

Peripartum Psychiatry

Supporting Family Mental Health During a Critical Time of Development

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Peripartum Psychiatry

All the Usual Things of Psychiatry Only Now You have the Complexity of the Peripartum Period

Introductions



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Disclosures

PI of independent investigator research study of brexanolone and postpartum psychosis funded by Sage Therapeutics

Spouse has stock with Abbvie Labs as part of his retirement portfolio

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Objectives

- Participants will be able to formulate the "risk"/"risk" analysis discussion with patients about any medications their patients may take during pregnancy and with lactation.
- Participants will be able to increase knowledge of what is known (and not known) of some newer and older medications in pregnancy (e.g., LAI, Lithium).
- Participants will increase knowledge base about the use of brexanolone and supplements (e.g., probiotics).

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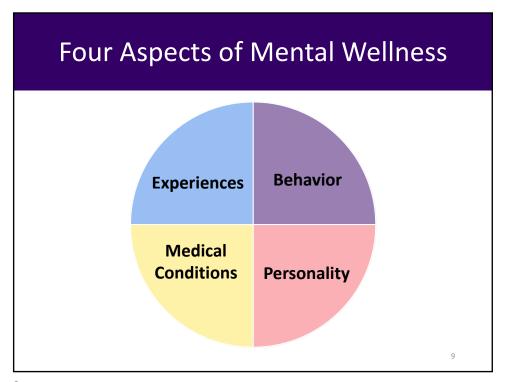
EH is a 38-year-old who is 2-months postpartum with her first baby. At her well child visit, she complains of pain and latch issues in breastfeeding, and is also found to have an Edinburgh score of 18. The pediatrician referred the patient to a lactation consultant, encouraged sleep hygiene/self-care strategies, and encouraged EH to follow up with her existing therapist. In addition, her Ob/Gyn started her on an SSRI antidepressant.

At 6-months postpartum, EH tells the pediatrician that she was discharged from OB care and now sees her PCP. She does not feel that her PCP is effective in addressing her postpartum mood symptoms. She says she is having upsetting images of a scissors in her son's head. EH is reluctant to say she now feels more irritable, "out of control," and "explosive;" and as this has worsened she has started increasing her alcohol intake to get to sleep.

Her additional concerns include: financial strain, marriage strain, strain with her mother who has bipolar disorder, hair loss, and low sex drive. She has tried to reconnect with her therapist, but has not been successful in getting an appointment. EH is motivated to build a care team, but does not know where to go for support.







"Normal" Psychological Changes in Peripartum

- First Trimester: Mild anxiety (ambivalence, worry), changes in energy, appetite, libido
- Third Trimester: increased anxiety about labor and delivery, impending role change
- Pregnancy and Postpartum:
 - Mild forgetfulness, confusion, distractibility
 - Worry: health of baby, responsibilities, finances etc.
 - Heightened awareness of prior relationships, losses, esp. family of origin



Hormonal Changes in Peripartum Internal environment External environment • Hormonal fluctuations • Body • Estrogen + Progesterone - rise • Mind dramatically in 3rd trimester, • Relationships fall even more dramatically at • Work parturition • Sleep Oxytocin – rises during labor role in attachment, lactation Hyperactive HPA Axis with high plasma cortisol Brain Circuitry Changes • Increased neuronal activity increased vigilance and protectivity More sensitive reward and motivation circuitry increased sensitivity to infant cues Postpartum

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The Perinatal Depression "Treatment Cascade"

50-70% of cases go undetected

85% of cases go without treatment

91-93% of cases are not adequately treated

95-97% of cases are without remission of symptoms

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Perinatal/Postpartum Anxiety is the most common PMAD and often goes undiagnosed.

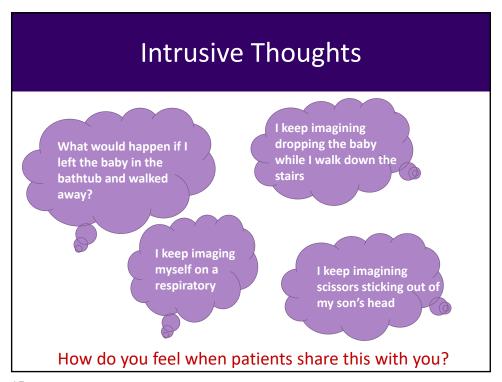
Symptoms to look for include:

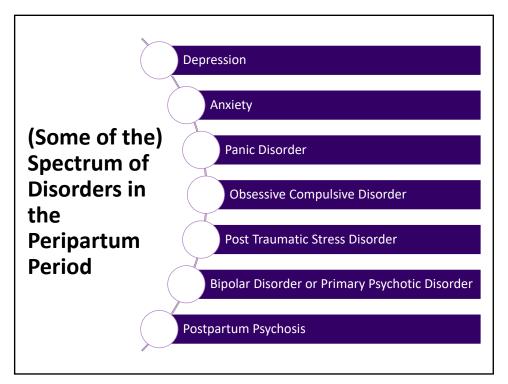
- Excessive worrying
- Racing thoughts
- · Feelings of dread
- Feeling overwhelmed
- Obsessive thoughts
- Rapid heartbeat

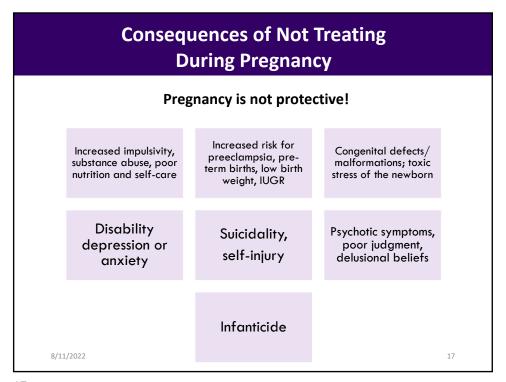
Symptoms that often are mistaken as *normal* during pregnancy and postpartum:

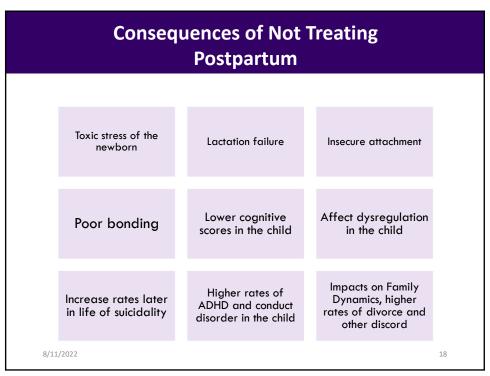
- · Difficulty concentrating
- · Trouble sleeping
- · Changes in eating/sleeping patterns
- Sense of memory loss
- · Nausea, dizziness, hot flashes
- Irritability
- Persistent fatigue

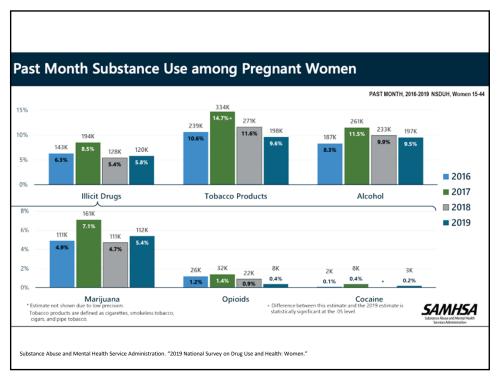
1 Misri, S., Abizadeh, J., Sanders, S., & Swift, E. 2015

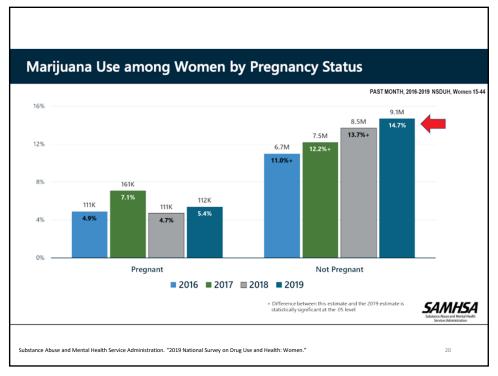












PMADs and Families

- Partners are affected by postpartum depression by supporting and coping with their partner's symptoms:
 - Confusion
 - Anger
 - Fear
 - Feeling overwhelmed
- May also experience depression:
 - 1 in 10 fathers experience depression in the first year

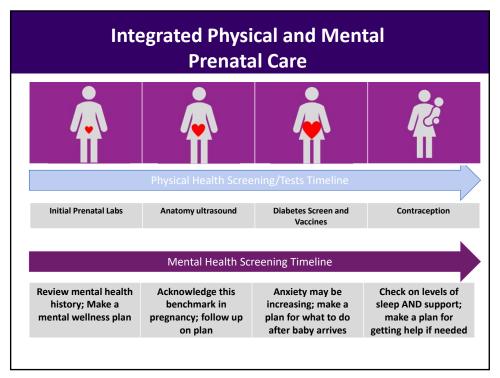


Paulson & Bazemore (2010); Kessler et al. (2003)

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What's to be done?

- Screening by providers who know how to treat or where to make appropriate referrals
- Initiate or optimize treatment for identified patients
- Treatment to remission



Psychotropic Medications

- Goal minimization of risk
- Risk of untreated maternal illness on the mother and the fetus vs. Risk of medications in pregnancy
- No decision is risk-free
- Use lowest effective dose but goal is symptom remission
- Remember that may need higher doses as pregnancy progresses due to increased plasma volume and rate of clearance→BUT THIS IN PART DEPENDS ON RELATED HEPATIC CYP

Risk of Medication Exposure in Pregnancy

- All medications transmit to the placenta in varying amounts; no psychotropic is FDA approved for use in pregnancy
- Though FDA currently changing from "Categories" (i.e. C, X) to defining risks/benefits of medications
- Concerns of patients include:
 - Risk of malformations (beyond 2-4% risk in general population off medication)
 - · Risk of toxicity and/or withdrawal
 - Risk of long-term developmental outcomes
- Mothertobaby.org



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Risk of Medication Exposure in Breastmilk

- Exposure in breastmilk less than through placenta
- If starting new medication postpartum, most antidepressants/antianxiety medications (SSRIs are first-line) are compatible with breastfeeding and felt to be safe
 - Sertraline (Zoloft) is likely negligible into milk at doses of 100 mg and less
- LACTMED database from NIH



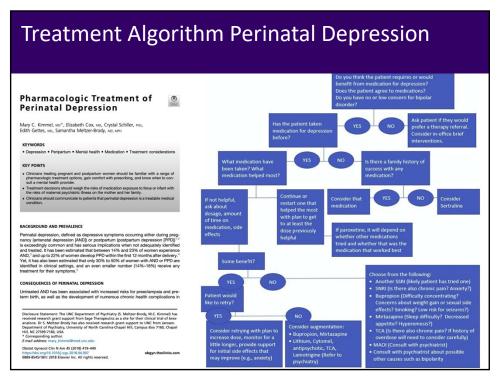
Psychopharmacology

- You may have heard that "Preferred medications during the perinatal period include sertraline and citalopram. Breastfeeding is encouraged with sertraline as preferred medication."
- However, if <u>woman is stable on another AD</u>, switching is not recommended
- Could lead to relapse (don't know if new AD will work) and exposure to more meds



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SSRIs						
Generic Names	Trade Name	Dosage Range	Unique Considerations			
Sertraline	Zoloft	50-200 mg, increase by 25 mg or 50 mg for very anxious patients 12.5 mg	Due to half-life, small, even negligible amounts transmitted into breast milk			
Fluoxetine	Prozac	20-80 mg, increase by 10 mg or 20 mg	Longer half-life → withdrawal less likely if doses are missed, but also longer to get out of the system if there are adverse effects, likely greater amount in breast milk, thought to be more activating			
Citalopram	Celexa	20-40 mg, increase by 10 mg or 20 mg	FDA Drug Safety Communication that > 40 mg could result in life-threatening heart arrhythmia.			
scitalopram	Lexapro	10-20 mg, increase by 5 mg or 10 mg				
Paroxetine Paxil		10-60 mg, increase by 10 mg or 20 mg, CR in 12.5 mg doses	Older data demonstrated potential for a 1.5 to 2.0 fold increase risk in cardiovascular malformations, leading to a 2005 warning. Recent data show no consistent information to support teratogenic risks			
luvoxamine	Luvox	25-150 mg, increase by 25 mg	More often used for treatment of obsessive compulsive disorder			

SNRIs

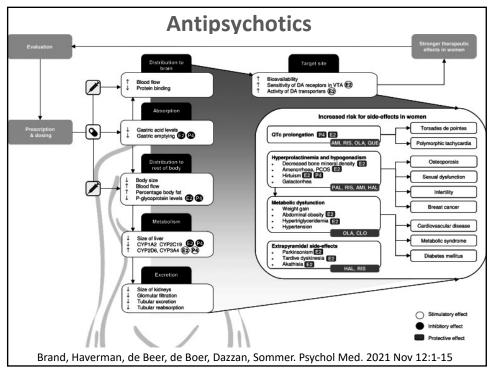
Generic	Trade	Dosage	Unique Considerations/Indications
Venlafaxine	Effexor, Effexor XR	37.5-375mg, increase by 37.5mg	Older and most data available
Duloxetine	Cymbalta	20-120mg, increase by 20mg-30mg	

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Other Antidepressants

Generic	Trade	Dosage	Unique Considerations/Indications
Buproprion	Wellbutrin SR, Wellbutrin XL, Zyban, Aplenzin, Forfivo XL	150-450 mg, increase by 150 mg, SR BID dosing	Not to exceed 450 mg due to increased risk of seizure. Helpful in smoking cessation and even evidence for lowering prematurity risk for smokers. May help ADHD and other addictive disorders, such as overeating.
Mirtazapine	Remeron	15-45 mg, increase by 7.5 mg, 15 mg	Antiemetic effects in addition to antidepressant and anxiolytic effects, and helps with sleep and decreased appetite
Trazodone	Oleptro, Desyrel, Serzone	50-400 mg, ½ tablet (25 mg)-100 mg for sleep	Sleep aid at lower dosages, higher dosages more antidepressant affects. No differences in the rate of major malformations

Mood Stabilizers						
Generic	Trade	Dosage	Unique Considerations/Indications			
Lamotrigine	Lamictal	>50mg, start at 25mg daily and increase by 25mg every 2 weeks (decrease risk of Stevens-Johnson syndrome)	Augmentation in TRD, OCD, possible OCD, mood dysregulation, aggression in BPD (often comorbid with MDD)			
Atypical antipsychotics (aripiprazole, quetiapine, olanzapine)	Abilify, Seroquel, Zyprexa		Inc. likelihood of remission when used for augmentation; when controlling for other factors exposure does not associate with increased risk OB complications except GDM			
Lithium LITHIATED LITHIATED LETHIATED LE		Increase by 150mg or 300mg, therapeutic blood level 0.4-0.8 (depression) and 0.8-1.2 (mood stabilization)	Monotherapy and, augmentation MDD< also bipolar disorder and PPP			



ole 1. Summary of	drug-specific pharm	Pharmacokinetics	fects and overdosi	ing risks in women Risk for side-effects					
	Pharmacokinetics			Risk for side-effects Metabolic dysfunction					
	Metabolism ¹	CYP-activity in females as compared to males ^{2,3,4,5,6}	P-gp binding ^{7,8,9}	QTc prolongation	Prolactin elevation	EPS and akathisia ¹⁰	Weight gain ¹⁰	Lipid/glucose abnormalities ¹²	Risk of overmedicating women as compared to men
misulpride	>90% renal excretion		++/+++	+++10	+++10,12	+10	+	++12	**
ripiprazole	CYP2D6, CYP3A4	(+), (+ +)	++	- 10	_10,12	-/+10	+10	_12	+
Chlorpromazine	CYP1A2°, CYP2D6	(), (+)	+	++ ¹¹ ¥	+ ¹⁰ ¥	++ ¹⁰ ¥	+++10	+++ ¹² ¥	**
Clozapine	CYP1A2°, CYP2C19°, CYP3A4	(), (-), (++)	+	++ ¹¹ ¥	_10,12	_10	+++10	+++13	***
lupentixol	CYP2D6°	(+)	?	+ ¹¹ \psi	-10	+++10	++10	?	+
Haloperidol	CYP2D6°, CYP3A4	(+), (+ +)	+	+ ¹⁰ Ψ	++10.12	+++10	+10	_13	+
urasidone	СҮРЗА4	(+ +)	?	_10	+/++10,12	++10	+10	_13	+/-
Dlanzapine	CYP1A2°	()	++/+++	++10	+10,12	_10	+++10	+++13	+++
aliperidone	CYP3A4, UGT1A1, 60% renal excretion	(++), (+)	++/+++	₄ 10	+++ ^{10.12}	+10	+10	++13	**
Quetiapine	CYP3A4, CYP2D6°	(++) , (+)	-/+	++10	_10.12	_10	+++10	++13	-
tisperidone	CYP2D6°, CYP3A4	(+), (++)	****	++10	+++10.12	++10	++10	+13	**
iulpiride	Renal excretion only		++/+++	++	+++ ¹² Ψ	++ ¹⁰ ¥	++10	?	++
uclopenthixol	CYP2D6	(+)	?	?	?	+++10	+10	?	+



Brexanolone (Zulresso)

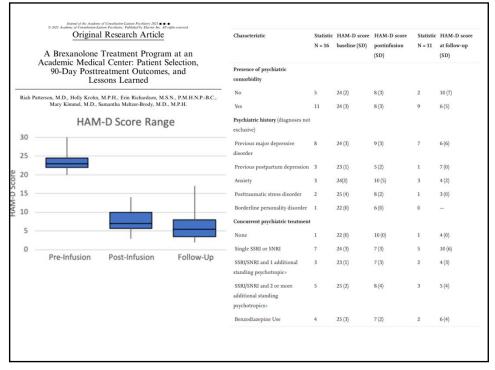
- 1st drug FDA approved specifically for Postpartum Depression
 - Inpatient admission required
- Consider for...
 - Moderate to severe PPD
 - Symptom onset during the 3rd trimester or within 6 months postpartum
 - May have co-morbidities such as anxiety, OCD, PTSD
 - Symptom onset during the 3rd trimester or within 6 months postpartum

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Brexanolone (Zulresso)

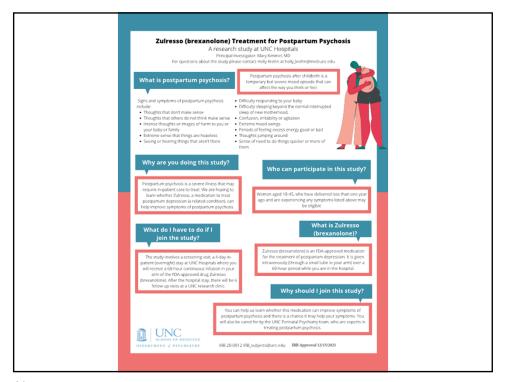
- UNC Perinatal Psychiatry Program offers Zulresso (Brexanolone)
- 60-hour infusion on medical unit
- Only available through a restricted program called Zulresso REMS (Risk Evaluation and Mitigation Strategy), due to risk of excessive sedation or sudden loss of consciousness during administration
- Costly; requires insurance approval, Medicaid does cover in NC



Brexanolone (Zulresso)

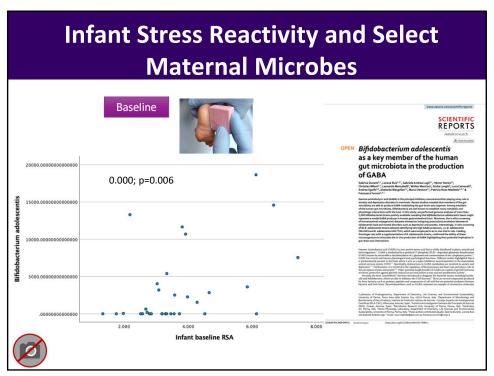
Exclusion criteria:

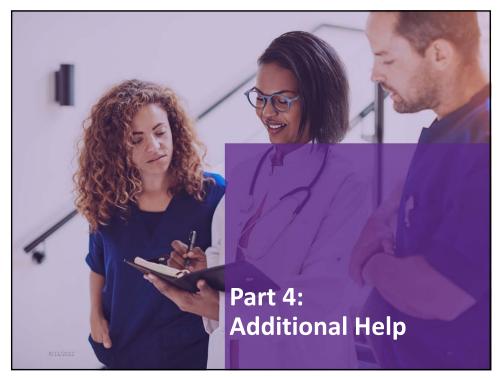
- Bipolar disorders, psychotic disorders, current substance abuse disorders
- Active SI with plan or intent
- Pregnant
- Renal impairment (eGFR < 15 mL/min/1.73m²)











NC MATTERS: What are our goals?

Patients

- Receive screening during and after pregnancy
- Have timely access to mental health services
- Continue care in their medical homes

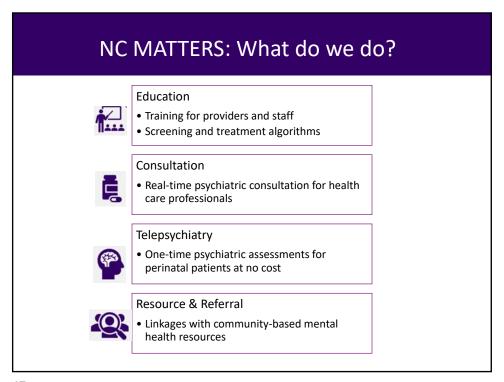
Providers

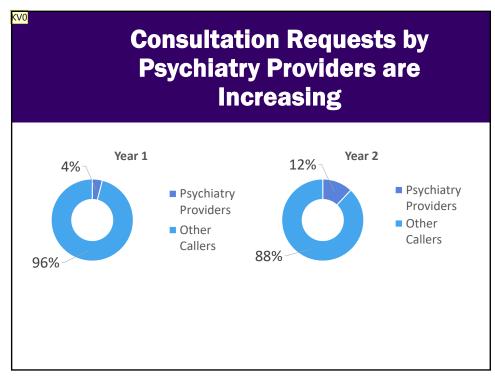
- Increase
 confidence
 addressing
 perinatal mental
 health and
 substance use
- Provide satisfactory interprofessional collaboration model

Health Care Systems

- Reduce unnecessary referrals & missed appointments
- Integrate care with other health conditions and SDoHs
- Reduce immediate need for a higher level of care

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Mary can you adjust the key to better explain the provider vs. non-ob? The two bar KV0 graphs may be confusing Katrina Velasquez, 2022-05-24T17:46:15.371





