Supplemental Table 1 Summary of included studies assessing psychosis

Reference	Population	Symptom(s)	Timeframe	MC assessment	Symptom assessment	Findings
Gerada & Reveley, 1988 ²⁸	34-year-old woman	Psychosis	23 years	Not reported	Observation	Premenstrual psychosis
Lovestone, 1992 ²⁹	21-year-old woman	Psychosis	8 months	Self-report	Observation	Premenstrual psychosis
Harris, 1997 ³⁰	39 inpatient women with schizophrenia	Schizophrenia symptoms	2 cycles–	PAF; self- report	BPRS; self-report	Premenstrual exacerbation of affective and somatic symptoms; no effect on psychosis
Huber et al., 2004 ³¹	27 women with psychosis; 25 women with mood disorder; 25 women in therapy; 23 healthy controls	Psychosis	4 weeks	_	BPRS; observation	70.3% of patients admitted to hospital premenstrually and menstrually
Hsiao & Liu, 2007 ³²	3 women ages 24-42	Psychosis	2+ years per patient	Not reported	Not reported	Premenstrual psychosis
Andreou et al., 2008 ³³	21-year-old woman with PCOS	Psychosis and mania	7 years	Not reported	Observation	Premenstrual psychosis and mania
Lee & Chou, 2012 ³⁴	30-year-old woman	Psychosis	19 years	Not reported	Not reported	Premenstrual psychosis
Brock et al., 2016 ⁶	278 women	Paranoid ideology	4 weeks	Self-report	PDS	Paranoid ideology

						highest premenstrually
Gleeson et al., $2016^{35,a}$	139 women with schizophrenia or schizoaffective disorder	Schizophrenia symptoms	1 assessment	Hormone assays; self- report	PNSS	32.4% reported general cyclic effects
Jalnapurkar & Findley, 2018 ³⁶	24-year-old women with PCOS	Paranoid ideology	3 cycles	Not reported	Not reported	Premenstrual psychosis
Vengadavaradan et al., 2018 ³⁷	42-year-old woman	Psychosis	7 years	Not reported	Not reported	Psychosis present during all phases but premenstrual and menstrual
Ahern et al., 2019 ³⁸	20-year-old woman	Psychosis	7 years	Not reported	Observation	Premenstrual psychosis Positive
Ray et al., 2020 ³⁹	40 inpatient women with schizophrenia	Schizophrenia symptoms	1-2 cycles	Self-report	PNSS	symptoms highest premenstrually; negative symptoms highest menstrually

Note: ^a indicates meeting high-quality evidence criteria. MC = menstrual cycle; PAF = Premenstrual Assessment Form; BPRS = Brief Psychiatric Rating Scale; PCOS = polycystic ovarian syndrome; PDS = Persecution and Deservedness Scale; PNSS = Positive and Negative Syndrome Scale

Supplemental Table 2 Summary of included studies assessing bipolar disorder

Reference	Population	Symptom(s)	Timeframe	MC assessment	Symptom assessment	Findings
Kukopoulos et al., 1985 ⁴⁰	28-year-old woman	Depression and hypomania	3 months	Hormone assays	3-point Likert scale	Premenstrual depression and hypomania
Sothern et al., 1993 ⁴¹	52-year-old woman with schizoaffective disorder	Mania	10 years	Vaginal temperature; self- report	3-point Likert scale	Premenstrual mania
Leibenluft et al., 1999 ⁴²	25 women with rapid cycling BD	Depression and mania	3+ months	Self-report	Analog scale	44% reported general cyclic effects
Becker et al., 2004 ⁴³	43-year-old woman	Depression and hypomania	6+ months	Self-report	Self-report	Depression during follicular phase; premenstrual
Karadag et al., 2004 ^{44,a}	34 women with BD; 35 healthy controls	Depression	2+ months	Hormone assays; self-report	DRSP	hypomania Greater mood variability in healthy controls
Rasgon et al., 2005 ⁴⁵	31 women with BD 1 or 2	Depression and mania	3 months	Self-report	YMRS; HAMD; analog scale	Most affective changes occurred during menstrual phase
Shivakumar et al., 2008 ⁴⁶	41 women with BD 1, 2, or NOS	Depression and mania	3 months	Self-report	NIMH-LCM	31.7% reported general cyclic effects

Aalouane et al., 2011 ⁴⁷	17-year-old girl	Hypomania	14 months	Not reported	Observation	Premenstrual and menstrual hypomania	
Sit et al., 2011 ⁴⁸	11 women with BD; 10 healthy controls	Depression and mania	3 months	LH surge test kit; self-report	Mood Rating Scale	No effect of cycle	
Robakis et al., 2015 ⁴⁹	42 women with BD taking lamotragine; 30 women with BD taking mood stabilizers other than lamotragine; 13 controls; 19 women with BD on hormonal contraceptives	Depression and mania	2-9 menstrual cycles	Self-report	YMRS; HAMD	Lamotragine: no cyclic effects; Other mood stabilizers: mood lowest during menstruation; higher baseline mood in hormonal contraceptive users	
Susser &	24-year-old					Premenstrual	
Hermann, 2017 ⁵⁰	woman with BD 1	Psychosis	15 months	Not reported	Not reported	and menstrual psychosis	
<i>Note:</i> ^a indicates meeting high-quality evidence criteria. MC = menstrual cycle; BD = bipolar disorder; DRSP = Daily Record of							

Severity of Problems; LH = luteinizing hormone; YMRS = Young Mania Rating Scale; HAMD = Hamilton Depression Rating Scale; NOS = not otherwise specified; NIMH-LCM = National Institute of Mental Health-Life Chart Method

Supplemental Table 3 Summary of included studies assessing depression

Reference	Population	Symptom(s)	Timeframe	MC assessment	Symptom assessment	Findings
Schick, 1953 ⁵¹	28-year-old woman	Depressive symptoms	2 years	Self-report	Self-report	Premenstrual depression
May, 1976 ⁵²	30 healthy women	Depressive symptoms	2 menstrual cycles	Self-report	EDS	Depressive symptoms were most common premenstrually and menstrually
Golub, 1978 ⁵³	50 healthy women	Depressive symptoms	1 assessment during either the premenstrual or intermenstrual phase	MDQ	DACL	Depressive symptoms were higher during premenstrual phase
Abramowitz et al., 1982 ⁵⁴	39 women with DD; 76 women with SCH	Psychiatric hospital admission	1 assessment	Self-report	Medical chart	41% of women with DD were admitted the day before and first day of menstruation
Lahmeyer et al., 1982 ⁵⁵	11 healthy women	Negative affect	1 menstrual cycle	Self-report	MDQ	No effect of menstrual cycle
O'Neil et al., 1984 ⁵⁶	162 healthy women; 138 women with emotional problems	Depressive symptoms	1 assessment	Self-report	BDI; CCDS	No effect of menstrual cycle

Shaver & Woods, 1985 ⁵⁷	63 healthy women	Depressive symptoms	2 menstrual cycles	Daily diary	Daily diary	Premenstrual symptom worsening Peak
Halbreich et al., 1986 ⁵⁸	17 healthy women	Depressive symptoms	1 menstrual cycle	Hormone assays	Daily Rating Form	progesterone and rate of decrease were positively associated with depressive symptoms
Chen & Filsinger, 1987 ⁵⁹	110 healthy women	Depressive symptoms	1 assessment	Self-report	VAS	Depressive symptoms correlated with menstrual symptoms, not cycle phase Depressive
Chisolm et al., 1990 ⁶⁰	40 healthy women	Depressive symptoms	1 assessment	Self-report	IPAT Depression Scale	symptoms were higher during premenstrual than intermenstrual phase
Laessle et al., 1990 ^{7,a}	30 healthy women	Depressive symptoms	1 menstrual cycle	Hormone assays	Self-report	Depressive symptoms were not associated with hormone levels
Bancroft et al., 1994 ⁶¹	90 women with menorrhagia; 83 with PMS; 50 with	Depressive symptoms; history of depression	1 assessment	Self-report	MHQ; self- report	History of depression was associated with more severe

	dysmenorrhea; 104 control					depressive symptoms during the premenstrual and menstrual phases
Ross et al., 2001 ⁶²	109 women	Negative affect	70 days	MDQ; self-report	NEO PI-R	Negative affect was greater during premenstrual than follicular phase
Abraham et al., 2003 ⁶³	Women using monophasic ($n =$ 39), triphasic ($n =$ 55) or no OCs ($n =$ 25)	Depressive symptoms	2 menstrual cycles	Daily diary	Daily diary	Premenstrual and menstrual exacerbation; greatest exacerbations in no OC group
Alonso et al., 2004 ⁶⁴	57 women with fibromyalgia; 20 women with rheumatoid arthritis; 48 controls	Depressive symptoms; negative affect	2 assessments: 1 during follicular, 1 luteal phase	Self-report	PANAS; MASQ	Depressive symptoms and negative affect correlated with menstrual pain, not cycle phase
Hartlage et al., 2004 ^{65,a}	58 depressed women; 842 controls	Depressive symptoms	2 menstrual cycles	Hormone assays	DSMQ	58% of depressed women experienced premenstrual symptom worsening

Hsiao et al., 2004 ⁶⁶	50 women with GAD; 50 with PD; 50 with DD; 50 with SCH	Depressive symptoms	1 assessment	Self-reported premenstrual exacerbation	Self-report	No premenstrual exacerbation of depressive symptoms
Gonda et al., 2008 ⁶⁷	63 healthy women	Depressive symptoms	3 menstrual cycles	PRISM	ZSDS	Higher depression in
Harvey et al., 2009 ^{68,a}	62 healthy women	Negative mood	1 year	Basal body temperature; daily diary	Daily diary	late luteal phase Premenstrual and menstrual symptom exacerbation 13% had mid-
Kiesner, 2011 ⁶⁹	213 women	Depressive symptoms	2 menstrual cycles	Self-report	Author- constructed scale	cycle mood worsening, 61% premenstrual, 26% no effect of menstrual cycle
Walder et al., 2012 ⁷⁰	29 females; 9 males	Depressive symptoms	1 assessment	Self-report	BDI-II	No effect of menstrual cycle
Prasad et al., 2014 ^{71,a}	259 healthy women	Depressive symptoms	1 (n = 9) or two (n = 250) menstrual cycles	Hormone assays; fertility monitor	CES-D	No relationship between depression and hormone levels
Jacobs et al., 2015 ⁷²	11 women with remitted MDD; 13 healthy controls	Stress reactivity	3-4 months	Hormone assays; self-report	fMRI	Higher estrogen reduced stress reactivity for healthy women only
Hamstra et al., 2017 ^{73,a}	35 healthy women; 57 women taking OCs	Rumination; interpersonal sensitivity; affect lability	2 menstrual cycles	Hormone assays; self-report	LEIDS; IPSM; ALS	Affect lability was associated with the menstrual phase

						for both groups; No association for other measures
Hengartner et al., 2017 ^{74,a}	87 healthy women	Negative affect	2 menstrual cycles	Self-report; hormone assays	PANAS; BDI	No effect of menstrual cycle
Lundin et al., 2017 ⁷⁵	84 women taking OCs; 94 women taking placebo	Depressive symptoms	3 menstrual cycles	Self-report	DRSP	OC use associated with premenstrual improvement in depression Depression not
Mulligan et al., 2018 ^{76,a}	43 healthy female undergraduates	Depression; EEG	1 menstrual cycle	Hormone assays; self-report	IDAS-II	related to hormone levels or MC phase; high depression associated with reduced reward sensitivity in luteal phase
Dan et al., 2019 ⁷⁷	20 healthy women; 20 healthy men	Emotional perception, experience during fMRI	2 assessments: 1 during mid- follicular, 1 late- luteal phase	Hormone assays	Emotional face matching; emotional experience ratings	Menstrual cycle effects observed for emotional experience ratings and negative, not positive, facial matching
Huerta-Franco et al., 2020 ⁷⁸	22 women with epilepsy; 9 controls	Depressive symptoms	1 menstrual cycle	Self-report	HDRS	People with epilepsy reported higher depressive symptoms in the

Note: ^a indicates meeting high-quality evidence criteria. MC = menstrual cycle; EDS = Elation-Depression Scale; MDQ = Menstrual Distress Questionnaire; DACL = Depression Adjective Check List; DD = depressive disorders; SCH = schizophrenia; VAS = visual analogue scale; BDI = Beck Depression Inventory; CCDS = Costello-Comrey Depression Scale; IPAT = Institute of Personality and Ability Testing; PMS = premenstrual syndrome; MHQ = Menstrual Health Questionnaire; NEO PI-R = NEO Personality Inventory-Revised; OC = oral contraceptive; PANAS = Positive and Negative Affect Scale; MASQ = Mood and Anxiety Symptoms Questionnaire-Short form; DSMQ = daily symptom and mood questionnaire; GAD = generalized anxiety disorder; PD = panic disorder; PRISM = Prospective Record of the Impact and Severity of Menstrual Symptoms; ZSDS = Zung Self-Rating Depression Scale; BDI-II = Beck Depression Inventory-II; CES-D = Center for Epidemiological Studies-Depression scale; MDD = major depressive disorder; fMRI = functional magnetic resonance imaging; LIEDS = Leiden Index of Depression Scale-Revised; IPSM = Interpersonal Sensitivity Measure; ALS = Affect Lability Scale; DRSP = Daily Record of Severity of Problems; EEG = electroencephalogram; IDAS-II = Inventory of Depression and Anxiety Symptoms; HDRS = Hamilton Depression Rating Scale

Supplemental Table 4 Summary of studies assessing suicide and suicide attempts

Reference	Population	Symptom(s)	Timeframe	MC assessment	Symptom assessment	Findings
Fourestié et al., 1986 ^{79,a}	108 inpatient women	Suicide attempt	1 assessment	Hormone assays; interview	Medical chart; interview	12% of attempts occurred premenstrually; 42% of attempts occurred during menstruation; no cyclic effect in women using hormonal
Targum et al., 1991 ⁸⁰	51 inpatient women; 113 staff	Suicide attempt	1 assessment	Medical chart; self-report	Medical chart; self-report	contraceptives 47% of attempts occurred premenstrually 29% of attempts
Baca-García et al., 1998 ⁸¹	113 inpatient women	Suicide attempt	1 assessment	Self-report	Medical chart; interview	occurred premenstrually; 36% of attempts occurred during menstruation Attempts more
Baca-García et al., 2001 ^{82,a}	90 inpatient women	Suicide attempt; psychiatric diagnosis	1 assessment	Hormone assays	Medical chart; interview	likely to occur during menstruation for women with a history of psychiatric disorder (OR = 5.03)

Baca-García et al., 2003a ^{83,a}	120 inpatient women	Suicide attempt	1 assessment	Hormone assays; self-report	Medical chart; interview	Probability of suicide attempt occurring during menstruation = 1.72 41% of women
Baca-Garcia et al., 2003b ^{84,a}	104 inpatient women	Suicide attempt	1 assessment	Hormone assays; self-report	Medical chart; interview	with long alleles, 22% of women with short alleles attempted suicide during menstruation
Cayköylü et al., 2004 ^{85,a}	52 inpatient women	Suicide attempt	1 assessment	Hormone assays; medical chart	Medical chart	Greatest number of attempts during menstruation
Lee, 2004 ⁸⁶	19-year-old woman with severe autism and mental retardation	Self-harm	Approximately 7 years	Not reported	Observation	Premenstrual self-harm
Sein Anand et al., 2005 ⁸⁷	151 inpatient women	Suicide attempt	1 assessment	Not reported	Medical chart	Greatest number of attempts during menstruation
Dogra et al., 2007 ^{88,a}	217 autopsies of suicides; 217 autopsies of other causes	Suicide	1 assessment	Autopsy	Medical chart	54% of suicides, 6.75% of other deaths occurred during menstruation
Leenaars et al., $2009^{89,a}$	56 autopsies of suicides; 44	Suicide	1 assessment	Autopsy	Medical chart	25% of suicides, 4% of other

	autopsies of other causes					deaths occurred during menstruation 26% of attempts
Baca-Garcia et al., 2010 ⁹⁰	431 inpatient women	Suicide attempt	1 assessment	Hormone assays; self-report	Medical chart; interview	26% of attempts occurred during menstruation
Mousavi et al., 2014 ^{91,a}	111 inpatient women	Suicide attempt	1 assessment	Hormone assays; self-report	Medical chart; interview	62% of attempts occurred during luteal phase
Behera et al., 2019 ^{92,a}	86 autopsies of suicides; 80 autopsies of other causes	Suicide	1 assessment	Autopsy	Medical chart	Greater number of suicides during luteal (OR 3.7) and/or menstrual (OR 4.7) phases compared to follicular
Papadopoulou et al., 2019 ^{93,a}	70 inpatient women	Suicide attempt	1 assessment	Hormone assays; medical chart	Medical chart	59% of attempts occurred premenstrually

Note: ^a indicates meeting high-quality evidence criteria. MC = menstrual cycle; OR = odds ratio

Supplemental Table 5a Summary of included studies assessing anxiety and stress

Reference	Population	Symptom(s)	Timeframe	MC assessment	Symptom assessment	Findings
Gottschalk et al., 1962 ⁹⁴	5 women	Anxiety	1 – 3 menstrual cycles	BBT	Daily audio recordings	Three women had less anxiety in luteal phase
Moos et al., 1962 ⁹⁵	15 women	Anxiety	2 menstrual cycles	Self-report	Self-report	Anxiety highest at menstrual and premenstrual phases
Ivey & Hardwick, 1968 ⁹⁶	26 women	Anxiety	2 menstrual cycles	Self-report; BBT	Themes identified during audio interview	Anxiety higher during premenstrual phase
Paige, 1971 ⁹⁷	38 women not taking OCs; 64 women taking OCs	Negative affect	1 menstrual cycle	Self-report	Audio recordings of verbal samples	Anxiety is highest in menstrual and premenstrual phases
Marinari et al., 1976 ⁹⁸	30 women using OCs; 30 women not using OCs	Stress responses	1 – 2 weeks	Self-report	Cortisol	Women not taking OCs showed higher stress premenstrually; no cycle effect for women taking OCs
Lahmeyer et al., 1982 ⁵⁵	11 women	Anxiety	1 menstrual cycle	Self-report; BBT; urinary pregnanediol	STAI	No effect of cycle phase

O'Neil et al., 1984 ⁵⁶	using OCs) who attended a psychiatric clinic	Anxiety	1 assessment	Self-report	C-CAS	No effect of cycle phase in either group
Veith et al., 1984 ⁹⁹	9 women not taking OCs; 7 women taking OCs	Anxiety	1 menstrual cycle	Self-report; BBT	STAI	No effect of cycle phase
Van den Akker Steptoe, 1985 ¹⁰		Anxiety and menstrual symptoms	35 days	Self-report; BBT	STAI; MDQ	No effect of cycle phase
Morse et al., 1988 ^{101,a}	32 healthy women; 75 women with PMS	Anxiety	2 menstrual cycles	Self-report; hormone assays	STAI	No effect of cycle phase
Chisholm et al 1990 ⁶⁰	., 40 healthy women	Anxiety	1 assessment	Self-report	STAI	Anxiety was higher during premenstrual than intermenstrual phase
Gomez-Amor al., 1990 ^{102,a}		Anxiety	1 menstrual cycle	Self-report; BBT; hormone assays	STAI; EDA	Higher EDA in ovulatory; no cycle changes in anxiety
Lane & Franci 2003 ¹⁰³	s, 69 women	Anxiety	1 assessment*	Self-report	DASS	No effect of cycle phase

Davydov et al., 2004 ^{104,a}	203 women nurses	Anxiety	1 menstrual cycle	Self-report; LH surge test kit; hormone assays	Self-report rated intensity of moods	Women with high anxiety had more anxiety during luteal phase if working on that day
Gonda et al., 2008 ⁶⁷	63 healthy women	Anxiety	3 menstrual cycles	PRISM	STAI; SCL51	Higher anxiety in late luteal phase
Hlavacova et al., 2008 ¹⁰⁵	20 anxious women; 20 non- anxious women	Stress responses	1 assessment	Self-report	Cortisol; 8SQ	Anxious women showed higher cortisol in follicular phase; no effect of cycle phase in self-report of anxiety
Harvey et al., $2009^{68,a}$	62 healthy women runners	Anxiety	1 year	Self-report; BBT; hormone assays	Menstrual Cycle Diary©	No effect of cycle phase
Childs et al., 2010 ¹⁰⁶	52 women; 28 men	Anxiety	1 menstrual cycle	Self-report	POMS; Cortisol; HR	Luteal women had strongest responses to stress; follicular women showed blunted noradrenaline
Kiesner, 2011 ⁶⁹	213 women	Anxiety symptoms	2 menstrual cycles	Self-report	Author- constructed scale	responses. 13% had mid- cycle worsening, 61% premenstrual, 26% no effect of menstrual cycle

Lustyk et al., 2010 ^{107,a}	78 women	Anxiety; stress responses	1 menstrual cycle	Self-report; LH surge test kit	STAI; cortisol; HR	Higher anxiety in follicular phase; higher cortisol and HR in luteal phase Higher HR and
Lustyk et al., 2012 ^{108,a}	87 women	Anxiety; stress responses	1 menstrual cycle	Self-report; LH surge test kit	STAI; HR; BP	BP in luteal phase; no effect of cycle phase on state anxiety
Armbruster et al., 2014 ¹⁰⁹	111 women; 107 men	Anxiety	1 menstrual cycle	Self-report	ASR	Larger ASR magnitudes at ovulation and late luteal compared to men baseline No menstrual
Albert et al., 2015 ¹¹⁰	28 women	Anxiety and stress	1 assessment	Self-report; hormone assays	STAI; SAC; fMRI	cycle phase effect on STAI or SAC; ovulation associated with less stress reactivity
Mahon et al., 2015 ^{111,a}	49 women	Perceived control of over anxiety	1 menstrual cycle	Self-report; LH surge test kit; hormone assays	ACQ	No effect of cycle phase
Manikandan et al., 2016 ^{112,a}	37 women	Perceived control of over anxiety	1 menstrual cycle	Self-report; LH surge test kit	ACQ; DERS	Women with better emotion regulation showed greater increase in control over

						anxiety in luteal phase
Özer Kaya & Toprak Çelenay, 2016 ¹¹³	13 physically active women	Anxiety	1 menstrual cycle	Self-report	STAI	No effect of cycle phase
Welz et al., 2016 ^{114,a}	59 women	BAI	1 cycle	Self-report; ovulation test	Self-report	Women with high anxiety had increased irritability in late luteal and menstrual phases
Villada et al., 2017 ^{115,a}	31 women	Anxiety; stress responses	1 assessment	Self-report; BBT	STAI; Cortisol; HR	Highest cortisol in luteal phase; no effect of cycle phase on other measures
Reynolds et al.,	<u>Study 1</u> : 100 Polish women	<u>Study 1</u> : anxiety	<u>Study 1</u> : 1 menstrual cycle	<u>Study 1</u> : Self- report; LH surge test kit; hormone assays	<u>Study 1</u> : Self- report	<u>Study 1</u> : No effect of cycle phase; progesterone positively correlated with anxiety
2018 ^{116,a}	<u>Study 2</u> : 61 American women	Study 2: attachment anxiety	<u>Study 2</u> : 1 menstrual cycle	<u>Study 2</u> : Self- report; LH surge test kit; hormone assays	<u>Study 2</u> : ECR	Study 2: No effect of cycle phase; progesterone positively correlated with anxiety

Hahn et al., 2020 ^{117,a}	370 women	Anxious jealousy	2 – 15 weeks	Self-report; hormone assays	Relationship jealousy questionnaire	No relationship to hormonal levels across the menstrual cycle
Shayani et al., 2020 ^{118,a}	38 women	Health anxiety	1 menstrual cycle	Self-report; LH surge test kit; hormone assays	HAI – short version	Women with high health anxiety have greater perceived stress in luteal phase
Prado et al., 2021^{119}	14 physically active women	Anxiety	2-3 cycles	Self-report; BBT	BAI	Higher anxiety in luteal phase

Note: ^a indicates meeting high-quality evidence criteria. MC = menstrual cycle; BBT = basal body temperature; OC = oral contraceptive; STAI = State-Trait Anxiety Inventory; MDQ = Menstrual Distress Questionnaire; C-CAS = Costello-Comrey Anxiety Scale; PMS = premenstrual syndrome; EDA = electrodermal activity; DASS = Depression Anxiety Stress Scales; LH = luteinizing hormone; PRISM = Prospective Record of the Impact and Severity of Menstrual Symptoms; SCL51 = Symptom Distress Checklist-51; 8SQ = Eight State Questionnaire; POMS = Profile of Mood States; HR = heart rate; BP = blood pressure; ASR = acoustic startle response; ACQ = Anxiety Control Questionnaire; DERS = Difficulties in Emotion Regulation Scale; BAI = Beck Anxiety Inventory; ECR = Experiences in Close Relationships questionnaire; SAC = Stress and Arousal Checklist; fMRI = functional magnetic resonance imaging; HAI = Health Anxiety Inventory

*participants reported symptoms retrospectively

Supplemental Table 5b Summary of included studies assessing generalized anxiety disorder

Reference	Population	Symptom(s)	Timeframe	MC assessment	Symptom assessment	Findings
McLeod et al., 1993 ¹²⁰	41 women with GAD; 21 women with GAD+PMS; 19 healthy controls	Anxiety	3 menstrual cycles	Self-report	HSCL-90	Women with GAD + PMS reported higher anxiety premenstrually
Li et al., 2020 ¹²¹	18 women with GAD; 20 non- anxious women	Physical and mental fatigue	1 menstrual cycle	Self-report; LH surge test kit; hormone assays	FES	Only mental fatigue was higher in mid- luteal than early follicular for non-anxious women

Checklist -90; LH = luteinizing hormone; FES = Fatigue and Energy Scale

Supplemental Table 5c Summary of included studies assessing social anxiety disorder

Reference	Population	Symptom(s)	Timeframe	MC assessment	Symptom assessment	Findings
Van Veen et al., 2009 ¹²²	64 women with generalized SAD	Social anxiety	1 assessment	Self-report*	Social anxiety and avoidance rating	Subgroup of women reported premenstrual increase in social anxiety
Maner & Miller, 2014 ^{123,a}	<u>Study 1</u> : 22 healthy women; 18 women taking OC	<u>Study 1</u> : social sensitivity	<u>Study 1</u> : 1 assessment	<u>Study 1</u> : Self- report; hormone actuarial estimates	<u>Study 1</u> : Facial expression identification	<u>Study 1</u> : Luteal phase associated with more accurate facial expression identification
2014	Study 2: 44 healthy women; 45 women taking OCs	Study 2: Attention to social stimuli	Study 2: 1 assessment	<u>Study 2</u> : Self- report; hormone assays	<u>Study 2</u> : Dot probe task	<u>Study 2</u> : Luteal phase associated with heightened attention to social stimuli
	<u>Study 1</u> : 78 women	<u>Study 1</u> : interpersonal sensitivity	Study 1: 1 assessment	<u>Study 1</u> : Self- report; hormone assays	<u>Study 1</u> : BIS/BAS; SAS	<u>Study 1</u> : No menstrual cycle effect
Wang et al., 2021 ^{124,a}	Study 2: 30 women	<u>Study 2</u> : interpersonal anxiety	<u>Study 2</u> : 1 menstrual cycle	<u>Study 2</u> : Self- report; LH surge test kit	<u>Study 2</u> : SABS; SVO	<u>Study 2</u> : Mid- luteal phase associated with higher interpersonal anxiety

Note: ^a indicates meeting high-quality evidence criteria. MC = menstrual cycle; SAD = social anxiety disorder; OC = oral contraceptive; BIS/BAS = Behavioral Inhibition Scale/Behavioral Activation Scale; SAS = Self-Awareness Scale; LH = luteinizing hormone; SABS = Self-Absorption Scale; SVO = Social Value Orientation *participants retrospectively reported symptoms for different phases of the menstrual cycle

Supplemental Table 5d Summary of included studies assessing panic disorder

Reference	Population	Symptom(s)	Timeframe	MC assessment	Symptom assessment	Findings
Cameron et al., 1988 ¹²⁵	10 women with panic attacks	Number of panic attacks; panic attack severity	At least one menstrual cycle	Self-report	Self-report	Retrospective premenstrual worsening. No menstrual cycle effect from prospective ratings
Stein et al., 1989 ¹²⁶	20 women with PD; 20 healthy control women; 20 women with PMS	Anxiety	At least 2 menstrual cycles	Self-report	VAS anxiety ratings	Women with PMS had higher premenstrual anxiety
Cook et al., 1990 ¹²⁷	19 women with PD	Anxiety	60 days	Self-report	Daily diary of anxiety ratings	Retrospective premenstrual worsening. No menstrual cycle effect from prospective ratings
Kaspi et al., 1994 ¹²⁸	Study 1: 94 women with PD (retrospective)	<u>Study 1</u> : panic symptoms	Study 1: 1 assessment	<u>Study 1</u> : Self- report	<u>Study 1</u> : Self- report	<u>Study 1</u> : 41% retrospectively reported premenstrual worsening of panic
		Study 2: panic symptoms	Study 2: 2 menstrual cycles	<u>Study 2</u> : Self- report	<u>Study 2</u> : Self- report	<u>Study 2</u> : Premenstrual

Perna et al., 1995 ¹²⁹	Study 2: 24 women with PD (prospective) 10 women with PD; 7 healthy control women	Anxiety in response to CO ₂ inhalation	1 menstrual cycle	Self-report; hormone assays	VAS anxiety ratings	panic frequency and negative mood greater than postmenstrual Higher anxiety in early follicular for women with PD
Sigmon et al., 1996 ¹³⁰	86 women with either high or low AS	Anxiety; arousal	1 menstrual cycle	Self-report	SCR; STAI	Women with PD had higher SCRs to anxiety scenes in premenstrual phase
Sigmon, Dorhofer, Rohan, & Boulard, 2000 ¹³¹	56 low AS women; 57 high AS women	Psycho- physiological reactivity	1 menstrual cycle	Self-report	SCR	No menstrual cycle effects
Sigmon, Dorhofer, Rohan, Hotovy et al., 2000 ¹³²	16 women with PD; 18 healthy control women	Psycho- physiological reactivity	2 menstrual cycles	Self-report	SCR	Women with PD had higher SCRs to anxiety scenes in premenstrual phase
Dorhofer & Sigmon, 2002 ¹³³	33 women with asthma; 17 women with asthma + PD; 18 women with PD; 29 healthy control women	Anxiety and lung function reactivity to stress	1 menstrual cycle	Self-report	ASI; STAI; SCR; peak air flow	No menstrual cycle effect

Nillni et al., 2012 ^{134,a}	55 healthy women	Panic symptoms; anxiety in response to CO ₂ inhalation	At least 1 menstrual cycle	Self-report; LH surge test kit; hormone assays	DSQ; ASI	Higher cognitive panic symptoms premenstrually only for women with high AS; no menstrual cycle effect for anxiety
Nillni et al., 2013 ^{135,a}	55 healthy women	Menstrual- related symptoms	At least 1 menstrual cycle	Self-report; LH surge test kit; hormone assays	DSRP; MDQ	No menstrual cycle effects

Note: ^a indicates meeting high-quality evidence criteria. MC = menstrual cycle; PD = panic disorder; CO₂ = carbon dioxide; VAS = visual analogue scale; PMS = premenstrual syndrome; AS = anxiety sensitivity; SCR = skin conductance response; STAI = State-Trait Anxiety Inventory; ASI = Anxiety Sensitivity Index; LH = luteinizing hormone; DSQ = Diagnostic Sensations Questionnaire; DSRP = Daily Record Severity of Problems; MDQ = Menstrual Distress Questionnaire.

Supplemental Table 6a Summary of included studies assessing obsessive-compulsive disorder

Reference	Population	Symptom(s)	Timeframe	MC assessment	Symptom assessment	Findings
Williams & Koran, 1997 ¹³⁶	57 women with OCD	Estimated pre- menstrual worsening of OCD symptoms	Retrospective	Self-report	Self-report	42% (n = 24) described premenstrual worsening
Labad et al., 2005 ¹³⁷	46 women with OCD*	Changes in OCD symptoms	1 day	Self-report	Self-report via clinical interview	20% (n = 9) reported premenstrual worsening of OCD symptoms
Vulink et al., 2006 ¹³⁸	101 women (82 pre- menopausal**)	OCD symptoms	1 day	Self-report	Y-BOCS; Self- report	49% (n = 49) reported premenstrual worsening of OCD symptoms
Mulligan et al., 2019 ^{139,a}	40 women	Checking symptoms	2 assessments within 1 cycle	Hormonal assays; self-report	Self-report	No phase differences in checking

Note: ^a indicates meeting high-quality evidence criteria. MC = menstrual cycle; OCD = obsessive-compulsive disorder; Y-BOCS = Yale-Brown Obsessive-Compulsive Scale

*3 women were using oral contraceptives at the time of assessment

**43 women were using oral contraceptives at the time of assessment

Supplemental Table 6b Summary of included studies assessing trichotillomania

Reference	Population	Symptom(s)	Timeframe	MC assessment	Symptom assessment	Findings
Keuthen et al., 1997 ¹⁴⁰	59 women with trichotillomania	Hairpulling frequency, urge, and ability to resist	Retrospective	Self-report	Self-report	Greater frequency and urges, less ability to resist premenstrually

Note: MC = menstrual cycle

Supplemental Table 7 Summary of included studies assessing post-traumatic stress disorder (PTSD)

Reference	Population	Symptom(s)	Timeframe	MC assessment	Symptom assessment	Findings
Bryant et al., 2011 ¹⁴¹	147 trauma- exposed women	Flashbacks	1 assessment	Self-report	CAPS; self- report	Luteal phase at time of trauma or assessment associated with more flashbacks
Ferree et al., 2011 ^{142,a}	40 women	Intrusive memories	48 hours	Self-report; hormone assays	SIRs	Luteal phase associated with more SIRs Follicular
Glover et al., 2013 ²	28 healthy women; 44 trauma-exposed women*	Fear discrimination and inhibition	1 assessment	Self-report; estradiol assays	Fear-potentiated startle	phase/lower estrogen associated with impaired fear inhibition
Soni et al., 2013 ^{143,a}	41 women	Intrusive memories	72 hours	Self-report; hormone assays	Daily diary	More intrusive memories in early luteal phase
Wegerer et al., 2014 ^{144,a}	37 women	Intrusive memories	1 assessment	Self-report; hormone assays	IMQ	Low estradiol associated with more intrusive memories
Nillni et al., 2015 ¹⁴⁵	Trauma-exposed women with $(n = 22)$ and without (n = 29) PTSD	Depression, anxiety, interpersonal sensitivity; hostility	1 menstrual cycle	Self-report; LH surge test kit; hormone assays	SCL 90-R	Depression, phobic anxiety higher in early follicular phase

Pineles, Blumenthal et al., 2016 ¹⁴⁶	Trauma-exposed women with $(n = 22)$ and without (n = 25) PTSD	Degree of PPI	1 menstrual cycle	Self-report; LH surge test kit; hormone assays	Startle reactivity	No effect of menstrual cycle phase
Pineles, Nillni, et al., 2016 ¹⁴⁷	Trauma-exposed women with $(n = 16)$ and without (n = 16) PTSD	Fear extinction	1 menstrual cycle	Self-report; LH surge test kit; hormone assays	Skin conductance response	Impaired fear extinction retention in midluteal for PTSD group
Pineles et al., 2018 ¹⁴⁸	Trauma-exposed women with $(n = 15)$ and without (n = 19) PTSD	PTSD biomarkers	1 menstrual cycle	Self-report; LH surge test kit; hormone assays	ALLO synthesis	ALLO to 5α- DHP ratio higher in midluteal phase
Nillni et al., 2020 ¹⁴⁹	Trauma-exposed women with $(n = 24)$ and without (n = 24) PTSD	Anxiety sensitivity	1 menstrual cycle	Self-report; LH surge test kit; hormone assays	ASI	No effect of menstrual cycle phase
Pineles et al., 2020 ¹⁵⁰	Trauma-exposed women with $(n = 9)$ and without $(n = 9)$ PTSD	PTSD biomarkers	1 menstrual cycle	Self-report; LH surge test kit; hormone assays	ALLO synthesis and skin conductance response	Positive relationship between ALLO and fear extinction in midluteal for PTSD group
Arditte Hall et al., 2021 ¹⁵¹	12 women with PTSD; 18 trauma-exposed women without PTSD	Stress	1 menstrual cycle	Self-report; LH surge test kit; hormone assays	GABA levels	No effect of menstrual phase in either group

Note: ^a indicates meeting high-quality evidence criteria. PTSD = post-traumatic stress disorder; MC = menstrual cycle; CAPS = clinician administered PTSD scale; SIRs = spontaneous intrusive recollections; IMQ = intrusion memory questionnaire; LH = luteinizing hormone; SCL 90-R = Symptom Checklist 90-Revised; PPI = pre-pulse inhibition; ALLO = allopregnanolone and pregnanolone; 5α -DHP = 5α dihydroprogesterone; ASI = anxiety sensitivity index; GABA = gamma-aminobutyric acid

* included women from an urban population that may have been using hormonal birth control or in menopause

Supplemental Table 8 Summary of included studies assessing eating disorders

Reference	Population	Symptom(s)	Timeframe	MC assessment	Symptom assessment	Findings
Leon et al., 1986 ¹⁵²	45 women with BN	Binge purge episodes	9 weeks	Self-report	EPHQ; self- report	No effect of cycle
Gladis & Walsh, 1987 ¹⁵³	15 women with BN	Binge eating	2-4 cycles	Self-report	Self-report	Premenstrual and menstrual exacerbation of binging
Lester et al., 2003 ¹⁵⁴	8 women with BN; 8 healthy controls	Binge purge episodes	5 weeks	Hormone assays; self-report	BULIT-R; self- report	Premenstrual exacerbation of binging; no effect on purging Binging
Edler et al., 2007 ¹⁵⁵	9 women with BN; 8 healthy controls	Binge purge episodes	5 weeks	Hormone assays; self-report	BULIT-R	increased as progesterone increased and estradiol decreased
Gonda et al., 2008 ¹⁵⁶	63 women	Eating attitudes	3 cycles	Self-report	Eating Attitudes Test	No effect of cycle
Klump et al., 2008 ¹⁵⁷	24 women	Binge eating	35 days	Hormone assays; self-report	DEBQ	Premenstrual exacerbation of binging
McVay et al., 2011 ¹⁵⁸	81 women taking OCs; 67 controls	Eating behaviors	1 assessment	PAF; self-report	MAEDS; self- report	Premenstrual and menstrual exacerbation of food cravings

Schoofs et al., 2011 ¹⁵⁹	42 women with BD 1 or 2; 15 also had BED	Binge eating	3 months	Self-report	Self-report	and amount eaten Premenstrual and menstrual exacerbation of binging Emotional
Klump et al., 2013 ^{160,a}	196 female twins	Emotional eating	45 days	Hormone assays; self-report	DEBQ	eating increased as progesterone and estradiol increased
Klump et al., 2014 ¹⁶¹	445 female twins*, 28 with history of binge eating	Binge eating	45 days	Hormone assays	DEBQ; self- report	Binge eating increased midluteally and premenstrually for women with history of binge eating, otherwise, binging increased midluteally Premenstrual
Hildebrandt et al., 2015 ^{162,a}	352 female twins	Emotional eating; weight preoccupation	45 days	Hormone assays; self-report	MEBS	and menstrual exacerbation of weight preoccupation due to increased
Baker et al., 2019 ¹⁶³	8 perimenopausal women	Eating behaviors; body dissatisfaction	1 cycle or 40 days, whichever came first	Hormone assays	EPSI	emotional eating Progesterone moderates relationship between

						estradiol and
						binge eating,
						body
						dissatisfaction
Fowler et al.,	445 female	Emotional	15 dava	II.	DEDO, DANAS	No effect of
2019 ^{164,a}	twins eating 45 days Hormone	Hormone assays	DEBQ; PANAS	hormone levels		
Note: a indicates m	neeting high-quality	v evidence criteria.	MC = menstrual c	ycle; BN = bulimia ner	vosa; EPHQ = Eatin	ng Patterns and
Health Questionna	aire; BULIT-R = Bu	ulimia Test-Revised	l; DEB-Q = Dutch	Eating Behavior Ques	tionnaire; OC = oral	contraceptive;
PAF = Premenstru	al Assessment For	m; MEADS = Mult	iaxial Assessment	of Eating Disorder Syr	nptoms; BD = bipol	ar disorder; BED
= binge eating disc	order; MEBS = Min	nnesota Eating Beh	avior Survey; EPS	I = Eating Pathology S	ymptom Inventory;	PANAS =
Positive and Nega	tive Affect Scale					
* 106 of these part	ticipante also partic	instad in Klump at	al 2013			

* 196 of these participants also participated in Klump et al., 2013

Supplemental Table 9 Summary of included studies assessing borderline personality disorder

Reference	Population	Symptom(s)	Timeframe	MC assessment	Symptom assessment	Findings
	<u>Study 1</u> : 226 women	BPD symptoms	1 day	Self-report	PAI-BOR	More BPD symptoms associated with OC use and rising levels of estrogen
DeSoto et al., 2003 ^{165,a}	Study 2: 52 women	BPD symptoms	4 weeks	Self-report; Hormone assays	PAI-BOR	Variability in estradiol related to BPD symptoms (not absolute levels)
	Study 3: 17 women starting OC; 29 women not taking OC	BPD symptoms	8 weeks total (4 before OC, 4 after)	Self-report	PAI-BOR	Higher baseline BPD symptoms associated with increase after taking OC Only women
Eisenlohr-Moul et al., 2015 ^{166,a}	40 women	BPD symptoms	5 weeks	Hormone assays; self-report	PAI-BOR; BSL- 23; MSI-BPD	with high baseline BPD features showed symptom increase when estrogen and progesterone levels changed

Eisenlohr-Moul et al., 2018 ¹⁶⁷	15 women with BPD	Stress reactivity	35 days	Self-report; ovulation test; hormone assays	DRSP; C-PASS; self-report	Symptoms worse in mid- luteal; symptoms peaked in peri- menstrual phase Lowest
Peters et al., 2020 ¹⁶⁸	15 women with BPD	Anger; aggression	35 days	Self-report; ovulation test; hormone assays	DRSP; STAEI- 2; R-PAQ	anger/aggression at ovulation; highest anger/aggression in peri- menstrual phase
Personality Asses Problems; C-PAS	sment Inventory-Bo	rderline Features S nstrual Assessment	cales; OC = oral c	ycle; BPD = borderline ontraceptive; DRSP = STAEI-2 = State-Trait	Daily Record of Sev	verity of

Reference	Population	Symptom(s)	Timeframe	MC assessment	Symptom assessment	Findings
Griffin et al., 1987 ¹⁶⁹	30 women	Daily alcohol use	3 cycles	MMDQ; self- report	Self-report	No effect of cycle; increased drinking in response to menstrual distress
Charette et al., 1990 ¹⁷⁰	30 women at high risk, 52 at low risk for alcoholism	Number, type of alcoholic drink	9 weeks	MMDQ; self- report	Self-report	No effect of cycle
DiMatteo et al., 2012 ¹⁷¹	56 unrestrained, 51 restrained eaters, all who drank at least 7 drinks per week	Daily alcohol use	1 cycle	Self-report	Daily Rating Form	Restrained compared to unrestrained eaters drank less during follicular phase
Martel et al., 2017 ¹⁷²	22 women	Daily alcohol use; binge drinking	35 days	Hormone assays; self-report	Self-report	Drinking and binge drinking highest during ovulation and premenstrually
Joyce et al., 2018 ^{173,a}	94 women	Daily alcohol use; motives for drinking	1 cycle	Hormone assays; self-report	DMQR; self- report	Premenstrual and menstrual drinking associated with negative affect;

Supplemental Table 10a Summary of included studies assessing alcohol use

Hayaki et al., 2020 ¹⁷⁴	168 women with AUD	Daily alcohol use; alcohol cravings	1+ cycles	MMDQ; self- report	Self-report	drinking during ovulation associated with positive affect Greater drinking during menstruation compared to follicular phase; effect of cycle on cravings was moderated by emotional distress
Holzhauer et al., 2020 ^{175,a}	35 women	Daily alcohol use; mood	2 assessments, 2 weeks apart	Hormone assays ele; MMDQ = Moos M	Self-report	Drinking associated with decreased progesterone + negative mood and increased progesterone + positive mood

Note: ^a indicates meeting high-quality evidence criteria. MC = menstrual cycle; MMDQ = Moos Menstrual Distress Questionnaire; DMQR = Drinking Motives Questionnaire-Revised; AUD = alcohol use disorder

Supplemental Table 10b Summary of included studies assessing smoking

Reference	Population	Symptom(s)	Timeframe	MC assessment	Symptom assessment	Findings
Marks et al., 1994 ¹⁷⁶	9 female smokers with LLPDD	Number of cigarettes smoked, alcoholic drinks	2 cycles	Self-report	Daily Rating Form; self- report	Smoking and alcohol use greatest during menstruation
DeBon et al., 1995 ¹⁷⁷	15 female smokers, 15 female nonsmokers	consumed Number of cigarettes smoked; withdrawal symptoms	2 cycles	Self-report	SWSC; CO level; self-report	Withdrawal, smoking highest during menstruation and luteal phase Greater
Perkins et al., 2000 ¹⁷⁸	78 women attempting to quit smoking	Withdrawal symptoms	3 weeks	PAF; self-report	Self-report	withdrawal symptoms following quit attempts during luteal than follicular phase
Snively et al., 2000 ¹⁷⁹	14 female smokers	Number of cigarettes smoked; withdrawal symptoms during ad lib smoking or abstinence	4 assessments across 2 cycles	BBT; Hormone assays; self-report	SJTWQ; CO level; self-report	Smoking highest during luteal phase; no effects of cycle on withdrawal

Carpenter et al., 2008 ^{180,a}	44 women attempting to quit smoking	Smoking abstinence	6 weeks	LH surge test kit; self-report	Self-report; CO level	Greater abstinence following quit attempts during follicular than luteal phase Greater cravings
Gray et al., 2010 ^{181,a}	37 female smokers	Cigarette cravings; physiological withdrawal symptoms	4 assessments across each phase of cycle	LH surge test kit; self-report	QSUB; skin conductance; heart rate	during follicular than luteal phase; no effect of cycle on physiological withdrawal symptoms
Mazure et al., 2011 ¹⁸²	33 female smokers taking bupropion	Smoking abstinence	6 weeks, every other week	Self-report	TLFB; CO level	Significantly higher rates of maintained abstinence when quitting during luteal phase
Schiller et al., 2012 ^{183,a}	98 treatment- seeking female smokers	Number of cigarettes smoked	2 assessments, 2 weeks apart	Hormone assays	Observation; CO level	Lower ratio of progesterone to estradiol associated with
Sakai & Ohashi, 2013 ¹⁸⁴	29 female smokers	Number of cigarettes smoked; craving	1 cycle	BBT; LH surge test kit; self-report	Self-report	greater smoking Smoking highest during luteal phase; cravings highest during luteal phase and menstruation

DeVito et al., 2014 ^{185,a}	45 female, 115 male smokers	Withdrawal, cravings, and subjective effects in response to IV nicotine or saline	1 assessment during either luteal or follicular phase	Hormone assays; self-report	MNWS; DEQ; QSUB	Attenuated responses to nicotine in luteal compared to follicular phase
Goletiani et al., 2015 ¹⁸⁶	17 female smokers	Cigarette cravings and subjective effects	2 assessments across luteal and follicular phases	Hormone assays; self-report	Self-report	Attenuated responses to nicotine in luteal phase in women with high levels of progesterone
Saladin et al., 2015 ^{187,a}	37 female, 53 male smokers	Cigarette cravings after listening to stressful or neutral narratives	1 assessment during luteal or follicular phase	LH surge test kit; self-report	QSUB	No effect of cycle; higher cravings for women in luteal phase compared to men
Carlson et al., 2017 ^{188,a}	125 female smokers	Cigarette cravings following 24 hours of abstinence	2 assessments across follicular and luteal phases	Hormone assays; self-report	CO level; SSS	Greater cravings during follicular than luteal phase
Pang et al., 2018 ^{189,a}	80 female smokers receiving either nicotine patch or placebo	Cigarette cravings; withdrawal symptoms	3 assessments across 1 cycle	Hormone assays	QSUB; MNWS	Higher progesterone associated with reduced cravings; no effect of cycle on withdrawal symptoms

Note: ^a indicates meeting high-quality evidence criteria. MC = menstrual cycle; LLPDD = late luteal phase dysphoric disorder; SWSC = Smoking-Withdrawal Symptom Checklist; CO = carbon monoxide; PAF = Premenstrual Assessment Form; BBT = basal body temperature; SJTWQ = Shiffman-Jarvick Tobacco Withdrawal Questionnaire; LH = luteinizing hormone; QSUB = Questionnaire of Smoking Urges-Brief; TLFB = Timeline Followback; IV = intravenous; BBT = basal body temperature; MNWS = Minnesota Nicotine Withdrawal Scale; DEQ = Drug Effects Questionnaire; SSS = Subjective State Scale

Supplemental Table 10c Summary of included studies assessing cocaine use

Reference	Population	Symptom(s)	Timeframe	MC assessment	Symptom assessment	Findings
Sofuoglu et al., 1999 ¹⁹⁰	21 female, 23 male smoked cocaine users	Subjective effects of cocaine	1 assessment	Hormone assay	CEQ	Attenuated responses in luteal compared to follicular phase
Evans et al., 2002 ¹⁹¹	11 female smoked cocaine users	Desire for cocaine; subjective effects of cocaine	2 assessments: follicular, midluteal	Hormone assay; self-report	Subjective effects questionnaire	Stronger desire for cocaine and less subjective effects during luteal compared to follicular phase No effect of
Evans & Foltin, 2006 ¹⁹²	11 female, 10 male smoked cocaine users	Desire for cocaine; subjective effects of cocaine	3 assessments: follicular, luteal, follicular + progesterone	Hormone assay; self-report	Subjective effects questionnaire	cycle on desire for cocaine; attenuated subjective effects during follicular phase with progesterone supplement
Collins et al., 2007 ¹⁹³	8 female cocaine users	Subjective effects of cocaine	2 assessments: follicular, luteal	Hormone assay	Subjective effects questionnaire	No effect of cycle
Reed et al., 2011 ¹⁹⁴	10 female smoked cocaine users	Self- administration; subjective	3 assessments: follicular, luteal,	Hormone assay; self-report	Observation; subjective	No effect of cycle

		effects of cocaine	follicular + progesterone		effects questionnaire	
Milivojevic et al., 2016 ¹⁹⁵	17 female, 29 male cocaine users	Cocaine cravings in response to stress	3 assessments across follicular phase	Hormone assay; self-report	CCQ	Higher levels of allopregnanolone were associated with lower cocaine cravings following stressor