

# Perinatal Mental Health – Addressing Maternal Morbidity & Mortality, Promoting Equity, and Advancing Intergenerational Health

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### **Conflict of Interest Disclosure**

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- Lead Engagement Liaison for the Massachusetts Child Psychiatry Access
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- Member/Author, AIM PMHC Patient Safety Bundle
- Lead Faculty, IHI PMHC Patient Safety Bundle Change Package
- MPI, CDC, CDC Foundation, NIMH & ACOG Funding
  - PMH Toolkit
  - PMH e-module
  - PMH & OB integration implementation guide

## **Objectives**

#### The learning objectives are:

- describe the **Patient Care Pathway** to be followed to address perinatal mental health conditions.
- determine how to screen and evaluate illness severity, including how to assess intrusive thoughts and risk of harm to self and/or baby.
- recognize the risks of untreated perinatal mental health conditions and the importance of providing evidence-based treatment
- increase awareness of **resources** designed to facilitate obstetric care clinicians in addressing perinatal mental health conditions

## Perinatal mental health conditions are one of the most common complications of pregnancy & postpartum

1 in 5
women around the world will suffer from a maternal mental health complication



### Perinatal mental health affects mom, child, and family

Preterm delivery Low birth weight NICU admissions Cognitive delays
Motor & Growth issues
Behavioral problems
Mental health disorders







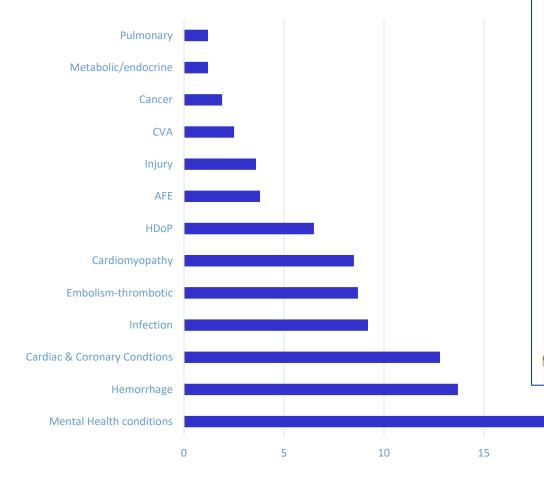


Less engagement in medical care Smoking & substance use Lactation challenges
Bonding issues
Adverse partner relationships

Mental health conditions are the lead cause of pregnancy







Pregnancy-Related Deaths: Data from Maternal Mortality Review Committees in 36 US States, 2017–2019



Susanna Trost, MPH; Jennifer Beauregard, MPH, PhD; Gyan Chandra, MS, MBA; Fanny Njie, MPH; Jasmine Berry, MPH; Alyssa Harvey, BS; David A. Goodman, MS, PhD

#### **Key Findings**

- Pregnancy-related deaths occurred during pregnancy, delivery, and up to a year postpartum.
- The leading cause of pregnancyrelated death varied by race and ethnicity.
- Over 80% of pregnancy-related deaths were determined to be preventable.

Maternal Mortality Review Committees (MMRcs) are multidisciplinary committees that convene at the state or local level to comprehensively review deaths during or within a year of pregnancy (pregnancy-associated deaths). MMRcs have access to clinical and nonclinical information (e.g., vital records, medical records, social service records) to more fully understand the circumstances surrounding each death, determine whether the death was pregnancy-related, and develop recommendations for action to prevent similar deaths in the future.

Data on 1,018 pregnancy-related deaths among residents of 36 states from 2017–2019 were shared with CDC through the Maternal Mortality Review Information Application (MMRIA).

Table 1. Characteristics of pregnancy-related deaths, data from Maternal Mortality Review Committees in 36 US States, 2017–2019 (N=1,018)\*

	N	%
Race and ethnicity		
Hispanic	144	14.4
non-Hispanic American Indian or Alaska Native	9	0.9
non-Hispanic Asian	34	3.4
non-Hispanic Black	315	31.4
non-Hispanic Native Hawaiian and Other Pacific Islander	6	0.6
non-Hispanic White	467	46.6
non-Hispanic other/multiple races	27	2.7
Age at death (years)		
15-19	29	2.9
20-24	155	15.3
25-29	227	22.4
30-34	297	29.3
35-39	225	22.2
40-44	70	6.9
≥45	10	1.0
Education		
12 <sup>th</sup> grade or less; no diploma	135	13.7
High school graduate or GED completed	396	40.1
Some college credit, but no degree	192	19.4
Associate or bachelor's degree	218	22.1
Advanced degree	47	4.8

<sup>\*</sup>Race or ethnicity was missing for 16 (1.6%) pregnancy-related deaths; age was missing for 5 (0.5%) pregnancy-related deaths; education was missing for 30 (2.9%) pregnancy-related deaths.

National Center for Chronic Disease Prevention and Health Promotion
Division of Reproductive Health

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#### MATERNAL HEALTH

By Susanna L. Trost, Jennifer L. Beauregard, Ashley N. Smoots, Jean Y. Ko, Sarah C. Haight Tiffany A. Moore Simas, Nancy Byatt, Sabrina A. Madni, and David Goodman

#### **Preventing Pregnancy-Related Mental Health Deaths: Insights** From 14 US Maternal Mortality Review Committees, 2008-17

nor: 10 1377/Milweff 2021 00615 HEALTH AFFAIRS 40 NO. 10 (2021): 1551-1559 02021 Project HOPE The People to People Health Foundation, Inc.

ABSTRACT Each year approximately 700 people die in the United States from pregnancy-related complications. We describe the characteristics of pregnancy-related deaths due to mental health conditions, including substance use disorders, and identify opportunities for prevention based on recommendations from fourteen state Maternal Mortality Review Committees (MMRCs) from the period 2008-17. Among 421 pregnancyrelated deaths with an MMRC-determined underlying cause of death, 11 percent were due to mental health conditions. Pregnancy-related mental health deaths were more likely than deaths from other causes to be determined by an MMRC to be preventable (100 percent versus 64 percent), to occur among non-Hispanic White people (86 percent versus 45 percent), and to occur 43-365 days postpartum (63 percent versus 18 percent). Sixty-three percent of pregnancy-related mental health deaths were by suicide. Nearly three-quarters of people with a pregnancyrelated mental health cause of death had a history of depression, and more than two-thirds had past or current substance use. MMRC recommendations can be used to prioritize interventions and can inform strategies to enable screening, care coordination, and continuation of care throughout pregnancy and the year postpartum.

take the lives of approximately 700 people in the US each year.1 A previous report on pregnancy-related deaths reviewed by fourteen state (MMRCs) found that mental health conditions perinatal care, and the American Academy of were a leading underlying cause of death, accounting for nearly 9 percent of such deaths.2

Rates of depressive disorder diagnoses during delivery hospitalizations increased from 4.1 per 1,000 in 2000 to 28.7 per 1,000 in 2015.3 Cooccurring depression, anxiety disorder, and substance use disorder (SUD) are also common ous effects on maternal and infant outcomes. among women of reproductive age.4 Profession-

regnancy-related complications mendations to address screening and treatment for perinatal depression.5-7 The Council on Patient Safety in Women's Health Care developed a consensus statement to guide the implementation of screening, intervention, referral, and Mortality Review Committees follow-up care of mental health conditions in Pediatrics recommends screening for postpartum depression during well-child visits.9 Yet barriers to care limit access to and use of mental health services among pregnant and postpartum people.10 Untreated perinatal mood and anxiety disorders have high societal costs11 and deleteri-

State and local MMRCs are uniquely posial and clinical organizations have issued recom- tioned to evaluate the events in a pregnant or

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OCTOBER 2021 40:10 HEALTH AFFAIRS

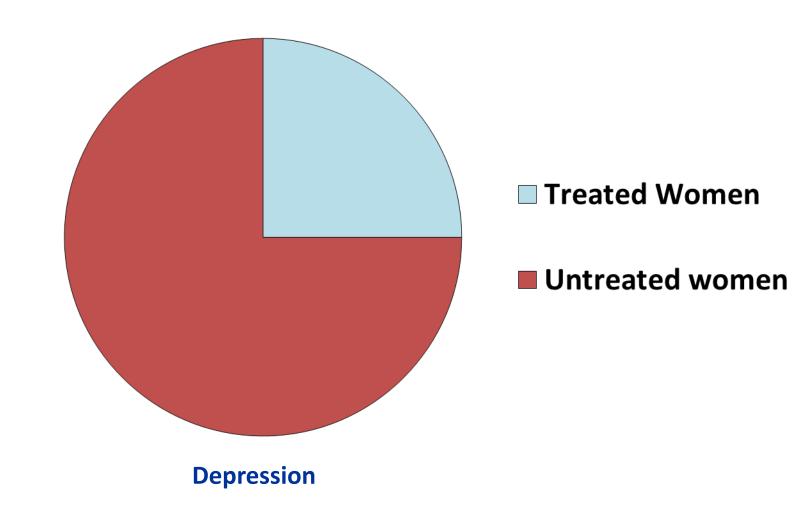
100%

of pregnancy-related mental health deaths were determined to be preventable

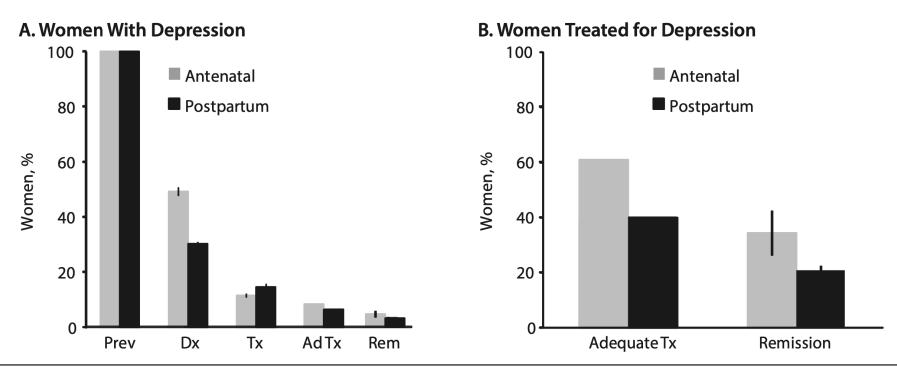




## Perinatal mental health conditions are underdetected and under-treated



### Percentage of US Women At Each Step of the Perinatal Depression Treatment Cascade



Abbreviations: Ad Tx = adequate trial of treatment, Dx = diagnosis, Prev = prevalence, Rem = remission, Tx = treatment

The health care system needs to change to address PMH so perinatal individuals can get the help they need and deserve



## Professional Societies and Policy Makers Recognize This as a Significant Public Health Issue



















# Detection through screening alone is not associated with improved mental health outcomes



## Understanding the Patient Care Pathway is critical to addressing PMH conditions

## Understanding the Patient Care Pathway is critical to addressing PMH conditions



#### **Detection:**

- Screening: how to detect if a patient has symptoms or is at risk for developing a mental health condition
- **Engagement:** how to focus on patients' interests and needs, using a strengths-based approach, to maximize their participation in care

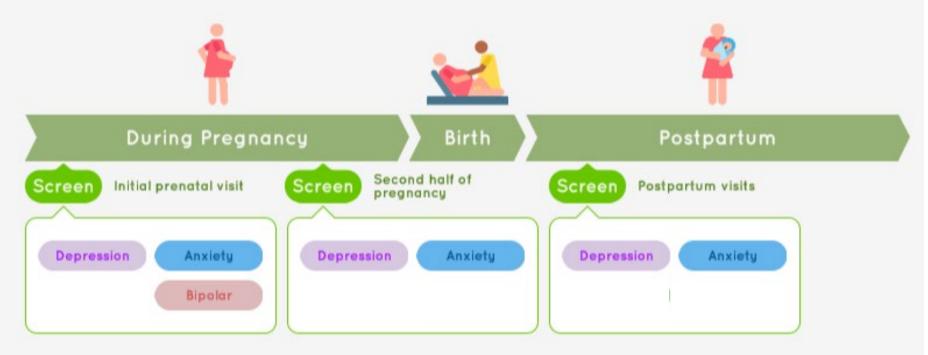
ACOG recommends that everyone receiving well-woman, prepregnancy, prenatal, and postpartum care be screened for depression and anxiety using standardized validated instruments.

ACOG recommends that screening for perinatal depression and anxiety occur at the initial prenatal visit, later in pregnancy, and at postpartum visits.

ACOG recommends that mental health screening be implemented with systems in place to ensure timely access to assessment and diagnosis, effective treatment, and appropriate monitoring and follow-up based on severity.

ACOG recommends screening for bipolar disorder before initiating pharmacotherapy for anxiety or depression, if not previously done.

### When to Screen



Given these recommendations and the prevalence of mental health conditions in the perinatal period, Lifeline for Moms recommend screening for depression, bipolar disorder, anxiety, and PTSD at these time points.

## Validated screening instruments exist for perinatal mental health conditions





Felt numb or detached from others, activities, or your surroundings



#### **Depression PHQ9 or EPDS**

### **Anxiety**

GAD7 or EPDS subscale #3-5

**PTSD PC-PTSD** 

**Bipolar Disorder MDQ** or CIDI

#### The Patient Health Questionnaire (PHQ-9)

Patient Name	e Date of Visit			
Over the past 2 weeks, how often have you been bothered by any of the following problems?	Not At all	Several Days	More Than Half the Days	Nearly Every Day
Little interest or pleasure in doing things	0	1	2	3
2. Feeling down, depressed or hopeless	0	1	2	3
<ol> <li>Trouble falling asleep, staying asleep, or sleeping too much</li> </ol>	0	1	2	3
4. Feeling tired or having little energy	0	1	2	3
5. Poor appetite or overeating	0	1	2	3
<ol><li>Feeling bad about yourself - or that you're a failure or have let yourself or your family down</li></ol>	0	1	2	3
7. Trouble concentrating on things, such as	1	1		

reading the newspaper or watching tele-

8. Moving or speaking so slowly that other people could have noticed. Or, the oppobeing so fidgety or restless that you have been moving around a lot more than us.

9. Thoughts that you would be better off d or of hurting yourself in some way

Generalized Anxiety Disorder 7-item (GAD-7) scale

Over the last 2 weeks, how often have you been bothered by the following problems?	Not at all sure	Several days	Over half the days	Nearly every day
Feeling nervous, anxious, or on edge	0	1	2	3
2. Not being able to stop or control worrying	0	1	2	3
3. Worrying too much about different things	0	1	2	3
4. Trouble relaxing	0	1	2	3
5. Being so restless that it's hard to sit still	0	1	2	3
6. Becoming easily annoyed or irritable	0	1	2	3
<ol> <li>Feeling afraid as if something awful might happen</li> </ol>	0	1	2	3
Add the score for each column	+	+	+	

Edinburgh Postnatal	Depression Scale (EPDS)	
ame:	Address:	e it for you to do your work, take
our Date of Birth:		e it for you to do your work, take
aby's Date of Birth:	Phone:	

As you are pregnant or have recently had a baby, we would like to know how you are feeling. Please check the answer that comes closest to how you have felt IN THE PAST 7 DAYS, not just how you feel today.

Here is an example, already completed

I have felt happy: T bbΔ

or assessing generalized anxiety

Yes, all the time

Yes, most of the time

No, not very often

Please complete the other questions in the same way.

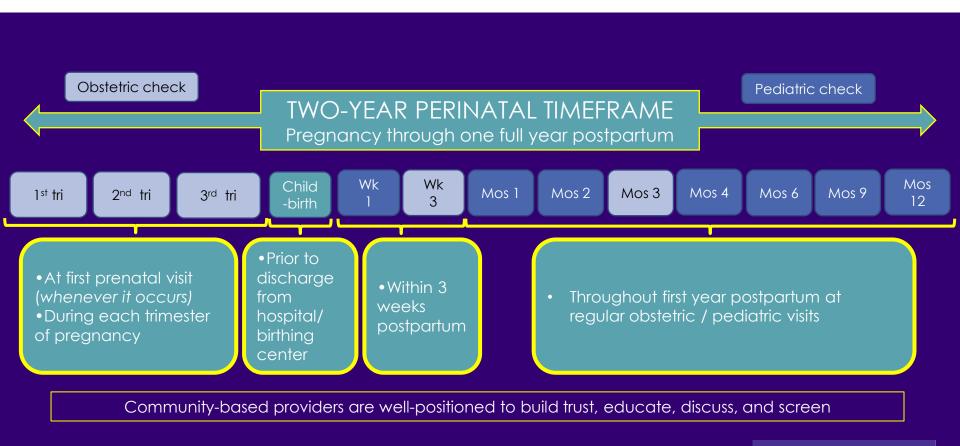
□ No, not at all In the past 7 days

- ings have been getting on top of me Yes, most of the time I haven't been able to cope at all Yes, sometimes I haven't been coping as well as usual
- I have been so unhappy that I have had difficulty sleeping

past month, you: Have had nightmares about it or thought about it when you did not want to? Tried hard not to think about it or went out of your way to avoid situations that reminded you of it? Were constantly on guard, watchful, or easily startled?

MATERIAL DISCOURTS OF THE STATE		_
THE MOOD DISORDER QUESTIONN	AIR	E
		_
Instructions: Please answer each question to the best of your a	bility.	
Has there ever been a period of time when you were not your usual self and	YES	NO
you felt so good or so hyper that other people thought you were not your normal self or you were so hyper that you got into trouble?	0	0
you were so irritable that you shouted at people or started fights or arguments?	0	0
you felt much more self-confident than usual?	0	0
you got much less sleep than usual and found you didn't really miss it?	0	0
you were much more talkative or spoke much faster than usual?	0	0
thoughts raced through your head or you couldn't slow your mind down?	0	0
you were so easily distracted by things around you that you had trouble concentrating or staying on track?	0	0
you had much more energy than usual?	0	0
you were much more active or did many more things than usual?	0	0
you were much more social or outgoing than usual, for example, you telephoned friends in the middle of the night?	0	0

## DRAFT FRAMEWORK FOR PMH EDUCATION & SCREENING





### SCREENING RATIONALE

At first prenatal visit (whenever it occurs)

- Obtain baseline
- 1/3 of those experiencing PPD enter pregnancy with symptoms

During each trimester of pregnancy

- Build trust, reduce stigma, create safe relationship
- 1/3 of those experiencing PPD start symptoms during pregnancy

Prior to discharge from hospital / birthing center

- Birth may be first interaction with medical provider
- Opportunity for educating new parents and family members

Within 3 weeks postpartum

- Baby Blues resolve by 2-3 weeks
- Peak onset of postpartum psychosis

Throughout first year postpartum

- Peak onset of PMH disorders is 3-6 months postpartum
- Peak incidence of suicide is 6-9 months postpartum



## Understanding the Patient Care Pathway is critical to addressing PMH conditions



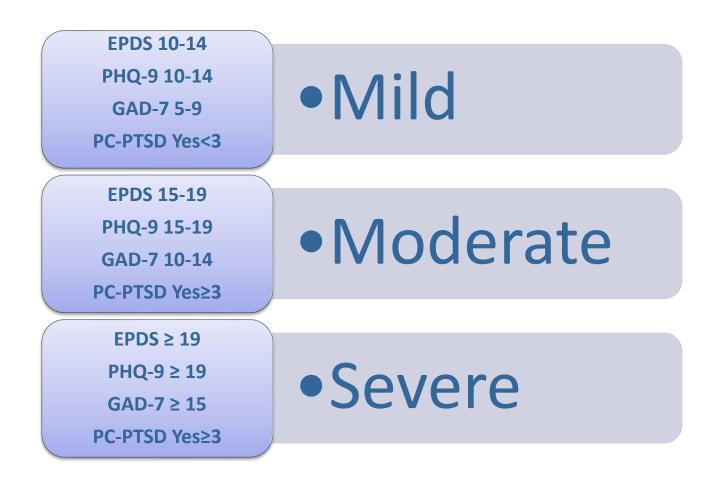
#### **Assessment:**

- Differential diagnosis: how to distinguish mood disorders from each other as co-morbid conditions and differentiate them from other medical illnesses
- Severity and risk: how to look for the key markers of illness severity and how to assess risks for patient and infant

# Considering the differential diagnosis is an important aspect of the assessment

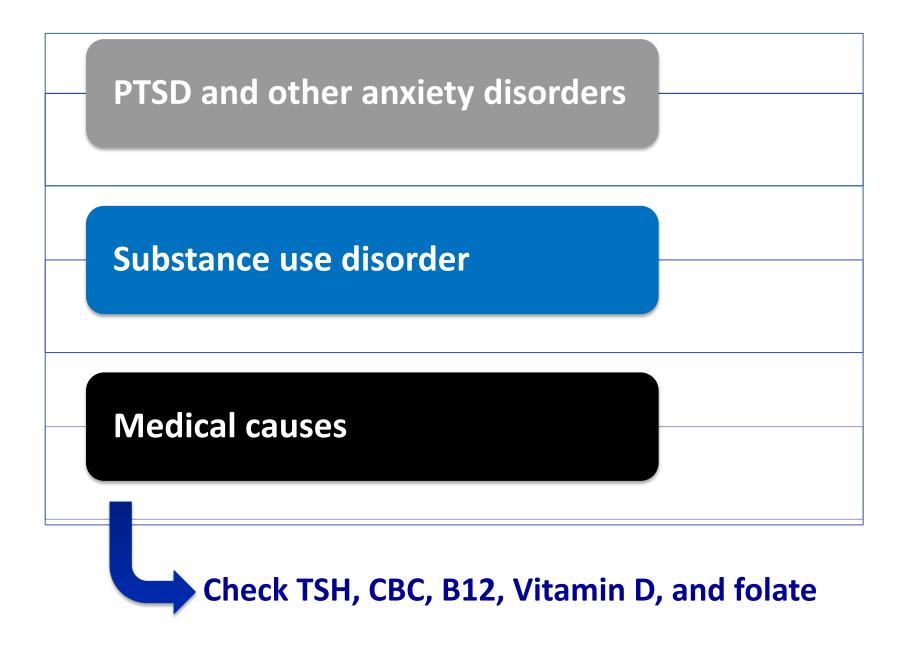


## Score on screeners correlates with illness severity however further assessment is needed



Symptom severity directs treatment intensity

### Assess for co-morbidities and medical causes



## To assess, ask about symptoms and illness severity

- Recent stressors
- Duration of symptoms
- How often symptoms occur
- Feeling of hopeless, helplessness
- Current treatment (medications/therapy)
- Family history
- Prior symptoms
- Previous suicide attempt(s)

- Past psychiatric treatment (medication/therapy)
- Previous psychiatric hospitalizations
- Current suicidal ideation, plan, intent



## For depression, symptoms must occur > 2 weeks



DEPRESSED MOOD AND At least 5 of the following must be present for at least 2 weeks:



Sleep – increased or decreased





•Guilt/worthlessness

Energy – decreased or fatigued



Concentration/difficulty making decisions





Psychomotor activity – increased or decreased

Suicidal ideation

## Generalized Anxiety Disorder (GAD) Symptoms



Excessive anxiety and worry



**Fatigue** 





Increased muscle aches or soreness





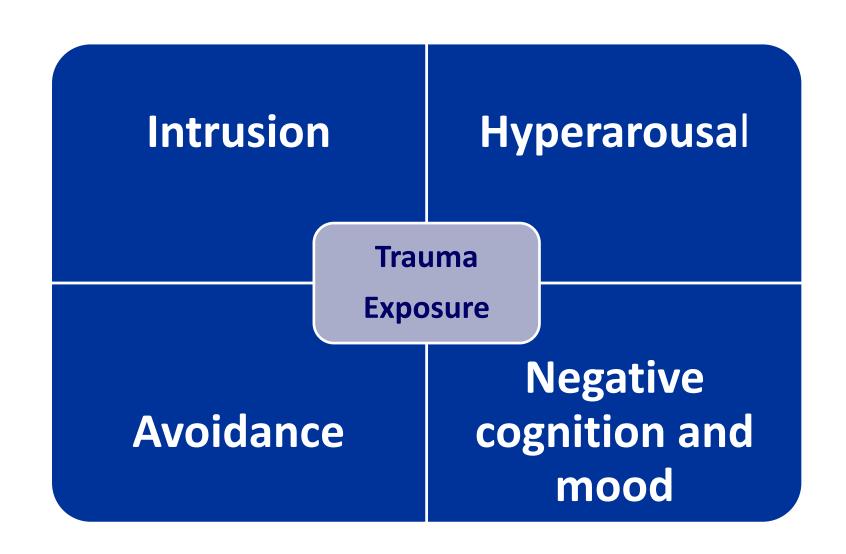
Impaired concentration



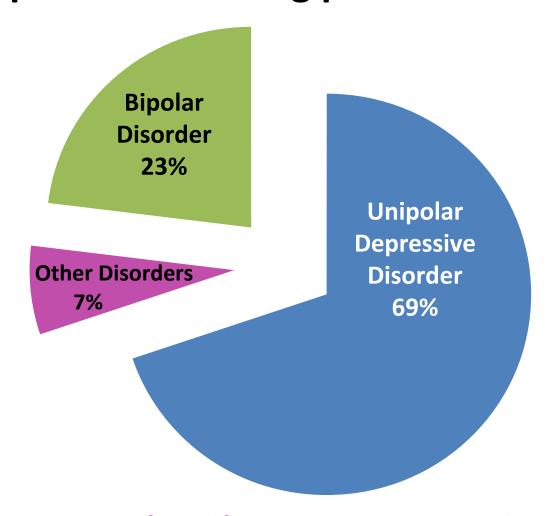
Difficulty sleeping



## Posttraumatic stress disorder hijacks the natural threat detection and response system



# It is imperative to rule out bipolar disorder especially prior to initiating pharmacotherapy



Prescribing unopposed antidepressant can precipitate mania and increase risk of other negative outcomes

# Bipolar disorder increases risk of postpartum psychosis

1-2/1000 women

>70% bipolar disorder

24 hrs – 3 weeks postpartum

Mood symptoms, psychotic symptoms & disorientation

R/o medical causes of delirium

**Psychiatric emergency** 

Increased risk of suicide & infanticide



High Risk

## Suicide Risk Assessment

Lower Risk

**History of suicide attempt** 

High lethality of prior attempts

**Recent attempt** 

**Current plan** 

**Current intent** 

Substance use

Lack of protective factors (including social support)

No prior attempts

If prior attempts, low lethality & high rescue potential

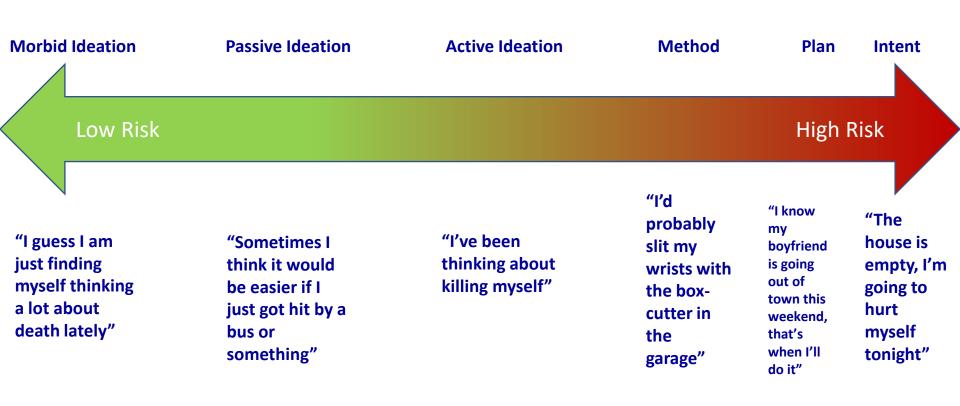
No plan

No intent

No substance use

**Protective factors** 

# Always assess SLAP: Specificity, Lethality, Access, Previous attempts



# Thoughts of harming the baby are not always a psychiatric emergency

### OCD/anxiety/depression

- Good insight
- Thoughts are intrusive and scary
- No psychotic symptoms
- Thoughts cause anxiety

### **Postpartum Psychosis**

- Poor insight
- Psychotic symptoms
- Delusional beliefs or distorted reality present





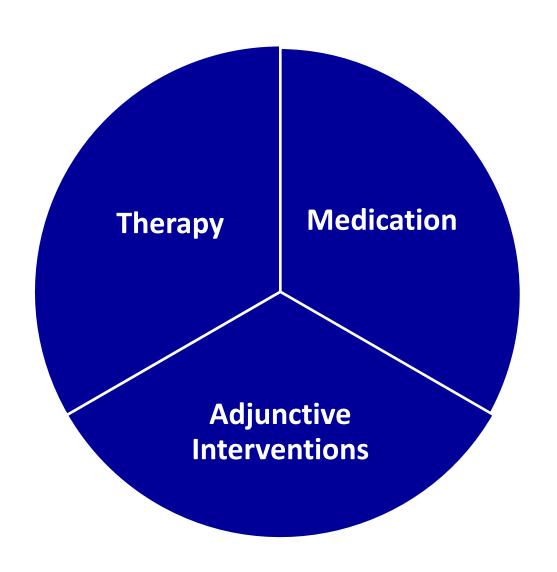
## Understanding the Patient Care Pathway is critical to addressing PMH conditions



#### **Treatment:**

 Evidence-based treatments: how to discuss and provide various treatment and support options, including therapy, medication, and adjunctive interventions

# Three pillars of treatment for perinatal mental health conditions – elucidate preferences



Individual therapy is first-line treatment for mild illness

**Cognitive behavioral therapy** 

Interpersonal psychotherapy

Group, couples, family therapy



ACOG recommends that obstetricians be prepared to **counsel patients** on the benefits and risks of psychopharmacotherapy for perinatal mental health conditions

...and initiate psychopharmacotherapy for perinatal depression or anxiety disorders.

## There is no such thing as no exposure

## Need to balance and discuss the risks and benefits of medication treatment and risks of untreated mental illness





#### How to educate patients about treatment with antidepressants

#### Antidepressant use during pregnancy:

- Does not appear to be linked with birth complications
- Has been linked with small but inconsistent risk of birth defects when –
   taken in the first trimester, particularly paroxetine –
- Has been linked with transient (days to weeks) neonatal symptoms (tachypnea, irritability, insomnia)
- Has inconsistent, overall reassuring, evidence regarding long-term (months to years) neurobehavioral effects on children

### Under-treatment or no treatment of perinatal mental health conditions:

- Has been linked with birth complications
  - Can increase the risk or severity of postpartum depression
- Can make it harder for moms to take care of themselves and their babies
- Can make it harder for moms to bond with their babies
- Can increase risk of mental illness among offspring
- Has been linked with possible long-term neurobehavioral effects on children

SSRIs are among the best studied classes of medications used in pregnancy

Meds may not be indicated

# **Medication Assessment**

Meds indicated

No suicidal ideation

Able to care for self/baby

**Engaged in psychotherapy** 

Depression/Anxiety has improved with psychotherapy in the past

Strong preference and access to psychotherapy

Moderate/severe depression and/or anxiety

**Suicidal ideation** 

Difficulty functioning or caring for self/baby

**Psychotic symptoms present** 

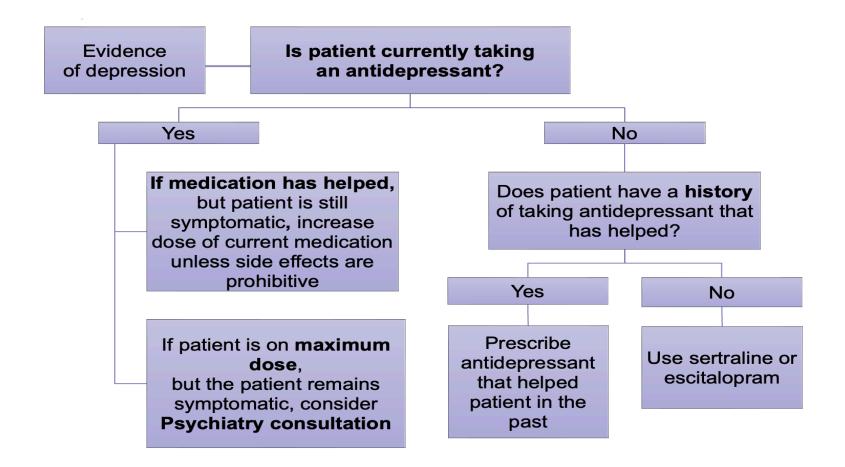
History of severe depression/anxiety and/or suicide ideation/attempts

**Comorbid conditions (Depr + Anx)** 

ACOG recommends that SSRIs be used as first-line pharmacotherapy for perinatal depression and/or anxiety. SNRIs are reasonable alternatives.

Pharmacotherapy should be **individualized** based on prior response to therapy (if applicable). If there is no pharmacotherapy history, **sertraline** or **escitalopram** are reasonable first-line medications.

**#ACSM2023** 



# Start antidepressants at a low dose and increase in small increments every 4 days

SSRIs	Starting & Increment Dose (mg/day)	Target Dose (mg/day)
sertaline (Zoloft)	<b>25</b>	<b>75-200</b>
citalopram (Celexa)	10	20-40
escitalopram (Lexapi	ro) 5	10-20
fluoxetine (Prozac)	10	20-80

Tell women only to increase dose if tolerating
Otherwise, wait until side effects dissipate before increasing

# Same prescribing principles apply during preconception, pregnancy and breastfeeding

Use what has previously worked

**Use EFFECTIVE dose** 

Minimize switching

Monotherapy preferable

Be aware of need to adjust dose with advancing pregnancy

Discourage stopping SSRIs prior to delivery

### Antidepressants are generally well tolerated

### **Temporary**

Nausea Constipation/Diarrhea Lightheaded Headaches



### **Long-term**

Increase in appetite/weight gain
Changes in sexual interest/experience
Vivid dreams/insomnia

Direct patients to take medication with food to decrease side effects

Educate patients about side effects when starting an antidepressant

Side effects often improve after 2 weeks or so

Typically takes a month or more for therapeutic effects



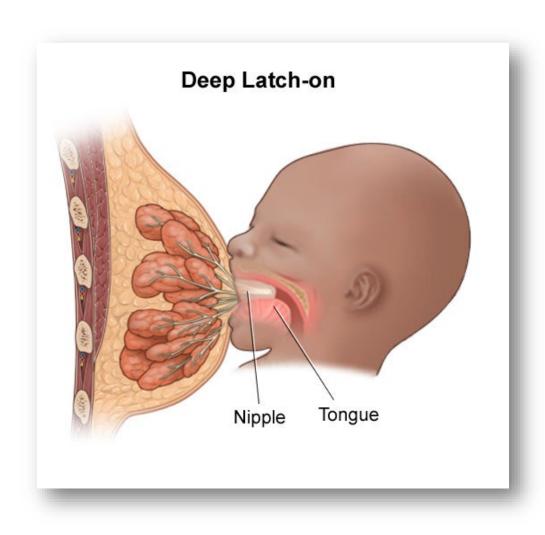
Can take them either in AM or PM depending on effect

# Breastfeeding generally should not preclude treatment with antidepressants



SSRIs and some other antidepressants are considered a reasonable option during breastfeeding

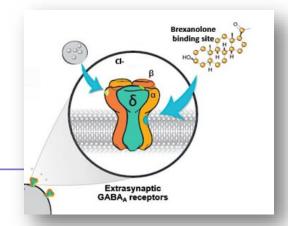
# Sertraline, paroxetine, & fluvoxamine have lowest passage into milk



ACOG recommends against withholding or discontinuing medications for mental health conditions due to pregnancy or lactation status alone.

ACOG recommends consideration of brexanolone administration in the postpartum period for moderate-to-severe perinatal depression with onset in the third trimester or within 4 weeks postpartum.

## BREXANOLONE (Zulresso) Allopregnanolone formulation



#### **BENEFITS**

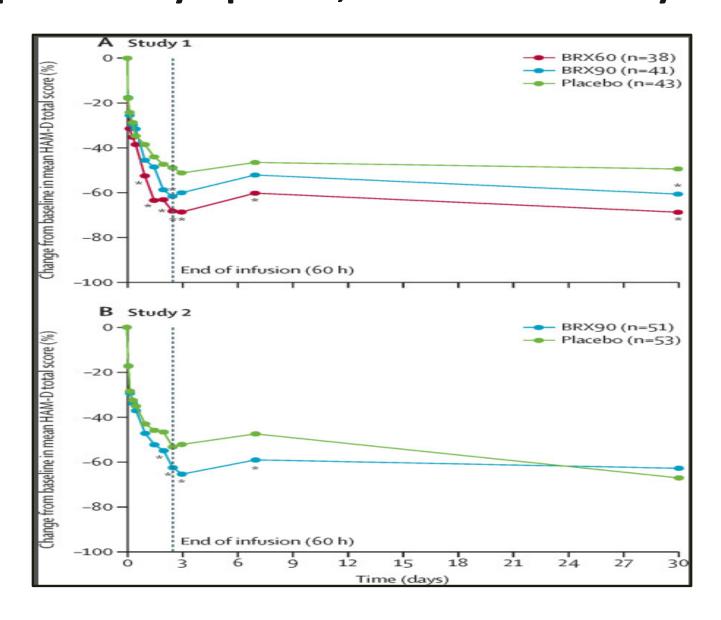
- Large effect size
- Rapid onset of response and remission of symptoms (1-2 days)

#### CONSIDERATIONS

- 60-hour infusion
  - o Requirement for hospitalization
  - o Cost
- Common Side Effects
  - Loss of consciousness
  - Headache
  - o Dry mouth
  - Sedation
  - Dizziness
- No published outcomes > 30 days
- Lactation disruption
- No comparative-effectiveness data with SSRIs

#ACSM2023

# 3 placebo controlled RCTs showed rapid reduction in depression symptoms, durable at 30 days



## Zuranolone for PPD Tx



- FDA approved Aug 2023 for PPD after 2 phase 3 double-blind placebo-controlled RCTs
- GABA<sub>A</sub> receptor positive modulator
- Zuranolone 50 mg PO qPM with fatty meal x 14 day
  - Decreased to 40 mg with CNS depressant effects
  - Start @ 30 mg with severe hepatic or mod-severe renal impairment
  - Adjustments with CYP3a4 inhibitors
  - Avoid with CYP3A4 inducers
- If miss dose, do not double dose in day; complete 14 doses total
- Can be used with SSRIs and SNRIs
- Use effective contraception for ≥ 1 wk after course
- Precautions reference:
  - Impaired ability to drive or engage in other potentially hazardous activities
    - No driving until at least 12h after each dose
    - Avoid other CNS depressants
  - CNS depressant effects including somnolence & confusion
  - Increased suicidal thoughts and behaviors

### Adjunctive interventions can benefit all patients

#### Social Engagement (Identify Sources of Support)

- Partner (re)connection is safe
- Friend connection
- Family connection
- Spiritual/religious connection



#### Personal Engagement (Values congruent activities)

- Self-care
- Pleasurable activities
- Self-kindness
- Meaningful activities



#### Physical Engagement (Body Positive Approach)

- Balanced Nutrition
- Nourishing movement
- Avoidance of substances (e.g. caffeine, nicotine, EtOH, others0
- Managing medical concerns (not just pregnancy)
- Sleep Hygiene



## Offer other adjunctive interventions as indicated

notional	oals for things that are within your control has been shown to help women feel lly well. Your goals should be fairly easy to start. You do not need to do all of these, ne or two to try in the coming weeks.
	<ol> <li>Stay physically active. Make sure you make time to address your basic physical needs, for walking for a certain amount of time each day.</li> </ol>
	During the week, I will spend at leastminutes doing (write in activities) I will try to do these for(minutes each time).
	2. Make time for pleasurable activities. Even though you may not feel as motivated, or get the same amount of pleasure as you used to, commit to scheduling some fun activity each day-for example, doing a hobby, listening to music, or watching a video.
0 Lictur	Things I find pleasurable include:
	During the week, I will spend at leastminutes doing (choose one of more of these to try in the coming week)
	3. Talk or spend time with people who can support you. It's tempting to avoid contact with people when you're down, but everyone needs the support of friends and loved ones. Explain to them how you feel if you can. If you can't talk about it, that's OK - just ask them to be with you, maybe joining you for one of your activities. Ask for/accept help from others, especially during nighttime feedings.
	People I find supportive and helpful include:
	During the week, I will make contact with(name/s) and try to talk with themtimes.
	4. Practice relaxing. For many people, the changes that come with depression- no longer keeping u our usual activities and responsibilities, feeling increasingly sad and hopeless - leads to arwiety. Since physical relaxation can lead to mental relaxation, practicing relaxing is another way to help yourself. Try deep breathing, or a warm bath, or just finding a quiet, comfortable, peaceful place and saying comforting
	things to yourself (like "It's OK.")
	During the next week, I will practice physical relaxation by doing at leasttimes, for at least minutes each time.
<b>)</b>	Simple goals and small steps. It's easy to feel overwhelmed when you're depressed. It can be hard to deal with problems when you're feeling sad and have little energy. Try setting a new goal that is different than above. Try breaking things down into small steps and give yourself credit for each step you accomplish.  The problem is:  My goal is:
	Step 1: Step 2:
	Step 3: Step 4:
-	are experiencing symptoms of depression also have thoughts that they might be better off dead or thoughg themselves. Usually, these thoughts go away once treatment has begun but if these thoughts get worse, if







# Understanding the Patient Care Pathway is critical to addressing PMH conditions



### Follow-Up:

- Follow-up and monitoring: how to follow up with patients, monitor symptoms, and adjust treatment until full remission of symptoms, in a proactive manner
- Ongoing treatment versus discontinuation: how to manage mental health conditions once the illness is in full sustained remission
- **Resources:** guidance documents, toolkits, perinatal psychiatry access lines and apps to help care for perinatal individuals with MH conditions

ACOG recommends that a validated screening tool be used to monitor for response to treatment.

If clinically indicated, the pharmacotherapy dosage should be up-titrated, with the goal of remission of depressive and anxiety symptoms.

# Titrate antidepressant dose until depression/anxiety remits

Reevaluate treatment in 2-4 weeks via screen & clinical assessment

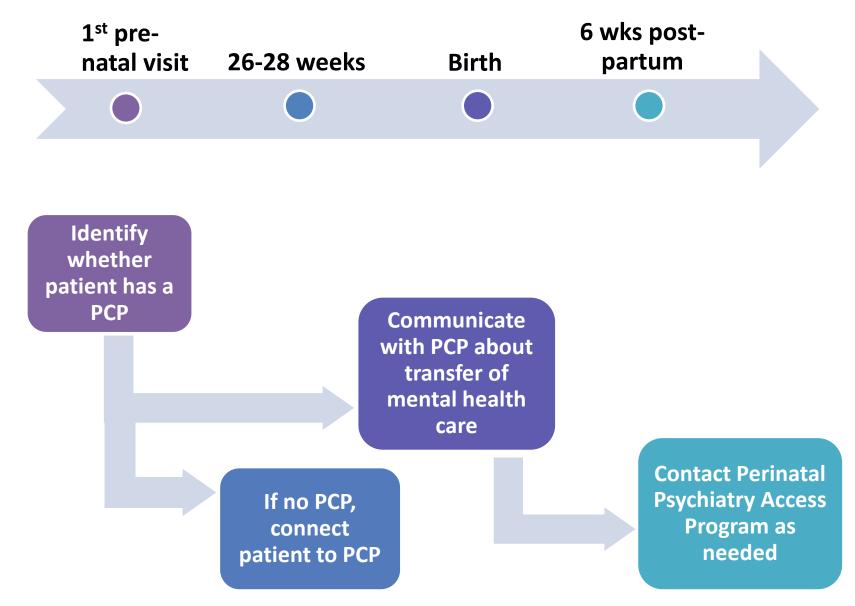
If no/minimal clinical improvement and improvement after 4-8 weeks no/minimal side effects

If patient has **no or minimal side effects**, increase dose

If patient has **side effects**, switch to a different medication

Reevaluate every month and at postpartum visit

### Transfer of care if cannot follow-up postpartum





### **Resources**

MS NO: ONG-23-579



#### **CLINICAL PRACTICE GUIDELINE**

NUMBER 4 JUNE 2023

REPLACES COMMITTEE OPINION 757, NOVEMBER 2018

#### Screening and Diagnosis of Mental Health Conditions During Pregnancy and Postpartum

Committee on Clinical Practice Guidelines—Obstetrics. This Clinical Practice Guideline was developed by the ACOG Committee on Clinical Practice Guidelines-Obstetrics in collaboration with Tiffany A. Moore Simas, MD, MPH, MEd; M. Camille Hoffman, MD, MSc; Emily S. Miller, MD, MPH; and Torri Metz, MD, MS; with consultation from Nancy Byatt, DO, MS, MBA: and Kay Roussos-Ross, MD.

The Society for Maternal-Fetal Medicine endorses this document.

The Committee on Women's Mental Health of the American Psychiatric Association reviewed and provided feedback on this document.

PURPOSE: To review evidence on the current understanding of mental health conditions in pregnancy and postpartum, with a focus on mood and anxiety disorders, and to outline guidelines for screening and diagnosis that are consistent with best available scientific evidence. The conditions or symptoms reviewed include depression, anxiety and anxiety-related disorders, bipolar disorder, suicidality, and postpartum psychosis. For information on psychopharmacologic treatment and management, refer to American College of Obstetricians and Gynecologists (ACOG) Clinical Practice Guideline Number 5. "Treatment and Management of Mental Health Conditions During Pregnancy and Postpartum" (1).

TARGET POPULATION: Pregnant or postpartum individuals with mental health conditions. Onset of these conditions may have predated the perinatal period or may have occurred for the first time in pregnancy or the first year postpartum or may have been exacerbated in that time.

METHODS: This guideline was developed using an a priori protocol in conjunction with a writing team consisting of one specialist in obstetrics and gynecology and one maternal-fetal medicine subspecialist appointed by the ACOG committee on Clinical Practice Guidelines-Obstetrics and two external subject matter experts. ACOG medical liberains completed a comprehensive literature search for primary literature within Cochrane Library, Cochrane Collaboration Registry of Controlled Trials, EMBASE, PubMed, and MEDLINE. Studies that moved forward to the full-text screening stage were assessed by two authors from the writing team based on standardized inclusion and exclusion criteria. Included studies underwent quality assessment, and a modified GRADE (Grading of Recommendations Assessment, Development and Evaluation) evidence-to-decision framework was applied to interpret and translate the evidence into recommendation statements.

RECOMMENDATIONS: This Clinical Practice Guideline includes recommendations on the screening and diagnosis of perinatal mental health conditions including depression, anxiety, bipolar disorder, acute postpartum psychosis, and the symptom of suicidality. Recommendations are classified by strength and evidence quality. Ungraded Good Practice Points are included to provide guidance when a formal recommendation could not be made because of inadequate or nonexistent evidence. MS NO: ONG-23-580



#### **CLINICAL PRACTICE GUIDELINE**

NUMBER 5 JUNE 2023

REPLACES PRACTICE BULLETIN NUMBER 92, APRIL 2008

#### Treatment and Management of Mental Health Conditions During Pregnancy and Postpartum

Committee on Clinical Practice Guidelines—Obstetrics. This Clinical Practice Guideline was developed by the ACOG Committee on Clinical Practice Guidelines-Obstetrics in collaboration with Emily S. Miller, MD, MPH; Torri Metz, MD, MS; Tiffany A. Moore Simas, MD, MPH, MEd; and M. Camille Hoffman, MD, MSc; with consultation from Nancy Byatt, DO, MS, MBA and Kay Roussos-Ross, MD.

The Society for Maternal-Fetal Medicine endorses this document.

The Committee on Women's Mental Health of the American Psychiatric Association reviewed and provided feedback on this document.

PURPOSE: To assess the evidence regarding safety and efficacy of psychiatric medications to treat mental health conditions during pregnancy and lactation. The conditions reviewed include depression, anxiety and anxiety-related disorders, bipolar disorder, and acute psychosis. For information on screening and diagnosis, refer to American College of Obstetricians and Gynecologists (ACOG) Clinical Practice Guideline Number 4, "Screening and Diagnosis of Mental Health Conditions During Pregnancy and Postpartum" (1).

TARGET POPULATION: Pregnant or postpartum individuals with mental health conditions with onset that may have predated the perinatal period or may have occurred for the first time in pregnancy or the first year postpartum or may have been exacerbated in that time.

METHODS: This guideline was developed using an a priori protocol in conjunction with a writing team consisting of one specialist in obstetrics and gynecology and one maternal-fetal medicine subspecialist appointed by the ACOG Committee on Clinical Practice Guidelines-Obstetrics and two external subject matter experts. ACOG medical librarians completed a comprehensive literature search for primary literature within Cochrane Library, Cochrane Collaboration Registry of Controlled Trials, EMBASE, PubMed, and MEDLINE. Studies that moved forward to the full-text screening stage were assessed by two authors from the writing team based on standardized inclusion and exclusion criteria. Included studies underwent quality assessment, and a modified GRADE (Grading of Recommendations Assessment, Development and Evaluation) evidence-to-decision framework was applied to interpret and translate the evidence into recommendation statements.

RECOMMENDATIONS: This Clinical Practice Guideline includes recommendations on treatment and management of perinatal mental health conditions including depression, anxiety, bipolar disorders, and acute postpartum psychosis, with a focus on psychopharmacotherapy. Recommendations are classified by strength and evidence quality. Ungraded

# Zuranolone for the Treatment of Postpartum Depression Considerations for zuranolone therapy: • The daily recommended dose of zuranolone is generally 50 mg. It is taken in the

Practice Advisory (i) | August 2023

- The daily recommended dose of zuranolone is generally 50 mg. It is taken in the evening with a fatty meal (eg., 400 to 1,000 calories, 25% to 50% fat), for 14 days. Dosage may be reduced to 40 mg if central nervous system (CNS) depressant effects occur. In the case of severe hepatic or moderate to severe renal impairment, dosing should be initiated at 30 mg. Dose adjustments will also be needed if patients are taking medications that are strong CYP3A4 inhibitors and concomitant use with CYP3A4 inducers should be avoided.\*
- If an evening dose is missed, take the next dose at the regular time the following evening; do not take extra doses on the same day. Complete 14 days of treatment total
- Zuranolone can be used alone or as an adjunct to other oral antidepressant therapy like SSRIs and SNRIs
- Patients should use effective contraception during the 14-day treatment course and for 1-week after the final dose. Zuranolone may cause fetal harm 2. If pregnancy does occur, there is a registry.\*\*
- · Patients should be warned and given precautions about adverse reactions including:
- . Impaired ability to drive or engage in other potentially hazardous activities,
- . CNS depressant effects including somnolence and confusion, and
- · Increased suicidal thoughts and behaviors.
- Patients should not drive or engage in activities requiring complete mental alertness until at least 12 hours after each dose for the duration of the full treatment course.
   Patients may not be able to accurately assess their own degree of impairment during the treatment cycle.
- Other CNS depressing substances should be avoided (eg, alcohol, benzodiazepines, opioids, tricyclic antidepressants). If unable to avoid, a dose reduction may be necessary.
- The most common side effects include dizziness, fatigue, drowsiness, diarrhea, common cold-like symptoms, and urinary tract infections.
- Zuranolone passes into breast milk, although with a RID lower than that of SSRIs.
   There are no data on effects on a breastfed infant and limited data on milk production. The patient's clinical need for zuranolone and the developmental and health benefits of breastfeeding should be balanced through a shared decision-making process that considers continuation, pumping and discarding milk through 1-week past treatment completion, and cessation.



AIM develops multidisciplinary, clinical-condition specific patient safety bundles to support best practices that make birth safer. <u>LEARN MORE</u>



#### PERINATAL MENTAL HEALTH CONDITIONS

For the purposes of this bundle, perinatal mental health conditions refer to mood, anxiety, and anxiety-related disorders that occur during pregnancy or within one year of delivery and are inclusive of mental health conditions with onset that predates pregnancy. These conditions include and are not limited to depression, anxiety and anxiety-related disorders like posttraumatic stress disorder and obsessive-compulsive disorder, bipolar disorder, and postpartum psychosis.

READINESS	•
RECOGNITION & PREVENTION	•
RESPONSE	•
REPORTING & SYSTEMS LEARNING	•
RESPECTFUL, EQUITABLE & SUPPORTIVE CARE	•
View the Introduction to Perinatal Mental Health Condition	s video

HERE.

#### **QUICK LINKS**

- Printable Bundle (PDF)
- National Maternal Health Hotline
- Perinatal Mental Health Conditions
   Element Implementation Details (PDF)
- Perinatal Mental Health Conditions Implementation Webinar (Video)
- Perinatal Mental Health Conditions Data Collection Plan (PDF)
- Perinatal Mental Health Conditions Bundle Implementation Resources (PDF)
- COMING SOON: Perinatal Mental Health Conditions Change Package (PDF)



## Perinatal Mental Health Conditions Change Package

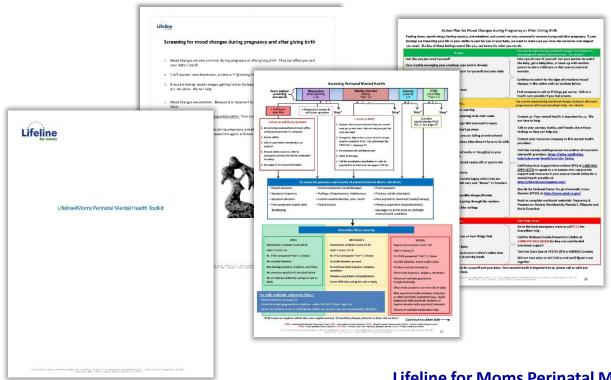
### Readiness

Change Idea

Change Concept	Change Idea	Key Resources and Tools
Develop workflows for integrating mental health care into preconception and obstetric care before pregnancy through the postpartum period including	Standardize screening processes and roles. Identify a member of the care team whose role includes screening for mental health conditions Include mental health screening as part of intake and at regular intervals throughout prenatal care. At a minimum, this schedule should include intake, once in the 3 <sup>rd</sup> trimester, and at the postpartum visit *	American College of Obstetricians and Gynecologists (ACOG): Perinatal Mental Health: Patient Screening <sup>22</sup>
provision of pharmacotherapy when indicated	Develop a standard process for addressing a positive screen (Who makes the referral? How? When?) and have referral pathways ready	Massachusetts Child Psychiatry Access Program (MCPAP) for Moms: Obstetric Provider Toolkit <sup>23</sup> Orange County (OC) Health Care Agency: Perinatal Mood and Anxiety Disorders: Maternal Screening and Care Pathway <sup>24</sup>
	As feasible, develop a workflow that allows providers to get support from a mental health clinician when a patient screens positive to allow for real-time guidance on appropriate next steps  If access to mental health clinicians is limited in your community, explore alternative pathways such as working with primary care *	UMass Chan Medical School; Resources for Integrating Mental Health into Obstetric Settings; Sample Workflows (pp. 57 - 58) <sup>25</sup> Maternal Mental Health Leadership Alliance (MMHLA); Psychiatry Access Programs <sup>26</sup> Postpartum Support International (PSI); Perinatal Psychiatric Consult Line <sup>27</sup>
	As feasible, set up mechanisms to pre-schedule mental health care for post-delivery in the event of a positive screen during pregnancy	Increasing Warm Handoffs: Optimizing Community Based Referrals in Primary Care Using QI Methodology <sup>28</sup>

Key Resources and Tools

## Lifeline for Moms Toolkit provides obstetric clinicians with tools to help them address mental health

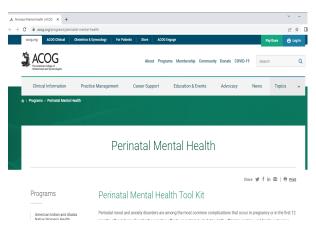


<u>Lifeline for Moms Perinatal Mental Health</u>
<u>Toolkit" by Nancy Byatt, Leena P. Mittal et al.</u>
(umassmed.edu)

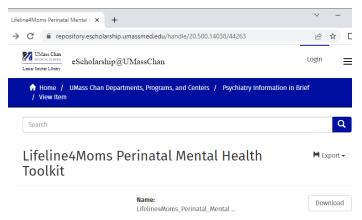


## Lifeline for Moms Toolkit provides obstetric clinicians with tools to help them address mental health





Lifeline



**Perinatal Mental Health | ACOG** 

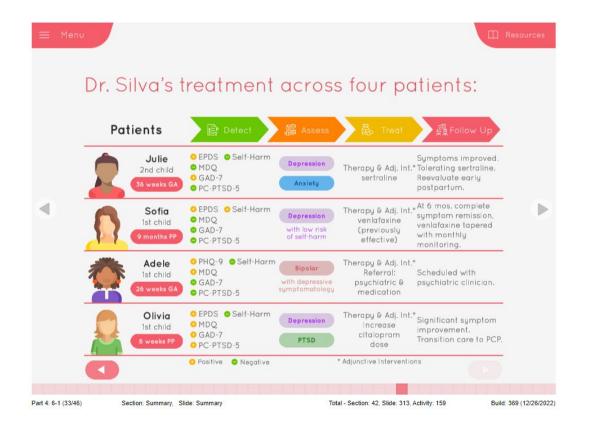
<u>Lifeline4MomsPerinatal Mental Health Toolkit</u> (<u>umassmed.edu</u>)



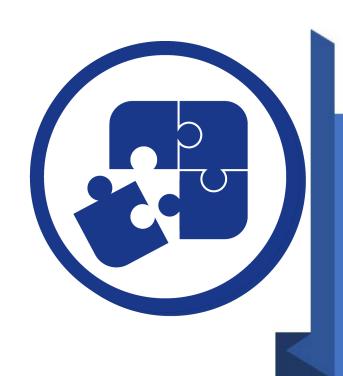
Lifeline for Moms e-Modules provide training in detection, assessment, treatment and follow-up using self-paced, case-based, interactive design











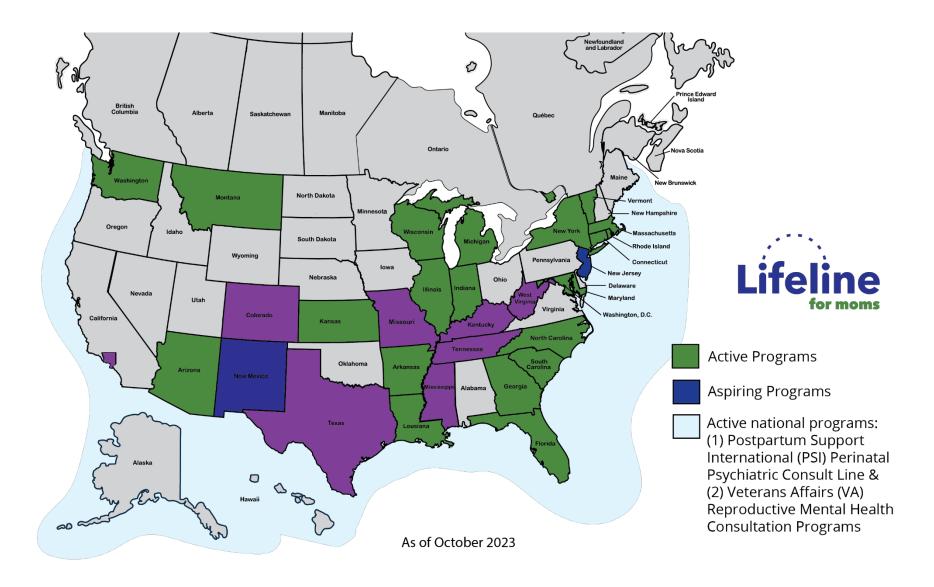
Implementation Guide for Integrating PMH into OB Practice

Planning Implementation Sustainment

1) 2) 3) 4) 5) 6

Communication

## Perinatal Psychiatry Access Programs



## The National Maternal Mental Health Hotline is a free and available across the US

1-833-9-HELP4MOMS

(1-833-943-5746)





Patient-facing Hot-Line (24/7)

National Maternal Mental Health Hotline | MCHB (hrsa.gov)

## Integrating mental health care into our practices can be transformative for the perinatal individuals, children and families we serve



### Thank you!







### Lifeline for Moms Teams and Collaborators:

MCPAP for Moms Team
Trainees and students
Massachusetts DMH
Participating Obstetric Practices
Participating Perinatal Individuals
Advisory Council Members
CDC Collaborators

#### **Funding:**

CDC 1U01 DP006093, 6 U48DP006381-03-01 CDC Foundation The Perigee Fund NIMH 1R41 MH113381-01, 2R42 MH113381-02 PCORI IHS-2019C2-17367, EACB-23288 ACOG 6 NU380T000287-02-01 NIH KL2TR000160









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### www.mcpapformoms.org

### www.lifeline4moms.org



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Thank you!