxiety and avoidance 6 wks Satisfaction w/ partner supp. 1 wk, 6 wks, 3 mos pp	EPDS sx 6 wks, 3 mos pp	Age, trait anxiety, individual and partner's earlier PPD sx, partner's attachment anxiety and avoidance in final model	Univar.: Dissatisfaction w/ supp. and attachment anxiety and avoidance predictive at all time-points; Multivar.: Maternal attachment anxiety predictive of sx at 6 wks; partner's attachment anxiety predictive at 3 mos; Dissatisfaction w/ partner supp. partially mediated effect of combined attachment security on 6 wk sx
120	Ingram &	LG	118 ante- and postnatal records of	Practical and emot. soc. supp.	EPDS ≥13	-	Low prenatal emot. supp. w/ PPD
	Taylor (2007)		first births in the UK, 80% low SES	30-36 wks' GA	6 wks pp		
121	Kendall- Tackett et al. (2013)	CS	6,410 mothers who completed online survey (944 w/ hx of sexual assault), 74% from US; 91% Cauc.	Hx of sexual assault 0-12 mos pp	PHQ-2 sx	Feeding method	Sexually assaulted women had greater sx than those w/o hx of assault
122	Kim et al. (2008)	LG	60 South Korean preg. women (30 depr. and 30 non-depr.) out of 239 enrolled	Marital satisfaction 24 wks' GA Childcare stress 1 wk, 6 wks pp	EPDS, BDI sx; dx confirmed w/ SCID (DSM-IV) for women w/ EPDS scores >9 1 wk, 6 wks pp	Prenatal depr. Sx	Univar.: Marital satisfaction w/ lower BDI scores at 1 wk pp and lower EPDS and BDI scores at 6 wks pp; Childcare stress at 1 and 6 wks pp w/ higher BDI scores at 1 and 6 wks and higher EPDS scores at 6 wks pp; childcare stress at 1 wk pp also w/ EPDS at 1 wk pp; Multivar. (predicting PPD at 6 wks): n.s.

123	Kirpinar et al. (2010)	LG	479 Turkish-speaking preg. women from Turkey, 57% primary school educ. or more	Perc. family soc. supp., family size 3rd trim. Marital quality 6 wks pp (asked about first 6 wks pp)	EPDS sx and >12 6 wks pp	Health insurance, previous contraceptive use, psychiatr. hx and prenatal anxiety in final model	Univar.: Family size and poor marital quality sig.; Multivar.: Marital quality sig.
124	Kozinsky et al. (2011)	CS	3,952 mothers from two population-based cohorts recruited in 1996 (n=2,333) and 2006 (n=1,619) from Hungary; Excl.: illiteracy, stillbirth/ perinatal death and depr. due to other reasons	Marital status, Presence/absence of divorce, partner relationship problems, family, friend or neighbor relationship problems; LEs in past yr 6-10 wks pp	Leverton question- naire ≥12 6-10 wks pp	1996 cohort: Age, type of residence, unplanned preg., maj. depr. hx, independent management of daily problems in final model; 2006 cohort: Primiparity, independent management of daily problems, unplanned preg., low income, intention to return to work in final model	Univar. and multivar.: All relationship variables w/ PPD in both cohorts; Maj. LEs (≥2) w/ PPD in 2006 cohort only
125	Kritsotakis et al. (2013)	LG	356 preg. women in Greece, recruited through mother-child cohort study; singleton live-birth preg. only	Marital status, soc. capital (total; structural, cognitive subscales) 24 wks' GA	EPDS sx 8-10 wks pp	Age, educ., physical activity before preg., smoking during preg.	Univar.: low total, low cognitive soc. capital w/ sx; Multivar.: Total soc. capital, structural, cognitive subscales sig. in linear regression; Low total, cognitive supp. w/ sx contr. for prior depr.
126	Kruse et al. (2013)	LG	567 primiparous women recruited via prenatal clinics in the US	Partner status, IPV <28 wks' GA Partner relationship quality, expected partner supp. at delivery 35 wks' GA Post-delivery partner supp. satis- faction 6 wks pp	PPD Screening Scale sx 6 wks pp	Labor experience	Univar.: partner relationship quality w/sx; Partner status, IPV, and partner x IPV interaction n.s.; Multivar.: Post-delivery supp. satisfaction w/PPD contr. for partner status, IPV, labor experience; When all variables entered, only relationship quality and supp. satisfaction sig.
127	Kuo et al. (2004)	CS	3,952 English- or Spanish- speaking, Latin American or Latin Caribbean origin mothers from the US; Excl: women from Puerto Rico or Brazil, medical or psychol. conditions	Perc. soc. supp., marital status Immediate pp period before discharge from hospital	CES-D≥16 Immediate pp period before discharge from hospital	Age, nationality, educ., income, employment, immigration status, drug use, health care, acculturation	Univar.: Marital status, soc. supp. sig.; Multivar.: Soc. supp. sig.; Marital status effect sig. but weakened when adjusted for other demographics
128	Kuscu et al. (2008)	CS	100 Turkish mothers w/o medical or pregrelated problems in first wk pp	Soc. supp., adult attachment, quality and quantity of supp. network 7-10 days pp	EPDS sx 7-10 days pp	State anxiety in final model	Univar.: Neg. associations w/ living w/ extended family, family supp., "special other" supp., and secure attachment style; pos. associations w/ avoidant and ambivalent attachment; Multivar.: Presence of wider soc. network, family supp., low ambivalent attachment predictive

129	LaCoursiere et al. (2012)	LG	1,038 mothers of live-born singleton infants in the US; 87% Cauc.	Financial, partner-associated, emot. and traumatic stressors in preg. 24-48 hrs pp	EPDS >11 6-8 wks pp	Age, gravidity, race/ethn., educ., pre- preg. BMI, hx of abuse, depr. hx in final model	Preg. stressors predicted increased risk of PPD, especially among women w/ abuse hx
130	Lee et al. (2011)	CS	60 mothers who conceived by IVF in Taiwan	Available soc. supp., family function, perc. stress 6-9 wks pp	BDI-II sx 6-9 wks pp	Age, length of infertili- ty, frequency of IVF treatment, # of births, delivery type, parenting confidence, stress	Multivar.: Soc. supp. sig.
131	Lee & Hsu (2012)	CS	55 US mothers of low birth weight infants; 69% Black, 16% White, 13% Hisp.	Perc. Stress 2 wks pp	EPDS sx 2 wks pp	-	Greater perc. stress w/ sx
132	Lefkowitz et al. (2010)	LG	60 US mothers of infants admitted to NICU; 71% Cauc.	LEs 3-5 days after NICU admission	PPDS sx ≥30 days after Time 1 (median days=32.5)	-	Univar.: More LEs w/ sx
133	Leigh & Milgrom (2008)	LG	161 preg. women from Australia, mostly married or in stable rela- tionship, 88% Australian-born	Recent maj. LEs, soc. supp., hx of childhood abuse 26-34 wks' GA Parenting stress 10-12 wks pp	BDI sx and >12 10-12 wks pp	Prenatal anxiety/ depr., age, educ., income, hx of depr., hx of miscar- riage/ abortion, neg. cognitive style, self- esteem in final model	Univar.: Soc. supp., abuse hx and parenting stress w/ sx; Multivar.: Parenting stress remained sig. in final model; Mediation analyses suggest that prenatal depr. is a mediator in the link between LEs and PPD
134	Leung et al. (2005)	LG	385 Hong Kong Chinese preg. women living w/ baby's father	Perc. stress, supp. ex- pected/received, supp. im- portance, source-specific de- sired/received supp. (partner, parents, in-laws), dissatisfaction w/ supp. 36 wks' GA, 6 wks pp Childcare stress 6 wks pp	EPDS sx 6 wks pp	Age, educ., income, delivery mode, parity, antenatal depr.	Univar.: Ante- and postnatal perc. stress, childcare stress, postnatal supp. (lower received emot./ material supp., lower partner/ parent supp., higher importance), and dissatisfaction w/ family supp. w/ more sx; Multivar.: Block variables pp stress, pp received supp. and supp. dissatisfaction w/ sx
135	Leung et al. (2013)	LG	475 preg. women in Canada	LEs in preg., 12 mos before preg., before age 17; soc. supp. Multiple times in preg.	EPDS >9 12 wks pp	2nd and 3rd trim. depr. sx, selenium supple- ment intake in final model	Univar.: More LEs in this preg. and lower prenatal, pp supp. w/ PPD; Multivar.: Soc. supp. pp w/ lower PPD
136	Lobato et al. (2012)	CS	811 urban Brazilian mothers receiving care from public primary health centers; Excl.: multiple births, partner relationship <1 mo, contraindication for breastfeeding	Physical IPV in past yr (CTS-2), partner alcohol and drug misuse SLEs (tested as control only) 0-5 mos pp	EPDS >11 0-5 mos pp	Socioeconomic, demo- graphic and reproduc- tive characteristics, SLEs, perinatal care, birth outcomes	Single incident of IPV w/ PPD when no partner alcohol misuse; Two or more incidents of IPV w/ PPD when alcohol misuse present
137	Logsdon & Usui (2001)	CS	201 US mothers: 107 White low risk, married w/ term infants, no preg./ delivery complic., no hx of mental illness; 37 White w/ preterm NICU infants w/ similar demographics; 57 AfrAm. low income, term and preterm infants, most unmarried	Importance and receipt of soc. supp., closeness to partner 4-8 wks pp	CES-D sx 4-8 wks pp	Self-esteem	Partner closeness and quantity of supp. w/ lower sx; importance of supp. w/ more sx

138	Logsdon et al. (2008)	CS	85 mostly low-SES, 13-18 yr old adolescent mothers from the US w/ first live birth in past 4- 6 wks	Received soc. supp., soc. network size, perc. stress, community violence (victim and witness scales) 4-6 wks pp	CES-D sx 4-6 wks pp	Antidepressant use, and, depending on model: Age, sense of mastery, self esteem, race (minority or not), SES	Perc. stress and community violence w/ PPD; Network size w/ PPD contr. for antidepressants and received supp.; mar- ginal controlling for other psychosoc. variables
139	Ludermir et al. (2010)	LG	1,045 Brazilian preg. women	IPV during preg. (psychol. and/or physical/sexual), cohabitation w/ partner, relationship quality (communication + control), soc. supp. 3rd trim.	EPDS >11 and sx 5-10 mos pp (M=8)	Age, race, educ., employment, length of study follow-up, hx and current mental illness	Univar.: not living w/ or poor communication w/ partner, high control by partner, no soc. supp., psychol. violence, combined physical/sexual and psychol. violence all sig.; Multivar.: Only partner violence results given; psychol. and physical/ sexual and psychol. sig. after controls and other soc. variables
140	Mao et al. (2011)	CS	376 Chinese married first-time mothers w/ healthy newborn; Excl.: depr. or self-harm hx, family psychiatr. hx, hypnotics usage	Soc. supp., relationship w/ mother-in-law, perc. stress 6-8 wks pp	EPDS >12 6-8 wks pp	Partner depr., infant sleep	Low soc. supp., tense relationship w/mother-in-law and perc. stress w/sx
141	Martinez- Schallmoser et al. (2003)	LG	66 US Spanish-speaking or bilingual Mexican American preg. women w/ prior births, medically low-risk, all married or partnered, 98% born in Mexico	Parenting soc. supp. (need, satisfaction w/ supp., network size; # of conflicting relationships); family quality (satisfaction; importance of relatives, partner, children) 34-36 wks' GA, 4-6 wks pp	4-0 wks pp	Prenatal depr., ethnic identity/ acculturation	Univar.: Greater need for supp., lower satisfaction w/supp., conflict network size (pre and postnatal) sig.; Multivar.: Low prenatal supp. satisfaction, low pp family quality, high pp supp. need, large network size pp, interaction of pp supp. satisfaction by need (direction not specified) all w/ higher PPD
142	Matthey et al. (2000)	LG	157 Australian preg. women and their partners selected for normal distribution of maternal defense style; Excl.: PTB	Partner supp. (care, control), relationship w/ own parents (care, protection), interpersonal sensitivity 20-24 wks' GA	General Health Ques-	Prenatal depr., partner's depr.	Univar.: High maternal control, interpersonal sensitivity at 6 wks pp; low maternal care, high maternal control, high partner control at 4 mos pp; and low partner care, high interpersonal sensitivity at 12 mos pp associated w/ PPD among women not depr. prenatally; Multivar.: High partner control sig. at 4 and 12 mos pp
143	Maxted et al. (2005)	CS	93 US mothers from outpatient colic clinic (51 low, 28 moderate, 14 high depr.)	Parenting stress, colic sx, infant temperament, soc. supp. helpful- ness, family functioning 9 wks pp	BDI (<10 low severity, 10-17 moderate sx, >17 clinically sig. sx) 9 wks pp	-	Women w/ clinical PPD had more frequent and intense parenting stress and infants w/ more fussy/difficult temperament; Women w/ low depr. had better family functioning than those w/ moderate and high depr.
144	McGrath et al. (2008)	LG	139 US mothers; 89% Cauc.	Infant temperament and child- care stress 2, 6 mos pp	EPDS >11 2, 6 mos pp	Lifetime hx of maternal abuse, prenatal anxiety in 3rd trim.	Difficult infant temperament w/ PPD at 2 and 6 mos; Childcare stress n.s.

145	McMahon et al. (2005)	LG	100 Australian mothers w/ first births and no twins, highly educ., living w/ baby's father	Early parent relationship, marital satisfaction, attachment style (anxiety, discomfort w/ closeness) 4 mos pp	CIDI dx, CES-D sx 4 mos pp (CIDI, CES-D), 12 mos pp (CES-D); "Persistent depr." if CES-D > 16 at 12 mos pp	Educ., English as a second language, ego defense style, baseline depr.	Univar.: Lower paternal care, lower marital satisfaction, anxious and uncomfortable attachment w/ dx at 4 mos pp; Lower maternal care correlated w/ sx at 12 mos; Poorer attachment and marital satisfaction correlated w/ sx at 4 and 12 mos; Multivar.: Low maternal care, low marital satisfaction, anxious attachment predicted persistent depr.; Anxious attachment mediated maternal care association w/ sx	
146	McVey & Tuohy (2007)	CS	415 married, mostly well-educ. mothers of infants up to 12 mos from the UK	Soc. supp. availability, change in marital quality (1-item) 0-12 mos pp (M=6.55 mos)	EPDS subscale scores (depr. sx, anhedonia, anxiety sx) 0-12 mos pp	Other EPDS subscales	Decline in marital quality, high supp. availability, low supp. satisfaction w/ sx; Decline in marital quality w/ anhedonia sx	
147	Meredith &	CS	72 married Australian women, half	Marital quality, attachment style,	EPDS >12	-	Depr. women more likely to report infant	
	Noller (2003)		participating in residential treat- ment for child-related difficulties	infant difficult temperament Timing unspecified	Timing unspecified		difficulty and preoccupied attachment; less likely to have secure attachment style	
148	Milgrom et al.	LG	12,361 preg. women from Austral-	Perc. emot./ practical supp., early	EPDS >12	Antenatal depr., previ-	Univar.: Lack of partner, abuse hx, lack of	
	(2008)		ia; 74% Australian-born, 8% Asian, 5% New Zealand/ Oceania	relationship w/ mother, partner relationship, prior abuse, rela- tionship status; LEs in past yr, daily hassles 25 wks' GA	6 wks pp	ous psychiatr. condition, antenatal "emot. prob- lems", perfectionism	soc. supp., low early maternal supp., maj. LEs and daily hassles w/ PPD; Multivar.: High partner supp. and minimal daily hassles w/ fewer sx	
149	Mohammad et al. (2011)	LG	353 Arabic-speaking preg. women from Jordan	Soc. supp. satisfaction, difficult marital relationship, relationship w/ mother-in-law, LEs, perc. stress 3rd trim. (all); 6-8 wks pp, 6 mos pp (soc. supp. satisfaction, perc. stress)	EPDS >12 6-8 wks, 6 mos pp	Unplanned preg., antenatal depr., maternal self-efficacy, perc. parenting knowledge, baby gender, and 7 variables related to labor/ delivery care	Univar.: 3rd trim. and 6-8 wk stress and soc. supp., LEs, difficult relationship w/ spouse and mother in law w/ sx at 6-8 wks pp; 3rd trim. soc. supp. and 6-8 wk stress and soc. supp. w/ sx at 6 mos pp; Multivar.: Relationship w/ mother-in-law, pp soc. supp., and pp stress w/ average sx	
150	Monk et al.	LG	56 US preg. women w/ singleton	Perc. Stress	CES-D sx	Depr. during preg., age,	Univar. and multivar.: Perc. stress at 4	
	(2008)		births from 186 studied in preg.; In full sample: 64% Latina, 17% Cauc., 13% AfrAm.	3rd trim., 4 mos pp	4 mos pp	educ., state anxiety at 4 mos pp	mos pp w/ sx	
151	Ngai & Chan	CS	181 married, Chinese, first-time	Soc. supp., LEs impact	EPDS sx	Maternal role compe-	In path analysis, soc. supp. and LEs im-	
	(2011)		mothers from Hong Kong; Excl.: <18 yrs, psychiatr. hx	6 wks pp	6 wks pp	tence and satisfaction, resourcefulness and	pact directly w/ sx; soc. supp. mediated events - depr. association	
			Note: Secondary analysis of intervention study			intervention in final path model	events - depr. association	

152	Nunes & Phipps (2013)	CS	6,959 adolescent and adult mothers from the US; 10% 15-19 yrs, 20% 20-24 yrs, 25% 25-29 yrs, 45% >30 yrs; Ethn. varied by age group, >40% White, >27% Hisp., >6% Black in all groups; Excl.: prenatal depr.	LEs, chronic stressors, soc. supp. 21 days-10 mos pp (M=4 mos pp)	Modified version of the PHQ-2 >5	All: Prior depr., mental health in preg., maternal race, preg. intention, husband/ partner did not want preg. in final model; Adolescent model: Prior depr. in final model	For all respondents: Stressors (argued more than usual, total stressors in preg.) and soc. supp. (help w/ baby care, someone to talk to about problems) w/ PPD in final model; Among adolescents: Stressors (argue more than usual), soc. supp. (help w/ money, w/ baby care, someone to talk to) w/ PPD in final model
153	Ogbonnaya et al. (2013)	LG	76 low-income US women, w/o current or prior severe mental ill-	Physical IPV	CES-D sx	IPV and PPD at previ-	IPV w/ more sx at all times; Women w/ IPV had higher levels, but similar patterns
	al. (2013)		ness; 53% AfrAm., 47% White	6-7 mos' GA; 1, 6, 12 mos pp	1, 6, 12 mos pp	ous time points	over time
154	Oppo et al. (2009)	LG	1,066 mostly married preg. women from Italy (n=600 at last assess-	Relationship status, soc. supp., marital satisfaction, LEs	EPDS ≥13, confirmed w/ SCID dx (DSM-IV)	Prior depr./ anxiety, preg. depr./ anxiety, low	Univar.: low soc. supp. (all times), low marital satisfaction (1 mo pp), more LEs
	(2007)		ment)	3, 8 mos' GA; 1 mo pp	Any of 3 assessments	SES, self-esteem, preg.	(8 mos' GA, 1 mo pp), childcare stress (1
				Childcare stress, infant temperament 1 mo pp	(1,3,6 mos pp)	intent, pp blues (sepa- rate models for each predictor time point)	mo pp), difficult infant temperament sig.; Multivar.: At 3 mos' GA, all n.s. At 8 mos' GA, low soc. supp. sig.; at 1 mo pp, low soc. supp., childcare stress sig.
155	Page & Wilhelm (2007)	CS ^b	51 US mothers, married or w/ partner, large majority well educ.; 71% Cauc., 21% Hisp., 4% Asian	Arguments w/ family,others; Partner supp., relationship depth; daily demands from home,	CES-D sx divided into 3 groups (scores of 0-15, 16-23, 24-60)	Antenatal depr. sx	Univar.: Family arguments, partner supp., relationship depth w/ sx; Partner supp. differentiated low/middle sx groups; Fam-
			, 1,	work and others 6 wks pp	6 wks pp		ily arguments, relationship supp., relationship depth, demands from home differentiated low/high groups; Multivar.: Family arguments, relationship depth sig.
156	Perren et al.	CS^b	74 first-time mothers in Switzer-	Parental stress in 12 life domains;	EPDS sx	-	Parental stress w/ sx at all measurement
	(2005)		land; 74% married	Child difficulty 2nd trim. (stress), and 1, 3, 12 mos pp	1, 3, 12 mos pp		points; Child difficulty n.s.
157	Phillips et al. (2010)	CS	157 English-speaking Australian	Soc. supp., attachment, infant difficulties, LEs	SCID (DSM-IV; current or past dx; recur-	Depr. hx, anxiety, vulnerable personality,	Univar.: Lower soc. supp., LEs, attachment anxiety and attachment avoidance
	(2010)		mothers in a brief residential treat- ment program for early parenting	M=5 mos pp	rent, de novo, past only,	style, maternal-specific	w/ sx; Higher soc. supp. in those never
			difficulties, w/ infant >2 wks and <12 mos and no sig. intellectual disabilities		never depr.); EPDS sx M=5 mos pp	and general neg. atti- tudes	depr. vs. recurrent depr.; Higher attachment anxiety in all depr. groups vs. never depr.; Avoidance higher in past and recurrent depr. vs. never depr.; Multivar.: n.s.
158	Qu et al. (2012)	CS	317 mothers from China, most married w/ high school educ. or lower, about half farm workers; 96.5% Han ethn.	Earthquake exposure (8.0 magnitude) during preg. assessed w/ 13 item author-constructed scale (e.g., injury to self, saw injury or death, loss of income)	little or no sx <16, mild sx 16-20, moderate sx 21-25, severe sx \geq 26	d employment, marital	Univar. and multivar.: High earthquake experience w/ PPD
				1 wk pp	1 wk pp		
159	Quelopana et	CS	163 Chilean mothers, w/ singleton	Living w/ partner, soc. supp.	PPDS >59	"Socio-demographic	Univar.: Depr. women reported less soc.
	al. (2011)		0.11		>2wks pp	factors", age, feeling unhappy about last preg., smoking, breast- feeding	supp. (significance not given); Multivar.: Lack of childcare or emot. supp. sig.

160	Radesky et al. (2013)	LG	587 US mothers in educational randomized controlled trial; 73% White, Excl.: birth <34 wks' GA, serious infant medical conditions	Daily diary reports of infant dis- tress (fussing, crying, or inconsol- able crying) 5-6 wks pp	EPDS >10 8 wks pp	EPDS at 5–6 wks pp, infant gender, GA, maternal age, parity, marital status, educ., income, race, breastfeeding, employment	Increased odds of PPD in mothers of infants w/ colic and mothers who recorded >20 mins/day of inconsolable crying
161	Ramchandani et al. (2009)	LG	1,035 mothers of singleton children born within a 7-wk period in 1990 in urban South Africa	Soc. supp., partner supp., child- hood physical abuse, early parent and sibling relationships, stress- ful events during preg. (marital, family, economic, societal) Antenatal assessment, exact timing unspecified	Pitt's Depression Inventory sx and >19 6 mos pp	Maternal educ., child-hood happiness, current mood (3 variables)	Univar.: Low supp. from parents/friends or partner, partner difficulties, poor early parent or sibling relationships, childhood abuse, all stressful events (including relationship stress) w/ PPD; Multivar.: Partner difficulties and exposure to extreme societal stressors w/ PPD and sx
162	Records & Rice (2005)	LG	50 mothers able to speak/read English, w/ healthy, full-term infant and no dx of depr.	Hx of or current physical or sexual abuse 1 wk pp	CES-D sx 1 wk pp EPDS sx 1, 2, 3, 4 mos pp	Depr. sx at 1wk pp	Univar.: Abuse experience w/ sx at 1 wk; 2, 3 mos pp; Multivar.: n.s. contr. for sx at 1 wk pp
163	Records & Rice (2009)	LG	96 English-speaking, mostly married preg. women w/ first births; Majority Cauc.	Partner violence 3rd trim.; 2,4,6,8 mos pp Lifetime abuse 3rd trim.	EPDS sx and >11, CES-D sx and >15 2, 4, 6 (EPDS), 8 mos pp (EPDS, CES-D)	Self-esteem, prenatal anxiety/ depr., hx of depr., preg. intent, soc. supp., marital status, marital satisfaction, life stress	Lifetime abuse predictive such that risk increases from 2 to 6 mos pp; Minimal current partner violence reported
164	Rich-Edwards et al. (2006)	CS ^b	1,278 mothers from the US, 18% foreign-born; 76% White, 9% Black, 6% Asian, 5% Hisp.	Partner status, emot. and material supp. from partner and family/friends, financial hardship 6 mos pp	EPDS >12 6 mos pp	Age, race/ethn., immigrant status, parity, birth weight, income, preg. intent	Family and partner supp., financial hardship pp w/ lower PPD
165	Ritter et al. (2000)	LG	191 low-income, inner-city preg. women from the US; 73% EurAm., 27% AfrAm.	Soc. supp. satisfaction, SLEs ≤24 wks' GA, 7-9 wks before expected delivery; values aggregated	Latent construct of modified BDI, RDC interviewer-rated depr. severity and 1-item dysphoric mood 7-9 wks pp	Self-esteem, ethn., family income and pre- natal depr. also in LIS- REL model	More supp. satisfaction and more SLEs w/ sx, after contr. for prenatal depr.; No evidence for stress-buffering interactions
166	Rodríguez et al. (2010); Valentine et al. (2011)	LG	210 English- or Spanish-speaking preg. Latina women from the US, 44% exposed to IPV	Partner status, lifetime IPV, non-IPV trauma hx, soc. supp. Perc. stress (analyses not available for "any PPD" analyses) >12 wks' GA	BDI fast screen, sx and >3; Persistent PPD: Above cutoff at >2 out of 4 time pts (i.e., including one assessment in preg.); Any PPD: above threshold at any time 3, 7, 12-13 mos pp	For PPD at each time point and persistent PPD: Mastery, avoidant coping, language For "any PPD": prenatal depr.	Univar.: Each time point and persistent depr. w/ exposure to IPV; Any PPD w/ recent IPV, non-IPV trauma and low soc. supp.; Multivar.: Persistent depr. w/ IPV exposure, lower soc. supp. and higher perc. stress; Any PPD w/ recent IPV

167	Rogers et al. (2013)	CS	73 mothers in the US w/ very preterm infants (<30 wks' GA); Half AfrAm. and Cauc.; Excl.: severe newborn health problems	Soc. supp., LEs, parental role alteration, marital status	EPDS sx Timing unclear	Age, race, educ., hx of depr. or anxiety, smok- ing, infant factors (# of days of ventilation, length of hospital stay, extent of brain injury)	Being married and parental role alteration w/ more sx
168	Rubertsson et al. (2005)	LG	2,430 preg. women from registered antenatal health clinics in Sweden, large majority at least high school educ.	Marital status, SLEs in the yr prior to preg. M=16 wks' GA	EPDS >11, categorized as always (including 16 wks' GA), vs. never above cutoff 2, 12 mos pp	≥3 children, Swedish not native language, elementary school educ., unemployed, small city as residential area, chronic illness	Univar.: Single relationship status, two or more LEs in yr before preg. w/ sx; Multivar.: ≥2 LEs w/ sx
169	Satoh et al. (2009)	CS	169 mothers from Japan	Worries about baby care, partner relationship ("cooperation"), family structure (nuclear vs. extended), sociability (network access/ supp.) 4 mos pp	EPDS sx 4 mos pp	General health prob- lems, # of children, problems during preg. hospital stay	Univar. and multivar.: Higher worries about baby care, poor partner relationship, and low sociability w/ sx
170	Schachman & Lindsay (2013)	CS	71 US mothers married to active- duty military members; 82% Cauc., 10% Hisp.; Excl.: <18 yrs, mother on active duty, serious infant health condition	LEs in past year, soc. supp. 6-9 wks pp	PPDS (Short Form) >14 6-9 wks pp	-	Univar.: Greater family changes and strains, shorter duration of marriage, and lower soc. supp. w/ PPD
171	Secco et al. (2007)	LG	78 healthy adolescent preg. women from Canada, w/ term births, mean age 16.79; 48% Cauc., 41% Metis/First Nations	Perc. family/friend supp. 3rd trim. Enacted supp. 4 wks pp	BDI-II sx 4 wks pp	SES, child rearing competence	Univar.: Perc. but not enacted family supp. w/ lower sx; Multivar.: n.s.
172	Segre et al. (2007)	CS	4,332 US mothers in close relationships for ≥6 mos	Marital status M=4.6 mos pp	Inventory to Diagnose Depression M=4.6 mos pp	Income, occupational prestige, educ., age, race, Hisp. ethn., # of children	Univar. and multivar.: Being unmarried w/ PPD
173	Seimyr et al. (2013)	LG	232 preg. women in Sweden (195 completed questionnaires at 10-12 wks pp); 98% White	Marital status, length of relation- ship 4-6 wks pp	BDI, EPDS and PPDS sx 4-6, 10-12 wks pp	Age, length of educ., unemployment, person- al, family hx of mental disorder/ depr.	Shorter length of relationship w/ EPDS at 4-6 pp only; not w/ BDI or PPDS sx at 4-6 wks or 10-12 wks pp
174	Seng et al. (2013)	LG	their first child, assigned to 3 co- horts based on hx of childhood maltreatment and PTSD screening criteria (319 PTSD pos., 380 trau- ma- exposed, no PTSD dx, 350 not-exposed); 57% EurAm., 30% AfrAm., 9% Asian or Pacific Islander, 6% Latina	Childhood trauma history <28 wks gestation	PPDS (sx and scores >80) 6 wks pp	Preexisting mental health diagnoses, quali- ty of life in late preg., and peritraumatic disso- ciation in labor	Univar.: Hx of maltreatment w/ sx but not w/ PPD; Multivar.: Hx of maltreatment n.s. contr. for pre-existing PTSD and depr.

175	Serhan et al. (2013)	CS	110 new mothers in Turkey	Difficulty in baby care, anxiety about motherhood, partner relationship quality, supp. for baby care 2-6 mos pp	EPDS >13 2-6 mos pp	Feeling "enough" in baby care	Univar.: Difficulty in baby care, anxiety about motherhood, "medium or bad" relationship w/ spouse, lack of supp. for baby care w/ sx; Multivar.: Anxiety about motherhood w/ PPD
176	Sheng et al. (2010)	LG	62 low-income, immigrant and US- born preg. Latinas, Spanish- or English-speaking w/o current maj. depr. episode, psychosis, serious medical problems or substance abuse, divided into high or low risk for PPD based on sx or hx of depr.	Perc. supp. satisfaction from partner and parents 12-39 (M=27) wks' GA, 1 mo pp	CES-D sx 1 mo pp	Prenatal depr., hx of depr.	Univar.: High-risk women less satisfied w/ partner supp. in preg. and pp, and w/ family and "others" supp. pp; Multivar.: Higher satisfaction w/ baby's father's supp. pp (but not prenatal) w/ lower sx
177	Silverman & Loudon (2010)	LG	510 US preg. women, 41% low educ.; 58% Hisp., 32% AfrAm.	Physical or sexual abuse (hx), exposure to family violence (cur- rent and historical), psychosoc. stress	EPDS <4 vs. >8 and >11 6 wks pp	Hx of and acute psychiatr. illness	Hx of physical or sexual abuse w/ elevated sx; Women reporting ≥3 psychosoc. stressors at first prenatal visit more likely to develop PPD
178	Simpson et al. (2003)	LG	106 married US couples w/ first birth in transition to parenthood	Attachment style (anxious, ambivalent); available partner supp., partner anger towards mother 6 wks prior to due date	CES-D sx 6 mos pp	Prenatal depr. sx, neuroticism, marital satisfaction	Ambivalent attachment, spousal anger w/ increases in sx; Interactions: High anger x high ambivalence w/ sx; High ambivalence x low supp. w/ sx; Declines in perceptions of spousal supp. mediated both interactions
179	Siu et al. (2012)	LG	805 preg. women from China	Antenatal SLEs; child care stress; marital status; relationship satisfaction w/ baby's father, parents, mother-in-law 3rd trim. peiyue supp. (female assistant post delivery) 2 mo pp	EPDS, dx confirmed by SCID (DSM-IV) 2 mos pp	Antenatal depr., anxiety-prone personality	Univar.: Antenatal SLEs, childcare stress, poor partner and in-law relationships, umarried status, and peiyue supp. w/ PPD; Multivar.: Dissatisfaction w/ marital and mother-in-law relationship w/ PPD
180	Söderquist et al. (2009)	LG	1,224 preg. women w/o obstetric complic. from Sweden	Perc. soc. supp. 32 wks' GA	BDI >8 1 mo pp	Multiparity (all), low stress coping, prenatal depr., high trait anxiety (soc. supp. only), fear of birth, "pretraumatic stress"	Perc. soc. supp. n.s.
181	Stock et al. (2013)	CS	200 mothers who brought their infants to the emergency department of a hospital in Australia; Excl.: Mothers of infants w/ timecritical conditions	Relationship status, crying baby (as presenting problem or discharge dx) 2 wks-6 mos pp (M=3.6 mos pp)	EPDS>12 2 wks to 6 mos pp (M=3.6 mos pp)	-	Single relationship parent status and 'crying baby' as the presenting problem w/ PPD

182	Surkan et al. (2006)	CS	415 low/ middle income Englishor Spanish-speaking urban US mothers w/ singleton birth, no maj. disability, mental illness, meds, or serious infant problems; 41% Latina, 40% White, 19% AfrAm.	Soc. supp. available, supp. networks (# of close friends and family, coded 0-1 vs. 2+) Cohorts of 6 wks-6 mos pp, 6-12 mos pp	CES-D sx Cohorts of 6 wks-6 mos pp, 6-12 mos pp	Race/ethn., age, educ., income, # of children	Low soc. supp., few close relationships w/PPD in univar. and multivar. models; Supp. variables mediate effect of discrimination on PPD
183	Tanner Stapleton et al. (2012)	LG	272 adult US preg. women; 53% White, 21% Latina, 11% AfrAm., 10% Asian American	Adult attachment, relationship satisfaction 18-20 wks' GA Partner supp. effectiveness	CES-D sx 6-8 wks pp	Prenatal depr., anxiety sx	Univar.: attachment, relationship satisfaction, partner supp. w/ fewer sx; Multivar.: Less effective partner supp. w/ more sx; Partner supp. mediated effects of attachment and relationship satisfaction
				2nd-3rd trim.			
184	Thome (2000)	CS	734 new mothers randomly sam-	Parenting stress, infant difficulty	EPDS >8 and sx	Marital status, maternal	Univar.: Above cutoff w/ more difficult
			pled from national registry in Iceland	2-3 mos pp	2-3 mos pp	educ.	infants and infant health worries; Parental stress w/ sx; Multivar.: Parental stress, infant health worries w/ sx
185	Trabold et al. (2013)	LG	71 socio-economically diverse US women that received (but not currently receive) soc. work services (retrospective chart review); 49% Black, 27% Latina, 9% White	IPV (current, history, or none; mild, moderate, or severe) Preg. (varied), 4-6 wks pp	er-indicated sx (based on DSM-IV) or depr. treatment post-delivery 4-6 wks pp	-	Cross-case analysis: 61% of cases w/ IPV also had PPD; more severe violence w/ more severe PPD; Prenatal depr. typically preceded PPD
186	Trotter et al. (2004)	LG	200 English-speaking US preg. women, low income, 47% w/ low educ., and in relationship ≥6 wks; 65% White, 25% AfrAm., 5% Hisp.	IPV (psychol., physical abuse), emot. supp. 3rd trim.	BDI sx 2-3 mos pp	Prenatal depr. (in mediation model)	Univar.: Psychol. and physical abuse w/ PPD; Mediation: effect of psychol. abuse mediated by prenatal depr.; Moderation: At higher levels of abuse, women w/ more supp. had fewer sx
187	Urquia et al. (2013)	CS	6,375 Canadian mothers of livebirth singletons	Marital x cohabitation status (4 categories), cohabitation duration (<3, 3-5, >5 years) 5-9 mos pp	EPDS >12 5-9 mos pp	Model 1: -; Model 2: Age, parity, educ., household income, for- eign-born, ethnic or cultural identity; Model 3: Above, plus self and partner preg. wanted- ness; Model 4: Above, excl. prenatal depr.	Model 1: Higher PPD odds for non-cohabiting compared to married/ cohabiting women; Model 2: Higher odds for divorced/ separated compared to married/ cohabiting women; Models 3, 4: n.s.; Cohabiting 0-2 yrs w/ higher PPD odds compared to >5 years
188	Venkatesh et al. (2013)	LG	106 preg. US adolescents enrolled in a prevention randomized con- trolled trial; 53% Latina, 17% Black, 16% White; Excl.: receiving mental health care, affective disor- der, substance use or anxiety disor- der, psychosis	Parenting Stress 6 wks; 3, 6 mos pp	SCID for DSM-IV Childhood Diagnoses 6 wks, 3, 6 mos pp	Study arm, age, place of birth, hx of depr., # of study visits	High levels of parenting stress w/ subsequent PPD
189	Vigod et al. (2013)	CS	6,126 mothers from a population- based study in Canada	Life stressors in last 2 years, interpersonal abuse, soc. supp. Timing unspecified ("mothers having recently given birth")	EPDS >12 Timing unspecified ("mothers having re- cently given birth")	Population area size, parity, country of origin, household in- come, hx of depr., ma- ternal health	Life stressors, interpersonal abuse, and low soc. supp. w/ PPD

190	Whisman et al. (2011)	LG	113 married or cohabiting preg. women w/ prior depr. episode (DSM-IV); Excl.: maj. medical risk, active suicidality, pos. tox. screen, or met criteria for substance use or other maj. mental disorder; 69% AfrAm., 31% EurAm.	Partner relationship adjustment Monthly from first assessment (at 6-27 wks' GA) until 6 mos pp	BDI-II sx Monthly from first as- sessment (at 6-27 wks' GA until 6 mos pp	Linear change in BDI sx	Relationship adjustment predicted cross- sectionally, but n.s. in cross-lagged anal- yses; Evidence suggested reversed direc- tionality (depr. sx predicted changes in relationship adjustment)
191	Wilkinson & Mulcahy (2010)	CS	115 Australian mothers (n=47 likely, n=68 unlikely to be depr.) w/infants <1 yr, w/o obvious self/infant harm risk, current substance abuse, serious personality disorder, 85% native Australian	Adult attachment style, mother- infant attachment, soc. supp., marital functioning M=7 mos pp	EPDS sx and >12 (dx confirmed by clinical interview) M=7 mos pp	-	Less secure, more preoccupied, fearful attachment, less soc. supp., lower marital quality, poorer attachment to infant w/ dx; sx w/ fearful and preoccupied attachment
192	Xie et al.	LG	534 mostly well-educ. Chinese	Infant sex x soc. supp. interaction	EPDS >12	Socio-demographic,	Female infant w/ PPD; Effect partially mediated by reduction in pp (not prenatal) perc. and received supp.
	(2009)		preg. women	30-32 wks' GA, 2 wks pp	2 wks pp	obstetric variables	
193	Yehia et al.	CS	300 Arabic Muslim Jordanian	Perc. soc. supp.	EPDS sx	Income, preg. intendedness, birth method, PTSD sx	Univar. & multivar.: Lower soc. supp. w/ higher sx
	(2013)		mothers serving in the military w/o hx of PPD, cognitive impairment, or maternal/ infant complic.	Within 1 yr pp			
194	Yonkers et al. (2001)	LG	802 inner-city, mostly low-educ. US mothers; 75% Hisp., 20% Afr Am.	Living w/ partner, living w/ parents, living w/ extended family 3 wks pp	Inventory of Depressive Symptomatology >17 or EPDS >11	-	Persistent sx at 4 wks pp w/ living w/ partner (protective); Persistent sx at 4-5 wks pp w/ living at home w/ extended family (risk); Living w/ spouse risk factor for pp onset maj. depr.
				З жорр	3 wks pp, repeated at 4 wks if screened high, and confirmed dx w/ SCID at 4-5 wks if again screened high		
195	Zaers et al.	LG	60 preg. women attending child-	Critical LEs	EPDS sx	State, trait anxiety; so-	Greater # of critical LEs in past yr w/ sx (not in past 6 mos and not as block variable)
	(2008)		birth classes in Germany	First few days after delivery	6 wks, 6 mos pp	matic, soc., depr. sx, delivery experience in final model	
196	Zayas et al. (2003)	LG	49 preg. US Latina women; Mostly of Puerto Rican and Dominican descent	Functional soc. supp. (emot. + aid), LEs 3rd trim.	BDI-II sx	Prenatal BDI, educ.	More LEs w/ sx across time; Supp. n.s., no evidence of stress x supp. interaction
					2-3 wks, 3 mos pp, and change over time		
197		LG		Soc. supp. (need, satisfaction, net-	EPDS ≥12 and sx	Prenatal mood, prenatal	Univar.: Lower pp relationship satisfac-
	al. (2008)		speaking preg. women who immigrated to Canada as adults, most high school educ.; Excl.: born in US or Canada	work size), relationship satisfac- tion, premigration stress Preg. (unspecified), 2 mos pp	2 mos pp and change in status from preg. to pp	anxiety, somatic sx (prenatal model)	tion, higher prenatal need for supp. w/ caseness and sx; Premigration stress higher in women w/ PPD compared to never depr.; Multivar.: Lower prenatal relationship satisfaction w/ more sx; Women whose sx remitted from preg. to pp showed improvement in relationship quality, vs. continued decline for those w/ persistent depr.

198	Zelkowitz & Milet (2001)	CS	98 Canadian mothers (n=48, EPDS ≥10 at 2 mos pp and met criteria for current DSM-III-R Axis I disorder; 50 control women w/o dx)	SLEs in past 12 mos 6 mos pp	Remission of psychiatr. dx; SC90R depr. subscale	-	Mothers in remission reported more SLEs than controls or mothers who were still symptomatic; More SLEs w/ sx
			·		6 mos pp		
			ON BIOLOGICAL AND PSYCHOSO				
199	Cheng & Pickler (2010)	CS ^b	41 preg. US women (n=21 pp); Mostly AfrAm.	Biological: Cortisol in saliva Psychosoc.: Perc. stress 0 and 30 min after waking (cortisol), ≥36 wks' GA, 4-6 wks pp	20-item CES-D sx and >16 4-6 wks pp	-	No sig. associations
200	Comasco et al. (2011a)	LG	219 mothers w/ healthy infants from population-based cohort in Sweden; Excl.: intrauterine demise, NICU admission Subsample of Studies 42, 203	Biolog.: 5-HTT (5-HTTLPR), BDNF (Val ⁶⁶ Met), PER2 (SNP 10870) Psychosoc.: LEs in past 6 mos, maternity stressors (lack of breastfeeding, adequate sleep, partner supp.) 5 days pp	EPDS sx and >11 (>12 and >9 also tested) 6 wks, 6 mos pp	Season of delivery	PPD at 6 wks pp w/ LEs in overall sample; w/ LEs and maternity stressors among spring/ summer deliveries; w/ BDNF (Met allele) and maternity stressors among autumn/ winter deliveries, n.s. at 6 mos pp
201	Comasco et al. (2011b)	LG	275 mothers w/ healthy infants from population-based cohort in Sweden; Excl.: intrauterine demise, NICU admission Sample overlaps w/ Studies 42, 202	Biolog.: 5-HTT (5-HTTLPR), COMT (Val ¹⁵⁸ Met), MAO-A (uVNTR) Psychosoc.: LEs in past yr, mater- nity stressors (lack of breastfeed- ing, lack of adequate sleep, lack of supp. from partner) 5 days pp	EPDS sx and >11 (>12 and >9 also tested) 6 wks, 6 mos pp	Previous psychiatr. contact	Univar.: COMT (Met), MAO-A (low activity carriers), # of LEs, maternity stressors w/ risk (categorical, continuous) at 6 wks pp; Multivar.: In MAO-A low activity carriers, only COMT (Met) w/ PPD; 5HTT short allele only sig. w/ COMT (Met); COMT and MAOA w/ sx in women w/ stressors; In women w/ previous psychiatr. contact stressors w/ PPD, in women w/o COMT, 5HTT w/ PPD
202	Corwin et al. (2005)	LG	42 healthy, preg. US women, 21% w/ personal, 35% w/ family hx of depr., 84% breastfeeding at 28 days pp; 98% White; Excl.: Most meds, C-sections, vaginal birth w/ hemorrhage, PTB, multiple birth, infant not healthy, in hospital for >48 hrs	Biolog.: Cortisol in saliva Psychosoc.: Perc. Stress 9-10am (cortisol), 36-38 wks' GA; 7,14,28 days pp	CES-D >10 7,14,28 days pp	-	Prenatal stress w/ PPD sx at 14 and 28 days; pp stress at each time w/ PPD sx at each time; Repeated measures ANOVA n.s.
203	Figueira et al. (2010)	CS	227 mothers from Brazil	Biolog.: BDNF (Val ⁶⁶ Met) Psychosoc.: LEs during preg. recalled retrospectively 8 wks pp	EPDS >12 and dx w/ MINI PLUS 5.0 (DSM- IV) 8 wks pp	-	Univar.: Greater # of stressor events w/ PPD; Multivar.: No sig. associations

204	Groer & Morgan (2007)	CS	199 US mothers, 101 exclusive or nearly exclusive breastfeeders, 98 formula feeders Sample overlaps w/ Studies 16, 17	Biolog.: Cortisol in saliva, serum; prolactin in serum; IFN-γ, IL-10, IL-6 in serum, ex vivo culture supernatant Psychosoc.: Perc. stress, small LEs Saliva early morning, serum 8-11am, 4-6 wks pp	POMS-D >20 (reflecting highest decile) 4-6 wks pp	-	Cases had lower salivary (but not serum) cortisol levels, lower prolactin levels, lower serum IFN- γ levels, a lower IFN- γ /IL-10 ratio in serum and whole blood culture, higher perc. stress and more neg. small LEs
205	Hahn- Holbrook et al. (2013)	LG	210 US women w/ singleton preg.; 77% married or cohabiting w/ baby's father; 37% Latina/Hisp., 29% non-Hisp. White, 28% AfrAm./Black, 4% Asian/Pacific Islander; Excl.: multiple birth, ≥20 wks' GA at recruitment	Biolog.: CRH in plasma Psychosoc.: Perc. soc. supp. from partner and family 19, 29, 37 wks' GA (psychosoc. variables at 29 wks' GA)	BDI sx, and >9, >18 8 wks pp	Age, income, educ., marital status, ethn., depr. in preg., preterm delivery, smoking in preg., parity	Simple comparisons: Higher CRH at 37 wks' GA, lower family supp. w/ sx; Multivar.: Accelerated CRH from 29-37 wks' GA, higher levels at 37 wks' GA w/ PPD; Family supp. affects PPD via CRH changes from 29-37 wks' GA
206	Ingram et al. (2003)	LG	54 preg. women of mixed parity w/singleton infant and intention to breastfeed from the UK, 83% breastfed at 6 mos pp, homogeneous for SES and educ. background; Excl.: disease affecting lactation or hormone secretion	Biolog.: Total estradiol, total progesterone, prolactin, TSH in blood Psychosoc.: Number of LEs 36 wks' GA; 12-48 hrs pp; 1, 4 wks pp for biolog., 6 mos pp for psychosoc. variables	EPDS >9 6 mos pp	Parity, pacifier use, time spent feeding at 1 mo pp in final model	Bivariate comparisons: Cases had lower antenatal prolactin and lower progester- one at 12-24 hrs pp; Multiple logistic regression: Cases had lower progesterone at 12-24 hrs, contr. for LEs
207	Kuijpens et al. (2001)	CS ^b	291 preg. women from the Netherlands; Excl.: thyroid meds, new preg. by 6 mos pp	Biolog.: FT4, TSH, TPOAb in blood; Thyroid dysfunction scores: abnormal T4 and/ or TSH; (unique effects of T4 and TSH not reported) Psychosoc.: Maj. LEs 12,32 wks' GA; 4,12,20,28,36 wks pp	RDC 4,12,20,28,36 wks pp	Educ., age, parity, smoking, alcohol, pre- vious depr., preg. and labor complic., breast- feeding	TPOAb+ predictive at 4 and 12 wks pp, LEs w/ sx at each time point
208	Mehta et al. (2012)	LG	419 preg. women from Germany; 100% Cauc.	Biolog.: 5-HTT (5-HTTLPR) Psychosoc.: SLEs at any time (death, accidents, illness, sexual abuse), partner relationship satisfaction 3rd trim.	EPDS sx 48-72 hrs pp, 6-8 mos pp	Gravidity	SLEs w/ sx at both times, partner satisfaction w/ fewer sx at 6-8 mos; 5-HTTLPR short allele carriers w/ ≥1 adverse LE or w/ low partner satisfaction w/ higher depr. scores at 6-8 mos pp
209	Nierop et al. (2006)	LG	57 healthy nulliparous women w/ singleton preg. from Switzerland; Excl.: psychiatr. disorders, alcohol, smoking, low educ., meds, artificial insemination, maternal or fetal complic.	Biolog.: Cortisol response to psy- chosoc. laboratory stressor Psychosoc.: Mood response to same stressor; stress susceptibility Before and until 1 hour after stressor, in afternoon; 13-31 wks' GA	EPDS >9 2-27 days pp	GA	Higher cortisol responses, more pro- nounced decreases in mood and higher stress susceptibility in women w/ later PPD

210 Pinheiro et al. CS	207 pp Brazilian women; 63% ≤8	Biolog.: 5-HTT (5-HTTLPR)	EPDS >12, dx w/ MINI	Age, family income,	Univar.: 2 or more LEs w/ greater likeli-
(2013)	yrs of school, 86% live w/ partner,	Psychosoc · LEs	45-90 days pp	smoking, alcohol, hx of	hood of PPD; Multivar.: More PPD in
	30% smoking, 8% maj. depr. hx	<u> </u>	ie yo aayo pp	maj. depr.	long allele carriers w/ LEs during preg.

Note. Ab=antibody; ACTH=Adrenocorticotropic hormone; Afr.-Am.=African American; BDI=Beck Depression Inventory; biolog.=biological; BMI=body mass index; Cauc.=Caucasian; CES-D= Center for Epidemiologic Studies Depression Scale; CIDI=Composite International Diagnostic Interview; complic.=complication; contr. = controlling; CRH=Corticotropin-releasing hormone; CRP=C-reactive protein; CS=Cross-Sectional; CSF=Cerebrospinal fluid; depr.=depressed/ depressive/ depression; DHEA=Dehydroepiandrosterone; DISC=Diagnostic Interview Schedule for Children; DSM=Diagnostic and Statistical Manual of Mental Disorders; dx=diagnosis; educ.=education/ educated; emot.=emotional; EPDS=Edinburgh Postnatal Depression Scale; ethn.=ethnicity; Eur.-Am.=European-American; Excl.=Exclusion; fT3=free triiodothyronine; fT4=free thyroxine; GA=gestational age; GRH=Gonadotropin Releasing Hormone; HAM-D=Hamilton Depression Rating Scale; Hisp.=Hispanic; hr(s)= hour(s); HTT=serotonin transporter; hx=history; Incl.=Inclusion; IL=interleukin; IFN=interferon; IPV=Intimate Partner Violence; IVF=in vitro fertilization; LE=life event; LG=longitudinal; MADRS =Montgomery-Åsberg Depression Rating Scale; McAb=Microsomal antibody; med(s)=medication(s); MINI=Mini International Neuropsychiatric Interview; mo(s)=month(s); multivar.=multivariate; neg.=negative; n.s.=not significant; NICU=Neonatal Intensive Care Unit; PBQ=Postpartum Blues Questionnaire; perc.=perceived; POMS-D=Profile of Mood States, Depression Subscale; pos.= positive; preg.=pregnant/ pregnancy; pp=postpartum; PPD=postpartum depression; PPDS=Postpartum Depression Symptoms Rating Scale; PRAMS=Pregnancy Risk Assessment Monitoring System; PSS =Perceived Stress Scale; PTB=preterm birth; psychiatr.=psychiatric; psychol.=psychological; psychosoc.=psychosocial; PTSD=Post-traumatic Stress Disorder; RDC=Research Diagnostic Criteria; SADS=Schedule for Affective Disorders and Schizophrenia; SBS=Stein Blues Scale; SCID=Structured Clinical Interview for DSM; SES=socioeconomic status; sig.=significant; SLE=Stre

^aNumber of participants reflects those included in relevant analyses and may differ from the total number of participants in the original study; ^bRelevant analyses are cross-sectional but the study had a longitudinal design; exclusion criteria are summarized and some specific criteria are not mentioned (e.g., no consent given, lack of language proficiency); ethnicities of groups ≥4% are reported.

Studies included in Systematic Review

- Abbott MW, Williams MM. 2006. Postnatal depressive symptoms among Pacific mothers in Auckland: prevalence and risk factors. *Aust. N. Z. J. Psychiatry* 40:230-38
- Ahmad R, Munaf S. 2006. Nuclear family system as an important risk factor for the development of the baby blues. *Pakistan Journal of Social and Clinical Psychology* 4: 67-74
- Akincigil A, Munch S, Niemczyk K. 2010. Predictors of maternal depression in the first year postpartum: marital status and mediating role of relationship quality. Soc. Work Health Care 49:227-44
- Albacar G, Sans T, Martin-Santos R, Garcia-Esteve L, Guillamat R, et al. 2010. Thyroid function 48h after delivery as a marker for subsequent postpartum depression. *Psychoneuroendocrinology* 35:738-42
- Ali NS, Ali BS, Azam IS. 2009. Post partum anxiety and depression in peri-urban communities of Karachi, Pakistan: a quasi-experimental study. BMC Public Health 9:384
- Alvim-Soares A, Miranda D, Campos SB, Figueira P, Romano-Silva MA, Correa H. 2013. Postpartum depression symptoms associated with Val158Met COMT polymorphism. *Arch. Women's Ment. Health* 16:339-40
- Appolonio KK, Fingerhut R. 2008. Postpartum depression in a military sample. Mil. Med. 173:1085-91
- Binder EB, Newport JD, Zach EB, Smith AK, Deveau TC, et al. 2010. A serotonin transporter gene polymorphism predicts peripartum depressive symptoms in an at-risk psychiatric cohort. *J. Psychiatr. Res.* 44:640-46
- Bjerke SE, Vangen S, Nordhagen R, Ytterdahl T, Magnus P, Stray-Pedersen B. 2008. Postpartum depression among Pakistani women in Norway: prevalence and risk factors. *J. Matern.-Fetal Neonatal Med.* 21:889-94
- Bloch M, Schmidt PJ, Danaceau M, Murphy J, Nieman L, Rubinow DR. 2000. Effects of gonadal steroids in women with a history of postpartum depression. *Am. J. Psychiatry* 157:924-30
- Boufidou F, Lambrinoudaki I, Argeitis J, Zervas IM, Pliatsika P, et al. 2009. CSF and plasma cytokines at delivery and postpartum mood disturbances. *J. Affect. Disord.* 115:287-92
- Boury JM, Larkin KT, Krummel DA. 2004. Factors Related to Postpartum Depressive Symptoms in Low-Income Women. Women's Health 39:19-34
- Boyce PM. 2003. Risk factors for postnatal depression: a review and risk factors in Australian populations. *Arch. Women's Ment. Health* 6(Suppl. 2):S43-50
- Boyce P, Hickey A. 2005. Psychosocial risk factors to major depression after childbirth. Soc. Psychiatry Psychiatr. Epidemiol. 40:605-12
- Britton JR. 2011. Infant temperament and maternal anxiety and depressed mood in the early postpartum period. Women's Health 51:55-71
- Certain HE, Mueller M, Jagodzinski T, Fleming M. 2008. Domestic abuse during the previous year in a sample of postpartum women. *J. Obstet. Gynecol. Neonatal Nurs.* 37:35-41
- Cerulli C, Talbot NL, Tang W, Chaudron LH. 2011. Co-occurring intimate partner violence and mental health diagnoses in perinatal women. *J. Women's Health* 20:1797-803
- Chaaya M, Campbell OM, El Kak F, Shaar D, Harb H, Kaddour A. 2002. Postpartum depression: prevalence and determinants in Lebanon. *Arch. Women's Ment. Health* 5:65-72
- Chatterji P, Markowitz S. 2012. Family leave after childbirth and the mental health of new mothers. J. Ment. Health Policy Econ. 15:61-76
- Chatzicharalampous C, Rizos D, Pliatsika P, Leonardou A, Hasiakos D, et al. 2011. Reproductive hormones and postpartum mood disturbances in Greek women. *Gynecol. Endocrinol.* 27:543—50
- Chen H-H, Hwang F-M, Tai C-J, Chien L-Y. 2013. The interrelationships among acculturation, social support, and postpartum depression symptoms among marriage-based immigrant women in Taiwan: A cohort study. *J. Immigrant Minor. Health* 15:17-23
- Cheng C-Y, Pickler RH. 2009. Effects of stress and social support on postpartum health of Chinese mothers in the United States. *Res. Nurs. Health* 32:582-91
- Cheng C-Y, Pickler RH. 2010. Maternal psychological well-being and salivary cortisol in late pregnancy and early post-partum. *Stress Health: J. Int. Soc. Investig. Stress* 26:215-24
- Chien LY, Tai CJ, Yeh MC. 2012. Domestic decision-making power, social support, and postpartum depression symptoms among immigrant and native women in Taiwan. *Nurs. Res.* 61:103-10
- Choi H, Yamashita T, Wada Y, Kohigashi M, Mizuhara Y, et al. 2013. Predictors for exacerbation/improvement of postpartum depression--a focus on anxiety, the mothers' experiences of being cared for by their parents in childhood and borderline personality: a perspective study in Japan. *J. Affect. Disord.* 150:507-12
- Chung SS, Yoo IY, Joung KH. 2013. Post-partum blues among Korean mothers: A structural equation modelling approach. *Int. J. Ment. Health Nurs.* 22:359-67
- Cohen MM, Schei B, Ansara D, Gallop R, Stuckless N, Stewart DE. 2002. A history of personal violence and postpartum depression: Is there a link? *Arch. Women's Ment. Health* 4:83-92
- Comasco E, Sylvén SM, Papadopoulos FC, Oreland L, Sundström-Poromaa I, Skalkidou A. 2011a. Postpartum depressive symptoms and the BDNF Val66Met functional polymorphism: effect of season of delivery. *Arch. Women's Ment. Health* 14:453-63
- Comasco E, Sylvén SM, Papadopoulos FC, Sundström-Poromaa I, Oreland L, Skalkidou A. 2011b. Postpartum depression symptoms: a case-control study on monoaminergic functional polymorphisms and environmental stressors. *Psychiatr. Genet.* 21:19-28
- Cooklin AR, Canterford L, Strazdins L, Nicholson JM. 2011. Employment conditions and maternal postpartum mental health: results from the Longitudinal Study of Australian Children. *Arch. Women's Ment. Health* 14:217-25
- Corwin EJ, Brownstead J, Barton N, Heckard S, Morin K. 2005. The impact of fatigue on the development of postpartum depression. *J. Obstetr. Gynecol. Neonatal Nurs.* 34:577-86
- Corwin EJ, Johnston N, Pugh L. 2008. Symptoms of postpartum depression associated with elevated levels of interleukin-1 beta during the first month postpartum. *Biol. Res. Nurs.* 10:128—33
- Costas J, Gratacos M, Escaramis G, Martin-Santos R, de Diego Y, et al. 2010. Association study of 44 candidate genes with depressive and anxiety symptoms in post-partum women. *J. Psychiatr. Res.* 44:717-24

- Cryan E, Keogh F, Connolly E, Cody S, Quinlan A, Daly I. 2001. Depression among postnatal women in an urban Irish community. *Ir. J. Psychol. Med.* 18:5-10
- Da Costa D, Larouche J, Dritsa M, Brender W. 2000. Psychosocial correlates of prepartum and postpartum depressed mood. J. Affect. Disord. 59:31-
- Dagher RK, McGovern PM, Alexander BH, Dowd BE, Ukestad LK, McCaffrey DJ. 2009. The psychosocial work environment and maternal postpartum depression. *Int. J. Behav. Med.* 16:339-46
- Dagher RK, McGovern PM, Dowd BE, Lundberg U. 2011. Postpartum depressive symptoms and the combined load of paid and unpaid work: a longitudinal analysis. *Int. Arch. Occup. Environ. Health* 84:735-43
- Dagher RK, Shenassa ED. 2012. Prenatal health behaviors and postpartum depression: is there an association? *Arch. Women's Ment. Health* 15:31-7 Davis L, Edwards H, Mohay H, Wollin J. 2003. The impact of very premature birth on the psychological health of mothers. *Early Hum. Dev.* 73:61-
- Dennis CL. 2004. Can we identify mothers at risk for postpartum depression in the immediate postpartum period using the Edinburgh Postnatal Depression Scale? *J. Affect. Disord.* 78:163-69
- Dennis CL, Letourneau N. 2007. Global and relationship-specific perceptions of support and the development of postpartum depressive symptomatology. Soc. Psychiatry Psychiatr. Epidemiol. 42:389-95
- Dennis CL, Ross LE. 2006a. Depressive symptomatology in the immediate postnatal period: identifying maternal characteristics related to true- and false-positive screening scores. Can. J. Psychiatry 51:265-73
- Dennis CL, Ross LE. 2006b. Women's perceptions of partner support and conflict in the development of postpartum depressive symptoms. *J. Adv. Nurs.* 56:588-99
- Dennis CL, Vigod S. 2013. The relationship between postpartum depression, domestic violence, childhood violence, and substance use: Epidemiologic study of a large community sample. *Violence Against Women* 19:503-17
- des Rivières-Pigeon C, Séguin L, Goulet L, Descarries F. 2001. Unravelling the complexities of the relationship between employment status and postpartum depressive symptomatology. *Women Health* 34:61-79
- Dewing S, Tomlinson M, le Roux IM, Chopra M, Tsai AC. 2013. Food insecurity and its association with co-occurring postnatal depression, hazardous drinking, and suicidality among women in peri-urban South Africa. *J. Affect. Disord.* 150:460-65
- Diaz MA, Le HN, Cooper BA, Muñoz RF. 2007. Interpersonal factors and perinatal depressive symptomatology in a low-income Latina sample. *Cult. Divers. Ethnic Minor. Psychol.* 13:328-36
- Dolbier CL, Rush TE, Sahadeo LS, Shaffer ML, Thorp J. 2013. Relationships of race and socioeconomic status to postpartum depressive symptoms in rural African American and non-Hispanic white women. *Matern. Child Health J.* 17:1277-87
- Doornbos B, Dijck-Brouwer DA, Kema IP, Tanke MA, van Goor SA, et al. 2009. The development of peripartum depressive symptoms is associated with gene polymorphisms of MAOA, 5-HTT and COMT. *Prog. Neuropsychopharmacol. Biol. Psychiatry* 33:1250-54
- Eastwood JG, Kemp LA, Jalaludin BB, Phung HN. 2013. Neighborhood adversity, ethnic diversity, and weak social cohesion and social networks predict high rates of maternal depressive symptoms: a critical realist ecological study in South Western Sydney, Australia. *Int. J. Health Serv.* 43:241-66
- Eberhard-Gran M, Eskild A, Tambs K, Samuelsen SO, Opjordsmoen S. 2002. Depression in postpartum and non-postpartum women: prevalence and risk factors. *Acta Psychiatr. Scand.* 106:426-33
- Ehrlich M, Harville E, Xiong X, Buekens P, Pridjian G, Elkind-Hirsch K. 2010. Loss of resources and hurricane experience as predictors of postpartum depression among women in southern Louisiana. *J. Women's Health* 19:877-84
- Engineer N, Darwin L, Nishigandh D, Ngianga-Bakwin K, Smith SC, Grammatopoulos DK. 2013. Association of glucocorticoid and type 1 corticotropin-releasing hormone receptors gene variants and risk for depression during pregnancy and post-partum. *J. Psychiatr. Res.* 47:1166-73
- Epperson CN, Gueorguieva R, Czarkowski KA, Stiklus S, Sellers E, et al. 2006. Preliminary evidence of reduced occipital GABA concentrations in puerperal women: a 1H-MRS study. *Psychopharmacology (Berl.)* 186:425—33
- Escribà-Agüir V, Artazcoz L. 2011. Gender differences in postpartum depression: a longitudinal cohort study. *J. Epidemiol. Community Health* 65:320-26
- Escribà-Agüir V, Royo-Marqués M, Artazcoz L, Romito P, Ruiz-Pérez I. 2013. Longitudinal study of depression and health status in pregnant women: incidence, course and predictive factors. *Eur. Arch. Psychiatry Clin. Neurosci.* 263:143-51
- Fagan J, Lee Y. 2010. Perceptions and satisfaction with father involvement and adolescent mothers' postpartum depressive symptoms. *J. Youth Adolesc.* 39:1109-21
- Faisal-Cury A, Menezes PR, d'Oliveira AFPL, Schraiber LB, Lopes CS. 2013. Temporal relationship between intimate partner violence and postpartum depression in a sample of low income women. *Matern. Child Health J.* 17:1297-303
- Faisal-Cury A, Tedesco JJ, Kahhale S, Menezes PR, Zugaib M. 2004. Postpartum depression: in relation to life events and patterns of coping. *Arch. Women's Ment. Health* 7:123-31
- Fasching PA, Faschingbauer F, Goecke TW, Engel A, Haberle L, et al. 2012. Genetic variants in the tryptophan hydroxylase 2 gene (*TPH2*) and depression during and after pregnancy. *J. Psychiatr. Res.* 46:1109-17
- Feeney J, Alexander R, Noller P, Hohaus L. 2003. Attachment insecurity, depression, and the transition to parenthood. Pers. Relatsh. 10:475-93
- Figueira P, Malloy-Diniz L, Campos SB, Miranda DM, Romano-Silva MA, et al. 2010. An association study between the Val66Met polymorphism of the BDNF gene and postpartum depression. *Arch. Women's Ment. Health* 13:285-89
- Figueiredo B, Costa R. 2009. Mother's stress, mood and emotional involvement with the infant: 3 months before and 3 months after childbirth. *Arch. Women's Ment. Health* 12:143-53
- Figueiredo B, Pacheco A, Costa R. 2007. Depression during pregnancy and the postpartum period in adolescent and adult Portuguese mothers. *Arch. Women's Ment. Health* 10:103-9
- Forman DN, Videbech P, Hedegaard M, Salvig JD, Secher NJ. 2000. Postpartum depression: identification of women at risk. *BJOG: Int. J. Obstet. Gynaecol.* 107:1210-17

- Gao L-L, Chan SW-C, Mao Q. 2009. Depression, perceived stress, and social support among first-time Chinese mothers and fathers in the postpartum period. *Res. Nurs. Health* 32:50-58
- Gao W, Paterson J, Abbott MW, Carter S, Iusitini L. 2008. Pacific Islands Families Study: Intimate Partner Violence and Postnatal Depression. *J. Immigrant Minor. Health* 12:242-48
- Garabedian MJ, Lain KY, Hansen WF, Garcia LS, Williams CM, Crofford LJ. 2011. Violence against women and postpartum depression. *J. Women's Health* 20:447-53
- Gauthier L, Guay F, Senecal C, Pierce T. 2010. Women's Depressive Symptoms during the Transition to Motherhood: The Role of Competence, Relatedness, and Autonomy. *J. Health Psychol.* 15:1145-56
- Giardinelli L, Innocenti A, Benni L, Stefanini MC, Lino G, et al. 2012. Depression and anxiety in perinatal period: prevalence and risk factors in an Italian sample. *Arch. Women's Ment. Health* 15:21-30
- Glynn LM, Sandman CA. 2014. Evaluation of the association between placental corticotrophin-releasing hormone and postpartum depressive symptoms. *Psychosom. Med.* 76:355-62
- Gold KJ, Spangenberg K, Wobil P, Schwenk TL. 2013. Depression and risk factors for depression among mothers of sick infants in Kumasi, Ghana. *Int. J. Gynecol. Obstetr.* 120:228-31
- Gomez-Beloz A, Williams MA, Sanchez SE, Lam N. 2009. Intimate partner violence and risk for depression among postpartum women in Lima, Peru. Violence Vict. 24:380-98
- Grazioli R, Terry DJ. 2000. The role of cognitive vulnerability and stress in the prediction of postpartum depressive symptomatology. *Br. J. Clin. Psychol.* 39:329-47
- Gremigni P, Mariani L, Marracino V, Tranquilli AL, Turi A. 2011. Partner support and postpartum depressive symptoms. *J. Psychosom. Obstetr. Gynaecol.* 32:135-40
- Groër MW. 2005. Differences between exclusive breastfeeders, formula-feeders, and controls: a study of stress, mood, and endocrine variables. *Biol. Res. Nurs.* 7:106-17
- Groer MW, Davis MW. 2006. Cytokines, infections, stress, and dysphoric moods in breastfeeders and formula feeders. *J. Obstetr. Gynecol. Neonatal Nurs.* 35:599-607
- Groer MW, Morgan K. 2007. Immune, health and endocrine characteristics of depressed postpartum mothers. *Psychoneuroendocrinology* 32:133-39 Groer MW, Vaughan JH. 2013. Positive thyroid peroxidase antibody titer is associated with dysphoric moods during pregnancy and postpartum. *J Obstet Gynecol Neonatal Nurs* 42: E26-32
- Grote NK, Bledsoe SE. 2007. Predicting postpartum depressive symptoms in new mothers: the role of optimism and stress frequency during pregnancy. *Health Soc. Work* 32:107-18
- Grussu P, Quatraro RM. 2009. Prevalence and risk factors for a high level of postnatal depression symptomatology in Italian women: a sample drawn from ante-natal classes. *Eur. Psychiatry* 24:327-33
- Guintivano J, Arad M, Gould TD, Payne JL, Kaminsky ZA. 2014. Antenatal prediction of postpartum depression with blood DNA methylation biomarkers. *Mol. Psychiatry* 19:560-67
- Hagen EH. 2002. Depression as bargaining: The case postpartum. Evol. Hum. Behav. 23:323-36
- Hahn-Holbrook J, Dunkel Schetter C, Chander A, Hobel C. 2013. Placental corticotropin-releasing hormone mediates the association between prenatal social support and postpartum depression. Clin. Psychol. Sci. 1:253-65
- Hamdan A, Tamim H. 2011. Psychosocial risk and protective factors for postpartum depression in the United Arab Emirates. *Arch. Women's Ment. Health* 14:125-33
- Harville EW, Xiong X, Pridjian G, Elkind-Hirsch K, Buekens P. 2009. Postpartum mental health after Hurricane Katrina: a cohort study. *BMC Pregnancy Childbirth* 9:21
- Haslam DM, Pakenham KI, Smith A. 2006. Social support and postpartum depressive symptomatology: The mediating role of maternal self-efficacy. *Infant. Ment. Health J.* 27:276-91
- Hayes BA, Campbell A, Buckby B, Geia LK, Egan ME. 2010. The interface of mental and emotional health and pregnancy in urban indigenous women: Research in progress. *Infant. Ment. Health J.* 31:277-90
- Hergüner S, Annagür A, Çiçek E, Altunhan H, Örs R. 2013. Postpartum depression in mothers of infants with very low birth weight. *Nöropsikiyatri Arşivi/Arch. Neuropsychiatry* 50:30-33
- Hibino Y, Takaki J, Kambayashi Y, Hitomi Y, Sakai A, et al. 2009. Health impact of disaster-related stress on pregnant women living in the affected area of the Noto Peninsula earthquake in Japan. *Psychiatry Clin. Neurosci.* 63:107-15
- Ho CL, Chang LI, Wan KS. 2013. The relationships between postpartum adaptation and postpartum depression symptoms of first pregnancy mothers in Taiwan. *Int. J. Psychiatry Med.* 45:1-13
- Hohlagschwandtner M, Husslein P, Klier C, Ulm B. 2001. Correlation between serum testosterone levels and peripartal mood states. *Acta Obstet. Gynecol. Scand.* 80:326-30
- Honey KL, Bennett P, Morgan M. 2003a. Predicting postnatal depression. J. Affect. Disord. 76:201-10
- Honey KL, Morgan M, Bennett P. 2003b. A stress-coping transactional model of low mood following childbirth. *J. Reprod. Infant Psychol.* 21:129-43
- Horowitz JA, Damato EG, Duffy ME, Solon L. 2005. The relationship of maternal attributes, resources, and perceptions of postpartum experiences to depression. *Res. Nurs. Health* 28:159-71
- Howell EA, Mora PA, Horowitz CR, Leventhal H. 2005. Racial and ethnic differences in factors associated with early postpartum depressive symptoms. *Obstet. Gynecol.* 105:1442-50
- Howell EA, Mora PA, Leventhal H. 2006. Correlates of early postpartum depressive symptoms. Matern. Child Health J. 10:149-57
- Husain N, Cruickshank K, Husain M, Khan S, Tomenson B, Rahman A. 2012. Social stress and depression during pregnancy and in the postnatal period in British Pakistani mothers: a cohort study. *J. Affect. Disord.* 140:268-76
- Husain N, Parveen A, Husain M, Saeed Q, Jafri F, et al. 2011. Prevalence and psychosocial correlates of perinatal depression: A cohort study from urban Pakistan. *Arch. Women's Ment. Health* 14:395-403

- Iles J, Slade P, Spiby H. 2011. Posttraumatic stress symptoms and postpartum depression in couples after childbirth: the role of partner support and attachment. *J. Anxiety Disord.* 25:520-30
- Ingram JC, Greenwood RJ, Woolridge MW. 2003. Hormonal predictors of postnatal depression at 6 months in breastfeeding women. *J. Reprod. Infant Psychol.* 21:61-68
- Ingram JC, Taylor J. 2007. Predictors of postnatal depression: using an antenatal needs assessment discussion tool. *J. Reprod. Infant Psychol.* 25:210-22
- Jolley SN, Elmore S, Barnard KE, Carr DB. 2007. Dysregulation of the hypothalamic-pituitary-adrenal axis in postpartum depression. *Biol. Res. Nurs.* 8:210-22
- Kendall-Tackett KA, Cong Z, Hale TW. 2013. Depression, sleep quality, and maternal well-being in postpartum women with a history of sexual assault: a comparison of breastfeeding, mixed-feeding, and formula-feeding mothers. *Breastfeed. Med.* 8:16-22
- Khabour O, Amarneh B, Bani Hani E, Lataifeh I. 2013. Associations between variations in *TPH1*, *TPH2* and *SLC6A4* genes and postpartum depression: a study in the Jordanian population. *Balkan J. Med. Genet.* 16:41-8
- Kim YK, Hur JW, Kim KH, Oh KS, Shin YC. 2008. Prediction of postpartum depression by sociodemographic, obstetric and psychological factors: a prospective study. *Psychiatry Clin. Neurosci.* 62:331-40
- Kirpinar İ, Gözüm S, Pasinlioğlu T. 2010. Prospective study of postpartum depression in eastern Turkey prevalence, socio-demographic and obstetric correlates, prenatal anxiety and early awareness. *J. Clin. Nurs.* 19:422-31
- Klier CM, Muzik M, Dervic K, Mossaheb N, Benesch T, et al. 2007. The role of estrogen and progesterone in depression after birth. *J. Psychiatr. Res.* 41:273—79
- Kozinszky Z, Dudas RB, Csatordai S, Devosa I, Toth E, et al. 2011. Social dynamics of postpartum depression: a population-based screening in South-Eastern Hungary. Soc. Psychiatry Psychiatr. Epidemiol. 46:413-23
- Kritsotakis G, Vassilaki M, Melaki V, Georgiou V, Philalithis AE, et al. 2013. Social capital in pregnancy and postpartum depressive symptoms: a prospective mother-child cohort study (the Rhea study). *Int. J. Nurs. Stud.* 50:63-72
- Kruse JA, Low LK, Seng JS. 2013. Validation of alternative indicators of social support in perinatal outcomes research using quality of the partner relationship. *J. Adv. Nurs.* 69:1562-73
- Kuijpens JL, Vader HL, Drexhage HA, Wiersinga WM, van Son MJ, Pop VJ. 2001. Thyroid peroxidase antibodies during gestation are a marker for subsequent depression postpartum. Eur. J. Endocrinol. 145:579-84
- Kuo WH, Wilson TE, Holman S, Fuentes-Afflick E, O'Sullivan MJ, Minkoff H. 2004. Depressive symptoms in the immediate postpartum period among Hispanic women in three US cities. *J. Immigr. Health* 6:145-53
- Kuscu MK, Akman I, Karabekiroglu A, Yurdakul Z, Orhan L, et al. 2008. Early adverse emotional response to childbirth in Turkey: The impact of maternal attachment styles and family support. *J. Psychosom. Obstet. Gynecol.* 29:33-38
- LaCoursiere DY, Hirst KP, Barrett-Connor E. 2012. Depression and pregnancy stressors affect the association between abuse and postpartum depression. *Matern. Child Health J.* 16:929-35
- Lambrinoudaki I, Rizos D, Armeni E, Pliatsika P, Leonardou A, et al. 2010. Thyroid function and postpartum mood disturbances in Greek women. *J Affect Disord* 121: 278-82
- Le Donne M, Settineri S, Benvenga S. 2012. Early pospartum alexithymia and risk for depression: relationship with serum thyrotropin, free thyroid hormones and thyroid autoantibodies. *Psychoneuroendocrinology* 37: 519-33
- Lee SH, Liu LC, Kuo PC, Lee MS. 2011. Postpartum depression and correlated factors in women who received in vitro fertilization treatment. *J. Midwifery Women's Health* 56:347-52
- Lee S-Y, Hsu H-C. 2012. Stress and health-related well-being among mothers with a low birth weight infant: The role of sleep. Soc. Sci. Med. 74:958-65
- Lefkowitz DS, Baxt C, Evans JR. 2010. Prevalence and correlates of posttraumatic stress and postpartum depression in parents of infants in the Neonatal Intensive Care Unit (NICU). J. Clin. Psychol. Med. Settings 17:230-7
- Leigh B, Milgrom J. 2008. Risk factors for antenatal depression, postnatal depression and parenting stress. BMC Psychiatry 8:24
- Letourneau N, Watson B, Duffett-Leger L, Hegadoren K, Tryphonopoulos P. 2011. Cortisol patterns of depressed mothers and their infants are related to maternal-infant interactive behaviours. *J. Reprod. Infant Psychol.* 29:439-59
- Leung BM, Kaplan BJ, Field CJ, Tough S, Eliasziw M, et al. 2013. Prenatal micronutrient supplementation and postpartum depressive symptoms in a pregnancy cohort. *BMC Pregnancy Childbirth* 13:2-2
- Leung SS, Martinson IM, Arthur D. 2005. Postpartum depression and related psychosocial variables in Hong Kong Chinese women: findings from a prospective study. *Res. Nurs. Health* 28:27-38
- Light KC, Grewen KM, Amico JA, Boccia M, Brownley KA, Johns JM. 2004. Deficits in plasma oxytocin responses and increased negative affect, stress, and blood pressure in mothers with cocaine exposure during pregnancy. *Addict. Behav.* 29:1541-64
- Lobato G, Moraes CL, Dias AS, Reichenheim ME. 2012. Alcohol misuse among partners: a potential effect modifier in the relationship between physical intimate partner violence and postpartum depression. Soc. Psychiatry Psychiatr. Epidemiol. 47:427-38
- Logsdon MC, Hertweck P, Ziegler C, Pinto-Foltz M. 2008. Testing a bioecological model to examine social support in postpartum adolescents. *J. Nurs. Scholarship* 40:116-23
- Logsdon MC, Usui W. 2001. Psychosocial predictors of postpartum depression in diverse groups of women. Western J. Nurs. Res. 23:563-74
- Lucas A, Pizarro E, Granada ML, Salinas I, Sanmarti A. 2001. Postpartum thyroid dysfunction and postpartum depression: are they two linked disorders? *Clinical Endocrinology* 55: 809-14
- Ludermir AB, Lewis G, Valongueiro SA, de Araújo TVB, Araya R. 2010. Violence against women by their intimate partner during pregnancy and postnatal depression: a prospective cohort study. *Lancet*
- Maes M, Lin AH, Ombelet W, Stevens K, Kenis G, et al. 2000. Immune activation in the early puerperium is related to postpartum anxiety and depressive symptoms. *Psychoneuroendocrinology* 25:121-37
- Mao Q, Zhu LX, Su XY. 2011. A comparison of postnatal depression and related factors between Chinese new mothers and fathers. *J. Clin. Nurs*. 20:645-52

- Martinez-Schallmoser L, Telleen S, Macmullen NJ. 2003. The Effect of Social Support and Acculturation on Postpartum Depression in Mexican American Women. *J. Transcult. Nurs.* 14:329-38
- Matthey S, Barnett B, Ungerer J, Waters B. 2000. Paternal and maternal depressed mood during the transition to parenthood. *J. Affect. Disord.* 60:75-85
- Maxted AE, Dickstein S, Miller-Loncar C, High P, Spritz B, et al. 2005. Infant Colic and Maternal Depression. Infant Ment. Health J. 26:56-68
- McCoy SJ, Beal JM, Payton ME, Stewart AL, DeMers AM, Watson GH. 2008. Postpartum thyroid measures and depressive symptomology: a pilot study. *Journal of the American Osteopathic Association* 108: 503-7
- McGrath JM, Records K, Rice M. 2008. Maternal depression and infant temperament characteristics. Infant Behav. Dev. 31:71-80
- McMahon C, Barnett B, Kowalenko N, Tennant C. 2005. Psychological factors associated with persistent postnatal depression: past and current relationships, defence styles and the mediating role of insecure attachment style. *J. Affect. Disord.* 84:15-24
- McVey C, Tuohy A. 2007. Differential effects of marital relationship and social support on three subscales identified within the Edinburgh Postnatal Depression Scale. *J. Reprod. Infant Psychol.* 25:203-9
- Mehta D, Quast C, Fasching PA, Seifert A, Voigt F, et al. 2012. The 5-HTTLPR polymorphism modulates the influence on environmental stressors on peripartum depression symptoms. *J. Affect. Disord.* 136:1192-97
- Meltzer-Brody S, Stuebe A, Dole N, Savitz D, Rubinow D, Thorp J. 2011. Elevated corticotropin releasing hormone (CRH) during pregnancy and risk of postpartum depression (PPD). J. Clin. Endocrinol. Metab. 96:E40-47
- Meredith P, Noller P. 2003. Attachment and Infant Difficultness in Postnatal Depression. J. Fam. Issues 24:668-86
- Mileva-Seitz V, Steiner M, Atkinson L, Meaney MJ, Levitan R, et al. 2013. Interaction between oxytocin genotypes and early experience predicts quality of mothering and postpartum mood. *PLOS ONE* 8:e61443
- Milgrom J, Gemmill AW, Bilszta JL, Hayes B, Barnett B, et al. 2008. Antenatal risk factors for postnatal depression: a large prospective study. *J. Affect. Disord.* 108:147-57
- Mitchell C, Notterman D, Brooks-Gunn J, Hobcraft J, Garfinkel I, et al. 2011. Role of mother's genes and environment in postpartum depression. *Proc. Natl. Acad. Sci. USA* 108:8189-93
- Mohammad KI, Gamble J, Creedy DK. 2011. Prevalence and factors associated with the development of antenatal and postnatal depression among Jordanian women. *Midwifery* 27:e238-45
- Monk C, Leight KL, Fang Y. 2008. The relationship between women's attachment style and perinatal mood disturbance: implications for screening and treatment. *Arch. Women's Ment. Health* 11:117-29
- Nappi RE, Petraglia F, Luisi S, Polatti F, Farina C, Genazzani AR. 2001. Serum allopregnanolone in women with postpartum "blues." *Obstet. Gynecol.* 97:77-80
- Ngai FW, Chan SW. 2011. Psychosocial factors and maternal wellbeing: An exploratory path analysis. Int. J. Nurs. Stud. 48:725-31
- Nierop A, Bratsikas A, Zimmermann R, Ehlert U. 2006. Are stress-induced cortisol changes during pregnancy associated with postpartum depressive symptoms? *Psychosomat. Med.* 68:931-37
- Nunes AP, Phipps MG. 2013. Postpartum depression in adolescent and adult mothers: comparing prenatal risk factors and predictive models. *Matern. Child Health J.* 17:1071-79
- O'Keane V, Lightman S, Patrick K, Marsh M, Papadopoulos AS, et al. 2011. Changes in the maternal hypothalamic-pituitary-adrenal axis during the early puerperium may be related to the postpartum "blues." *J. Neuroendocrinol.* 23:1149-55
- Ogbonnaya IN, Macy RJ, Kupper LL, Martin SL, Bledsoe-Mansori SE. 2013. Intimate partner violence and depressive symptoms before pregnancy, during pregnancy, and after infant delivery: An exploratory study. *J. Interpersonal Violence* 28:2112-33
- Okun ML, Luther J, Prather AA, Perel JM, Wisniewski S, Wisner KL. 2011. Changes in sleep quality, but not hormones predict time to postpartum depression recurrence. *J. Affect. Disord.* 130:378-84
- Oppo A, Mauri M, Ramacciotti D, Camilleri V, Banti S, et al. 2009. Risk factors for postpartum depression: the role of the Postpartum Depression Predictors Inventory-Revised (PDPI-R). *Arch. Women's Ment. Health* 12:239-49
- Page M, Wilhelm MS. 2007. Postpartum daily stress, relationship quality, and depressive symptoms. Contemp. Fam. Ther. 29:237-51
- Pedersen CA, Johnson JL, Silva S, Bunevicius R, Meltzer-Brody S, et al. 2007. Antenatal thyroid correlates of postpartum depression. Psychoneuroendocrinology 32: 235-45
- Perren S, von Wyl A, Bürgin D, Simoni H, von Klitzing K. 2005. Depressive symptoms and psychosocial stress across the transition to parenthood: Associations with parental psychopathology and child difficulty. *J. Psychosom. Obstet. Gynecol.* 26:173-83
- Phillips J, Sharpe L, Matthey S, Charles M. 2010. Subtypes of postnatal depression? A comparison of women with recurrent and de novo postnatal depression. *J. Affect. Disord.* 120:67-75
- Pinheiro RT, Coelho FM, Silva RA, Pinheiro KA, Oses JP, et al. 2013. Association of a serotonin transporter gene polymorphism (5-HTTLPR) and stressful life events with postpartum depressive symptoms: a population-based study. *J. Psychosom. Obstet. Gynaecol.* 34:29-33
- Pinsonneault JK, Sullivan D, Sadee W, Soares CN, Hampson E, Steiner M. 2013. Association study of the estrogen receptor gene *ESR1* with postpartum depression--a pilot study. *Arch. Women's Ment. Health* 16:499-509
- Qu Z, Wang X, Tian D, Zhao Y, Zhang Q, et al. 2012. Posttraumatic stress disorder and depression among new mothers at 8 months later of the 2008 Sichuan earthquake in China. *Arch. Women's Ment. Health* 15:49-55
- Quelopana AM, Champion JD, Reyes-Rubilar T. 2011. Factors associated with postpartum depression in Chilean women. *Health Care Women Int.* 32:939-49
- Radesky JS, Zuckerman B, Silverstein M, Rivara FP, Barr M, et al. 2013. Inconsolable infant crying and maternal postpartum depressive symptoms. Pediatrics 131:e1857-64
- Ramchandani PG, Richter LM, Stein A, Norris SA. 2009. Predictors of postnatal depression in an urban South African cohort. *J. Affect. Disord.* 113:279-84
- Records K, Rice MJ. 2005. A comparative study of postpartum depression in abused and nonabused women. Arch. Psychiatr. Nurs. 19:281-90
- Records K, Rice MJ. 2009. Lifetime physical and sexual abuse and the risk for depression symptoms in the first 8 months after birth. *J. Psychosom. Obstet. Gynecol.* 30:181-90

- Rich-Edwards JW, Kleinman K, Abrams A, Harlow BL, McLaughlin TJ, et al. 2006. Sociodemographic predictors of antenatal and postpartum depressive symptoms among women in a medical group practice. *J. Epidemiol. Community Health* 60:221-27
- Rich-Edwards JW, Mohllajee AP, Kleinman K, Hacker MR, Majzoub J, et al. 2008. Elevated midpregnancy corticotropin-releasing hormone is associated with prenatal, but not postpartum, maternal depression. *J. Clin. Endocrinol. Metab.* 93:1946-51
- Ritter C, Hobfoll SE, Lavin J, Cameron RP, Hulsizer MR. 2000. Stress, psychosocial resources, and depressive symptomatology during pregnancy in low-income, inner-city women. *Health Psychol.* 19:576-85
- Rodríguez MA, Valentine J, Ahmed SR, Eisenman DP, Sumner LA, et al. 2010. Intimate partner violence and maternal depression during the perinatal period: a longitudinal investigation of Latinas. *Violence Against Women* 16:543-59
- Rogers CE, Kidokoro H, Wallendorf M, Inder TE. 2013. Identifying mothers of very preterm infants at-risk for postpartum depression and anxiety before discharge. *J. Perinatol.* 33:171-76
- Rubertsson C, Wickberg B, Gustavsson P, Rådestad I. 2005. Depressive symptoms in early pregnancy, two months and one year postpartum-prevalence and psychosocial risk factors in a national Swedish sample. *Arch. Women's Ment. Health* 8:97-104
- Sanjuan J, Martin-Santos R, Garcia-Esteve L, Carot JM, Guillamat R, et al. 2008. Mood changes after delivery: role of the serotonin transporter gene. Br. J. Psychiatry 193:383-88
- Satoh A, Kitamiya C, Kudoh H, Watanabe M, Menzawa K, Sasaki H. 2009. Factors associated with late post-partum depression in Japan. *Jap. J. Nurs. Sci.* 6:27-36
- Schachman K, Lindsey L. 2013. A resilience perspective of postpartum depressive symptomatology in military wives. *J. Obstet. Gynecol. Neonatal Nurs.* 42:157-67
- Scrandis DA, Langenberg P, Tonelli LH, Sheikh TM, Manogura AC, et al. 2008. Prepartum depressive symptoms correlate positively with C-reactive protein levels and negatively with tryptophan levels: a preliminary report. *Int. J. Child Health Hum. Dev.* 1:167-74
- Secco LM, Profit S, Kennedy E, Walsh A, Letourneau N, Stewart M. 2007. Factors affecting postpartum depressive symptoms of adolescent mothers. *J. Obstet. Gynecol. Neonatal Nurs.* 36:47-54
- Segre LS, O'Hara MW, Arndt S, Stuart S. 2007. The prevalence of postpartum depression: the relative significance of three social status indices. *Soc. Psychiatry Psychiatr. Epidemiol.* 42:316-21
- Seimyr L, Welles-Nystrom B, Nissen E. 2013. A history of mental health problems may predict maternal distress in women postpartum. *Midwifery* 29:122-31
- Seng JS, Sperlich M, Low LK, Ronis DL, Muzik M, Liberzon I. 2013. Childhood abuse history, posttraumatic stress disorder, postpartum mental health, and bonding: a prospective cohort study. *J. Midwifery Women's Health* 58:57-68
- Serhan N, Ege E, Ayranci U, Kosgeroglu N. 2013. Prevalence of postpartum depression in mothers and fathers and its correlates. *J. Clin. Nurs.* 22:279-84
- Sheng X, Le HN, Perry D. 2010. Perceived satisfaction with social support and depressive symptoms in perinatal Latinas. *J. Transcult. Nurs.* 21:35-44
- Silverman ME, Loudon H. 2010. Antenatal reports of pre-pregnancy abuse is associated with symptoms of depression in the postpartum period. Arch. Women's Ment. Health 13:411-15
- Simpson JA, Rholes WS, Campbell L, Tran S, Wilson CL. 2003. Adult attachment, the transition to parenthood, and depressive symptoms. *J. Personal. Soc. Psychol.* 84:1172-87
- Siu BW, Leung SS, Ip P, Hung SF, O'Hara MW. 2012. Antenatal risk factors for postnatal depression: a prospective study of Chinese women at maternal and child health centres. *BMC Psychiatry* 12:22
- Skalkidou A, Sylven SM, Papadopoulos FC, Olovsson M, Larsson A, Sundstrom-Poromaa I. 2009. Risk of postpartum depression in association with serum leptin and interleukin-6 levels at delivery: a nested case-control study within the UPPSAT cohort. *Psychoneuroendocrinology* 34:1329-37
- Skrundz M, Bolten M, Nast I, Hellhammer DH, Meinlschmidt G. 2011. Plasma oxytocin concentration during pregnancy is associated with development of postpartum depression. *Neuropsychopharmacology* 36:1886-93
- Söderquist J, Wijma B, Thorbert G, Wijma K. 2009. Risk factors in pregnancy for post-traumatic stress and depression after childbirth. *BJOG: Int. J. Obstet. Gynaecol.* 116:672-80
- Stock A, Chin L, Babl FE, Bevan CA, Donath S, Jordan B. 2013. Postnatal depression in mothers bringing infants to the emergency department. *Arch. Dis. Childhood* 98:36-40
- Stuebe AM, Grewen K, Meltzer-Brody S. 2013. Association between maternal mood and oxytocin response to breastfeeding. *J. Women's Health (Larchmt.)* 22:352-61
- Surkan PJ, Peterson KE, Hughes MD, Gottlieb BR. 2006. The role of social networks and support in postpartum women's depression: A multiethnic urban sample. *Matern. Child Health J.* 10:375-83
- Sylvén SM, Elenis E, Michelakos T, Larsson A, Olovsson M, et al. 2013. Thyroid function tests at delivery and risk for postpartum depressive symptoms. *Psychoneuroendocrinology* 38:1007-13
- Tanner Stapleton LR, Dunkel Schetter C, Westling E, Rini C, Glynn LM, et al. 2012. Perceived partner support in pregnancy predicts lower maternal and infant distress. *J. Fam. Psychol.* 26:453-63
- Taylor A, Glover V, Marks M, Kammerer M. 2009. Diurnal pattern of cortisol output in postnatal depression. *Psychoneuroendocrinology* 34:1184-88 Thome M. 2000. Predictors of postpartum depressive symptoms in Icelandic women. *Arch. Women's Ment. Health* 3:7-14
- Trabold N, Waldrop DP, Nochajski TH, Cerulli C. 2013. An exploratory analysis of intimate partner violence and postpartum depression in an impoverished urban population. Soc. Work Health Care 52:332-50
- Trotter JL, Bogat GA, Levendosky AA. 2004. Risk and Protective Factors for Pregnant Women Experiencing Psychological Abuse. *J. Emotional Abuse* 4:53-70
- Urquia ML, O'Campo PJ, Ray JG. 2013. Marital status, duration of cohabitation, and psychosocial well-being among childbearing women: a Canadian nationwide survey. Am. J. Public Health 103:e8-15
- Valentine JM, Rodriguez MA, Lapeyrouse LM, Zhang M. 2011. Recent intimate partner violence as a prenatal predictor of maternal depression in the first year postpartum among Latinas. *Arch. Women's Ment. Health* 14:135-43

- Venkatesh KK, Phipps MG, Triche EW, Zlotnick C. 2014. The relationship between parental stress and postpartum depression among adolescent mothers enrolled in a randomized controlled prevention trial. *Matern. Child Health J.* 18:1532-39
- Vigod SN, Tarasoff LA, Bryja B, Dennis CL, Yudin MH, Ross LE. 2013. Relation between place of residence and postpartum depression. *Can. Med. Assoc. J.* 185:1129-35
- Whisman MA, Davila J, Goodman SH. 2011. Relationship adjustment, depression, and anxiety during pregnancy and the postpartum period. *J. Fam. Psychol.* 25:375-83
- Wilkinson RB, Mulcahy R. 2010. Attachment and interpersonal relationships in postnatal depression. J. Reprod. Infant Psychol. 28:252-65
- Wissart J, Parshad O, Kulkarni S. 2005. Prevalence of pre- and postpartum depression in Jamaican women. BMC Pregnancy Childbirth 5: 15
- Xie RH, He G, Koszycki D, Walker M, Wen SW. 2009. Fetal sex, social support, and postpartum depression. Can. J. Psychiatry 54:750-56
- Yehia DB, Callister LC, Hamdan-Mansour A. 2013. Prevalence and predictors of postpartum depression among Arabic Muslim Jordanian women serving in the military. *J. Perinat. Neonatal Nurs.* 27:25-25
- Yim IS, Glynn LM, Dunkel Schetter C, Hobel CJ, Chicz-DeMet A, Sandman CA. 2009. Risk of postpartum depressive symptoms with elevated corticotropin-releasing hormone in human pregnancy. *Arch. Gen. Psychiatry* 66:162-69
- Yim IS, Glynn LM, Dunkel Schetter C, Hobel CJ, Chicz-DeMet A, Sandman CA. 2010. Prenatal beta-endorphin as an early predictor of postpartum depressive symptoms in euthymic women. *J. Affect. Disord.* 125:128-33
- Yonkers KA, Ramin SM, Rush AJ, Navarrete CA, Carmody T, et al. 2001. Onset and persistence of postpartum depression in an inner-city maternal health clinic system. *Am. J. Psychiatry* 158:1856-63
- Zaers S, Waschke M, Ehlert U. 2008. Depressive symptoms and symptoms of post-traumatic stress disorder in women after childbirth. *J. Psychosomat. Obstet. Gynecol.* 29:61-71
- Zayas LH, Jankowski KRB, McKee MD. 2003. Prenatal and Postpartum Depression among Low-Income Dominican and Puerto Rican Women. Hisp. J. Behav. Sci. 25:370-85
- Zelkowitz P, Milet TH. 2001. The course of postpartum psychiatric disorders in women and their partners. J. Nerv. Ment. Dis. 189:575-82
- Zelkowitz P, Saucier JF, Wang T, Katofsky L, Valenzuela M, Westreich R. 2008. Stability and change in depressive symptoms from pregnancy to two months postpartum in childbearing immigrant women. *Arch. Women's Ment. Health* 11:1-11