

## Evolving Systems of Care for Perinatal Mental Health and Substance Use Disorders

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#### Overview

- Screening and Referral to Treatment
  - Listening to Women & Pregnant & Postpartum People
- Building Workforce and Access to Treatment
  - Moms IMPACTT: Improving Access to Maternal Mental Health & Substance Use Disorder Care Through Telemedicine and Tele-mentoring
- Alternative pathways to family building and mental health considerations
- Questions & Discussion



## **Evolving Systems of Care for Perinatal**Mental Health and Substance Use Disorders



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#### Maternal Deaths due to Mental Health Conditions are Preventable

#### MATERNAL HEALTH

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

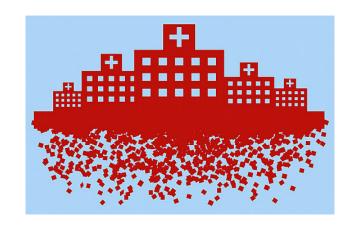
#### Preventing Pregnancy-Related Mental Health Deaths: Insights From 14 US Maternal Mortality Review Committees, 2008–17

- Effective screening, identification, referral, appropriate treatment and communication and care coordination during pregnancy and postpartum year.
- 1 in 5-8 screened for depression
  - Black individuals < likely to be screened than White individuals
- 1 in 4 attend treatment
  - Black individual < likely to attend treatment than to White individuals
  - Rural residence < likely to attend treatment than urban residence

## Barriers to Successful Screening & Effective Referral to Treatment







Patient	Provider	Healthcare System		
Bias, Discrimination, Stigma, Racism	Bias, Discrimination, Racism	Structural Racism		
Social Determinants of Health	Insufficient time	Cost: Time & Re/Training		
Fear of social/legal consequences	Lack of MH/SUD knowledge	Separation of MH/SUD care		
Lack of available or accessible *MH/SUD treatment providers	Lack of available or accessible *MH/SUD treatment providers	Lack of available or accessible *MH/SUD treatment providers		

\*MH: Mental Health; SUD: Substance Use Disorder

#### **Listening to Women & Pregnant & Postpartum People**









#### **Text Message Based Screening**



**Brief Intervention**Remote Care Coordinator (MSW)

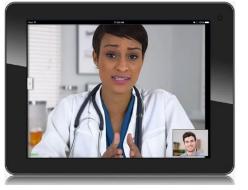


Referral to Treatment
Telemedicine/ Office or Home
Follow up



Communicate with Ob/Peds Team
Screening information
Referral and Tx Progress









#### **Case examples**

#### **Patient 1- Perinatal Mood and Anxiety**

#### **LTWP Screening**

#### What we knew

- 25 y/o, G1P1: 30 days postpartum
- Symptoms of depression and anxiety
- Rural location

#### **Care Coordinator Intervention**

#### What we learned

- Sx started in pregnancy, increased postpartum
- No psych history, no medications
- Passive SI, no intent or plan
- Mentioned only some symptoms to family
- Shame, guilt and fear of social consequences

#### **Shared Decision Making**

Creating a care plan together

- Validation of symptoms
- Home-based telemedicine services
- Linkage to resources

#### Randomized Clinical Trial

January 2021 to April 2023 Large Healthcare System in Southeast Electronic Health Record (EHR)

#### LTWP (Text/Phone)

(n=224)

#### **Usual Care**

(n=191)

#### Screened

• Text validated questionnaires (phone/email)

#### **Screened Positive**

 Brief assessment, intervention and referral to treatment, if appropriate (MSW)

#### **Referred to Treatment**

Co-located in Ob/Gyn Practice

#### **Attended Treatment**

• Psychiatrist, psychologist, or therapist in Ob/Gyn practice

#### Screened

<u>Verbal</u> validated questionnaires (<u>RN</u>)

#### **Screened Positive**

 Brief assessment, intervention and referral to treatment, if appropriate (<u>CNM</u>, <u>Ob/Gyn</u>)

#### **Referred to Treatment**

Co-located in Ob/Gyn Practice

#### **Attended Treatment**

• Psychiatrist, psychologist, or therapist in Ob/Gyn practice

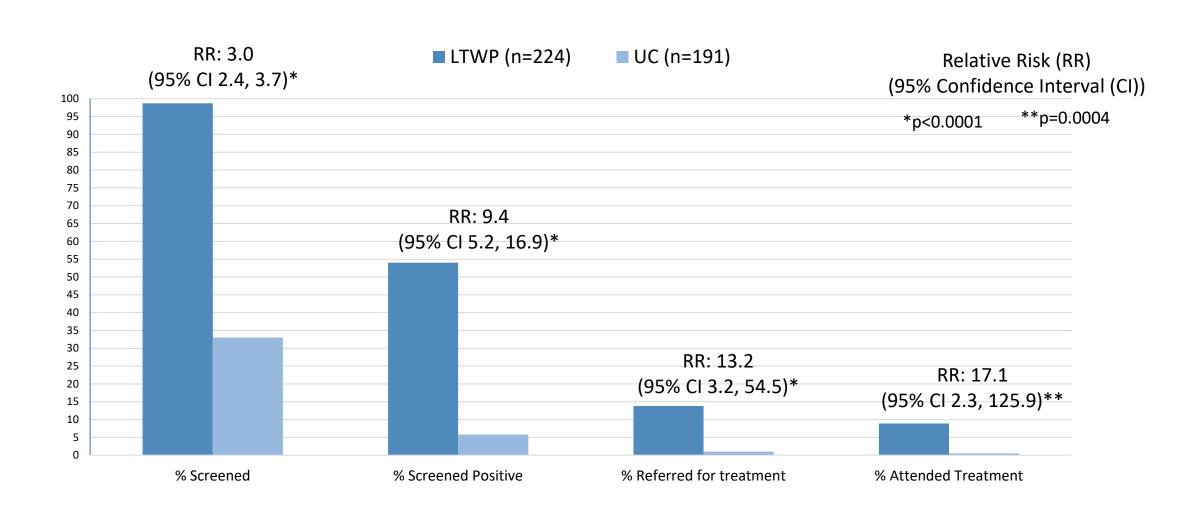
## Demographics (No Group Differences)

Characteristic	Statistics	LTWP (n=224)	UC (n=191)	P-value	Characteristic	Statistics	LTWP (n=224)	UC (n=191)	P-value
					Currently pregnant	n (%)	102 (45.5%)	85 (44.5%)	0.83
Age, years	median [IQR]	31 [27.0 - 34.0]	31 [26.0 - 34.0]	0.55	Number of week pregnant <sup>†</sup>	median [IQR]	28 [20.0 - 33.0]	28 [23.0 - 32.0]	0.86
Annual household income				0.26	Months postpartum <sup>‡</sup>	median [IQR]	2 [1.0 - 4.5]	2 [1.0 - 8.0]	0.99
< \$25,000/year	n (%)	46 (20.5%)	31 (16.2%)		Depressive Symptoms	median	5	6	0.11
≥ \$25,000/year	n (%)	178 (79.5%)	160 (83.8%)		(EPDS)	[IQR]	[2.0 - 8.0]	[3.0 - 9.0]	0.11
Number of living children	median [IQR]	1 [1.0 - 2.0]	1 [0.0 - 2.0]	Anxiety Symptoms (GAD-7) 0.89	median [IQR]	3 [1.0 - 6.0]	3 [1.0 - 7.0]	0.69	
Number of pregnancies	median [IQR]	2 [1.0 - 3.0]	2 [1.0 - 3.0]	0.37					

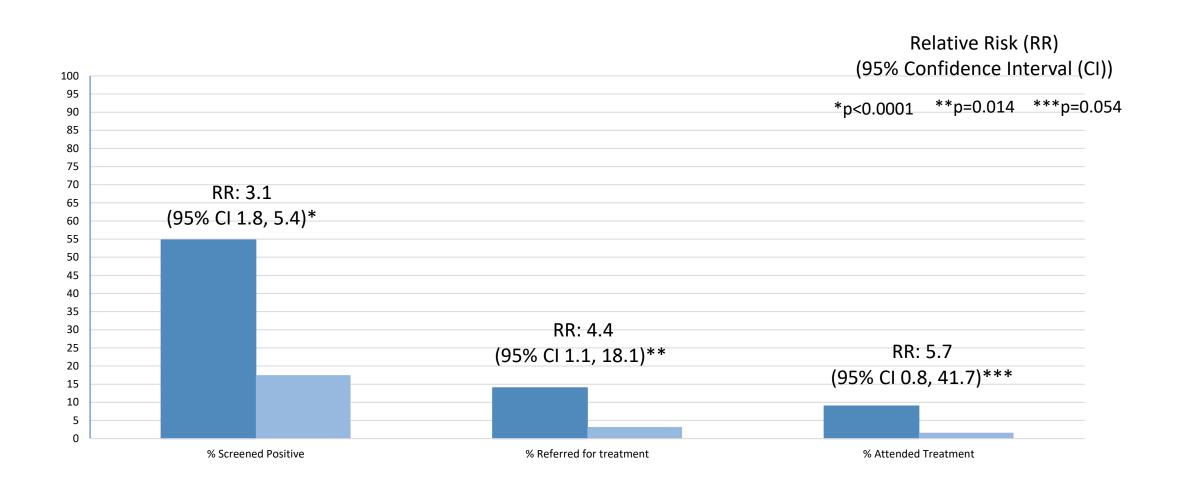
## Demographics (No Group Differences)

Characteristic	Statistics	LTWP (n=224)	UC (n=191)	P-value	Characteristic	Statistics	LTWP (n=224)	UC (n≔191)	P-value
Race/Ethnicity				0.32	Self-reported psychiatric				
Black, non-Hispanic	n (%)	70 (31.3%)	71 (37.2%)		diagnoses				
Hispanic	n (%)	12 (5.4%)	8 (4.2%)		Mood disorder	n (%)	35 (15.6%)	27 (14.1%)	0.67
White, non-Hispanic	n (%)	135 (60.3%)	110 (57.6%)		Anxiety disorder	n (%)	67 (29.9%)	52 (27.2%)	0.55
Other	n (%)	7 (3.1%)	2 (1.0%)		Substance use disorder	n (%)	21 (9.4%)	9 (4.7%)	0.07
Rurality of residence				0.28	Psychotic disorder	n (%)	0 (0.0%)	0 (0.0%)	0.99
Rural	n (%)	14 (6.7%)	18 (9.6%)		None	n (%)	141	129	0.33
Partially rural	n (%)	154 (73.3%)	141 (75.4%)	NOTIE		11 (./6)	(63.0%)	(67.5%)	0.33
Non-rural	n (%)	42 (20.0%)	28 (15.0%)						

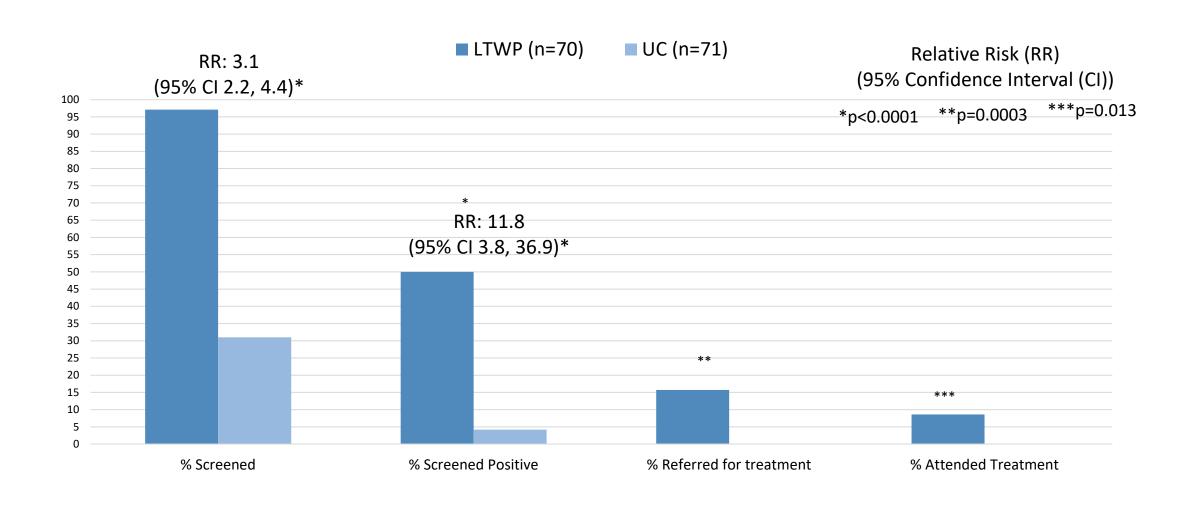
## Primary Outcomes: % of LTWP vs. UC Screened, Screened Positive, Referred to Treatment & Attended Treatment



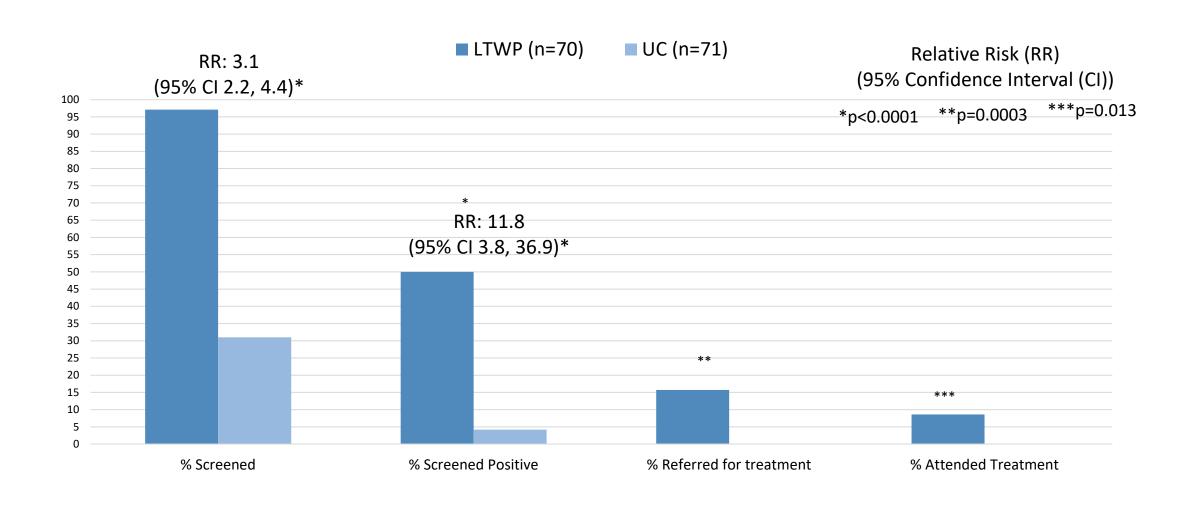
## Secondary Outcomes [Participants Completing a Screen]: % of LTWP vs. UC Participants Screened Positive, Referred to Treatment & Attended Treatment



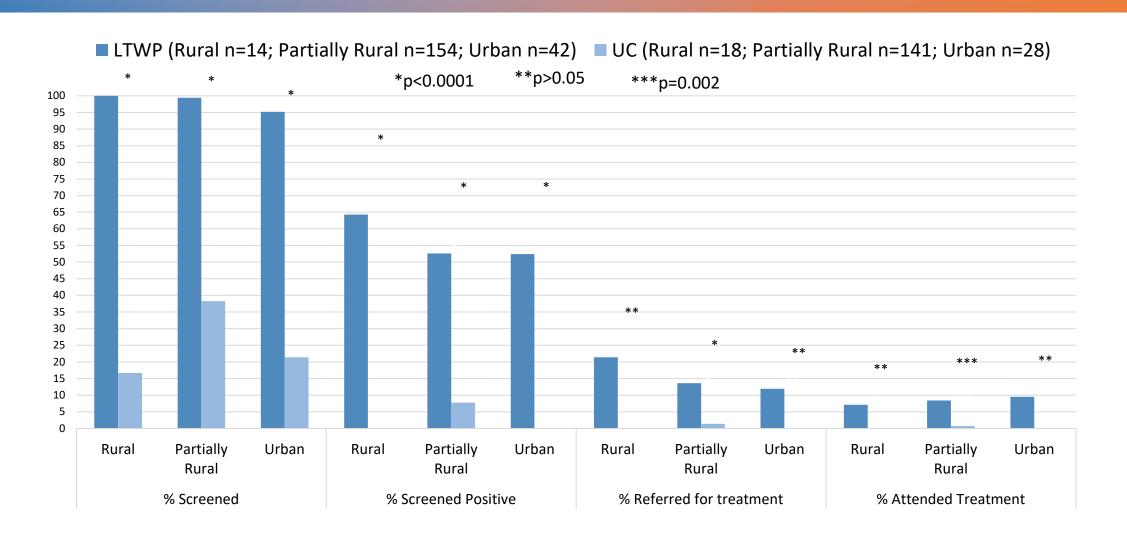
## Subgroup Analyses [Black, Non-Hispanic]: % of LTWP vs. UC Participants Screened, Screened Positive, Referred to Treatment & Attended Treatment



## Subgroup Analyses [by Rural, Partially Rural and Urban Residence]: % LTWP vs. UC Participants Screened, Screened Positive, Referred to Treatment & Attended Treatment



## Subgroup Analyses [by Rural, Partially Rural and Urban Residence]: % LTWP vs. UC Participants Screened, Screened Positive, Referred to Treatment & Attended Treatment



#### Summary

Compared to UC, LTWP participants were:

3 times more likely to be screened

Among those that are screened, compared to UC, LTWP participants were:

- 3 times more likely to screen positive
- 4.4 times more likely to be referred to treatment
- 5.7 times more likely to attend treatment

Findings consistent in Black, Non-Hispanic & Rural and Partially Rural Populations

Findings reinforce call for healthcare system level changes, insurance payments, and policies to support adoption of text/phone screening and referral

Continued efforts to support digital literacy, affordable internet service plans, access to broadband and devices with A/V capabilities

#### Mom's IMPACTT:

IMProving Access to Maternal Mental Health and Substance Use Disorder Care Through Telemedicine and Tele-Mentoring

#### Goal 1: Provider Building Frontline Provider Capacity

#### Goal 2: Patient Access to MH/SUD Care

- Mom's IMPACTT has 3 components and provides:
- Real-time psychiatric consultation for providers to support them in effectively managing maternal mental health and substance use disorders.
- Mental health and substance use disorder trainings tailored to the needs of the hospital and/or outpatient practice's providers and staff.
- Brief Phone assessment by Care Coordinator to provide appropriate referral to treatment and community-based resources.



IMProving Access to Maternal Mental Health and Substance UseDisorder Care Through Telemedicine and Tele-Mentoring



## How Mom's IMPACTT Works [Building Provider Capacity: Training & Consultation]

843-792-MOMS (843)-792-6667



Doulas
Midwifes
Obstetricians
Pediatricians
Psychiatrists
Community Health Workers
Advance Practice Providers
Primary Care/Family Practice



- Assessment
- Referrals & Resources
- Care Coordination
- Referrals & Resources



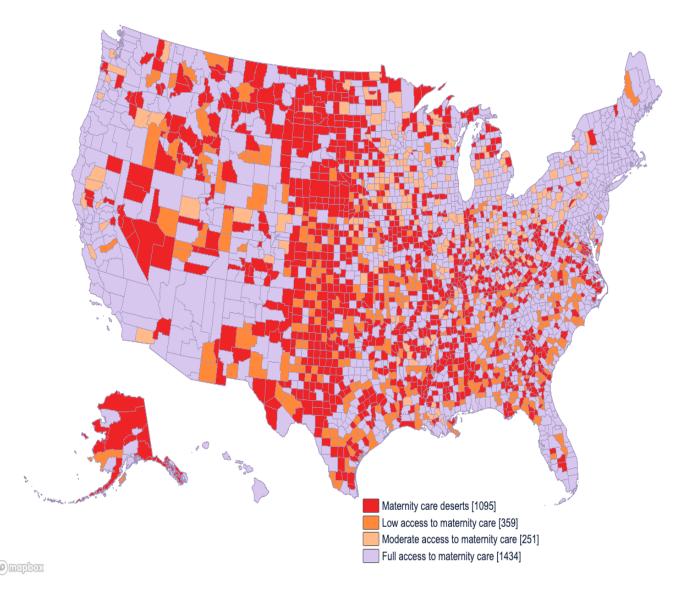
Provider-Provider Consultation



**Provider Trainings** 

# 47.8% of SC counties are a Maternity Care Desert or Low Maternity Care Access.

#### **Maternity Care Deserts**



Source: U.S. Health Resources and Services Administration (HRSA), Area Health Resources Files, 2019

## How Mom's IMPACTT Works [Patients]



Pregnant



0-12 Months Postpartum





- Referrals to Resources
- Permission to Communicate with Provider for Care Coordination



Patient-Provider Treatment

### Moms IMPACTT Outcomes: May 2022- Present

- MH/SUD trainings for 1,005 front-line providers
- 67 provider-to-provider consultations
- Access to care for 1,970 pregnancy and postpartum people from 100% of Counties in SC
- Race/Ethnicity
  - 61.1% White
  - 32.6% Black
  - 2% Native American
  - 8.0% Hispanic
- > Insurance
  - 55.8% with Medicaid
- > Location
  - 96.2% Fully Medically Underserved Areas
  - 51.5% Rural Counties

## SC Pilot Program for the Treatment of Perinatal Substance Use Disorders

**Study Goals:** To reduce maternal morbidity and mortality associated with Perinatal Mental Health (PMH) and Perinatal Substance Use Disorder (PSUD), including Perinatal Opioid Use Disorder (POUD) by <u>addressing gaps in the continuum of care</u> throughout pregnancy and the postpartum year for the mother-infant dyad and family unit.

#### **Study Aims:**

- Improve outcomes by providing a continuum of evidence-based, integrated SUD/MH treatment, recovery support, and care coordination.
- Improve outcomes for children and families by providing evidence-based parent, child, and family interventions.
- Increase the capacity of health care, child welfare, & criminal justice entities to effectively screen, identify and manage PMADS/PSUDs

#### **Goal 1: Enhance Continuum of Care**

#### Targeted Outreach

- Rural, Medically Underserved: Chesterfield, Darlington, Dillion, Lancaster, Orangeburg
- High rates of Overdose & NOWS: Charleston, Horry, Greenville, Lexington

#### Strategic Collaboration

 Community-based organizations, detention centers, local law enforcement & EMS, family shelters, harm reduction services

#### Enroll PPW accessing IMPACTT in LTWP

- Specialized care coordination team
- Ongoing screening; depressive symptoms, substance use, SDoH

#### Goal 2: Improve Outcomes for Families and Children

- Access to trauma-informed behavioral health services for minor children of caregivers with SUD/OUD
  - Evaluation, case management and care coordination

#### Peer Recovery Doulas

- Workforce training: 36 trainees over 3 years
- Recruit 3 additional Peer Recovery Doulas to the IMPACTT care team

#### **Case examples**

#### **Patient 2- Perinatal Opioid Use Disorder**

#### **Self Referral to Moms IMPACTT**

Concern: medication questions

- 35 y/o, white woman
- G1PO, 14 weeks
- Birth control failure
- 5 years sustained recovery with MOUD
- Provider stopped prescribing in pregnancy
- Experiencing withdrawal with craving
- No longer connected to recovery community support

#### **Care Coordinator Intervention**

Understanding stigma

- Home-based telemedicine services
  - Risk/benefits of options during pregnancy
  - Stabilized on MOUD
- OB Provider with adequate POUD training
- Delivery hospital with NOWS experience
- Coordination across health care systems
  - Training and education
- Linkage to community & recovery support services

#### **Peer Recovery Doulas**

#### **Certified Peer Support Specialist:**

 Individuals who bring the <u>lived experience</u> of successful recovery, combined with training and supervision, to assistant others in becoming and staying engaged in the recovery process through shared understanding

#### **Community-Based Doula:**

- Provide extended, intensive support to families throughout <u>pregnancy</u>, <u>during labor and birth</u>, <u>and up to 12 months postpartum</u> in communities that face high risks of negative birth and developmental outcomes.
- CBDs are of and from the communities being served

#### **Workforce Development**

#### **Curriculum:**

- 80hrs of didactic information (10 weeks)
- 1:1 mentorship through 3 births
- On-going reflective mentorship
- Peer learning community

GOAL: 36 trained over 3 years

Certified Trainees: Chrysalis Center, SCDC,

Courage Center & MUSC

Current Cohort: Newberry, Chapin, LRADAC,

Prisma Health





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#### Peripartum Individuals Taking Part in Research & Clinical Care



#### Women's Reproductive Behavioral Health Team

#### Care Coordination/Scheduling

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## Alternative Pathways to Parenthood and Mental Health Considerations

#### Infertility: Diagnosis & Prevalence



- Trying to conceive for 12+ months without achieving pregnancy
- 6.7 million women in the USA has trouble getting pregnant or sustaining a pregnancy each year

- Health-related factors
  - Male factor, female factor
  - Childhood or AYA cancer treatments
- Non-traditional family types
  - Single parents by choice
  - LGBTQ+

#### Impacts of infertility

- Financial
  - Without donor gametes, average cost of IVF cycle in the US was \$12,400 in 2020
  - Cost per live birth can exceed \$60,000
  - 271% more expensive in the US
  - Diagnoses & medicalization may impact insurance coverage
- Mental health
  - Distress similar to newly-diagnosed cancer patients
    - Increases as treatment progresses
  - Intersection of stigma and mental health risk for LGBTQ+ community members seeking parenthood



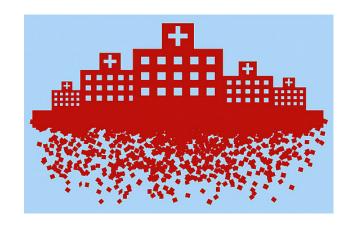
# The American Society for Reproductive Medicine (ASRM) Recommendations

- 2021 ASRM Committee Opinion on minimum standards for practices offering ART states "a consultant/mental health professional with expertise in reproductive issues" should be standard of care for all patients
- Recommendations for psychoeducation consultation and decision making appointment for recipients of donor gametes

#### Barriers to Mental Health Care







Patient	Provider	System
Stigma	Poor understanding of role mental health plays in treatment	Hard to access providers trained in fertility-related mental health concerns
Fear of being dismissed from care	Fear of offending or stigmatizing patient	Insurance/payor barriers
Avoidant coping	Referral capacity after screening	Policy and legal implications for marginalized populations

#### LGBTQ+ Considerations



- Discrimination in healthcare
  - 17 % of fertility clinics reported they would turn away LGBTQ+ folks looking for treatment in early 2000s
  - Required a recommendation letter- fitness to parent
  - 10% of fertility clinics rated unaccepting of LGBTQ+ patients
- Myth of differing outcomes for offspring of LGBTQ+ families
- Decision points- intersecting with identity, stigma, job security
- Postpartum depression: Unclear
  - Less support?
  - Less disclosure of symptoms

#### **Case examples**

#### **Patient 3- Non-binary Birth Parent**

#### **Self Referral to Moms IMPACTT**

History of moderate OCD, baby in NICU

- 33 y/o, partnered, white, non-binary (they/them)
   birth parent
- Hx of childhood cancer, conceived via fertility treatment
- G2P1- baby in NICU born at 33 weeks
- Intersection of stress, OCD and anxiety symptoms (Intrusive thoughts: danger and germs)
- Fear of gender identity being documented in medical record, delay in disclosing

#### Intervention

CBT and ACT

- Radical acceptance, cognitive defusion and increased values-congruent actions in response to intrusive thoughts
- Response prevention, distress tolerance
- Increased self-esteem and confidence
  - Returned to work in new career role
- Use of social support

#### Recommendations to Providers

- Become familiar with various routes to parenthood for LGBTQ+ patients
- Seek training in providing culturally sensitive care to diverse family types
- Ask: about <u>sexual orientation</u> and <u>gender identity</u>. Ask about <u>preferred pronouns</u>. Ask about <u>which partner will assume which</u> role
- Approach conversations with openness and curiosity.
- Screen for postpartum depression in new LGBTQ+ parents just as should be done for heterosexual parents. Refer to treatment as needed

#### Recommendations for Clinics

- Inclusive website, public spaces, forms, diverse imaging
- Inclusive pregnancy groups, childbirth, and new parent classes
- To the extent possible, hire a diverse staff
- Staff training
- Informed consent- what will be documented in record?
- Distress screening at intake
- Referral to treatment
  - Integrated care model
  - Partnering with local mental health providers



