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

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INTRODUCTION

Perinatal mental health conditions include a broad array of diagnoses, including but not limited to depressive, anxiety, bipolar, trauma-related, and psychotic disorders (2). These conditions can precede a pregnancy or can develop during the perinatal period. These conditions can affect pregnancy or the 12 months after delivery, regardless of whether onset occurred before pregnancy or during this full perinatal period. The 2021 prevalence of any mental illness in women in the United States was 27.2%, compared with 18.1% for men in the United States (3). During pregnancy or postpartum, approximately one in five women will develop an incident mental health condition (4). Thus, most obstetric care professionals can expect to encounter perinatal mental health conditions commonly throughout clinical care provision.

Despite their prevalence, perinatal mental health conditions are often not treated or are undertreated (5). Untreated and undertreated perinatal mental health conditions are associated with negative consequences for pregnant and postpartum people, including disrupted health behaviors, relationships, parenting, and physiology. These complications interact in complex ways to create risk for the fetus or offspring, the partner, and the family as a whole (including other children who may be affected). Understanding, discussing, and recommending treatment, including pharmacotherapy when indicated and needed (particularly for perinatal depression and anxiety), is within the scope of the obstetrician–gynecologist’s (ob-gyn’s) practice. Definitions and the epidemiology of each covered mental health condition are described in detail within American College of Obstetricians and Gynecologists (ACOG) Clinical Practice Guideline Number 4, “Screening and Diagnosis of Mental Health Conditions During Pregnancy and Postpartum” (1); a high-level overview of the conditions covered in this document is presented below.

For depression (6, 7) and anxiety disorders (8), psychotherapy and pharmacotherapy are efficacious treatments, and, when they are used in tandem, clinical benefits are enhanced (9, 10). Although this document includes brief information on the important role of psychotherapy in the treatment of perinatal mental health conditions, the focus of the guidance provided pertains to psychopharmacotherapy because direct delivery of psychotherapy is outside the scope of obstetric and gynecologic practice. It is important to acknowledge, particularly in the context of pregnancy or lactation, when exposures should be thoughtfully weighed, that psychotherapy is often a first-line treatment recommendation for mild-to-moderate depression or anxiety disorders (11). Nevertheless, psychotherapy is not always accessible or acceptable to individuals, and shared decision making is paramount to identify a treatment plan. For more severe mental health conditions, including but not limited to bipolar or psychotic disorders, or depression or anxiety that is refractory to first-line treatment, referral to or consultation with behavioral health resources is indicated.

As is true with many medications in pregnancy and lactation, psychopharmacology studies often rely on drug registries to support ongoing risk assessments. Obstetric care professionals and perinatal individuals can find information about psychopharmacology on the National Registry of Psychiatric Medications (12, 13).

Depressive Disorders

The Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition (DSM-5) defines perinatal depression as a major depressive disorder with a time-onset specifier (2). Specifically, this includes an onset of depressive symptoms in pregnancy or up to 4 weeks postpartum, although most clinical experts recommend the application of this terminology until 12 months postpartum. The recognition of perinatal depression as a distinct entity carries importance for two reasons. First, it underscores the fact that pregnancy does not protect people from depression. Second, it serves to acknowledge how pregnancy and childbirth can be potent precipitants for psychiatric illness. The importance of treatment of perinatal depression should not be minimized; one quarter of women with perinatal depression will have symptoms for 3 years postpartum (14).

This document will focus primarily on the pharmacologic management of mental health conditions, including perinatal depression. However, more recent data support prevention of perinatal depression among those at high risk (15) through the use of counseling interventions, such as cognitive behavioral therapy (CBT) (eg, Mothers and Babies) (16–19), and interpersonal therapy (eg, the ROSE [Reach Out, Stay Strong, Essentials for mothers of newborns] program) (20–24), which has been shown to be cost effective (25). How clinicians can best identify and implement these psychotherapy-based interventions remains an area of active research (26).

Bipolar Disorder

The onset of bipolar disorder typically occurs in late adolescence or early adulthood (27). Thus, individuals with bipolar disorder often have the symptoms or diagnosis for the majority of their reproductive years. Moreover, recognition of incident bipolar disorders is important in obstetrics, because childbirth is one of the most potent precipitants of hypomania or mania (28). Additionally, for women with bipolar disorder, the risk of psychiatric
hospitalization in the postpartum period is significantly greater than at any other point in their lives (29).

Bipolar disorders include both bipolar I disorder and bipolar II disorder. Bipolar I disorder is defined by at least one episode of mania that may include psychotic features. Bipolar II disorder is characterized by hypomania, which is a less severe form of mania without any psychotic symptoms. In bipolar disorder, episodes of mania or hypomania occur in addition to episodes of depression. Importantly, sex differences in bipolar disorder have been documented, with females more often presenting with depressive polarity compared to manic/hypomanic polarity (30), and bipolar II disorder compared to bipolar I disorder (30, 31). Accordingly, women with bipolar disorder are often diagnosed later or misdiagnosed with a depressive disorder. It is important to note that almost a quarter (22.6%) of individuals with a positive perinatal depression screen will have bipolar disorder if further evaluated (4). Given that depressive symptomatology is more prominent than manic symptomatology in perinatal women, bipolar disorder is often mistaken for unipolar depression (32). Thus, before prescribing antidepressant monotherapy for presumed unipolar depression, a bipolar disorder screen is needed to avoid precipitating mania or psychosis, which has been associated with self-harm and infanticide (33).

The overall risk of bipolar disorder relapse postpartum is 35% (95% CI 29–41), with marked differences in those not treated with pharmacotherapy (66%, 95% CI 57–75) compared with those in whom pharmacotherapy is continued (23%, 95% CI 14–37) (34). Discontinuation of pharmacotherapy for bipolar disorder in pregnancy or postpartum is associated with a threefold higher risk of relapse compared with discontinuation of pharmacotherapy in nonperinatal women (35). Therefore, continuation of pharmacotherapy for pregnant individuals with bipolar disorder is highly recommended.

Anxiety Disorders

According to the DSM-5, the seven types of anxiety disorders are generalized anxiety disorder, panic disorder, agoraphobia, separation anxiety disorder, social phobia, selective mutism, and phobia-related disorders (2). Although each of these conditions holds distinct diagnostic criteria, they are often comorbid and share the common symptoms of fear and anticipatory anxiety and behaviors, often manifesting as avoidance. Notably, both obsessive-compulsive disorders (OCD) and trauma- and stressor-related disorders (including posttraumatic stress disorder [PTSD]) are now canonically separated from anxiety disorders into their own categories, reflecting the unique differences between them and anxiety disorders at large. However, although psychotherapy-based approaches to treatment of anxiety disorders, OCD, and PTSD are different, the pharmacologic approach is similar in that first-line treatment is an antidepressant.

Anxiety disorders are strikingly common, with contemporary data identifying that one in five women meet the diagnostic criteria for one or more disorders (36). Anxiety disorders can cause significant functional impairment, and, although not specific to pregnancy or postpartum, individuals with anxiety are more likely to have suicidal ideation and attempts compared with those without anxiety (37). Anxiety disorders are often comorbid with perinatal depression (38), and, even if not immediately comorbid, prenatal anxiety disorders are strong harbingers of postpartum depression (39, 40). Anxiety disorders during pregnancy have been associated with preterm birth and low birth weight (41), and perinatal anxiety disorders have been associated with behavioral challenges in offspring (42–45).

Postpartum Psychosis

Postpartum psychosis is rare, occurring in 1–2 per 1,000 pregnancies, and refers to the onset of psychosis in the postpartum period, which is often acute in onset. Postpartum psychosis often occurs in the context of bipolar disorder type I and can occur during an episode of mania, depression, or a mixed episode with psychotic features. Although the DSM-5 specifies that this diagnosis occurs “within the first 4 weeks post-birth,” typical onset is 3–10 days after birth, and it can also occur after 4 weeks postpartum (2). Other symptoms of postpartum psychosis include agitation and delusions, disorganized thoughts, bizarre behavior, and auditory or visual hallucinations. Patients often have limited to no insight into their symptoms and may experience a dramatic shift from their usual level of function (46). Symptoms often fluctuate over time, making prompt recognition of the utmost importance.

Most women admitted to hospitals with postpartum psychosis as their ultimate diagnosis do not have a known psychiatric history (47, 48). If there is a psychiatric history, it is most likely bipolar disorder. Thus, early detection and ascertainment of a history of bipolar disorder specifically can help to identify individuals at risk for postpartum psychosis.

Individuals with bipolar I disorder and a history of postpartum psychosis have the highest recurrence risk, warrant specialty psychiatric care during pregnancy and postpartum, and should be seen by a psychiatrist (34). A prebirth planning meeting including the partner, family, friends, other support persons, mental health professionals, and obstetric care or primary care teams should be used to coordinate postpartum psychosis-prevention planning, including psychopharmacology, observation and support, and adequate sleep strategies (49).

Although long-term treatment of postpartum psychosis is beyond the scope of the ob-gyn, acute treatment by either an obstetrics team or emergency medicine team while awaiting psychiatric evaluation and treatment is warranted. Pharmacotherapy typically includes treatment with an antipsychotic and sometimes a benzodiazepine (such as lorazepam). Given that postpartum psychosis is associated with infanticide and suicide, psychiatric hospitalization is generally indicated; continuous observation can be used until this transfer can occur. An evaluation by a psychiatrist
that includes an assessment of risk of harm to self and the infant is critical. Longer-term treatment of this condition includes pharmacotherapy and sometimes requires electroconvulsive therapy; therefore, a psychiatrist must be involved in both acute and long-term care.

In studies evaluating prevention of postpartum psychosis, the initiation of high-dose lithium immediately after delivery has the strongest evidence (50). Foregoing breastfeeding overnight as part of sleep preservation and support can also be helpful in the early phase of treatment and stabilization. If treated quickly and appropriately, full remission can be achieved by 2 months postpartum (49, 50).

**SUMMARY OF RECOMMENDATIONS**

**General Approach to Psychopharmacotherapy**

ACOG recommends that obstetricians be prepared to counsel patients on the benefits and risks of psychopharmacotherapy for perinatal mental health conditions when clinically indicated. (STRONG RECOMMENDATION, MODERATE-QUALITY EVIDENCE)

ACOG recommends that obstetricians initiate psychopharmacotherapy for perinatal depression or anxiety disorders, refer patients to appropriate behavioral health resources when indicated, or both. (STRONG RECOMMENDATION, MODERATE-QUALITY EVIDENCE)

ACOG recommends that a validated screening tool be used to monitor for response to treatment or remission of depression or anxiety symptoms. If clinically indicated, the pharmacotherapy dosage should be up-titrated, with the goal of remission of depressive and anxiety symptoms. (STRONG RECOMMENDATION, HIGH-QUALITY EVIDENCE)

ACOG recommends that treatment for perinatal mood and anxiety disorders be equitably available and accessible to all pregnant and postpartum individuals. (STRONG RECOMMENDATION, MODERATE-QUALITY EVIDENCE)

ACOG recommends against withholding or discontinuing medications for mental health conditions due to pregnancy or lactation status alone. (STRONG RECOMMENDATION, LOW-QUALITY EVIDENCE)

Use Perinatal Psychiatry Access Programs as a resource for management and treatment guidance for individuals with mental health conditions. (GOOD PRACTICE POINT)

**Safety and Efficacy of Pharmacologic Interventions for Perinatal Depressive Disorders**

ACOG recommends that psychotherapy be considered a first-line treatment for mild-to-moderate perinatal depression. (STRONG RECOMMENDATION, MODERATE-QUALITY EVIDENCE)

ACOG recommends that selective serotonin reuptake inhibitors be used as first-line pharmacotherapy for perinatal depression. Serotonin-norepinephrine reuptake inhibitors 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. (STRONG RECOMMENDATION, LOW-QUALITY EVIDENCE)

ACOG recommends against discontinuing mood stabilizers, except for valproate, during pregnancy due to the risk of recurrence or exacerbation of mood symptoms. (STRONG RECOMMENDATION, MODERATE-QUALITY EVIDENCE)

ACOG recommends against valproate as a first-line treatment for bipolar disorder. Valproate should be avoided in pregnancy because reasonable alternatives usually can be identified. (STRONG RECOMMENDATION, MODERATE-QUALITY EVIDENCE)

ACOG recommends that pregnant individuals using antipsychotic medications undergo screening for gestational diabetes mellitus, consistent with standard prenatal care. (STRONG RECOMMENDATION, MODERATE-QUALITY EVIDENCE)

ACOG recommends that pregnant patients taking lithium in the first trimester receive a detailed ultrasound...
STRENGTH OF RECOMMENDATION

STRONG
ACOG recommends:
Benefits clearly outweigh harms and burdens. Most patients should receive the intervention.
ACOG recommends against:
Harms and burdens clearly outweigh the benefits. Most patients should not receive the intervention.

CONDITIONAL
ACOG suggests:
The balance of benefits and risks will vary depending on patient characteristics and their values and preferences. Individualized, shared decision making is recommended to help patients decide on the best course of action for them.

QUALITY OF EVIDENCE

HIGH
Randomized controlled trials, systematic reviews, and meta-analyses without serious methodologic flaws or limitations (eg, inconsistency, imprecision, confounding variables)
Very strong evidence from observational studies without serious methodologic flaws or limitations
There is high confidence in the accuracy of the findings and further research is unlikely to change this

MODERATE
Randomized controlled trials with some limitations
Strong evidence from observational studies without serious methodologic flaws or limitations

LOW
Randomized controlled trials with serious flaws
Some evidence from observational studies

VERY LOW
Unsystematic clinical observations
Very indirect evidence from observational studies

GOOD PRACTICE POINTS
Ungraded Good Practice Points are incorporated when clinical guidance is deemed necessary in the case of extremely limited or non-existent evidence. They are based on expert opinion as well as review of the available evidence.

examination in the second trimester. (STRONG RECOMMENDATION, MODERATE-QUALITY EVIDENCE)

It is imperative that lithium dosing be monitored during pregnancy and postpartum. (GOOD PRACTICE POINT)

Safety and Efficacy of Pharmacologic Interventions for Postpartum Psychosis

Postpartum psychosis is a psychiatric emergency. Treatment options that are within the scope of obstetricians, while awaiting further assessment, recommendations, and a treatment plan by a psychiatrist, include sedating antipsychotic medications such as olanzapine or haloperidol that can be used with benzodiazepines such as lorazepam. If haloperidol is used, benztrapine or diphenhydramine should be administered to prevent extrapyramidal symptoms and dystonia. (GOOD PRACTICE POINT)

METHODS

ACOG Clinical Practice Guidelines provide clinical management recommendations for a condition or procedure by assessing the benefits and harms of care options through a systematic review of the evidence. 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. A full description of the Clinical Practice Guideline methodology is published separately (51). The following description is specific to this Clinical Practice Guideline.

Literature Search

ACOG medical librarians completed a comprehensive literature search for primary literature within Cochrane Library, Cochrane Collaboration Registry of Controlled Trials, EMBASE, PubMed, and MEDLINE. Parameters for the search included human-only studies published in English. The Agency for Healthcare Research and Quality’s (AHRQ) “Maternal, Fetal, and Child Outcomes of Mental Health Treatments in Women: A Systematic Review of Perinatal Pharmacologic Interventions” systematic review served as an evidence base for this Clinical Practice Guideline (52). For topics in this guideline related to the AHRQ review, the literature search was limited to the end date of the AHRQ search until 2021. For all topics included in this guideline but not included in the AHRQ review, the literature search was restricted to studies from 2000 to 2021. The MeSH terms and keywords used to guide the literature search can be found in Appendix A. An updated literature search was completed in December 2022 and reviewed by two members of the writing team using the same systematic process as the original literature search. A final supplemental literature search was performed in February 2023 to ensure that any newly published high-level sources were addressed in the Clinical Practice Guideline.
Study Selection

A title and abstract screen of all studies was completed by ACOG research staff. 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. To be considered for inclusion, studies had to be conducted in countries ranked very high on the United Nations Human Development Index (53), published in English, and include participants identified as female or women. Although systematic reviews, randomized controlled trials, and observational studies were prioritized, case reports, case series, and narrative reviews were considered for topics with limited evidence. A PRISMA (Preferred Reporting Items for Systematic Reviews and Meta-Analyses) flow diagram of the included and excluded studies can be found in Appendix B. All studies that underwent quality assessment had key details extracted (study design, sample size, details of interventions, outcomes) and descriptions included in the summary evidence tables (Appendix C).

Recommendation and Manuscript Development

A modified GRADE (Grading of Recommendations Assessment, Development and Evaluation) evidence-to-decision framework was applied to interpret and translate the evidence into draft recommendation statements, which were classified by strength and evidence quality (54, 55). Ungraded Good Practice Points were incorporated to provide clinical guidance in the case of extremely limited or nonexistent evidence. They are based on expert opinion as well as review of the available evidence (56). The recommendations and supporting evidence tables were then reviewed, revised as appropriate, and affirmed by the Committee on Clinical Practice Guidelines–Obstetrics at a meeting. The guideline manuscript was then written and subsequently reviewed and approved by the Committee on Clinical Practice Guidelines–Obstetrics and other internal review bodies before continuing to publication. Committee membership includes a physician triple-boarded in obstetrics and gynecology, psychiatry, and addiction medicine. Board-certified psychiatrists served as reviewers for this Clinical Practice Guideline.

Use of Language

ACOG recognizes and supports the gender diversity of all patients who seek obstetric and gynecologic care. In original portions of this document, authors seek to use gender-inclusive language or gender-neutral language. When describing research findings, this document uses gender terminology reported by investigators. To review ACOG’s policy on inclusive language, see https://www.acog.org/clinical-information/policy-and-position-statements/statements-of-policy/2022/inclusive-language.

CLINICAL OVERVIEW

Psychoeducation Regarding Self-Care

For all pregnant and postpartum individuals, education regarding self-care is an essential component of holistic well-being that accounts for both physical and emotional or mental health. This includes the role of adequate sleep, exercise, and balanced nutrition. In addition, building skills in creating time for oneself, minimizing stressors when possible, and asking for support are opportunities for wellness promotion in all individuals. Promoting dialogue regarding wellness may facilitate an open space to discuss mental health concerns. In addition to conversations about overall wellness, educating pregnant and postpartum patients about symptoms of depression and anxiety and the risks of untreated mental health conditions is a recommended clinical practice (33). The role of engaging partners or other support people in these conversations is also important and an area of active research.

Counseling Regarding Psychopharmacotherapy During Pregnancy

General Treatment Approach

Once the choice to initiate or continue pharmacotherapy has been made, and assuming that a conversation about psychotherapy options and other adjuncts to care has already been held, optimal dosing is critical to avoid undertreatment. Although it is important to consider the individual patient’s illness severity and prior psychiatric history, general principles to psychopharmacotherapy during pregnancy include:

1. Use the lowest effective dose. The goal of any treatment plan is to use the lowest dose of any medication that achieves the clinical goal. After the initial care plan is enacted, the perinatal individual requires symptom monitoring and adjustment or titration as needed to ensure illness remission.
2. Avoid polypharmacy. If symptom remission is possible with a single agent, this is preferred because polypharmacy increases exposures and, thus, the risk of potential adverse outcomes.
3. Minimize switching medications. Transitioning to another psychopharmacologic agent often requires a cross-taper (ie, the dose of the initial medication is down-titrated while the newer agent is initiated and up-titrated). This results in increased exposure, which is best avoided if a therapeutic effect can be reached with a single agent. For this reason, a careful assessment of what (if any) medication has been effective in the past is of particular importance. Furthermore, assuming that side effects are not prohibitive, dose optimization should be considered before switching medications.
4. Consider untreated or inadequately treated mental health disorders an exposure. Although the perinatal risks associated with any psychopharmacologic agent should be considered in clinical decision making, obstetric care professionals should also recognize the risks associated with inadequate treatment of mental health conditions (Table 1).

Psychopharmacotherapy Titration and Discontinuation

For most medications, follow-up and dose adjustment are informed by symptom monitoring. This can be done through the use of validated instruments initially used for screening (1), clinical assessment, or both. If symptoms are not improving, the dose of the medication may need to be up-titrated. Up-titration in pregnancy may be required with advancing gestation secondary to expected physiologic changes, such as increased renal clearance and distribution volume, as well as changes in the activity of drug-metabolizing enzymes. Some psychiatric medications, including lithium and tricyclic antidepressants, have therapeutic drug ranges that require monitoring. Others, such as selective serotonin reuptake inhibitors (SSRIs), do not have an established therapeutic concentration, but their concentration-to-dose ratios are known to be dynamic across pregnancy and postpartum (57). Regardless of whether symptoms or drug levels are used, systems should be in place to follow these results to facilitate safe and efficacious treatment.

Up-titration of pharmacotherapy in pregnancy raises the question of whether down-titration is required in the third trimester to avoid neonatal withdrawal symptoms or postpartum, with the resolution of pregnancy physiology. Down-titration of psychopharmacotherapy in the third trimester is not recommended, because it is not associated with improved neonatal outcomes and is associated with increased risk of exacerbation of the mental health condition (58–60). Optimized dosing for psychopharmacotherapy across the postpartum transition is incompletely understood. The postpartum transition can be a particularly destabilizing period for depression or anxiety disorders, and SSRIs and serotonin-norepinephrine reuptake inhibitors (SNRIs) are well-tolerated medications. Thus, experts recommend against empiric down-titration postpartum for SSRIs or SNRIs. However, some medications, including lithium and lamotrigine, do need to be carefully but expeditiously down-titrated postpartum back to prepregnancy dosing schedules to avoid toxicity. Postpartum care plans, including any anticipated dose titrations, should be in place before delivery. Although it is generally not recommended to discontinue or avoid pharmacotherapy due to pregnancy, individuals may stop or not initiate recommended psychiatric medications in pregnancy. In such cases, treatment should be started or re-initiated postpartum. This is particularly salient for women with a history of postpartum psychosis, which has a 66% recurrence risk in the absence of pharmacotherapy (34).

In general, pregnant and postpartum individuals with severe mental health conditions, such as bipolar disorder or psychotic disorders, should continue medication management. For most individuals with depression or anxiety disorders diagnosed during pregnancy or postpartum, obstetric care professionals should recommend continued treatment of psychopharmacotherapy for at least 6–12 months of symptom remission before considering discontinuation. If 9–12 months after remission of symptoms occurs in pregnancy or in the early postpartum period, discontinuation carries higher risk. In general, discontinuing effective pharmacotherapy during pregnancy or the postpartum period increases risk of relapse and is not recommended. If discontinuation is being considered, it requires careful consideration of the risk of recurrence. For major depressive disorder, discontinuation of medications before remission (ie, complete resolution of symptoms) and an increasing number of lifetime depressive episodes are strong predictors of recurrence (61).

Abrupt discontinuation of SSRIs or SNRIs is associated with symptoms including gastrointestinal upset, dizziness, fatigue, headache, sleep disruption, agitation or anxiety, myalgias, tremors, headaches, and electric-like shocks (62). The timing of onset of discontinuation symptoms is predicated on the half-life of the medication being used, with longer half-life SSRIs such as fluoxetine having the lowest incidence and severity of symptoms (63). To avoid this complication, individuals who have been on an SSRI or SNRI should undergo a progressive taper over 2–4 weeks (64).

Psychopharmacotherapy During Lactation

In general, individuals with mental health conditions should not be discouraged from breastfeeding if that is their desired form of infant feeding. Furthermore, if a woman is stable on a particular medication throughout pregnancy, the psychopharmacotherapy should not be changed postpartum because fetal exposure supersedes exposure through lactation (65, 66). However, if pharmacotherapy is being initiated during lactation, passage through breast milk should be considered alongside the likelihood of drug efficacy. As is true during pregnancy, medications for which there are available safety data are preferred over medications recently introduced, although any personal history of effectiveness should drive clinical decision making. Measures such as the relative infant dose should be considered, which reflects the measure of the infant’s exposure to the medication through breast milk relative to the mother’s dose. This measurement is influenced by several factors, including lipid solubility, half-life, oral bioavailability, molecular weight, drug ionization, and protein binding. In general, a relative infant dose less than 10% is considered compatible with breastfeeding, although data specific to each medication should also be considered. In addition to the relative infant dose, preterm birth, and the infant’s age should be considered, because immature metabolism can reduce medication clearance. Existing resources that can be useful...
in guiding these decisions include the Drugs and Lactation Database (13) and the MotherToBaby service from the Organization of Teratology Information Specialists (67).

Finally, although breastfeeding is recommended in general, the individual risks and benefits of infant feeding modalities should also balance destabilizing factors such as stress and sleep deprivation. These factors can be particularly destabilizing in the context of bipolar disorder.

**Health Systems Approaches**

The treatment of pregnant and postpartum individuals with mental health conditions requires a systems-based approach to support the care cascade from screening to remission of symptoms. One example of a health systems approach is the collaborative care model, a structured health services intervention that includes a care manager (typically a licensed clinical social worker) to coordinate patient-centered care delivery. The collaborative care model also includes a patient registry and weekly care meetings, both of which serve to track symptom response and support treatment to remission. Two randomized trials have shown the collaborative care model to improve mental health care within obstetrics and gynecology clinics (68, 69).

Another systems resource to support the care of pregnant and postpartum individuals with mental health conditions is Perinatal Psychiatric Access Programs (70). The state-based and national Perinatal Psychiatry Access Programs connect clinicians with perinatal psychiatrists and resource and referral specialists who provide education and resources to support management of mental health conditions for pregnant and postpartum individuals. There also exists a Health Resources & Services Administration–funded 24/7, free, confidential national maternal mental health hotline (1-833-943-5746 [1-833-9-HELP4MOMS]) for pregnant and postpartum individuals, with services available by phone or text and in multiple languages (73).

**Table 1. General Approach to Risk Counseling for Depression Psychopharmacotherapy**

<table>
<thead>
<tr>
<th>Risks of under-treatment or no treatment for depression during pregnancy include…</th>
<th>Risks of antidepressant use during pregnancy include…&lt;sup&gt;*&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limited engagement in medical care and self-care</td>
<td>PPHN</td>
</tr>
<tr>
<td>Substance use</td>
<td>Transient neonatal adaptation syndrome</td>
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<tr>
<td>Preterm birth</td>
<td>Preeclampsia (SNRIs)</td>
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<tr>
<td>Low birth weight</td>
<td>Spontaneous abortion (SNRIs)</td>
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<tr>
<td>Preeclampsia</td>
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<td>Postpartum depression</td>
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<td>Impaired infant attachment (which carries long-term developmental effects)</td>
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<tr>
<td>Disrupted relationship with partner</td>
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<tr>
<td>Suicide&lt;sup&gt;y&lt;/sup&gt;</td>
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</table>

PPHN, persistent pulmonary hypertension of the newborn; SNRI, serotonin-norepinephrine reuptake inhibitor.

<sup>*</sup>Data derived from literature that accounts for the underlying indication for antidepressant use.

<sup>y</sup>Suicide is a leading preventable contributor to maternal mortality in the United States, exceeding hemorrhage and hypertensive disorders.


**CLINICAL RECOMMENDATIONS AND EVIDENCE SUMMARY**

**General Approach to Psychopharmacotherapy**

ACOG recommends that obstetricians be prepared to counsel patients on the benefits and risks of psychopharmacotherapy for perinatal mental health conditions when clinically indicated. (STRONG RECOMMENDATION, MODERATE-QUALITY EVIDENCE)

The high prevalence of perinatal mental health conditions alongside their association with significant negative...
outcomes has resulted in a near universal recommenda-
tion from multiple colleges, societies, and governmental
organizations to screen for various mental health condi-
tions during pregnancy and postpartum (74–80). Yet
screening alone does not improve health outcomes.
Thus, the recommendation to screen should be part-
tnered with preparedness to discuss and provide treat-
ment options for individuals who screen positive.

ACOG recommends that obstetricians initiate
psychopharmacotherapy for perinatal depression
or anxiety disorders, refer patients to
appropriate behavioral health resources when
indicated, or both. (**STRONG RECOMMENDA-
TION, MODERATE-QUALITY EVIDENCE**)

Discussing and initiating pharmacotherapy for depression or anxiety disorders is an important component of comprehensive reproductive health care and, as such, is within the clinical scope of ob-gyns. Many obstetric care professionals report discomfort with and insufficient training within the treatment of perinatal mental health conditions (81, 82). Additional clinical education in psychopharmacology is available through several training modules, including the National Curriculum in Reproductive Psychiatry, Postpartum Support International Frontline Provider Trainings, and Life-
line for Moms e-modules available through ACOG (83–85).

In general, SSRIs are considered first-line medications for the treatment of perinatal depression or anxiety disorders. For individuals who have been treated effectively with an antidepressant from any class (e.g., SSRIs, SNRIs) in the past, that medication should be the pharmacotherapy of choice. For those who have not taken a medication in the past and for those for whom other medications were not effective, sertraline is often preferred due to its extensive and reassuring safety evaluation in the medical literature. Escitalopram is a reasonable alternative based on efficacy and acceptability data in the general population (86). Flu-
exetine has a long half-life and active metabolites, which have been associated with an increased risk of neonatal adaptation syndrome and accumulation in breastfed infants (87). These data should not preclude the use of fluoxetine if it has been previously effective outside of pregnancy.

Unopposed SSRIs or SNRIs can precipitate mania in individuals with bipolar disorder. Before the use of any pharmacologic agent for the treatment of suspected depres-
sion, screening for bipolar disorder is recommended. Psycho-
education regarding symptoms of mania should be provided with any prescription of an antidepressant medication, and patients should be advised to stop the medication and return for a clinical assessment if these symptoms arise. See ACOG Clinical Practice Guideline Number 4, “Screening and Diagnosis of Mental Health Conditions During Pregnancy and Postpartum” for details of this assessment (1).

Other complementary, alternative, and integrative medi-
cine approaches to the treatment of perinatal mental health conditions exist, including acupuncture, massage, yoga, exercise, bright-light therapy, mindfulness-based stress reduction, and dietary supplements. Because the delivery of these interventions is outside of the general practice of most ob-gyns, details are not included in this document. In addition, because psychotherapy is also outside of the clinical practice of most ob-gyns, details on the types and efficacy of psychotherapy used for perinatal mental health conditions are not included in this document. Nonetheless, psychotherapy is first-line treatment for mild-to-moderate depression and anxiety; thus, establishing timely referral pathways is recommended (33).

ACOG recommends that a validated screening
tool be used to monitor for response to treatment or remission of depression or anxiety symptoms. If clinically indicated, the pharmacotherapy dos-
age should be up-titrated, with the goal of remission of depressive and anxiety symptoms. (**STRONG RECOMMENDA-
TION, HIGH-QUALITY EVIDENCE**)

The goal of any treatment is remission, defined as resolution of the underlying symptoms; often, particularly in pregnancy, up-titration of medications is required. Undertreatment in obstetrics is common (88) and results in exposures to both the underlying illness as well as the pharmacologic agent.

For most medications that will be prescribed by obstetric care clinicians (e.g., SSRIs or SNRIs), monitoring requires symptom assessment. Validated screening instruments should be used to track symptom response (defined as an improvement of 50% of more from baseline) and remission. To ensure comparability in symptom scores across time, obstetric care professionals should use the same screen to follow symptom trajectory after treatment. Existing algorithms have been published to support dose adjustments in the setting of perinatal depression, with an example of serial monitoring and medication adjustment using serial validated screens such as the PHQ-9 (Patient Health Questionnaire-9) or EPDS (Edinburgh Postnatal Depression Scale) to inform up-titration. An example of one of these algorithms is shown in Figures 1 and 2. Similar approaches can be used for anxiety by incorporating validated screens for anxiety (1).

Health Equity

ACOG recommends that treatment for perina-
tal mood and anxiety disorders be equitably available and accessible to all pregnant and postpartum individuals. (**STRONG RECOMMENDA-
TION, MODERATE-QUALITY EVIDENCE**)

The field of mental health also experiences the inequities that plague perinatal health in general. As an extreme example, there have been growing disparities in suicide rates in the United States across race, ethnicity, geog-
raphy, sexual minority status, and socioeconomic status.
(89). Systems-based approaches are required to achieve perinatal mental health equity. One example of an approach to mitigation of disparities in perinatal mental health care is a collaborative care model—an equity-focused health services intervention to integrate mental health into primary care settings. Implementation of the collaborative care model, adapted for perinatal care, was associated with reductions in racial disparities in screening for perinatal depression and in obstetric care professional recommendations for treatment (90).

**ACOG recommends against withholding or discontinuing medications for mental health conditions due to pregnancy or lactation status alone.** *(STRONG RECOMMENDATION, LOW-QUALITY EVIDENCE)*

With almost all psychiatric medications (with the notable exception of valproic acid), withholding or discontinuing medications due to pregnancy or lactation alone is not typically indicated. Particularly if a therapeutic benefit has been achieved, discontinuation runs the risk of destabilization, which can result in adverse outcomes (91). Although no randomized clinical trials have been conducted that evaluate discontinuing pharmacotherapy in pregnant individuals, randomized trials in the general population suggest that continuation of medications reduces the risk of relapse (92). Observational data from pregnant women who discontinued treatment for affective disorders, including depression, demonstrate a higher rate of symptom relapse compared with those who continued psychopharmacotherapy (68% vs 26%, hazard ratio 5.0, 95% CI 2.8–9.1) (93, 94). This risk is particularly heightened for pregnant women with multiple episodes of psychiatric illness (95).

The decision to withhold or discontinue pharmacotherapy is often driven by perceived risks of the medication. Details on the safety profile of each medication are described within the relevant sections; however, the absolute risks of adverse obstetric, perinatal, or infant developmental outcomes for almost all psychiatric medications appear to be low and should be balanced against the high risk of illness recurrence. In general, for most pregnant individuals and for most medications, this balance favors continuation of psychopharmacotherapy. For individuals presenting to care pre-pregnancy, shared decision making should include discussion of the risks of the medication during pregnancy and lactation, alternative treatments (and their associated efficacy and risks), the potential for psychiatric destabilization during the treatment transition, and the risks of the mental health condition if it is untreated.

**Use Perinatal Psychiatry Access Programs as a resource for management and treatment guidance for individuals with mental health conditions.** *(GOOD PRACTICE POINT)*

Perinatal Psychiatry Access Programs were developed to increase the capacity of obstetric care clinicians to care for pregnant, postpartum, and lactating individuals and those planning pregnancy who have perinatal mental health and substance use disorders. Perinatal Psychiatry Access Programs include 1) training and toolkits for perinatal mental health treatment; 2) real-time psychiatric consultation; and (3) resource and referral linkages to community-based mental health resources (96, 97) (see the “Health Systems Approaches” section for additional information).

**Safety and Efficacy of Pharmacologic Interventions for Perinatal Depressive Disorders**

**ACOG recommends that psychotherapy be considered a first-line treatment for mild-to-moderate perinatal depression.** *(STRONG RECOMMENDATION, MODERATE-QUALITY EVIDENCE)*

Psychotherapy, including CBT or interpersonal therapy, is an effective treatment for perinatal depression (98). The use of psychotherapy as an initial treatment approach aligns with the recommendations of multiple professional societies, including the American Psychiatric Association (99) and the National Institute for Health and Care Excellence (76). Although psychotherapy is appropriate as a first-line treatment for some pregnant and postpartum people, shared decision making and individualized patient-centered care are prudent. For example, for individuals who previously did not respond to psychological interventions, those for whom culturally responsive psychotherapy is not accessible, or those for whom the resource commitment for psychotherapy precludes engagement, pharmacotherapy should be considered as a first-line treatment option. Access to psychotherapy remains limited for many pregnant and postpartum individuals, including but not limited to those who are non-English-speaking, uninsured, or geographically isolated. Future research on the role of psychotherapy embedded within digital mental health tools may show promise in improving access to evidence-based psychotherapy.

**ACOG recommends that selective serotonin reuptake inhibitors be used as first-line pharmacotherapy for perinatal depression.** *(STRONG RECOMMENDATION, MODERATE-QUALITY EVIDENCE)*

No randomized trials have evaluated the efficacy or safety of pharmacotherapy for antenatal depression. The paucity of high-quality evidence is of particular importance...
Particular side effects are often mitigated by starting with half the initial exacerbation of agitation or anxiety symptoms. This lowers the potential for sexual dysfunction. Specifically, some patients, particularly those with comorbid anxiety symptoms, report an initial exacerbation of agitation or anxiety symptoms. This particular side effect is often mitigated by starting with half of the lowest dose and gradually up-titrating over 4–10 days. Insofar as most individuals with perinatal depression have concomitant anxiety symptoms (4), many experts consider dose titration to be a best practice for initiating treatment for perinatal depression. In addition, activating antidepressants such as fluoxetine, duloxetine, venlafaxine, and bupropion may exacerbate anxiety symptoms. Thus, in someone with moderate-to-severe comorbid anxiety, alternatives to these medications should be considered when appropriate.

Selective serotonin reuptake inhibitors are perhaps one of the best studied class of medications in pregnancy. Although randomized trials to assess safety have not been conducted, multiple observational studies support a favorable safety profile. Some of the safety risks that have been evaluated in the literature, referencing some of the highest quality data available, are described in Table 2. Importantly, much of the published literature uses a comparison framework of exposure to antidepressant medications for the treatment of depression compared with no exposures (ie, no history of depression and no use of antidepressant medications). These types of comparisons can lead to false or misleading conclusions because they do not account for the underlying medical illness.

The two neonatal risks consistently identified in the literature when the proper comparison groups were used include persistent pulmonary hypertension of the newborn (PPHN) and neonatal adaptation syndrome (with resultant neonatal intensive care unit [NICU] admission). Persistent pulmonary hypertension of the newborn is a rare but potentially fatal condition, characterized clinically by respiratory distress within the first hours of life and carrying a 10–20% risk of mortality. Biological plausibility for an association between SSRI exposure in utero and PPHN exists because serotonin exposure can cause vasoconstriction and smooth muscle cell proliferation in the fetal lung. In 2006, the U.S. Food and Drug Administration (FDA) issued a public health advisory regarding SSRIs based on a case–control study that identified increased odds of PPHN with exposure to SSRIs after 20 weeks of gestation (adjusted odds ratio [aOR] 6.1, 95% CI 2.2–16.8) (106). Multiple observational studies and meta-analyses have corroborated the association between antenatal exposure to SSRIs or SNRIs and PPHN (107–109). When ranked by individual drug-related risk, sertraline ranked as the least likely to be associated with PPHN, followed by escitalopram (108).

Notably, each of the aforementioned studies is limited by confounding by indication. Attempting to account for this residual bias, a cohort study nested within an administrative database of individuals with Medicaid insurance defined a relevant exposure to antidepressants as 90 days before delivery through delivery (110). Women were considered exposed if they filled at least one prescription for an antidepressant and International Classification of Diseases, Ninth Revision diagnostic...
### First-line Treatment Options for Mild, Moderate, or Severe Depression, Anxiety Disorder, and PTSD

<table>
<thead>
<tr>
<th>Medication</th>
<th>Starting dose and timing</th>
<th>Initial increase after 4 days</th>
<th>Second increase after 7 more days</th>
<th>Reassess Monthly (Increase as needed until symptoms remit)</th>
<th>Therapeutic range***</th>
<th>Individualized approach to titration</th>
</tr>
</thead>
<tbody>
<tr>
<td>sertraline*</td>
<td>25 mg qAM (if sedating, change to qHS)</td>
<td>↑ to 50 mg</td>
<td>↑ by 50 mg</td>
<td>50-200 mg</td>
<td>Slower titration (e.g., every 10-14 days) is often needed for patients who are antidepressant naïve or with anxiety symptoms</td>
<td></td>
</tr>
<tr>
<td>fluoxetine</td>
<td>10 mg qAM</td>
<td>↑ to 20 mg</td>
<td>↑ by 20 mg</td>
<td>20-80 mg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>citalopram**</td>
<td>10 mg qAM</td>
<td>↑ to 20 mg</td>
<td>↑ by 10 mg</td>
<td>20-40 mg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>escitalopram**</td>
<td>5 mg qAM</td>
<td>↑ to 10 mg</td>
<td>↑ by 10 mg</td>
<td>10-20 mg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Lowest degree of passage into breast milk compared to other first-line antidepressants; **Side effects include QTc prolongation (see below); ***May need higher dose in 3rd trimester and when treating an anxiety disorder

### Second-line Treatment Options for Mild, Moderate, or Severe Depression, Anxiety Disorder, and PTSD

<table>
<thead>
<tr>
<th>Medication</th>
<th>Starting dose and timing</th>
<th>Initial increase after 4 days</th>
<th>Second increase after 7 more days</th>
<th>Reassess Monthly (Increase as needed until symptoms remit)</th>
<th>Therapeutic range ***</th>
<th>Individualized approach to titration</th>
</tr>
</thead>
<tbody>
<tr>
<td>duloxetine</td>
<td>30 mg qAM</td>
<td>↑ to 75 mg</td>
<td>↑ by 30 mg</td>
<td>30-120 mg</td>
<td>Slower titration (e.g., every 10-14 days) is often needed for patients who are antidepressant naïve or with anxiety symptoms</td>
<td></td>
</tr>
<tr>
<td>venlafaxine</td>
<td>37.5 mg qHS</td>
<td>↑ to 50 mg</td>
<td>↑ by 50 mg</td>
<td>75-300 mg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>fluvoxamine</td>
<td>25 mg qHS</td>
<td>↑ to 100 mg</td>
<td>↑ by 50 mg</td>
<td>50-200 mg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>paroxetine</td>
<td>10 mg qAM</td>
<td>↑ to 20 mg</td>
<td>↑ by 10 mg</td>
<td>20-60 mg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>mirtazapine</td>
<td>7.5 mg qHS</td>
<td>↑ to 15 mg</td>
<td>↑ by 15 mg</td>
<td>15-45 mg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>bupropion HCL</td>
<td>150 mg qAM</td>
<td></td>
<td></td>
<td>300-450 mg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

***May need higher dose in 3rd trimester and when treating an anxiety disorder

### General side effects oral antidepressants

- Nausea (most common)
- Constipation/diarrhea
- Light-headedness
- Headaches

- Increased appetite/weight gain
- Sexual side effects
- Vivid dreams/insomnia

- **QTc prolongation (citalopram & escitalopram)

- Tell women to take medication with food and only increase dose if tolerating; otherwise wait until side effects dissipate before increasing.
- Start medication in morning; if patient finds it sedating recommend that she takes it at bedtime

### Medication Treatment for Moderate/Severe Depression with Onset in Late Pregnancy or Within 4 weeks postpartum – Brexanolone

Brexanolone is an FDA-approved medication that can be considered for treatment of moderate to severe postpartum depression.

- **is a formulation of intravenous allopregnanolone (a neurosteroid) that acts on GABA-A receptors
- requires an IV infusion over 60 hours
- has a faster onset of action (symptom reduction in 1-2 days) compared to available oral antidepressants, which generally take 4-8 weeks to work
- has been shown to maintain the reduction in depression symptoms at 30 days post-infusion

More information can be found at Reprotox and Lactmed on all pharmacological treatments

Fig. 1. Starting treatment for perinatal mental health conditions. FDA, U.S. Food and Drug Administration; GABA-A, gamma aminobutyric acid type A; IV, intravenous; mg, milligrams; PTSD, posttraumatic stress disorder; qAM, every morning; qHS, every bedtime.

Perinatal depression (or with an unknown depression status) many of the data compare newborns exposed to antidepressants with much of the literature on antenatal SSRI exposure, suggesting that they are related to serotonergic toxicity. As poorly understood. Some hypothesize that the symptoms are related to serotonergic withdrawal, whereas others propose that they are related to serotonergic toxicity. The symptoms typically emerge within the first few days of life and resolve within 2 weeks (111). The estimated prevalence of neonatal adaptation syndrome varies widely due to heterogeneity in the case definition and ranges in the published literature from 5% to 85% (112), although most studies estimate the incidence to be 10% to 30%. Fluoxetine and paroxetine have been implicated more commonly in neonatal adaptation syndrome (113).

The phenomenology of neonatal adaptation syndrome is poorly understood. Some hypothesize that the symptoms are related to serotonergic withdrawal, whereas others suggest that they are related to serotonergic toxicity. As with much of the literature on antenatal SSRI exposure, many of the data compare newborns exposed to antidepressant medications with newborns not exposed to either perinatal depression (or with an unknown depression status) or antidepressant medications (112, 114). Importantly, although neonatal adaptation syndrome is self-limited without evidence of long-term risks, pregnant individuals taking an SSRI or SNRI should be counseled on the potential for antidepressant exposure and seek medical evaluation if symptoms persist. Supportive measures, such as skin-to-skin contact and frequent feedings, can be used for neonatal symptom management.

To mitigate against the risk of neonatal adaptation syndrome, some have suggested discontinuing or decreasing the dose of the SSRI or SNRI in the third trimester, before delivery. Observational data suggest that these changes are not associated with neonatal adaptation syndrome risk mitigation (58, 59). Moreover, tapering antidepressant medication increases the risk of symptom relapse. Thus, discontinuing or decreasing the dose of the antidepressant before delivery to reduce the risk of neonatal adaptation syndrome is not recommended.

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. The decision to use brexanolone should balance the benefits (eg, rapid onset of action) with the risks and challenges (eg, limited access, high cost, lack of data supporting safety with breastfeeding, requirement for inpatient monitoring during the infusion, lack of efficacy data beyond 30 days).

Brexanolone is a neurosteroid that mimics the action of allopredhynolone, a progesterone metabolite that acts as a positive allosteric modulator of the GABA-A receptor. Three randomized trials (N=267 total) evaluated the efficacy of brexanolone for the treatment of depression with onset in the third trimester or within 4 weeks postpartum. Compared with placebo, brexanolone led to a greater response within 24 hours (risk ratio 1.34, 95% CI 1.03–1.73) (117). The integrated analyses demonstrated an effect size for only 7 days (risk ratio 1.32, 95% CI 1.01–1.73). A marked clinical improvement was seen in the placebo arm, which, given the observed duration, may reflect the benefits of self-care and sleep that were likely facilitated by hospitalization. Based on these results, in 2019, brexanolone became the first medication to be FDA-approved for the treatment of moderate-to-severe postpartum depression. Brexanolone is given intravenously over 60 hours. Because a risk of sedation or loss of consciousness was identified, brexanolone is currently approved only within supervised medical settings that can support continuous pulse oximetry (118). Registration in a Risk Evaluation and Mitigation Strategy (REMS) registry is required, and brexanolone is administered only in certified health care facilities.

No comparative effectiveness trials have been conducted to assess the relative efficacy of brexanolone compared with SSRIs or SNRIs. The perceived advantages of brexanolone are the large effect size and quick time to response and remission. Disadvantages include the
Fig. 2. Follow-up treatment of perinatal mental health. EPDS, Edinburgh Postnatal Depression Scale; GAD-7, Generalized Anxiety Scale 7; mg, milligrams; PC-PTSD, Primary Care Post Traumatic Stress Disorder; PCP, primary care physician; PHQ-9, Patient Health Questionnaire-9.
requirement for hospitalization for administration and monitoring, which adds substantively to the already significant cost of treatment. Furthermore, data on outcomes beyond 30 days have yet to be published, which raises questions regarding long-term efficacy. Finally, although expected to rapidly clear from breast milk, cessation of breastfeeding is recommended during and for 4 days after treatment with brexanolone, whereas breastfeeding can continue uninterrupted with SSRI or SNRIs. Although the treatment of refractory postpartum depression is a logical role for brexanolone in treatment algorithms, efficacy for this specific indication has not been evaluated.

Safety and Efficacy of Pharmacologic Interventions for Perinatal Anxiety Disorders

ACOG recommends that selective serotonin reuptake inhibitors be used as first-line psycho-pharmacotherapy for perinatal anxiety. Serotonin-norepinephrine reuptake inhibitors 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.

Perinatal anxiety disorders may be more common than perinatal depression and are associated with adverse perinatal outcomes (1). Yet a recent systematic review identified no effectiveness or comparative effectiveness evidence to inform the treatment of perinatal anxiety disorders (52). Rather, as with antenatal depression, extrapolation of treatment from the general population is required. As with depression, comparative effectiveness studies of psychotherapy (specifically CBT) compared with pharmacotherapy in the general adult population are limited but demonstrate similar efficacy (8, 119).

Both SSRIs and SNRIs are effective for the treatment of generalized anxiety disorder in the general adult population (120). Comparisons between specific medications are limited, but the side-effect and safety profile of SSRIs renders them a first-line recommendation. As with perinatal depression, sertraline and escitalopram are favored first-line SSRIs in treatment-naive individuals because of their efficacy and tolerability profiles (86). However, other factors, such as comorbid illnesses, potential drug–drug interactions, cost, and side-effect profile, should be considered for each individual patient. Most experts recommend initiation of SSRIs or SNRIs for anxiety at half of the lowest recommended dose range to avoid early side effects such as agitation or insomnia (121). Additionally, the treatment of anxiety and anxiety-related conditions often requires titration to doses that are higher than those for depression. Finally, experts recommend that individuals with anxiety and anxiety-related conditions be in remission longer than those with an indication of depression before considering tapering or discontinuing psychopharmacotherapy.

The DSM-5 separates PTSD and OCD into discrete sections from anxiety disorders (2). Although they are clinically important in pregnant and postpartum people, their treatment often requires additional support by psychiatric professionals, including more specialized psychotherapy. Thus, although the pharmacotherapy approach for these anxiety-related disorders is identical to that for anxiety disorders, more specific management details are not included in this Clinical Practice Guideline.

ACOG recommends that benzodiazepines be avoided or prescribed sparingly as a treatment for perinatal anxiety. (STRONG RECOMMENDATION, MODERATE-QUALITY EVIDENCE)

If benzodiazepines are prescribed, they should preferably be prescribed transiently as a bridge until SSRIs, SNRIs, or psychotherapy achieve their expected response. Benzodiazepines are an effective and rapid-onset treatment for generalized anxiety disorder in the general adult population (120, 122). However, due to their side-effect profile and addictive potential, they are not recommended as first-line treatment for the treatment of anxiety disorders. Avoidance is particularly prudent in the setting of a history of substance use disorder. Other agents, such as hydroxyzine, can be used as an adjuvant treatment, particularly for the acute management of associated insomnia.

However, benzodiazepines do have a clinical role in the pharmacologic management of anxiety disorders in specific clinical contexts. Specifically, they are often used to manage acute symptoms until the benefits of SSRI or SNRI are achieved in the setting of moderate-to-severe anxiety symptoms. Other settings in which benzodiazepines may be beneficial include when first-line treatment options have not been effective. In these settings, obstetric care professionals should consult with or refer to a perinatal mental health subspecialist, because psychotherapy has a stronger evidence base for anxiety treatment than benzodiazepines do.

Although their use as primary treatment for anxiety is not recommended due to their side effects and addictive potential, benzodiazepines have a limited but overall relatively reassuring perinatal safety profile. Although earlier observational data suggested an association between first-trimester benzodiazepine exposure and cleft lip or palate (123), more recent studies have not demonstrated this association (124). Meta-analytic data demonstrate associations between preconception benzodiazepine exposure and ectopic pregnancy, as well as early-pregnancy benzodiazepine exposure and spontaneous abortion, although the strength of evidence was low. Benzodiazepine exposure during pregnancy has been associated with an increased risk of neonatal sedation, decreased muscle tone, respiratory compromise, and NICU admission. For this reason,
<table>
<thead>
<tr>
<th>Exposure Group</th>
<th>Comparison Group</th>
<th>Outcome</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pregnant women exposed to antidepressants in the 1st trimester*</td>
<td>Pregnant women with depression (propensity score adjustment for depression severity)</td>
<td>Congenital cardiac malformations</td>
<td>aOR 1.02 95% CI 0.90–1.15</td>
</tr>
<tr>
<td>Pregnant women exposed to SSRIs or SNRIs in the 1st trimester†</td>
<td>Pregnant women with a diagnosis of depression (no adjustment for depression severity)</td>
<td>Pregnancy loss</td>
<td>SSRI: aARR 1.2 95% CI 0.94–1.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SNRI: aARR 1.7 95% CI 1.2–2.6</td>
</tr>
<tr>
<td>Pregnant women exposed to SSRIs or SNRIs‡</td>
<td>Pregnant women with a diagnosis of depression (no adjustment for depression severity)</td>
<td>Preeclampsia</td>
<td>SSRI: RR 1.0 95% CI 0.93–1.07</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SNRI: RR 1.5 95% CI 1.26–1.83</td>
</tr>
<tr>
<td>Pregnant women exposed to SSRIs§</td>
<td>Women exposed to SSRIs before pregnancy but not during pregnancy (propensity score adjustment for probability of treatment)</td>
<td>Gestational diabetes</td>
<td>RR 1.1 95% CI 0.84–1.44</td>
</tr>
<tr>
<td>Pregnant women exposed to SSRIs‡</td>
<td>Pregnant women with a psychiatric diagnosis not exposed to SSRIs</td>
<td>Preterm birth</td>
<td>aOR 0.84 95% CI 0.74–0.96</td>
</tr>
<tr>
<td>Pregnant women exposed to SSRIs‡</td>
<td>Pregnant women with a psychiatric diagnosis not exposed to SSRIs</td>
<td>FGR, SGA</td>
<td>aOR 0.92 95% CI 0.77–1.10</td>
</tr>
<tr>
<td>Pregnant women exposed to SSRIs in proximity to delivery‡</td>
<td>Pregnant women with mood or anxiety disorder</td>
<td>Postpartum hemorrhage</td>
<td>aRR 1.47 95% CI 1.33–1.62</td>
</tr>
<tr>
<td>Pregnant women exposed to SSRIs‡</td>
<td>Pregnant women with depression (propensity score adjustment for depression severity)</td>
<td>PPHN</td>
<td>aOR 1.28 95% CI 1.01–1.64**</td>
</tr>
<tr>
<td>Pregnant women exposed to SSRIs‡</td>
<td>Pregnant women with depression</td>
<td>NICU admission</td>
<td>OR 2.64 95% CI 1.58–4.40</td>
</tr>
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</table>

(continued)
Perinatal Safety Outcomes Associated With Psychopharmacotherapy Exposure in Pregnancy (continued)

<table>
<thead>
<tr>
<th>Exposure Group</th>
<th>Comparison Group</th>
<th>Outcome</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pregnant women exposed to SSRIs(^{1,2})</td>
<td>Pregnant women with a depression-related psychiatric disorder</td>
<td>Neurodevelopmental delays</td>
<td>Speech–language disorder: aHR 1.20&lt;br&gt;95% CI 0.97–1.49&lt;br&gt;Motor disorder: aHR 1.18&lt;br&gt;95% CI 0.81–1.72</td>
</tr>
</tbody>
</table>

aHR, adjusted hazard ratio; aOR, adjusted odds ratio; aRR, adjusted relative risk; FGR, fetal growth restriction; NICU, neonatal intensive care unit; OR, odds ratio; PPHN, persistent pulmonary hypertension of the newborn; SGA, small for gestational age; SNRI, serotonin-norepinephrine reuptake inhibitor; SSRI, selective serotonin reuptake inhibitor.


8Restricted to term deliveries in the absence of congenital cardiac malformations and lung hypoplasia.


tapering off of or avoiding use in the third trimester is often recommended, although the absolute risk for NICU admission is low (133/1,000, 95% CI 17–274) and residual confounding and existing hospital protocols may explain some of the observed risk (52). Case reports exist of neonatal benzodiazepine withdrawal after in utero exposure, including the risk of neonatal seizure, although this is also uncommon. Although tapering in the third trimester has been recommended, it is also critical to consider the risks of a taper for the pregnant individual and the fetus. For example, if attempts to taper the benzodiazepine precipitate re-emergence of anxiety, the benefits of continuation may outweigh the risks.

Clinically significant risks of benzodiazepine use include dependence, withdrawal, and misuse; for these reasons, their use as a first-line treatment for anxiety disorders is not recommended. If benzodiazepines are prescribed, the lowest effective dose should be used. For those with hepatic disease or preecclampsia, benzodiazepines that bypass first-pass metabolism (eg, lorazepam, oxazepam, temazepam) should be preferentially selected. Alprazolam should be avoided due to its high addictive potential and heightened risk of acute withdrawal symptoms after cessation. If started, experts recommend continuing the benzodiazepine as needed for 2–4 weeks, until a response to the SSRI has been achieved. The benzodiazepine can then be tapered by 25–50% per week. Abrupt cessation is not recommended due to the risk of withdrawal.
Bipolar disorders include both bipolar type I and bipolar type II; the epidemiology and clinical perinatal risks are discussed in detail in ACOG Clinical Practice Guideline Number 4, "Screening and Diagnosis of Mental Health Conditions During Pregnancy and Postpartum" (1). Untreated bipolar disorder carries a 25–50% increased risk of postpartum psychosis, representing a 100-fold increased risk compared with the general population (125). Postpartum psychosis, in turn, increases the risk of suicide and homicide (126). Outside of the risk of postpartum psychosis, untreated bipolar disorder carries a profound risk of mood worsening postpartum, including sevenfold increased odds of hospitalization (127). In addition to the risks to the pregnant woman, untreated bipolar disorder is associated with negative birth outcomes, including fetal growth restriction, preterm birth, and adverse neurodevelopmental outcomes (128). Thus, the goals of treatment for bipolar disorder are both remission of symptoms and prevention of relapse.

Bipolar disorder in pregnancy and postpartum ideally is treated by psychiatrists or other mental health specialists in collaboration with obstetric care professionals. Typical treatments include mood-stabilizing agents such as lithium, anticonvulsants (eg, lamotrigine), antipsychotic medications (eg, haloperidol, aripiprazole, lurasidone, olanzapine, quetiapine, risperidone), or combination therapy. A preconception consultation provides an ideal setting to engage in shared decision making regarding medication exposures in pregnancy. However, in general, for individuals who are taking medications at the time of pregnancy and are clinically stable, it is preferable to continue the same regimen rather than switch medications. Switching requires a cross-taper to optimize maternal stability, exposes the fetus to additional medications, and may increase the risk of recurrent mood episodes. One notable exception is valproate. Due to the risk of teratogenicity (129) with exposure in the first trimester, most experts recommend a transition away from carbamazepine and oxcarbazepine before pregnancy or, at least, increased folate supplementation at 4 mg daily. If an individual is already pregnant and taking carbamazepine or oxcarbazepine, the decision to switch medications should balance whether the individual is already outside of the teratogenic window alongside the risk of destabilization with any medication transition.

For individuals who have not previously received pharmacotherapy, the decision regarding which medication to initiate can be guided by the presence or absence of mania as well as whether the individual is prepregnancy compared with already pregnant. For those with bipolar I disorder experiencing mania, lithium is often used as first-line treatment because of its efficacy in mania treatment, although consultation with a psychiatric care professional is prudent when initiating lithium.

Many perinatal individuals with bipolar disorder will present with a depressive phenotype (4). Commonly used medications include lamotrigine, quetiapine, and lurasidone. Lamotrigine is a preferred option for the treatment of bipolar II disorder for reproductive-aged females due to the low risk of teratogenicity. Lamotrigine is metabolized by UGT1A4, which is upregulated in pregnancy, increasing the clearance of the drug by up to 330% (130, 131). Pragmatically, this results in the need for a twofold to threefold dose increase in pregnancy, although there is high interindividual variability (132). Up-titration of lamotrigine needs to occur slowly because of the risk of agranulocytosis and rare Stevens–Johnson syndrome. This can pose a challenge in achieving a therapeutic dose during gestation if lamotrigine is started during pregnancy, given the prolonged time window to achieve efficacy (133). However, if an individual is stable on lamotrigine before pregnancy, obtaining a trough drug level can allow for monitoring of trough levels throughout pregnancy to support therapeutic dosing. The dose needs to be carefully down-titrated again postpartum to avoid toxicity, with close monitoring of the patient clinically.

Second-generation antipsychotics (eg, quetiapine, olanzapine, risperidone, aripiprazole) are more often prescribed compared with first-generation antipsychotics (eg, haloperidol, chlorpromazine) due to fewer extrapyramidal side effects and improved tolerability (134). However, this benefit should be balanced with the knowledge that there are fewer published data regarding the use of second-generation antipsychotics in pregnancy. Quetiapine has the lowest placental passage and thus is often a preferred first-line antipsychotic (135). Additionally, quetiapine has established efficacy for the treatment of bipolar disorder in randomized trials in the general adult population compared with placebo (136, 137), lithium (138), and paroxetine (138). However, quetiapine is associated with metabolic risks, including increased weight gain and risk of gestational diabetes.

Alongside quetiapine, lurasidone is one of three FDA-approved medications for the treatment of depression symptoms in the setting of bipolar disorder. The efficacy, tolerability, and lower propensity for metabolic complications make lurasidone a compelling clinical option for the treatment of bipolar disorder with depressive symptoms (139). However, as a newer agent, limited data exist on the safety and appropriate dosing of lurasidone during...
pregnancy (140). Reporting outcomes with lurasidone and other agents in the National Pregnancy Registry for Psychiatric Medications is recommended to enhance this knowledge (12, 141).

As with pharmacotherapy for depression and anxiety during pregnancy, general principles of treatment, regardless of agent used, include using the minimal effective dose and avoiding polypharmacy if clinically possible. Notably, polypharmacy is often clinically required in the setting of bipolar disorder (142). For anticonvulsants, supplementing with 4 mg of folic acid daily before pregnancy and during early pregnancy is recommended to reduce the risk of fetal neural tube defects (143). Some experts also recommend 4 mg of folic acid in the setting of lithium use to reduce congenital cardiac defects (144).

Compared with continued use of mood-stabilizing medication for bipolar disorder, two cohort studies found that discontinuing use of medications during pregnancy is associated with an increased risk of recurrence (adjusted hazard ratio 2.2, 95% CI 1.2–4.2) and reduced time to recurrence of mood disorders (2 weeks vs 28 weeks; adjusted hazard ratio 12.1, 95% CI 1.6–91) (52). Although pharmacotherapy represents an exposure, for most individuals and most medications, the risk of this exposure is lower than the risks associated with symptom exacerbation or relapse.

**ACOG recommends against valproate as a first-line treatment for bipolar disorder. Valproate should be avoided in pregnancy because reasonable alternatives usually can be identified. (STRONG RECOMMENDATION, MODERATE-QUALITY EVIDENCE)**

Valproate is not recommended during pregnancy during any trimester due to the risks of teratogenicity as well as adverse effects on neurodevelopment. The majority of relevant data are derived from valproate use in the setting of epilepsy. Nonetheless, reasonable alternatives exist for the treatment of bipolar disorder; thus, valproate should be avoided.

Prenatal exposure to valproate is associated with a 1–3.8% risk of neural tube defects, with a corresponding dose–response relationship (145–152). Other congenital malformations associated with valproate use include craniofacial anomalies (153), limb abnormalities (154), and cardiovascular anomalies (155–157). A “fetal valproate syndrome” has been described, with features of fetal growth restriction, facial dysmorphology, and limb and heart defects (158–160). Varying degrees of cognitive impairment, including mental development delay (161), autism (162–165), and Asperger syndrome (163), have been reported with fetal valproate syndrome (163, 166, 167). Acute neonatal risks include hepatotoxicity (168), coagulopathies (169), neonatal hypoglycemia (170), and withdrawal symptoms (171).

**ACOG recommends that pregnant individuals using antipsychotic medications undergo screening for gestational diabetes mellitus, consistent with standard prenatal care. (STRONG RECOMMENDATION, MODERATE-QUALITY EVIDENCE)**

Many of the existing antipsychotic medications are associated with metabolic side effects, including weight gain (172) and metabolic syndrome (173), including insulin resistance. Evidence regarding the association between exposure to antipsychotic medications and gestational diabetes is conflicting (174–176); thus, this concern should not inform clinical decision making regarding discontinuation of an antipsychotic agent. These medications can be continued in individuals with a diagnosis of diabetes or gestational diabetes. Additionally, no evidence exists to support the practice of early screening for gestational diabetes based on exposure to psychiatric medications.

**ACOG recommends that pregnant patients taking lithium in the first trimester receive a detailed ultrasound examination in the second trimester. (STRONG RECOMMENDATION, MODERATE-QUALITY EVIDENCE)**

Early literature on lithium exposure in pregnancy identified a markedly increased risk of teratogenicity, with 400-fold increased odds of Ebstein anomaly associated with first-trimester lithium exposure. More contemporary data affirm increased odds of congenital anomalies, but with an odds ratio of 1.81 (95% CI 1.35–2.41) for congenital anomalies overall and an odds ratio of 1.86 (95% CI 1.16–2.96) for cardiac anomalies (177). These more contemporary data shift the risk/benefit ratio and render lithium a reasonable treatment option, particularly for individuals with a history of mania or for whom lithium has been effective in the past. Although the absolute risk and absolute risk increase are relatively low, a detailed ultrasound examination to evaluate the fetal anatomy with a particular focus on cardiac anatomy is recommended. In centers where fetal echocardiography is available, this can be considered (178).

**It is imperative that lithium dosing be monitored during pregnancy and postpartum. (GOOD PRACTICE POINT)**

The same tenets of psychopharmacology apply for lithium, including using the lowest clinically effective dose. Because lithium has a narrow therapeutic window, ideally the therapeutic goal level would be established before pregnancy in an individual who is symptomatically stabilized. For individuals who enter pregnancy without these data, a serum lithium concentration (taken 12 hours after dosing) of 0.6–1.0 mEq/L can be used as an appropriate therapeutic level (with symptom assessment to corroborate that therapeutic efficacy has been achieved). However, lithium is renally metabolized and dose
increasing during pregnancy is required to maintain a therapeutic response. To minimize fetal exposure, avoidance of high peak concentrations can be achieved by changing the dose to twice daily.

Lithium toxicity often presents at serum lithium concentrations of 1.5 mEq/L or greater and includes symptoms such as nausea, vomiting, lethargy, tremor, and fatigue. This can progress to symptoms such as confusion, agitation, seizures, hypothermia, and loss of consciousness at higher concentrations. Due to the potential to alter the glomerular filtration rate, careful attention to lithium dosing is required in the setting of preeclampsia, with concomitant nonsteroidal anti-inflammatory medications postpartum, or in the setting of renal impairment. After delivery, as the glomerular filtration rate rapidly returns to baseline, careful but rapid down-titration is required to prevent toxicity. Similarly, obstetric conditions that alter plasma volume, such as hyperemesis or acute blood loss, can affect lithium concentrations; these conditions necessitate closer lithium dose monitoring.

Lithium crosses the placenta, with umbilical cord drug levels mirroring serum levels within the pregnant woman (179). Higher neonatal lithium drug levels are associated with hypotonia, lethargy, and respiratory difficulties in the newborn. To mitigate this risk, some experts recommend holding the lithium dose at the onset of labor or 24–48 hours before a scheduled induction or cesarean delivery. Lithium is then reinitiated postpartum at the prepregnancy dose (if applicable), or dosing can be guided by drug trough levels for the first 2 weeks postpartum (180).

Recommendations regarding breastfeeding or lactation in the setting of lithium exposure are controversial. Serum infant levels in infants fed with breast milk ranged from 10% to 60% of maternal serum concentrations (181). Because of immature kidney function and the risk of relative dehydration, lithium toxicity in newborns is a clinical risk. Thus, if lactation is being considered, close coordination of care among the obstetrician, pediatrician, and psychiatrist is required.

Safety and Efficacy of Pharmacologic Interventions for Postpartum Psychosis

Postpartum psychosis is a psychiatric emergency. Treatment options that are within the scope of obstetricians, while awaiting further assessment, recommendations, and a treatment plan by a psychiatrist, include sedating antipsychotic medications such as olanzapine or haloperidol that can be used with benzodiazepines such as lorazepam. If haloperidol is used, benzotropine or diphenhydramine should be administered to prevent extrapyramidal symptoms and dystonia. (GOOD PRACTICE POINT)

Postpartum psychosis is a psychiatric emergency. Given that postpartum psychosis is associated with infanticide and suicide, psychiatric hospitalization is generally indicated. Therefore, an assessment by a psychiatrist that includes an assessment of risk of harm to self and the infant is critical. This should include one-on-one continuous observation to ensure the safety of the patient and their infant. Many hospitals have policies regarding newborn separation. Given that postpartum psychosis can present with symptoms that can appear like delirium, it is important to assess for delirium, which is caused by another medical condition. It is also important to evaluate for medical illnesses that can either cause or exacerbate psychiatric illness.

Health care professionals are encouraged to administer pharmacotherapy to stabilize the patient while awaiting further assessment and recommendations by a psychiatrist. Initiation of a sedative antipsychotic medication such as olanzapine or haloperidol with short-term benzodiazepines such as lorazepam is the first-line treatment for postpartum psychosis. If intramuscular haloperidol is used in a dose greater than 5 mg, benzotropine or diphenhydramine should be administered to prevent extrapyramidal symptoms and dystonia. Once maternal and infant safety are secured, an extensive interview of the partner or family members present is also included as part of the psychiatric evaluation, diagnosis, and risk assessment (49).

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APPENDICES

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CONFLICT OF INTEREST STATEMENT

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