

Pregnancy Mental Healthcare Challenges-MotherToBabyFL Experience

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MotherToBaby FL University of South Florida

OTIS 2023

Charleston, SC





MotherToBaby FL

- University of South Florida 2015
 - Start MTB affiliate/Exposure clinic
 - Fetal therapy
 - Fetal echocardiography
- Perinatal genetics
- Founded in 2018, became the 14th MTB site
- Exposure clinic









Outreach

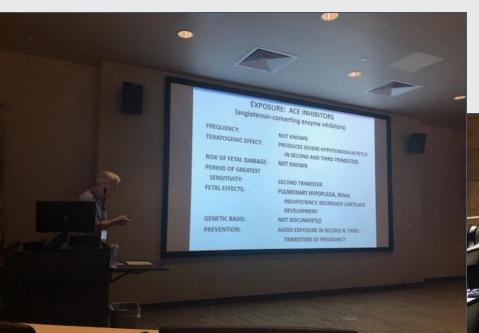








Human Teratogen's Course 2019



| MDD and (Wisner et | al, Am J P | iociated v sychiatry 1 | rm B with a sim | | l of nisk (| or PT |
|-----------------------|-------------------|---------------------------|--|----------------|------------------|------------|
| | No Med, No MDD | Mart | and the second sec | Med partial | MDO pertial- | P- valu |
| Gest Age | 39.1 | 38.4 | 38.4 | 39.2 | no liled 39.2 | |
| ≥ 37 | 94 | 77 | 79 | 96 | 91 | 0.85 |
| 34 to ≤37 | 5 | 17 | 16 | 4 | 4.5 } | 0.03 |
| <34 | | | | _ | | |

Data from Huybrechts et al NEJM: PTB for SSRI (14%) vs. No Exposure (11.2%) PTB for SSRI/MDD/PP(14.3%) vs. No Exposure/MDD/PP (14%)























MTBFL

- Created "Exposure clinic"
- All MTB inquiries
 - 2019 163 inquiries
 - 2020 265 inquiries
 - 2021 1,279 inquiries
 - overall 1,707 inquires -- 2,809 unique exposures
 - 2022 601 (↓ from Covid vaccine year)
 - 74% traditional model
 - 26% Exposures clinic

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RESEARCH ARTICLE



A novel clinic structure for exposure counseling during pregnancy

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Abstract

Background: Congenital malformations and adverse fetal outcomes secondary to teratogenic exposures are major public health concerns. We review all inquiries made to the Florida MotherToBaby service center as well as the novel Exposure Clinic, which offers direct patient counseling.

Methods: We completed a retrospective review of all inquiries made to the MotherToBaby Florida service and the Exposure Clinic consults between its inception January 2019 through December 2021. All de-identified data was collected at the time of the inquiry and stored in the OTIS database. Aggregate data was then extracted and descriptive statistics were performed. A p value of less than .05 indicated statistical significance.

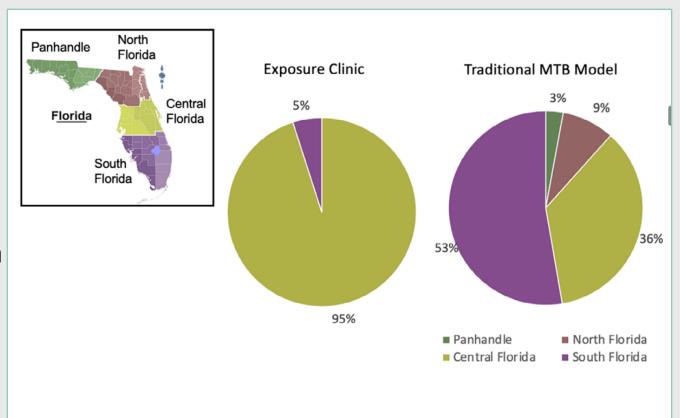
Results: In 2019, there were 163 total inquiries, 265 in 2020, and 1,279 in 2021. These 1,707 inquiries covered 2,809 unique exposures. In the Exposure Clinic, 49 patients were seen in 2019, 140 in 2020, and 263 in 2021. The clinic's geographical reach increased over time with patients from 22 different counties being seen in 2021. Of all individual exposures, 45% were evaluated in 452 unique encounters in the Exposure Clinic and 55% were evaluated in 1255 unique encounters via traditional modes of contact. The average number of exposures discussed at each clinic appointment 2.8 versus 1.2 in inquiries via traditional methods. The majority of all exposures were regarding prescription





Exposure clinic

- In person or telehealth
- TIS and MFM (40-60 minutes)
- Pre Covid: 4 ½ days per month
- Currently: 6-7 ½ days per month
- 2019 49
- 2020 140
- 2021 263
- The average number of exposures discussed at each clinic appointment 2.8 vs. 1.2 in inquiries via traditional methods







| TABLE 2 Timing of expo | osures |
|------------------------|--------|
|------------------------|--------|

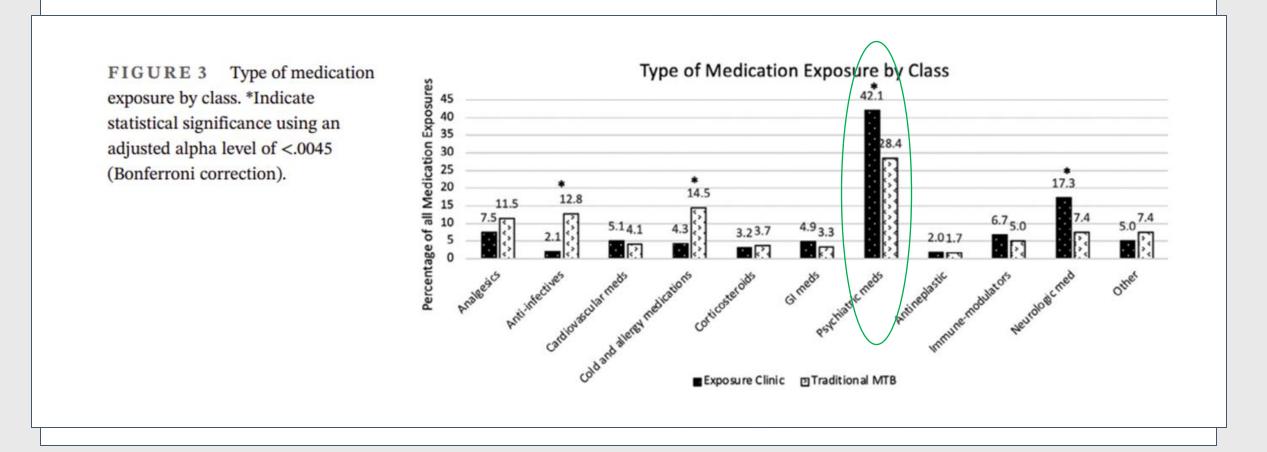
| Timing of exposure | Exposure clinic inquiries $N = 452$ (%) | Traditional MTB inquiries $N = 1,234^{a}$ (%) | p value |
|--------------------|---|---|--------------------|
| Adoption | 1 (0.2%) | 6 (0.5%) | .454 |
| Preconception | 83 (18.4%) | 113 (9.2%) | <.001 ^b |
| Pregnancy | 318 (70.4%) | 386 (31.3%) | <.001 ^b |
| Pre-exposure | 17 (3.8%) | 444 (36.0%) | <.001 ^b |
| Breastfeeding | 2 (0.4%) | 78 (6.3%) | <.001 ^b |
| Pre-exposure | 4 (0.9%) | 140 (11.3%) | <.001 ^b |
| Paternal exposure | 0 (0.0%) | 5 (0.4%) | .175 |
| Multiple | 26 (5.7%) | 28 (2.3%) | <.001 ^b |
| Missing/declined | 1 (0.2%) | 34 (2.8%) | .001 ^b |

^a21 inquiries via traditional MTB communication were considered "out of realm."

^bIndicate statistical significance using an adjusted alpha level of <.005 (Bonferroni correction).









Exposure clinic

- Psychiatric conditions- most common health condition inquired about
 - McKee, 2020: sample of 40 M deliveries noted an increase of perinatal mood/anxiety disorders from 18.4/1000 to 40.4/1000
 - Severe mental illness 4.2/1000 to 8.1/1000
- Less than 50% if individuals continue psychiatric medications
 - Though discontinuation may lead to poor pregnancy outcomes

Cantwell et al., 2011; Cohen et al., 2006; Petersen et al., 2014 Jablensky, Morgan, Zubrick, Bower, & Yellachich, 2005



Risks of poorly treated mental health conditions

- Maternal: Suicide, infanticide, hypertension/PEC, substance abuse, limited engagement with medical care and self-care, pp depression, impaired infant attachment, disrupted relationship with partner
- Fetal: SGA, PTB



Trost et al. 2023





Exposure clinic



- Our experience:
 - Many patients dropped from practice
 - Access to healthcare providers who are comfortable and knowledgeable regarding treatment of psychiatric disease in pregnancy is limited in the state of Florida, which has the lowest amount of per capita mental health spending in the country (FY, 2002, FY 2011, FY 2012 SMHA-Controlled Mental Health Expenditures per Capita)
 - Cannot get timely appointments
 - Cost prohibitive
 - Opioid use?



Exposure clinic strengths and reach

- Physician or healthcare provider/patient relationship
- Follow up, medical advice, provide medication adjustment
- Ability to do Telehealth
- Statewide availability
- Ultimately unmasks the other unmet needs of our community....



2019-2022

| | Exposures (clinic and traditional model) | Inquires | Average # of exposures | Highest number of exposures per inquiry |
|-------------------|--|----------|------------------------|--|
| Psychiatric | 007 | F 4 2 | 1 70 | |
| | 887 | 513 | 1.73 | / |
| All | 3950 | 2308 | 1.71 | 16 |
| % of psych to all | | | | |
| | 22.5% | 22.2% | | |
| | | | | |

Reka Muller, MTBFL



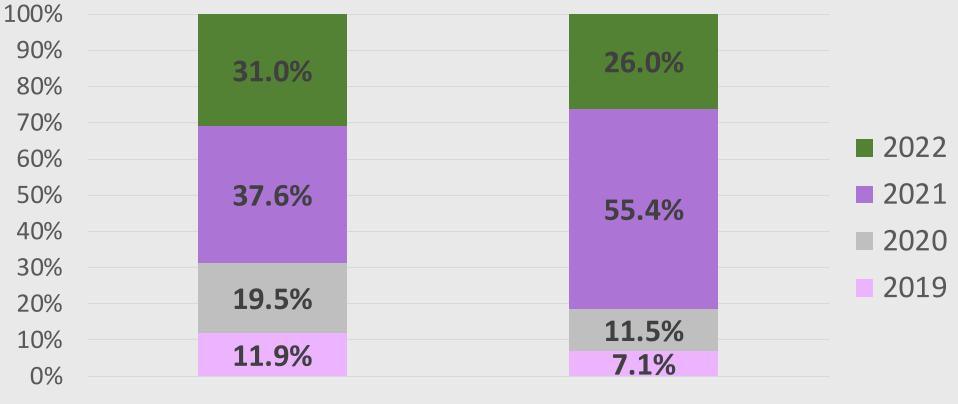


Percent of inquires based on delivery model and type of exposure



1960 AS THE TERATOLOGY SOCIETY

Years



Psychiatry

All

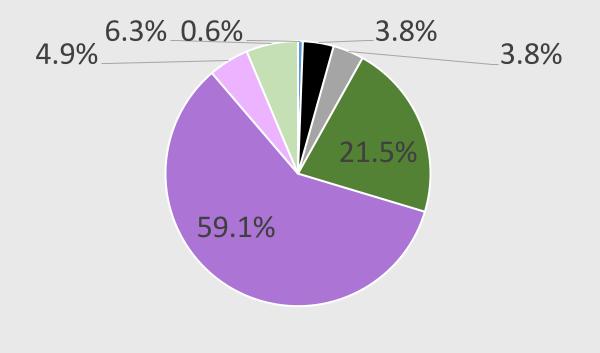
USFHealth

Reka Muller, MTBFL





Category of Consult (exposure clinic and traditional model) – Psychiatric medications



Adoption Breastfeeding Pre-Exposure Pregnancy

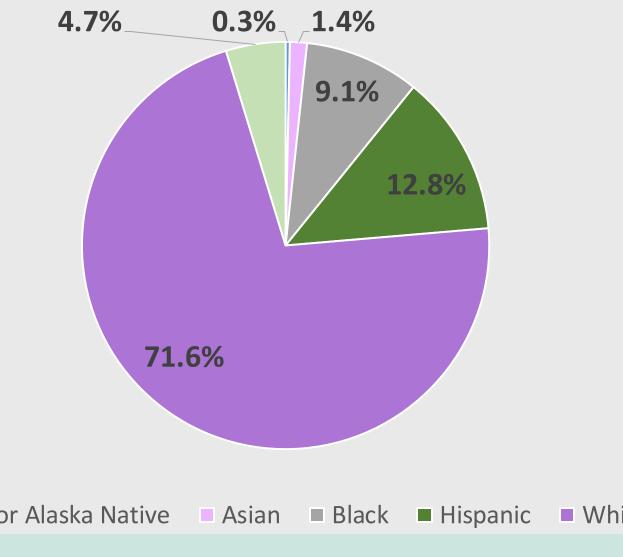
- Breastfeeding
- Preconception
- Pregnancy Pre-Exposure

Reka Muller, MTBFL





Race/Ethnicity – Psychiatric medications



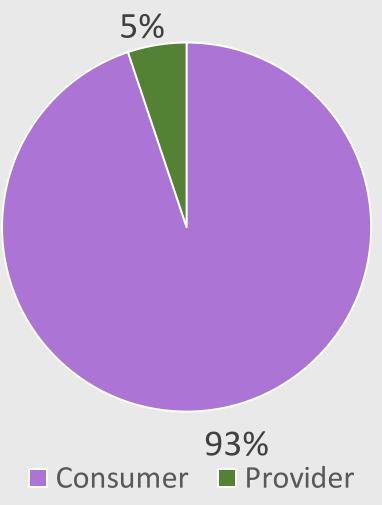
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White American Indian or Alaska Native Multiple





Consumer/Provider – Psychiatric medications

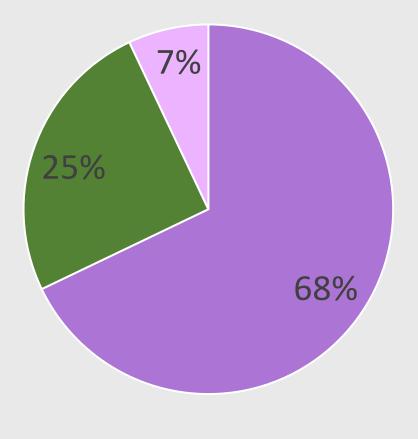


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Insurance – Psychiatric medications



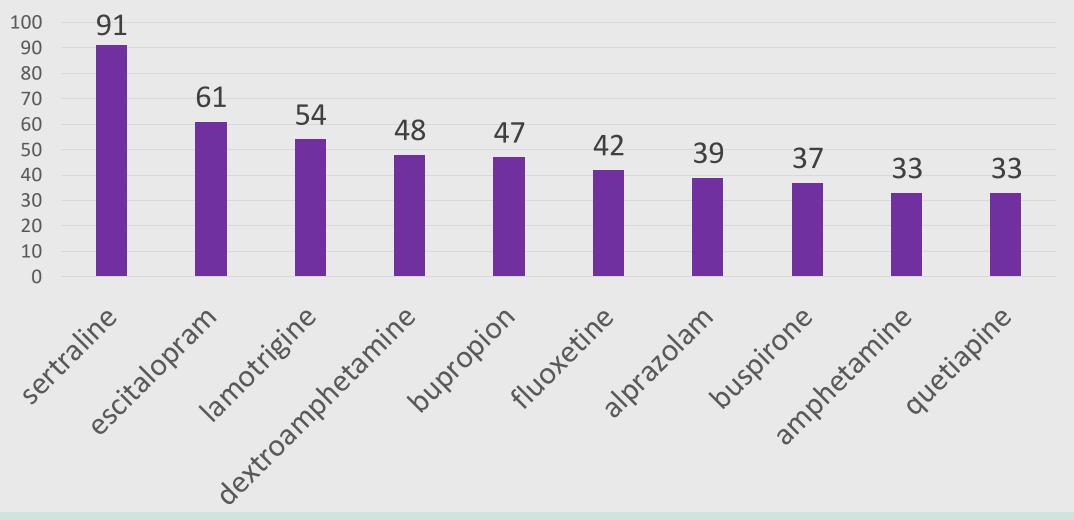
Private Medicaid Tricare

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Most common psychiatric medications (n)

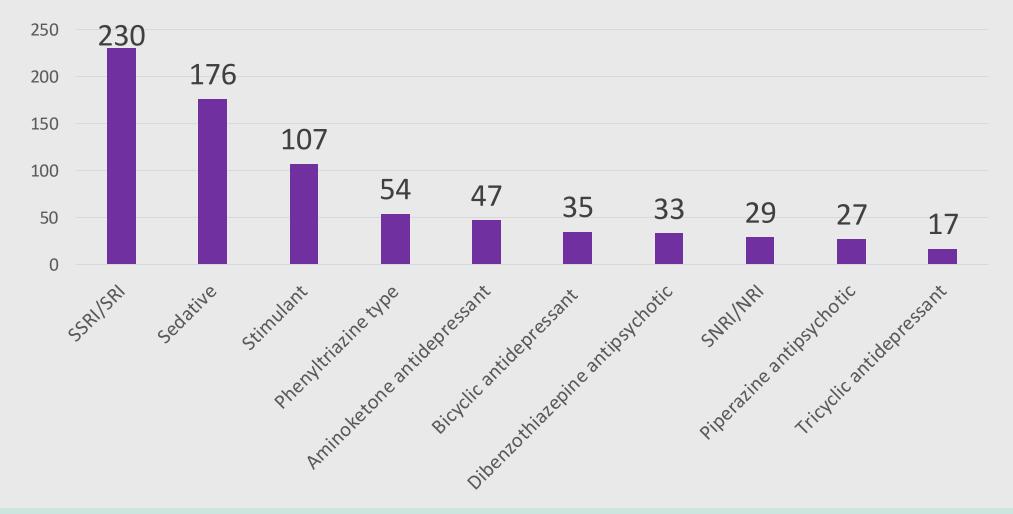






Society for Birth Defects

Type of medications (n)







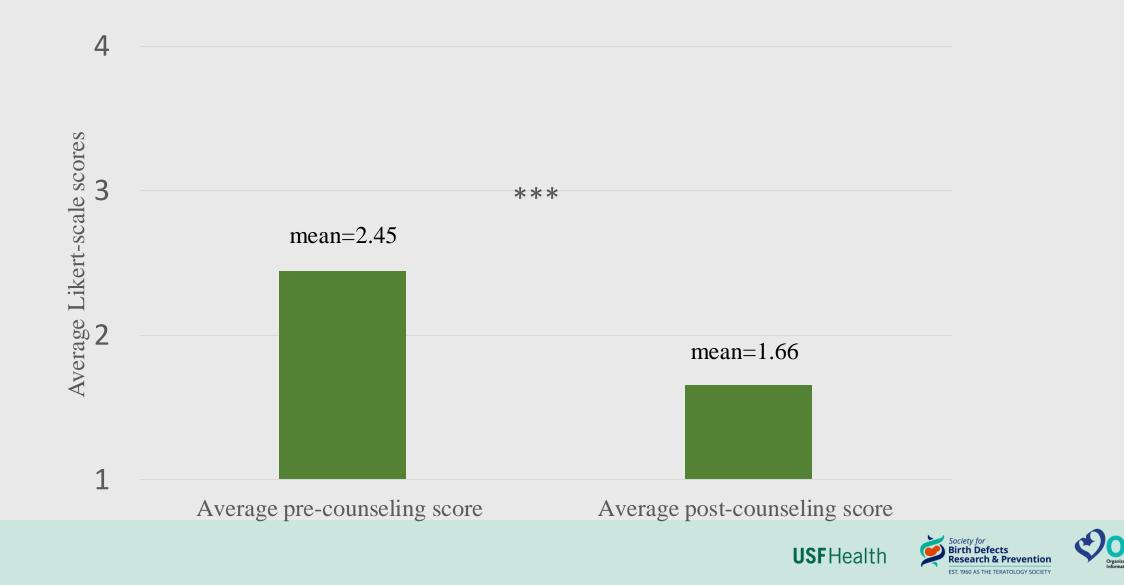
GC student thesis Patient reported anxiety

Average Likert-scale scores

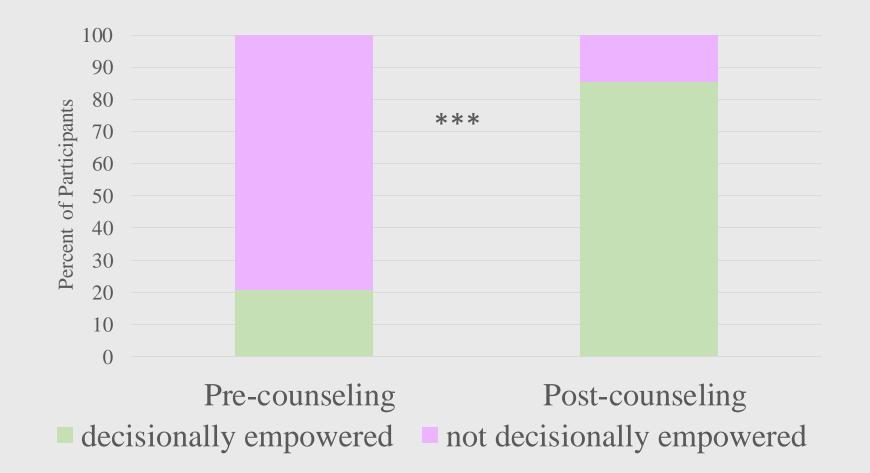




Patient reported guilt



Percent of Participants Who Felt Fully Empowered to Make a Decision Before and After Receiving Exposure Counseling





USFHealth



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

Table 4. Underlying causes of pregnancy-related deaths*, overall and by race or ethnicity1, data from Maternal Mortality Review Committees in36 US states, 2017–20191

| | | | | | | | | Ν | lon Hispa | anic | | | | |
|---|-------|------|-------|------|------|---|------|------|-----------|------|------|---|-----|------|
| | Total | | Hispa | nic | AIAN | | Asia | n | Blac | k | NHOP | 1 | W | hite |
| | Ν | % | n | % | n | % | n | % | n | % | n | % | n | % |
| Mental health conditions ² | 224 | 22.7 | 34 | 24.1 | 2 | - | 1 | 3.1 | 21 | 7.0 | 0 | - | 159 | 34.8 |
| Hemorrhage ³ | 135 | 13.7 | 30 | 21.3 | 2 | - | 10 | 31.3 | 33 | 10.9 | 1 | - | 53 | 11.6 |
| Cardiac and coronary conditions⁴ | 126 | 12.8 | 15 | 10.6 | 1 | - | 7 | 21.9 | 48 | 15.9 | 0 | - | 49 | 10.7 |
| Infection | 91 | 9.2 | 15 | 10.6 | 1 | - | 0 | 0.0 | 23 | 7.6 | 0 | - | 49 | 10.7 |
| Embolism- thrombotic | 86 | 8.7 | 9 | 6.4 | 0 | - | 2 | 6.3 | 36 | 11.9 | 0 | - | 34 | 7.4 |
| Cardiomyopathy | 84 | 8.5 | 5 | 3.6 | 0 | - | 2 | 6.3 | 42 | 13.9 | 0 | - | 33 | 7.2 |
| Hypertensive disorders of pregnancy | 64 | 6.5 | 7 | 5.0 | 0 | _ | 1 | 3.1 | 30 | 9.9 | 1 | - | 22 | 4.8 |

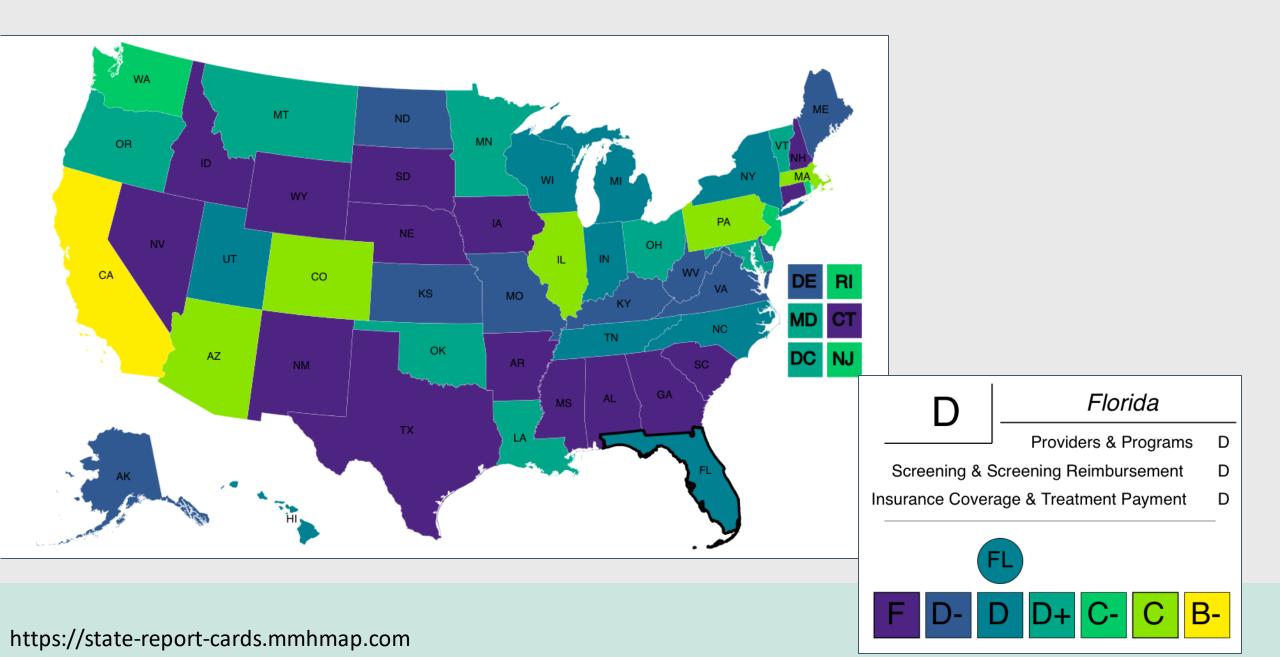
...include deaths of suicide, overdose/poisoning related to substance use disorder, and other deaths determined by the MMRC to be related to a mental health condition, including substance use disorder.







2023 U.S. Maternal Mental Health State Report Cards



2023 U.S. Maternal Mental Health Risk and Resources Maps

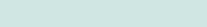
| | 0000 | | Florida | |
|--|----------------------------------|---|---------|-----------|
| Risk Factors Score PMH Providers Est. Annual Births Provider Ratio Provider Shortage Gap | 16 15 16,837 0.89 69 | Selected Counties: Hillsborough County, FL | | Rist |
| | | | | Providers |











https://www.mmhmap.com

| | | Florida | | | |
|-----------------------|---------|-----------------------|-------|----------------------|-----|
| Est. Annual Birthrate | 212,817 | Provider Shortage Gap | 951 | Certified Providers | 113 |
| Provider Ratio | 0.78 | Average Caseload | 1,282 | Licensed Prescribers | 19 |
| | | | | | |

PMH-C Provider to Patient Ratio

Award



Award



Screening & Screening Reimbursement

Providers & Programs

Maternal Mental Health Prescriber to Patient Ratio

Inpatient Perinatal Mental Health Treatment Program

Maternal Mental Health Task Force or Commission

CBOs Providing Direct MMH Services

Outpatient Intensive or Partial Hospitalization Programs

Requires OB-GYNs to screen for MMH disorders Reimburses OB screening: pregnancy and postpartum Requires MCO's to collect HEDIS prenatal measures Requires MCO's to collect HEDIS postpartum measures Private Insurance Prenatal Screening Billing Private Insurance Postpartum Screening Billing

Award

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Insurance Coverage & Treatment Payment

Medicaid Expansion

Postpartum Medicaid Extension

Requires health plans to develop a MMH QMP

Private Insurance Prenatal Treatment Billing

Private Insurance Postpartum Treatment Billing

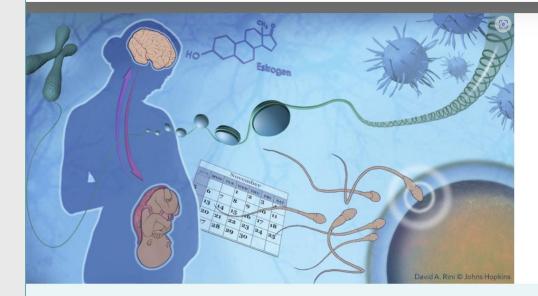


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|--|--|--|
|--|--|--|

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|------|-------|------------------|-----|-----------|---------|--|
| | | | | | | |



WELCOME TO NCRP TRAINING

NCRP is an interactive curriculum designed to teach reproductive psychiatry to mental health professionals – either within an educational program or self-guided.

USFHealth

Over 50% of psychiatric patients are women. Over 80% of women will have at least one pregnancy and 50% of these are unplanned.

Yet psychiatrists in training are not required to have any education about the management of psychiatric illness in the perinatal period.



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MATERNAL AND MENTAL HEALTH



MATERNAL MENTAL HEALTH

Pregnancy can be an exciting and joyous experience, but it can also be an emotional and physically challenging experience. What are the signs and symptoms of maternal depression and anxiety?

what are the signs and symptoms of maternal depression and any

Symptoms of postpartum depression can include:

exhaustion



Maternal Wellbeing Plan

Mood Disorders during and after Pregnancy

New Mom Mental Health Checklist

New treatment options

Brexanolone

Anxiety Disorders

PTSD: A Guide for Families

OCD

Postpartum psychosis

Postpartum Psychosis

Additional Resources

Postpartum Support International

Massachusetts General Hospital (MGH) Women's Mental Health

Infant Risk Center

Eind inpatient and partial hospitalization perinatal psychiatry.
 treatment center:
 Mother To Baby.
 Postpartum information in multiple languages
 The international Marce Society.

Postpartum Progress

Please remember this information is intended for educational purposes only and should not substitute medical advice from a healthcare provider. contributing to the overall sense that we as women, and mothers, aren't meeting expectations if everything isn't perfect. Developing postpartum depression or anxiety wouldn't be looked upon favorably by our peers, so we don't talk about it or get treatment. Talking about it opens conversations and helps to identify resources for women to access in their own communities.

What happens without treatment? Postpartum depression occurs in 20% of postpartum moms and suicide is the most common cause of death in new moms. Without treatment depressed Moms are more likely to have impaired bonding with their babies. Untreated depression and anxiety during and after pregnancy can cause issues with children that are identifiable into adulthood including cognitive and developmental delays; poor self-control and aggression and an increase risk of substance abuse.

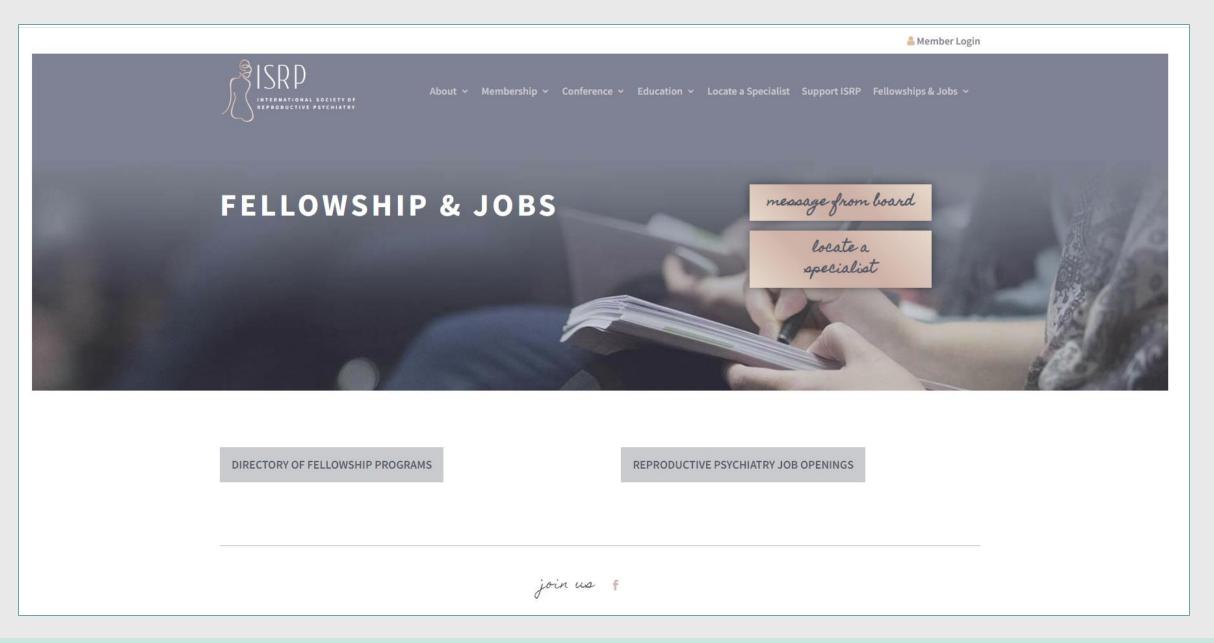
Are some women at higher risk for postpartum or maternal mental illness? Yes, studies have identified certain genetic factors that increase risk of developing postpartum depression, it tends to run in families and women with a history of PMDD are at higher risk of postpartum mood and anxiety disorders. In addition, preexisting depression, anxiety or bipolar depression, a family history of mental illness, a personal history of trauma or abuse, experiencing a stressful event in the last year, an inadequate support system, financial stress, trouble breastfeeding and mom or baby with physical health issues during and after pregnancy.

What can someone do to decrease the risk of developing postpartum depression or anxiety? In about 60 % of women, depression begins before













Directory of Fellowship Programs in Reproductive Psychiatry

Brigham and Women's Hospital Women's Mental Health Fellowship

Brown Women's Mental Health Fellowship

University of Illinois at Chicago Women's Mental Health Fellowship

Northwestern -The Asher Center Perinatal and Women's Mental Health Fellowship

University Hospitals Cleveland Medical Center- Reproductive Psychiatry Track within Public and Community Fellowship

University of Washington Women's Mental Health Fellowship

University of North Carolina at Chapel Hill Women's Mood Disorders Fellowship

New York University Women's Mental Health Fellowship

McLean Women's Mental Health Psychiatry Fellowship



USFHealth





Birth plan

- Birth plan and post partum mental health plan
 - Supportive family/friends
 - psychologist/psychiatrist
- Need for medication adjustment pp
- Supporting lactation
 - Follow up visits

SLEEP

| It is of | ften very hard to get rest or sleep when you have a new baby, as a young baby is not meant to sleep |
|----------|---|
| | gh the night. It is normal for them to sleep in 2-3 hour stretches. This will change as baby grows. Sleep is |
| | tant for your health. Your sleep will probably change after the baby comes, but you can try these things |
| to hel | p yourself get needed rest. |
| • | You may need to sleep in 2-3 hour blocks at a time, strung together to get you the 7-9 hours you need. |
| • | During that time, don't do anything except try to sleep. If you need to get up for feeding, do it, change |
| | his diaper, but don't play with him, and then go right back to bed. Keep lights off, low, or use a red |
| | bulb. Don't start watching TV, turn music on, or check your phone or other electronics. |
| • | Create a healthy sleep environment-dark, quiet, comfortable, with not a lot of distractions. |
| • | In addition to the main sleep time, rest or nap when the baby is sleeping. Don't use that time for house chores or any work. |
| | CONNECT |
| | Stay connected to supportive family and friends by phone, email and text. |
| | Encourage short visits, and be very clear about "visiting hours". |
| A | Accept offers of help. Ask for it if you need it! |
| | PLAN AHEAD |
| | My best place for relaxing in my home is: |
| 1 | Healthy, easy foods I like to eat are: |
| мс | People I can ask for help when I need it: |
| | 1 2 |
| | Ways I like to exercise and connect with other people, which I could do with a small baby: |
| _ | 1 2 |
| | Just in Case |
| | Having a new baby is a big change. There are resources to help people figure out how to adjus You can find help to keep you and your baby healthy, mentally and physically. If it's not going well, it's good to recognize that and get help. |
| | My early signs that I am feeling bad, depressed, or too anxious: |
| | It can be difficult to talk about not doing well. If you feel like this, who are 2 people you would talk with? 122 |
| | What will you say? |
| | GET HELP |
| | |





What is needed for our center

- Community education
 - Physicians/ Healthcare providers
 - Patient education and outreach
- Collaboration with societies nationally and importantly locally
 - National (PSI and HRSA maternal mental health hotline) and Local outreach (physicians and opioid use disorder program)
- Identify perinatal psychiatrists and resources
 - Dr. Deborah Knudsen Gonzales
 - Programs- healthcare providers to ask "FLBH impact"







What is needed for our center

- Development of a Perinatal Fellowship
- Programmatic support
- Education: identify participants
- Psychologist (including FCC)
 - Families in need of fetal intervention



 Families affected by birth defects

-

 Families in the NICU



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 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 the screening and diagnosis of perinatal mental health conditions including depression, anxiety, bipolar disorder, acute postpartum psychosis, and the symptom



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







For providers

Addressing Perinatal Mental Health Conditions in Obstetric Settings

ACOG Launches Online Mental Health Training for Obstetric Providers

The American College of Obstetricians and Gynecologists (ACOG) launched a new eModule, <u>Addressing Perinatal Mental Health Conditions in Obstetric Settings</u>, developed by the Lifeline for Moms Program at UMass Chan Medical School and reviewed by members of ACOG's Maternal Mental Health Expert Workgroup. This online training educates obstetric care clinicians about mental health screening, assessment, differential diagnosis, triage, referral, treatment, follow-up, and monitoring. Additional clinician resources include:

- Perinatal Mental Health Tool Kit
- Guide for Integrating Mental Health Care into Obstetric Practice
- Alliance for Innovation on Maternal Health <u>Perinatal Mental Health Conditions Patient</u> <u>Safety Bundle</u>





Assessment and Treatment of Perinatal Mental Health Conditions

conditions when clinically indicated

symptoms.

behavioral health resources when indicated, or both

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Programs

ACOG's Clinical Practice Guideline 5: "Treatment and Management of Mental Health Conditions During Pregnancy and Postpartum" recommends that ...:

Obstetricians be prepared to counsel patients on the benefits and risks of psychopharmacotherapy for perinatal mental health

Obstetricians initiate psychopharmacotherapy for perinatal depression or anxiety disorders, refer patients to appropriate

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

Perinatal Mental Health

Summary of Perinatal Mental Health Conditions

Patient Screening

Assessment and Treatment of Perinatal Mental Health Conditions

Educational Resources for Providers, Patients, and Families Treatment for perinatal mood and anxiety disorders be equitably available and accessible to all pregnant and postpartum individuals

Guide for Integrating Mental Health Care into Obstetric Practice

The guidance also recommends against withholding or discontinuing medications for mental health conditions due to pregnancy or lactation status alone. Please see Clinical Practice Guideline 5: "Treatment and Management of Mental Health Conditions During Pregnancy and Postpartum" for additional recommendations and information.

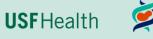
This information is designed as an educational resource to aid clinicians in providing obstetric and gynecologic care, and use of this information is voluntary. This information should not be considered as inclusive of all proper treatments or methods of care or as a statement of the standard of care. This information does not represent ACOG clinical guidance. It is not intended to substitute for the independent professional judgment of the treating clinician. Variations in practice may be warranted when, in the reasonable judgment of the treating clinician, such course of action is indicated by the condition of the patient, limitations of available resources, or advances in knowledge or technology. The American College of Obstetricians and Gynecologists reviews





Untreated mental illness is more harmful than any prescribed medications, for mom and baby

reproductive psychiatry







Registration for ENTIS Dublin 2023 is **NOW OPEN**

Click here or go to www.Rotunda.ie/ENTIS-Conference-2023

34th ENTIS Conference 3ublin, Ireland 31st August - 2nd September 2023



÷.







USFHealth





Human Teratogens A Live Virtual Course

November 13–15, 2023 10:00 AM–4:00 PM ET (US)

This activity is approved for AMA PRA Category 1 Credit™

This activity is eligible for ACPE credit.







Thank you!



Nevena Krstic, MS, CGC

Course Coordinator

USF Health

Sarah G. Običan, MD USF Health Course Director Thank you

For the exceptional work in perinatal genetics and TIS counseling

(and the graphs!)





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