Perinatal Mental Health Overview: Prevalence, Screening & Diagnosis

Part 1: Rural Maternal Mental Health Training



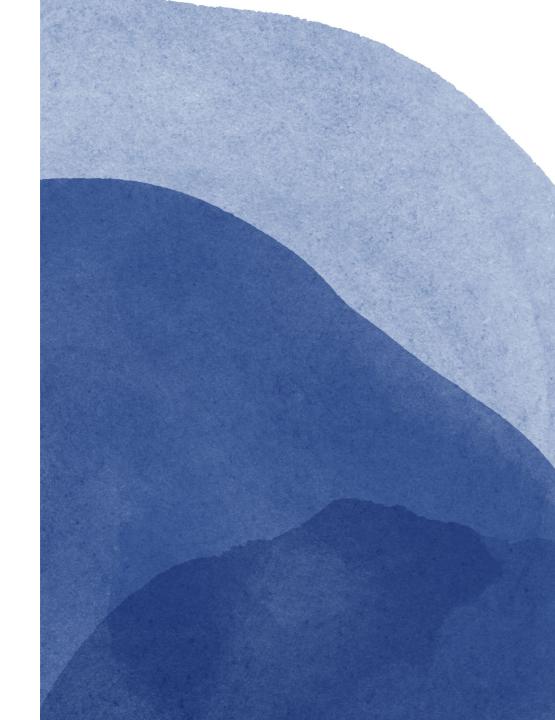


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Logistics



- Please enter questions in the Q&A. There will be time reserved at the end for questions.
- For technical support, use Q&A or email Ashley Carroll at: <u>Ashley.Carroll@CHIHealth.com</u>
- Chat has been enabled for this webinar.



Presenters



Ariadna Forray, MD, Associate Professor of Psychiatry at Yale School of Medicine



Sydnie Carraher, DNP, APRN-NP, NNP-BC, Program Administrator for the Nebraska Perinatal Quality Improvement Collaborative (NPQIC)





Overview of Perinatal Mental Health

Ariadna Forray, MD

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Chief, Section of Psychological Medicine

Yale School of Medicine

Disclosures

Grant Support: NIMHD, PCORI

Learning Objectives

- Describe the common mental health presentations in pregnancy and postpartum
- Describe recommended screening practices for perinatal mental health screening
- Identify evidence-based screening tools
- Describe the benefits of screening during the perinatal period

*Note the following lecture applies to all individuals that were designated female sex at birth and have the ability to become pregnant



Epidemiology

Perinatal depression is the most common complication of pregnancy



Depression in Pregnancy

Pregnancy does not protect against mental illness

Antenatal depression frequently precedes postpartum depression

Prevalence by Trimester

1st: 7.8%

2nd: 12.8%

3rd: 12%

Risk Factors for Perinatal Depression

Previous depressive episode

Lack of social support

Young maternal age

Low attained education

Single marital status

Low socio-economic status

Intimate partner violence

Psychosocial stress

Chronic illness

Maternal substance use

Infant preterm birth/significant medical concerns

Baby Blues vs. Postpartum Depression

Baby Blues

- Development of mild depressive symptoms, mood swings, weepiness, anxiety, and irritability in the first week to 10 days postpartum
- Transient and self-limited
- Experienced by up to 85% of women

Postpartum Depression

- Depressed mood and associated symptoms lasting at least
 2 weeks
- Depression can take a mild clinical course or it leads to functional impairment and suicidal ideation



Postpartum Depression (PPD)

DSM-5: major depression occurring within 4 weeks after birth

Clinically: Depression occurring within 6 months of childbirth IF later, may be linked to weaning and initiation of menses

Prevalence rate 10-20%

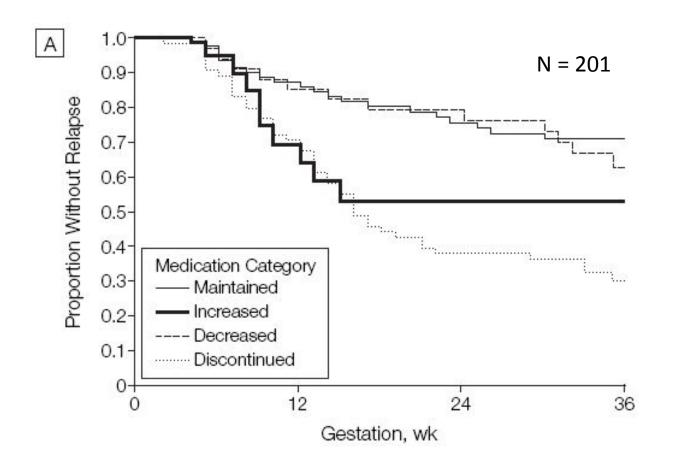
Mean prevalence rate of 13%

DSM 5 Criteria for Major Depression

- Depressed mood
- Decreased interest/pleasure
 - Disturbance of sleep
 - Weight loss/gain, change in appetite
 - Decreased energy
- Overly guilty (bad mother syndrome)
- Impaired concentration/decision making
- Thoughts of death/suicidal ideation
- Psychomotor agitation/retardation



Likelihood of Relapse in Women with Severe Recurrent Major Depressive Disorder



26% of women maintained on medication relapsed

68% of the women who discontinued medication relapsed



Anxiety in Pregnancy

Prevalence of anxiety disorders in pregnancy

Panic Disorder: 5%

Generalize Anxiety
Disorder: 10%

Posttraumatic Stress Disorder (PTSD): 8%



Anxiety frequently co-occurs with depression and may lead to worse pregnancy outcomes



Risk Factors for Perinatal Anxiety

Personal history of anxiety

Family history of anxiety

Life changes

Lack of support

Health challenges

(e.g., difficult pregnancy, birth, health issues for mom or baby)

Prior pregnancy loss

Adverse childhood experiences (ACEs)

Posttraumatic Stress Disorder (PTSD)

Prevalence in pregnancy 8%

Prevalence after childbirth 2-9%

Symptom categories:

Intrusion

Avoidance

Hyperarousal

Negative view of the world

Risk Factors for PTSD

Pregnancy or delivery complication

Prior trauma or sexual abuse

Lack of partner support

History of ACEs



Bipolar Disorder in the Perinatal Period

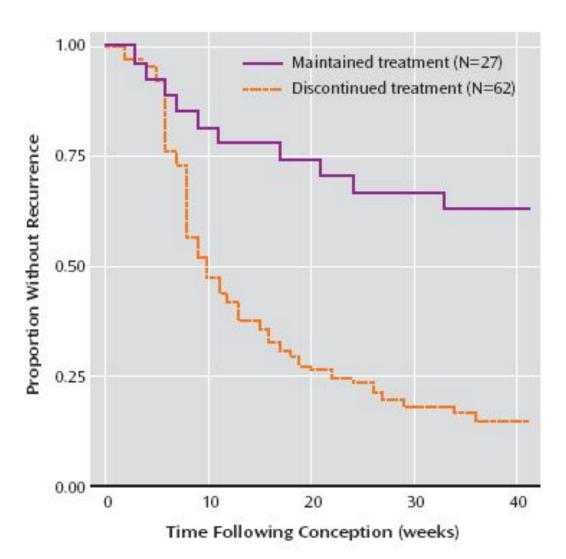
57% of women with Bipolar I had mood episode in pregnancy

62% of women with Bipolar II had a mood episode in pregnancy

40–50% of women experience any mood episode in the postpartum period

1 in 5 risk of suffering a postpartum psychotic episode

Relapse Among Women with Bipolar Disorder Who Maintain or Discontinue Medication



These findings were replicated in more recent meta-analysis:

- 66% of women who discontinued medications had a relapse vs.
- 23% of women who remained on medications had a relapse

Postpartum Psychosis

1-2 out of 1000 women

70-80% due to bipolar disorder

Develops 24h - 3 weeks postpartum

Must rule out delirium

Psychiatric emergency

5% risk of suicide

4% risk of infanticide

- Mood symptoms
 - Mood lability
 - Irritability
 - hyperactivity/restlessness
 - Insomnia/decreased need for sleep
- Psychotic symptoms
 - Delusions
 - Paranoia
 - Hallucinations



Psychotic Disorders

Schizophrenia 1% of the general population

Schizoaffective
Disorder 0.5% of
the general
population

Both conditions are lifelong and can be well-managed





Perinatal Mental Health in Nebraska



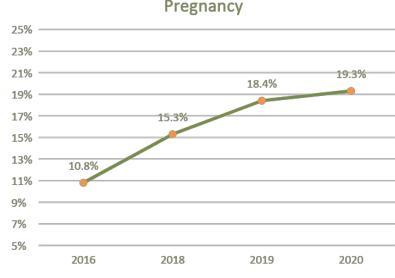
Prevalence in Nebraska



Self-Reported Depression in the 3
Months Before Pregnancy



Self-Reported Depression During
Pregnancy



Self-Reported Postpartum Depressive
Symptoms







Disparities in Nebraska



- 13.7% rural vs 11.2% urban
- Blacks 17.3%, Native Americans 17.2%, Hispanics 12.2%,
 Whites 11.2%





Impact in Nebraska



 ~5,000 new babies per year live in an environment that predisposes them to health issues, cognitive impairment, developmental delays, and behavioral problems as a result of undiagnosed and untreated parental depression

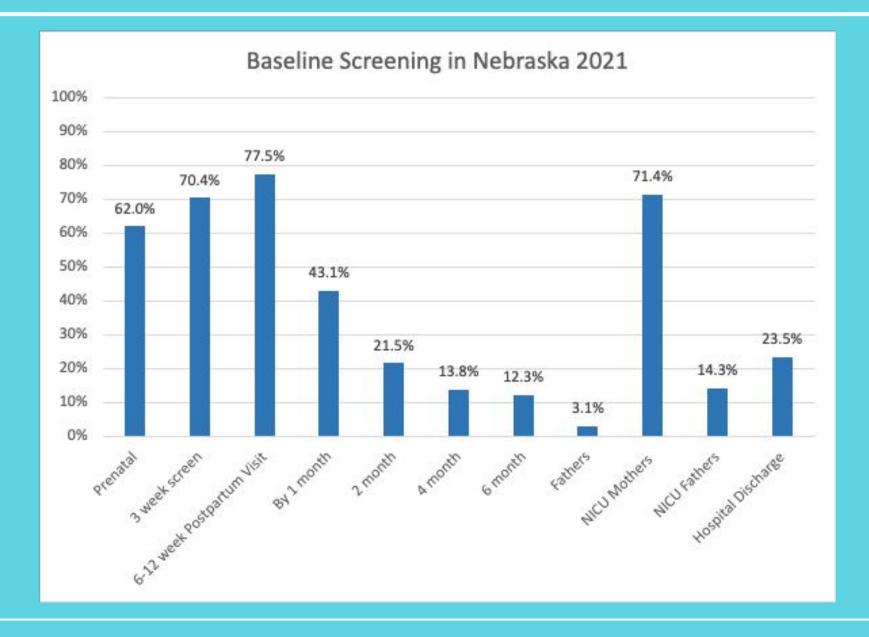




Impact in Nebraska



- Nebraska Vital Statistics
 - 1 completed suicide annually for women that were pregnant or were pregnant within the last year
- Nebraska Foster Care Review Office
 - In 2021, 315 children <1 year of age were removed
 - 77 cases reviewed
 - 16% maternal mental health
 - 58% substance use
- # 1 Recommendation of Nebraska Maternal Mortality Review Committee
 - "Peripartum implementation of mental health & substance use screening, assessment, and referral"





Consequences of Untreated Perinatal Depression

- Poor adherence to medical care and increased healthcare costs
- Higher rates of preterm birth, low birth weight, pre-eclampsia, and spontaneous abortion
- Smoking and substance use
- Loss of financial resources
- Family dysfunction and increased risk of abuse and neglect
- Impaired parent-child interaction- bonding and attachment issues
- Discontinuation of breastfeeding
- Failure to thrive and colic
- Infantile sleep disorders
- Delays in motor, cognitive, and language development
- Emotional and behavioral disorders that persist into adolescence

Societal Cost of Untreated Depression



- Luca et al. (2020)
 - Developed a mathematical model to estimate economic burden of untreated perinatal mood and anxiety disorders.
 - Birth statistics from 2017
 - Total societal cost estimate of NOT treating perinatal mental health conditions is \$14.2 billion or \$32,000 per mother-infant pair from conception through 5 years of age.
- Nebraska
 - 24,681 births in 2021
 - 4,936 women and families impacted by perinatal mental health conditions
 - The cost to our state each year in not addressing PMH conditions is ~ \$158 million



Screening is Key



- Effective, free, and validated screening tools exist to identify mothers and fathers at risk for perinatal depression
- Treatment is available and can have a significant impact on outcomes





Universal Screening Recommendations





AMERICAN PSYCHOLOGICAL ASSOCIATION







American Academy of Pediatrics



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Legislation

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- •NE Statute 38.204.01
 - Effective July 21st, 2022
 - Calls for the provision of education and universal screening for mothers during and after pregnancy
 - Authorizes the Board of Medicine and Surgery to work with accredited hospitals and licensed healthcare professionals to create policies to facilitate perinatal mental health screening





Who and When to Screen?



- Mothers
 - At least once prenatally
 - During birth hospitalization
 - At comprehensive postpartum visit
 - At baby's 1, 2, 4, and 6 month well child visits
- Fathers or Non-Delivering Partner
 - At least once within the first 6 months of birth
- NICU parents
 - At 7-14 and 30 days postpartum and then every 30 days thereafter

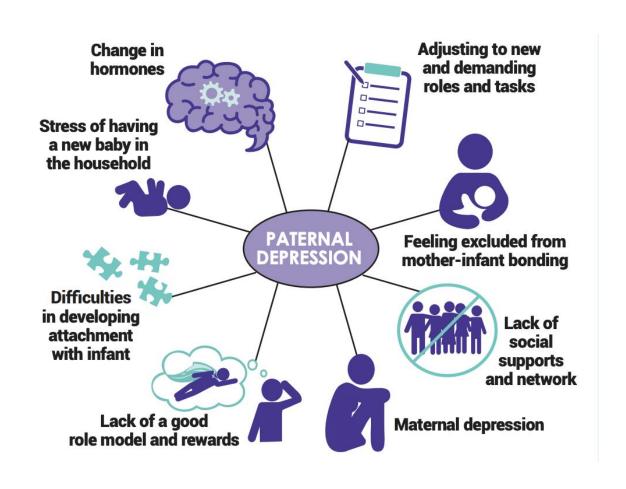




Paternal Depression



- 1 in 10 fathers
- Highly correlated with maternal depression
- Develops gradually
- Peak incidence is 3-6 months
- Higher levels of irritability, anger, and substance use
- Reduced engagement, warmth, and sensitivity
- Increased negative parenting, couple conflict, and child behavior issues
- Less likely to seek help for depression



Which Screening Tool to Use?



- Edinburgh Postnatal Depression Scale (EPDS)
 - Edinburgh Postnatal Depression Anxiety Subscale (EPDS-3A)
- Patient Health Questionnaire-9 (PHQ-9)
 - Generalized Anxiety Disorder Screener (GAD-7)
- Postpartum Depression Screening Scale
- Beck Depression Inventory
- Beck Depression Inventory-II
- Center for Epidemiologic Studies Depression Scale
- Zung Self-Rating Depression Scale





Edinburgh Postnatal Depression Scale (EPDS)

- •10-question self-administered scale
 - Includes 2 questions regarding anxiety
- •Takes less than 5 minutes to complete
- Designed and validated with postpartum women
- Has since been validated for new fathers
- Available in the electronic medical record (EMR) and multiple languages



EPDS

- Max score of 30
- Risk of depression and/or anxiety
 - ≥ 10 at risk
 - ≥ 13 high risk
- Score of > 0 on #10 indicates risk of harm to self or others



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

Here is an example, already completed

	o to all onallipio, all oddy completed.						
	ve felt happy: Yes, all the time Yes, most of the time No, not very often No, not at all	happy most of the time" during the past week. estions in the same way.					
In t	ne past 7 days:						
	I have been able to laugh and see the funny side of things As much as I always could Not quite so much now Definitely not so much now Not at all I have looked forward with enjoyment to things As much as I ever did Rather less than I used to Definitely less than I used to Hardly at all		Things have been getting on top of me Yes, most of the time I haven't been able to cope at all Yes, sometimes I haven't been coping as well as usual No, most of the time I have coped quite well No, I have been coping as well as ever I have been so unhappy that I have had difficulty sleepin Yes, most of the time Yes, sometimes Not very often				
	I have blamed myself unnecessarily when things went wrong Yes, most of the time Yes, some of the time Not very often No, never	*8	 No, not at all I have felt sad or miserable Yes, most of the time Yes, quite often Not very often No, not at all 				



Edinburgh Postnatal Depression Anxiety Subscale (EPDS-3A)

- Used to calculate a specific anxiety score
- Items 3, 4, and 5 of the EPDS are totaled
- Cut off of ≥ 6 warrants further evaluation for anxiety









Patient Health Questionnaire 9 (PHQ-9)

- •9-question self-administered scale
 - Does not screen for anxiety
- •Takes less than 5 minutes to complete
- Used in screening for adult depression
 - Not specific to pregnancy or postpartum
- Available in EMR and multiple languages



PHQ-9

- Max score of 27
- Depression scores:
 - 5-9 mild
 - 10-14 moderate
 - 15-19 moderate/ severe
 - 20-27 severe
- Score of >0 on #9 indicates risk of harm to self or others



Over the last 2 weeks, how often have you been

bothered by any of the following problems? (use "✓" to indicate your answer)	Not at all	Several days	More than half the days	Nearly every day
1. Little interest or pleasure in doing things	0	1	2	3
2. Feeling down, depressed, or hopeless	0	1	2	3
3. Trouble falling or staying asleep, or sleeping too much	0	1	2	3
4. Feeling tired or having little energy	0	1	2	3
5. Poor appetite or overeating	0	1	2	3
6. Feeling bad about yourself—or that you are a failure or have let yourself or your family down	0	1	2	3





General Anxiety Disorder (GAD-7)

- Should be utilized with the PHQ-9 to screen for possible anxiety
- 7-question self-administered scale
- •Takes 3 minutes or less to complete
- Used in screening for adult anxiety
 - Not specific to pregnancy or postpartum
- Available in multiple languages



GAD-7

- Max score of 21
- Anxiety cutoffs:
 - 5 mild
 - 10 moderate
 - 15 severe



Over the <u>last 2 weeks</u> , how often have you been bothered by the following problems? (Use " to indicate your answer)	Not at all	Several days	More than half the days	Nearly every day
1. Feeling nervous, anxious or on edge	0	1	2	3
2. Not being able to stop or control worrying	0	1	2	3
3. Worrying too much about different things	0	1	2	3
4. Trouble relaxing	0	1	2	3
5. Being so restless that it is hard to sit still	0	1	2	3
6. Becoming easily annoyed or irritable	0	1	2	3
7. Feeling afraid as if something awful might happen	0	1	2	3





Getting Started



Perinatal Family Mental Health Initiative



- Launched Fall 2020
- Three-year statewide depression screening and referral project
- Funded by the Pritzker Foundation through a sub-award from First Five Nebraska





Toolkit

- Why Screen for Perinatal Depression
- Who and When to Screen
- Which Screening Tool to Use
 - Edinburgh Postnatal Depression Scale (EPDS)
 - Edinburgh Postnatal Depression Scale Anxiety Subscale (EPDS-3A)
 - Patient Health Questionnaire-9 (PHQ-9)
 - Generalized Anxiety Disorder Screener (GAD-7)
- Sample Screening Algorithm for EPDS and PHQ-9
- Sample Action Crisis Plan
- Key Clinical Considerations
- Perinatal Mental Health Resources
- Medication Therapy and Lactation
- Lactation Resources
- Resources for Families
- Patient Handouts and Education
- Appendix A-G:
 - Summary of Mood and Anxiety Disorders
 - EPDS, PHQ-9, and GAD-7 Tools (English/Spanish) and Scoring Instructions
 - Sample Scripts for Screening and Referral
 - Local Resources Template
 - Behavioral Health System of Care Regions

Clinical Guidelines for Implementing Universal Perinatal Depression Screening



Nebraska Perinatal Quality Improvement Collaborative www.npqic.org

Sample Workflow

Screening is Recommended with Timing as Follows:

MOTHERS

At least once prenatally Comprehensive postpartum visit By 1-month, then 2, 4, 6-month well child visit

FATHERS

At least once in the first 6 months after birth of baby

Screen During Check-In reening is Recommended with Timing as Follo Administer EPDS* or PHQ-9/GAD-7** ☐ Give directions on EPDS or PHO-9/ At least once prenatally GAD-7 completion Comprehensive postpartum visit By 1-month, then 2, 4, 6-month well child visit ☐ Emphasize it is only a screening tool ☐ Explain screen as routine part of care ☐ Assist with completion as needed At least once in the first 6 months after birth of baby □ Collect completed screening tool Score Tool ☐ Make notation of any positive answer to #10 on EPDS, #9 on PHO-9, or Total Screen score of 10 or more Is there a risk of self-harm or harm to YES others OR positive to # 10 (EPDS) or #9 (PHQ-9) EPDS /PHQ-9 Score Risk of self-harm or harm to others: 9 or less 10 or more Implement crisis plan Client is at higher risk of PPD Client is at lower risk of PPD (Action Crisis Plan included (EPDS/PHQ-9: 5-9 mild/at risk) (EPD S: 10-12 moderate; 13-30 high) in toolkit) ☐ Assess for sx's not reflected in score (PHQ-9: 10-14 moderate; 15-27 high) · Discuss concern related to ☐ Continue with education Needs further evaluation risk of harm to self or ☐ Repeat EPDS/PHO-9 at next designated others and assess if opportunity per local plan currently having active thoughts or a plan · Follow crisis plan according Results negative: Routine Care to level of response needed based on current thoughts/plans Implement referral plan (as developed by your local agency; may include the following, but should be adapted to a plan/procedure that fits your Follow up with client to make sure she has community and ensures an adequate system of care) received care within two weeks. ☐ Help problem solve with accessing care, if ☐ Discuss score and follow-up process with client ☐ Refer to OB/GYN and mental health provider (if applicable ☐ Repeat EPDS/PHQ-9 at next visit or prn applicable) - for appt. within next 2 weeks per plan o If no existing provider, make referral to a new ☐ Document response and follow up OB/GYN, primary care, or mental health * The EPDS-3A can be used to calculate a specific anxiety □ Document score and interventions score. Items 3, 4, & 5 from the EPDS are totaled. A score of 6 or greater warrants further evaluation for anxiety.

**As a best practice, it is recommended that the GAD-7 be used in conjunction with the PHQ-9 to screen for anxiety. A score of 10 or greater indicates further mental health evaluation

is needed.



Introducing the Screen to Patients



•"We ask all patients these questions because mood changes, anxiety, and worry are very common during pregnancy or after giving birth. They can affect your health and the health of the baby."

 Provide education on perinatal mental health





Introducing the Screen to Patients



Prenatally Visit

 "I'd like to check in to understand how you feel since you've become pregnant."

Postpartum

 " Now that you have had your baby. I would like to know how you are feeling and how you have been coping lately."

NICU Parents

 "Having a baby, especially one in the NICU, is a big adjustment and can be stressful for moms and dads. I would like to know how you are feeling and how you have been coping lately."

Well Child Visit

 "As your child's provider, I'm concerned about your child's wellbeing, and so I'm also concerned about the wellbeing of the people who care for your child.
 I'd like to know how you are feeling and how you have been coping."



Response to Screening



- Negative Screenings
 - Highlight behaviors and strategies for maintaining wellness.
- Suggested Script for Discussing Positive Screenings
 - "Thank you for filling out this screening. It seems like you've been experiencing low mood and stress and may be depressed. Depression and anxiety during pregnancy are common. You and your baby deserve to be well. There are many effective support options available. Would it be ok if we discussed those?"





Next Steps

- Communication and demystification
- Support
- Identification of community and family resources
- Referrals as indicated



Questions?



Part II

May 2nd from 12:00- 1:00pm CT

Management and Treatment of Mental Health Presentations in Pregnancy and Postpartum

Presenters: Ariadna Forray, MD and Kenneth McCartney, MHAL Approved for 1 hour of CE



Ariadna Forray, MD, Associate Professor of Psychiatry at Yale School of Medicine



Ken McCartney, MHAL, Division Director for Behavioral Ambulatory Services at CHI Health Midwest Division

Continuing Education

Both trainings (4/18 and 5/2) are approved for 1 hour CME/ CE each

Physicians, Physician Assistants, Advanced Practice Registered Nurses, Nurses, Residents & Fellows

Please complete your evaluation

Thank You











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