

# PA PQC

Pennsylvania Perinatal Quality Collaborative

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**MOMD Virtual Meeting**  
October 6, 2022

# Agenda

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- 1. Introduction** – Sara Nelis, RN, Project Manager, Jewish Healthcare Foundation
- 2. Presentations of Workflows and EHR Configurations for Perinatal Depression Screening and Follow-up Measures** –
  - Kerin Kohler, BSW and Elizabeth Huyett, MSN, RN, Tower Health Reading
  - Bridget Howard CNM, MSN and Sarah Henry, LCSW, Hospital of the University of Pennsylvania
- 3. Q&A and Peer-to-Peer Learning Discussion** – Facilitated by Emily Magoc, RN-BSN, MPH, Quality Improvement Facilitator, Jewish Healthcare Foundation
- 4. Wrap-Up & Next Steps** – Sara Nelis

# MOMD Process Measures

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## Prenatal Depression Screening and Follow-up

1. Percent of patients **screened** with a validated depression screen during pregnancy among deliveries in a quarter.

2. Percent of deliveries in the quarter with a positive depression screen during pregnancy **AND received follow-up care within 30 days** from the date of the first positive screen.

## Postpartum Depression Screening and Follow-up

3. Percent of patients **screened** with a validated depression screen during the *postpartum* period (84-day period)

4. Percent of patients who screened positive for depression during the 84-day postpartum period **AND received follow-up care within 30 days**

# Thank you for submitting data!

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## PRENATAL SCREENING

Geisinger Medical Center, Danville

Jefferson Abbingdon

Tower Health

UPMC Magee

Wellspan Ephrata Hospital

Wellspan Gettysburg Hospital

Wellspan Good Samaritan Hospital

Wellspan Summit Health Chambersburg Hospital

WellspanYorkHospital

## PRENATAL DEPRESSION FOLLOW-UP

Geisinger Medical Center, Danville

Penn Medicine Hospital of the University of Pennsylvania

UPMC Magee

# Thank you for submitting data!

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## POSTPARTUM SCREENING

Geisinger Medical Center, Danville

Penn Medicine Hospital of the University of Pennsylvania

Tower Health

UPMC Magee

Wellspan Ephrata Hospital

Wellspan Gettysburg Hospital

Wellspan Good Samaritan Hospital

Wellspan Summit Health Chambersburg Hospital

WellspanYorkHospital

## POSTPARTUM DEPRESSION FOLLOW-UP

Geisinger Medical Center, Danville

Penn Medicine Hospital of the University of Pennsylvania

UPMC Magee

Wellspan Ephrata Hospital

Wellspan Gettysburg Hospital

Wellspan Good Samaritan Hospital

Wellspan Summit Health Chambersburg Hospital

WellspanYorkHospital

# Based on the data, in Q1 2022:

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## Prenatal

- **80%** of pregnant individuals **screened** for depression with a validated screen
- **64%** of pregnant individuals who screened positive received **follow-up** actions within 30 days

## Postpartum

- **82%** of postpartum individuals **screened** for depression with a validated screen
- **71%** of postpartum individuals who screened positive received **follow-up** actions within 30 days

# Tower Health – Reading Hospital

Elizabeth Huyett MSN, RN, CEN

Clinical Standards Program Manager – Maternal-Child Health

Kerin Kohler BSW

Social Worker – Women's Health Center



# Our Current Interdisciplinary Team

- Ambulatory:
  - Clinical representatives from each OBGYN office
    - Providers, RNs, and Social Workers
  - Population Health team
    - 2 Integrated Care Clinicians, 2 Care navigators
- Inpatient:
  - Clinical representatives from OB triage, LD, Mother-Baby, Pediatrics
  - Clinical representatives from the Emergency Dept
- Goal for this FY:
  - Add representatives from outside pediatric offices
  - Add representatives from community behavioral health partners specialized in Maternal Mood Disorders.
  - Re-establish representatives from our Behavioral Health facility

# Gap Analysis

- Inconsistencies in screening processes among the ambulatory OB offices → Standardized the minimum expectation of once per trimester and again post partum.
- Identified clinical concerns related to the existing Pop Health guideline for addressing elevated PHQ 2/9 scores → worked with leadership from Pop Health to address these and ways to improve the program.
- Limitations with resources available to give to patients → continuing to identify resources for patients for where to seek support.
- Access to care → continue to navigate this within the community resources and internal behavioral health team
- Lack of reporting available → Built reports to capture baseline data on screening compliance per the PA PQC diagram.
- How do we connect with other community providers (OBGYN/Pediatric) that are serving our patients who deliver at Reading?

# Current State

- Use EPIC EMR → PHQ and Edinburg are available for use
  - Organizational standard is for PHQ to be utilized (inpatient OB departments also utilize PHQ)
  - Current screenings offered verbally, on paper, or electronically
    - As a pre-assigned patient-entered questionnaire that can be completed upon check-in on an iPad or completed ahead of a visit or after a triage call via the patient's portal.
  - No reports in EPIC were available for use and required IT builds to make data retrievable.
    - Built our own given team member's access to reporting systems.
    - Need to do deeper analysis on the data now available to us

# Reporting

- SAP Webi pulling from EPIC
  - Queries:
    - Births (Denominator)
    - Initial prenatal visit
    - Prenatal PHQ
    - Post-partum PHQ
    - Pediatric PHQ

# Reporting: Denominator

- Currently have to build reports off the delivery data which starts tied to the baby
  - Pulling by birth date specific to time range we are looking for (quarterly for PA PQC)
  - Limited to just Reading Hospital births

The screenshot displays a reporting tool interface with two main sections: 'Result Objects' and 'Query Filters'.

**Result Objects:** This section contains a horizontal list of fields. The first row includes 'Birth Pregnancy Key', 'Birth Mother Name', 'Birth Baby Patient Primary MRN', 'Birth Mother Patient Primary MRN', 'Birth Date (Sorting)', 'Patient First Race', 'Patient Ethnicity', 'Visit Encounter Key', and 'Birth Baby Patient Distinct Count'. The second row includes 'Birth Delivering Provider Name (Historical)' and 'Birth Key'.

**Query Filters:** This section is used to define search criteria. It shows two filters connected by an 'AND' operator. The first filter is 'Birth Date (Sorting)' with a 'Between' operator, a start date of '2/6/2022', and an end date of '3/8/2022'. The second filter is 'Birth Delivery Network Epic ID' with an 'In List' operator and the value '1010'.

# Reporting: IP Visit

- Query is based on the birth pregnancy key from our denominator query
- Looking for an “Initial Prenatal” visit type with a “completed” status between the Pregnancy Episode Start date and End Date.
- This provides us our visit date, department, and encounter key

The screenshot displays a query builder interface with two main sections: "Result Objects" and "Query Filters".

**Result Objects:** This section contains five fields: "Visit Encounter Key", "Visit Patient Durable Key", "Visit Patient Primary MRN", "Visit Department Name", and "Visit Encounter Date (Sorting)".

**Query Filters:** This section is organized into a logical structure. It starts with a "Pregnancy Key" field set to "In List" and a "Birth Pregnancy Key (Births)" field. Below this is a "Visit Is Complete? (Yes/No)" field set to "In List" with a value of "Yes". A logical connector "AND" is placed to the left of the next filter. The next filter is "Visit Encounter Type" set to "In List" with a value of "Initial Prenatal". The final filter is "Visit Encounter Date (Sorting)" set to "Between", with "Pregnancy Episode Start Date (Sorting)" on the left and "Pregnancy Episode End Date (Sorting)" on the right.

# Reporting: Prenatal PHQ

- Query looks specifically for the flowsheet row IDs associated with the PHQ screenings that occurred between the pregnancy episode start date and delivery date
- This results the visit encounter department, date of screening, and result
- Currently ranked to show us only most recent result within that specified time frame

The screenshot displays a query builder interface with two main sections: Result Objects and Query Filters.

**Result Objects:** This section contains a list of fields to be displayed in the query results. The fields are: Pregnancy Patient Primary MRN, Pregnancy Episode Start Date (Sorting), Visit Encounter Date (Sorting), Visit Department Name, Flowsheet Taken Instant, Flowsheet Row Name, Flowsheet Value, Pregnancy Last Delivery Date (Display), Pregnancy Care Team Provider Name (Historical), and Pregnancy Key.

**Query Filters:** This section contains a list of filters to be applied to the query. The filters are: Pregnancy Key (In List), Birth Pregnancy Key (Births), Flowsheet Row Epic ID (In List, with value 22483;2100100060;13437;21), Visit Encounter Date (Sorting) (Between, with Pregnancy Episode Start Date (Sorting) and Pregnancy Last Delivery Date (Sorting)), Visit Is Complete? (Yes/No) (In List, with YES), Flowsheet Encounter Key (Equal to, with Visit Encounter Key), and Flowsheet Key (Based on, with Flowsheet Taken Instant Measure).

# Reporting: PP PHQ

- Similar to Prenatal PHQ query except now looking at completed encounter dates between the birth date and 90 days post partum

The screenshot displays a query builder interface with two main sections: 'Result Objects' and 'Query Filters'.

**Result Objects:** This section contains several fields for data display, including 'Pregnancy Patient Primary MRN', 'Pregnancy Episode Start Date (Sorting)', 'Visit Encounter Date (Sorting)', 'Visit Department Name', 'Flowsheet Taken Instant', 'Flowsheet Patient Durable Key', 'Flowsheet Row Name', 'Flowsheet Value', 'Pregnancy Last Delivery Date (Display)', 'Pregnancy Care Team Provider Name (Historical)', and 'Pregnancy Key'.

**Query Filters:** This section is used to define the query criteria. It includes the following filters:

- 'Pregnancy Key' set to 'In List' and 'Birth Pregnancy Key (Births)'.
- 'Flowsheet Row Epic ID' set to 'In List' with the value '22483;2100100060;13437;21'.
- 'Visit Encounter Date (Sorting)' set to 'Between', 'Pregnancy Last Delivery Date (Sorting)', and 'Pregnancy Last Delivery EndDate 90Day'.
- 'Visit Is Complete? (Yes/No)' set to 'In List' with the value 'YES'.
- 'Flowsheet Encounter Key' set to 'Equal to' and 'Visit Encounter Key'.

Below the filters, there is an 'AND' operator and a 'Where' clause section. The 'Where' clause includes:

- 'Top' set to '1'.
- 'Flowsheet Key' set to 'Based on' and 'Flowsheet Taken Instant Measure'.
- 'Pregnancy Key' set to 'In List' and 'Birth Pregnancy Key (Births)'.
- 'Visit Is Complete? (Yes/No)' set to 'In List' with the value 'YES'.
- 'Visit Encounter Date (Sorting)' set to 'Between', 'Pregnancy Last Delivery Date (Sorting)', and 'Pregnancy Last Delivery EndDate 90Day'.

# Reporting: Peds PHQ

- We have 2 pediatric offices associated with Reading Hospital and Tower Health Medical Group in addition to Family Medicine offices that see some of the infants.
- This query pulls from the baby's birth date and visit encounters after the birth date pulling a ranked result.

The screenshot displays a query builder interface with the following components:

- Result Objects:** A row of buttons for selecting fields: Birth Mother Patient Primary MRN, Birth Baby Patient Primary MRN, Visit Encounter Date (Sorting), Visit Department Name, Flowsheet Taken Instant, Flowsheet Patient Durable Key, Flowsheet Row Name, Flowsheet Value, Flowsheet Row Epic ID, Visit Encounter Key, Visit Key, and Birth Pregnancy Key.
- Query Filters:** A section containing several filter rules:
  - Birth Date (Sorting) Between 2/6/2022 And 3/8/2022
  - Birth Key In List Birth Key (Births)
  - Visit Encounter Date (Sorting) Greater than Birth Date (Sorting)
  - Visit Is Complete? (Yes/No) In List YES
  - Flowsheet Encounter Key Equal to Visit Encounter Key
  - Flowsheet Row Epic ID In List 13437;210400003;210400011
  - Flowsheet Key Based on Flowsheet Taken Instant Measure
- AND:** A label indicating that the filters are combined with an AND operator.
- Ranking:** A dropdown menu set to 'Top' with a value of '1' and a 'Based on' dropdown set to 'Flowsheet Taken Instant Measure'.

# Reporting: Results

- Each query has an individual result page.
- Variables were built to tie all the queries together to show prenatal, post partum, and pediatric results all associated to the mother.
- Includes race/ethnicity, date and times of screenings, and departments who performed the screening.

# Reports: Results View

Patient First Race	Patient Ethnicity	Birth Date (Sorting)	Birth Delivering Provider Name (Historical)	Prenatal PHQ Date	Prenatal Null Pt Ct	Prenatal Visit Dept	PP PHQ Date	PP Null PT CT	PP Visit Dept	Peds PHQ Date	Peds Visit Department
Other	Hispanic or Latino	2022-02-06	FEHNEL, ERIC S	02/02/22 09:22 AM	0	OBGYN WYOMISSING THMG	03/21/22 10:49 AM	0	OBGYN WYOMISSING THMG		
Other	Hispanic or Latino	2022-02-06	BOSSERT, ANNA	01/06/22 10:57 AM	0	WHC WOMENS HEALTH CNTR	03/23/22 10:08 AM	0	WHC WOMENS HEALTH CNTR	08/11/22 09:00 AM	CHC CHILDREN'S HEALTH
Other	Hispanic or Latino	2022-02-06	FEHNEL, ERIC S	02/03/22 02:00 PM	0	WHC WOMENS HEALTH CNTR	03/22/22 10:13 AM	0	WHC WOMENS HEALTH CNTR	08/24/22 01:23 PM	CHC CHILDREN'S HEALTH
Black or African American	Not Hispanic or Latino	2022-02-06	BOSSERT, ANNA	02/03/22 08:46 AM	0	RAAW ALL ABOUT WOMEN	03/18/22 09:46 AM	0	RAAW ALL ABOUT WOMEN	08/16/22 09:02 AM	CHC CHILDREN'S HEALTH
White or Caucasian	Not Hispanic or Latino	2022-02-06	FEHNEL, ERIC S		1		03/22/22 09:26 AM	0	WHC WOMENS HEALTH CNTR	08/16/22 01:02 PM	CHC CHILDREN'S HEALTH
White or Caucasian	Not Hispanic or Latino	2022-02-06	BOSSERT, ANNA	02/01/22 08:47 AM	0	ACFW AD CARE WOMEN 380		1			
White or Caucasian	Not Hispanic or Latino	2022-02-06	DAVIDSON, SHANNON M	02/04/22 04:26 PM	0	ROBG READING OB/GYN	03/22/22 01:20 PM	0	ROBG READING OB/GYN		
Other	Hispanic or Latino	2022-02-07	CAMMARANO III, DOMINIC J	02/01/22 02:06 PM	0	WHC WOMENS HEALTH CNTR	03/22/22 03:10 PM	0	WHC WOMENS HEALTH CNTR		
White or Caucasian	Not Hispanic or Latino	2022-02-07	MJALLEM, NABIL S		1			1		08/12/22 11:45 AM	WPA WYOMISSING PEDI
White or Caucasian	Hispanic or Latino	2022-02-07	GANZEKAUFER, NICOLE MARIE	02/03/22 02:14 PM	0	OBGYN WYOMISSING THMG		1			
White or Caucasian	Not Hispanic or Latino	2022-02-07	GANZEKAUFER, NICOLE MARIE	02/02/22 10:26 AM	0	ROBG READING OB/GYN	03/23/22 10:51 AM	0	ROBG READING OB/GYN	08/22/22 03:25 PM	MORP TRHMG MORGANTOWN

# Reporting: PA PQC Reports

## CY21 vs CY22:

Quarter	Prenatal Patients	Prenatal Numerator	Prenatal PHQ Compliance	Total Births
1st Jan-Mar	712	588	82.58%	714
2nd Apr-Jun	774	623	80.49%	778
3rd Jul-Sep	837	722	86.26%	838
4th Oct-Dec	783	670	85.57%	795
<b>CY Total</b>	<b>3106</b>	<b>2603</b>	<b>83.81%</b>	<b>3125</b>

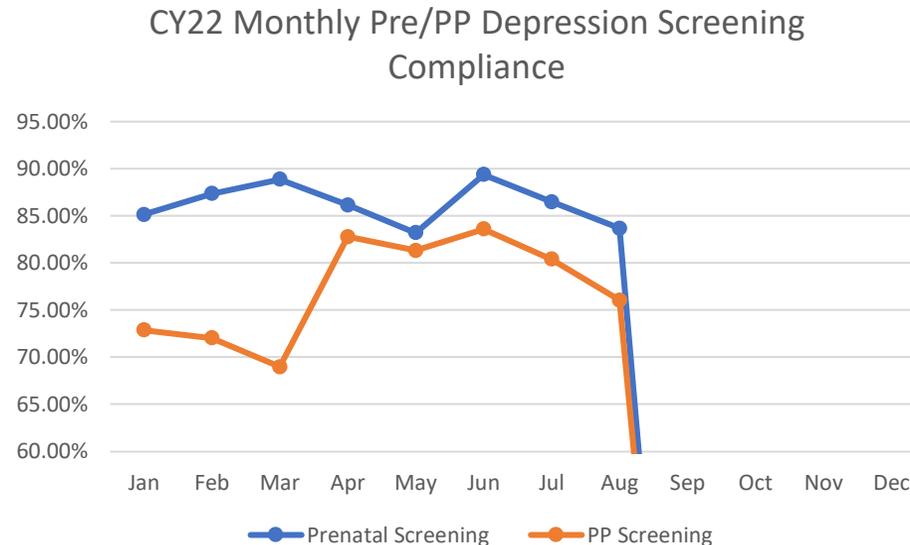
Quarter (84 DAYS PRIOR)	PP Patients	PP Numerator (including Peds)	PP PHQ Compliance	Total Births
1st Jan-Mar	717	649	90.52%	717
2nd Apr-Jun	739	661	89.45%	741
3rd Jul-Sep	791	700	88.50%	795
4th Oct-Dec	838	569	67.90%	856
<b>CY Total</b>	<b>3085</b>	<b>2579</b>	<b>83.60%</b>	<b>3109</b>

Quarter	Prenatal Patients	Prenatal Numerator	Prenatal PHQ Compliance	Total Births
1st Jan-Mar	764	666	87.17%	774
2nd Apr-Jun	757	653	86.26%	769
3rd Jul-Sep			#DIV/0!	
4th Oct-Dec			#DIV/0!	
<b>CY Total</b>	<b>1521</b>	<b>1319</b>	<b>86.72%</b>	<b>1543</b>

Quarter (84 DAYS PRIOR)	PP Patients	PP Numerator (including Peds)	PP PHQ Compliance	Total Births
1st Jan-Mar	755	605	80.13%	769
2nd Apr-Jun	769	615	79.97%	776
3rd Jul-Sep			#DIV/0!	
4th Oct-Dec			#DIV/0!	
<b>CY Total</b>	<b>1524</b>	<b>1220</b>	<b>80.05%</b>	<b>1545</b>

# Reporting: Monthly Data

- Recently able to break down the quarterly data to a monthly view for our organization as a whole
- Future state: break this down by individual office so each team member can take back to their clinical teams to address





Penn Medicine

The Hospital of the University of Pennsylvania

# Moving on Maternal Depression Committee: Report to the PA-PQC

Bridget Howard, CNM, MSN

Sarah Henry, LCSW

Special thanks to our other Social Workers who could not join us today:

Emma Kirshblum, LCSW

Latesha Kearney-Beauford, LCSW



# EHR Social Determinants of Health

## ♥ Social Determinants of Health

 Intimate Partner Violence <a href="#">↗</a> Not on file	 Social Connections <a href="#">↗</a> Not on file
 Alcohol Use <a href="#">↗</a> Not on file	 Tobacco Use <a href="#">↗</a> Sep 24 2022: Low Risk
 Financial Resource Strain <a href="#">↗</a> Not on file	 Depression <a href="#">↗</a> Not on file
 Stress <a href="#">↗</a> Not on file	 Physical Activity <a href="#">↗</a> Not on file
 Food Insecurity <a href="#">↗</a> Not on file	 Transportation Need <a href="#">↗</a> Not on file
 Postpartum Depression <a href="#">↗</a> Sep 26 2022: Low Risk	



# Social Determinants of Health

**SOCIAL DETERMINANTS**



High Risk

A red circle is positioned to the right of the 'High Risk' label.

This panel displays ten social determinant icons: a starburst, a family, a wallet, a lightning bolt, a person running, a fork and knife, a car, and a pregnant woman. The pregnant woman icon is highlighted in red.

**SOCIAL DETERMINANTS**



Moderate Risk

A yellow circle is positioned to the right of the 'Moderate Risk' label.

This panel displays ten social determinant icons: a starburst, a family, a bottle and glass, a wallet, a lightning bolt, a person running, a fork and knife, a car, and a pregnant woman. The pregnant woman icon is highlighted in yellow.

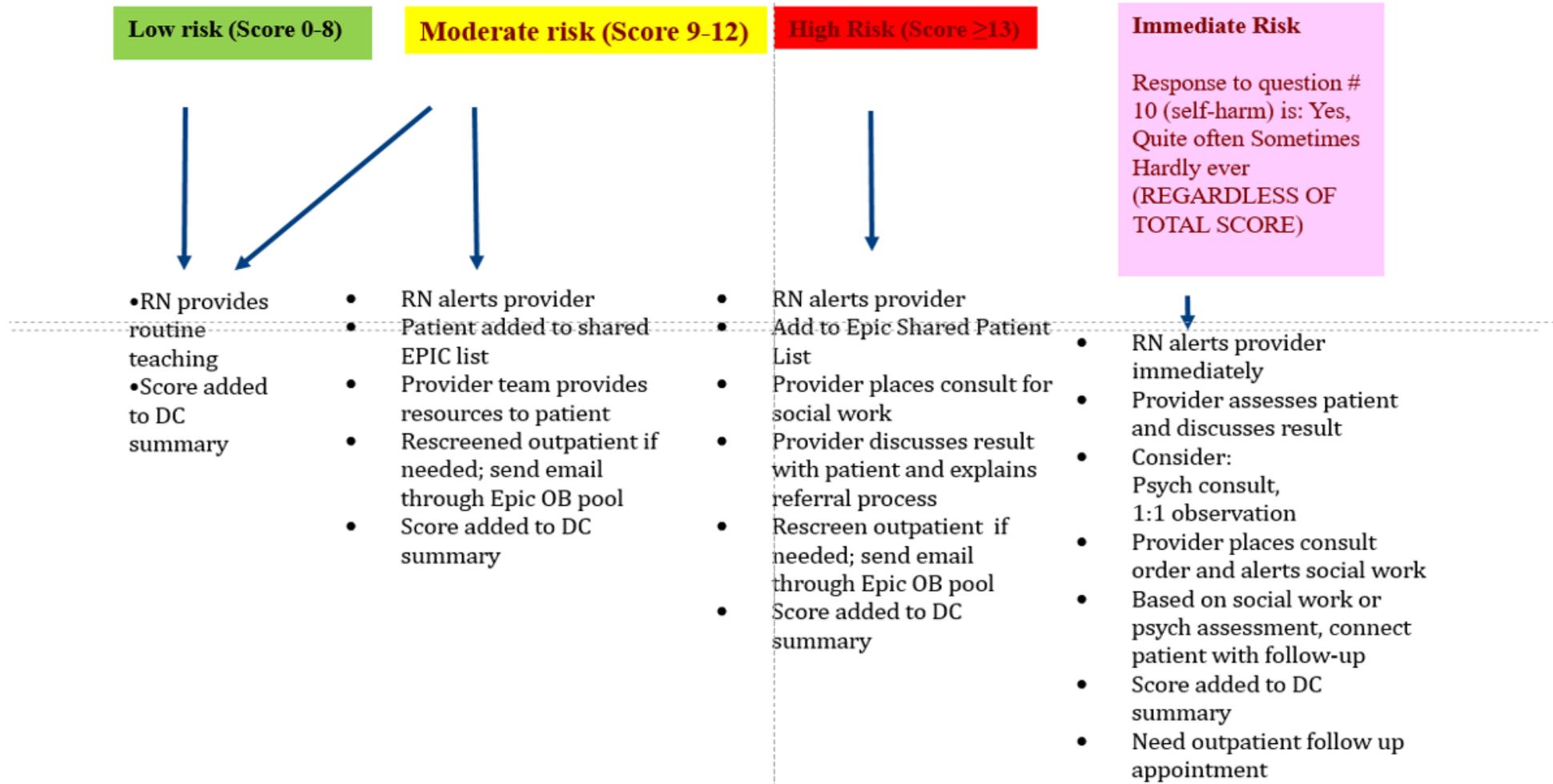
- No PPD screening icon under social determinant area

\*please ensure EPDS was completed; \* is this an opportunity to change to having an icon in green?

Low Risk

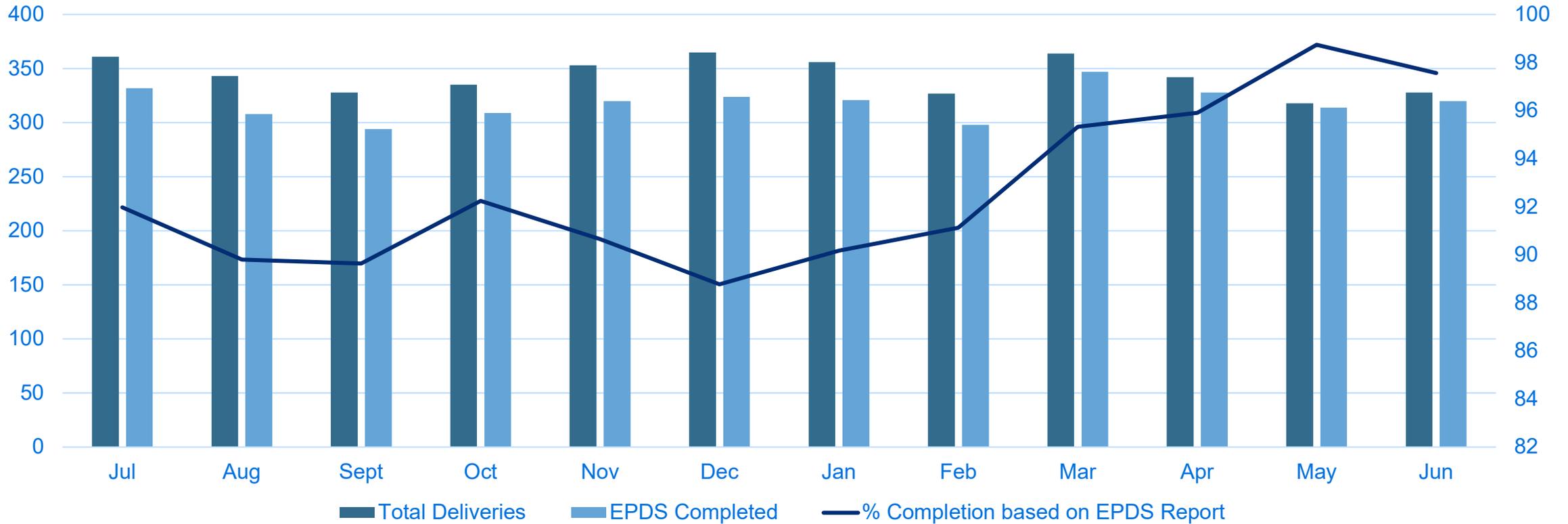
A green circle is positioned to the right of the 'Low Risk' label.

## Goal: All women screened with EPDS by the time of discharge

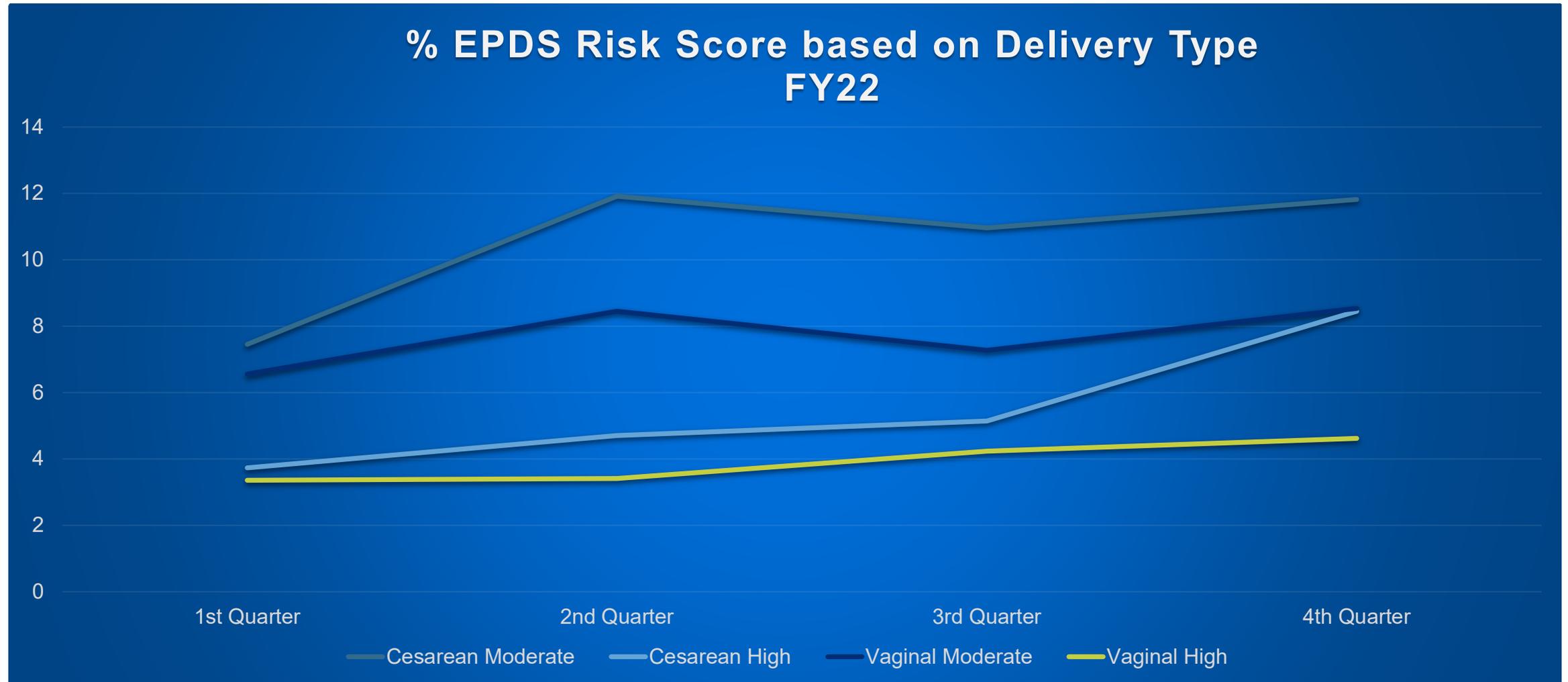


# EPDS Completion Prior to Discharge FY22

FY22  
 EPDS Completion Prior to Discharge  
 N=92.59%

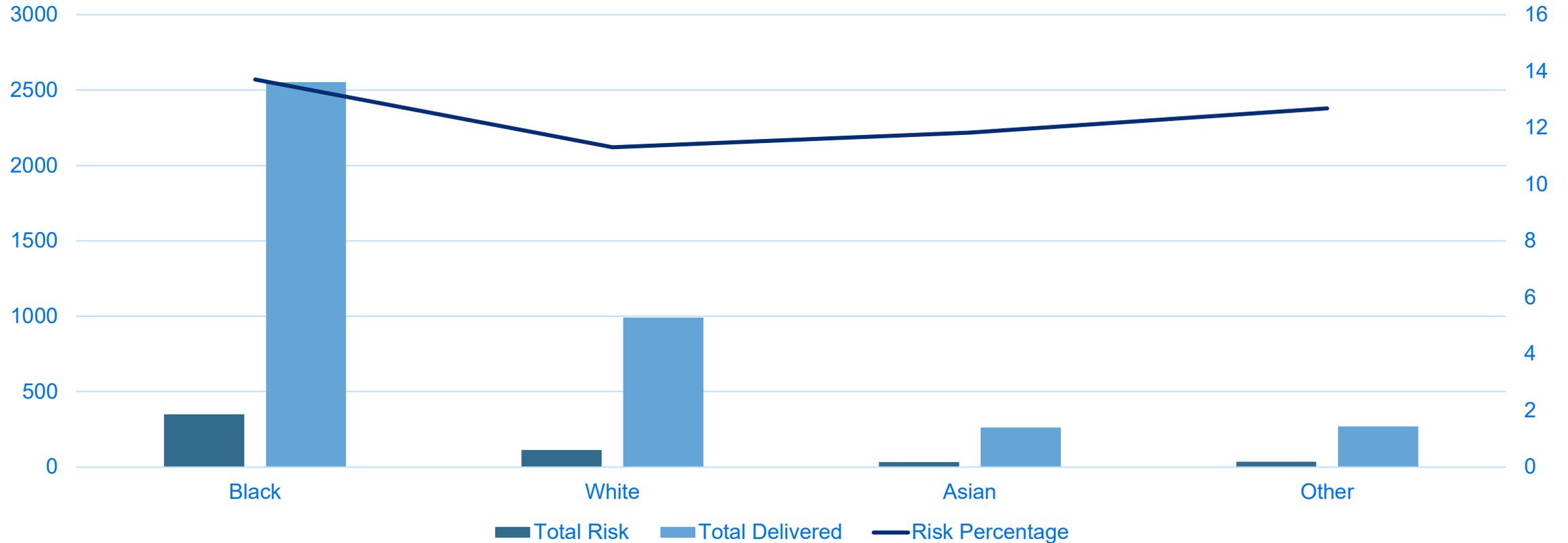


# Risk Based on Delivery Type: FY22

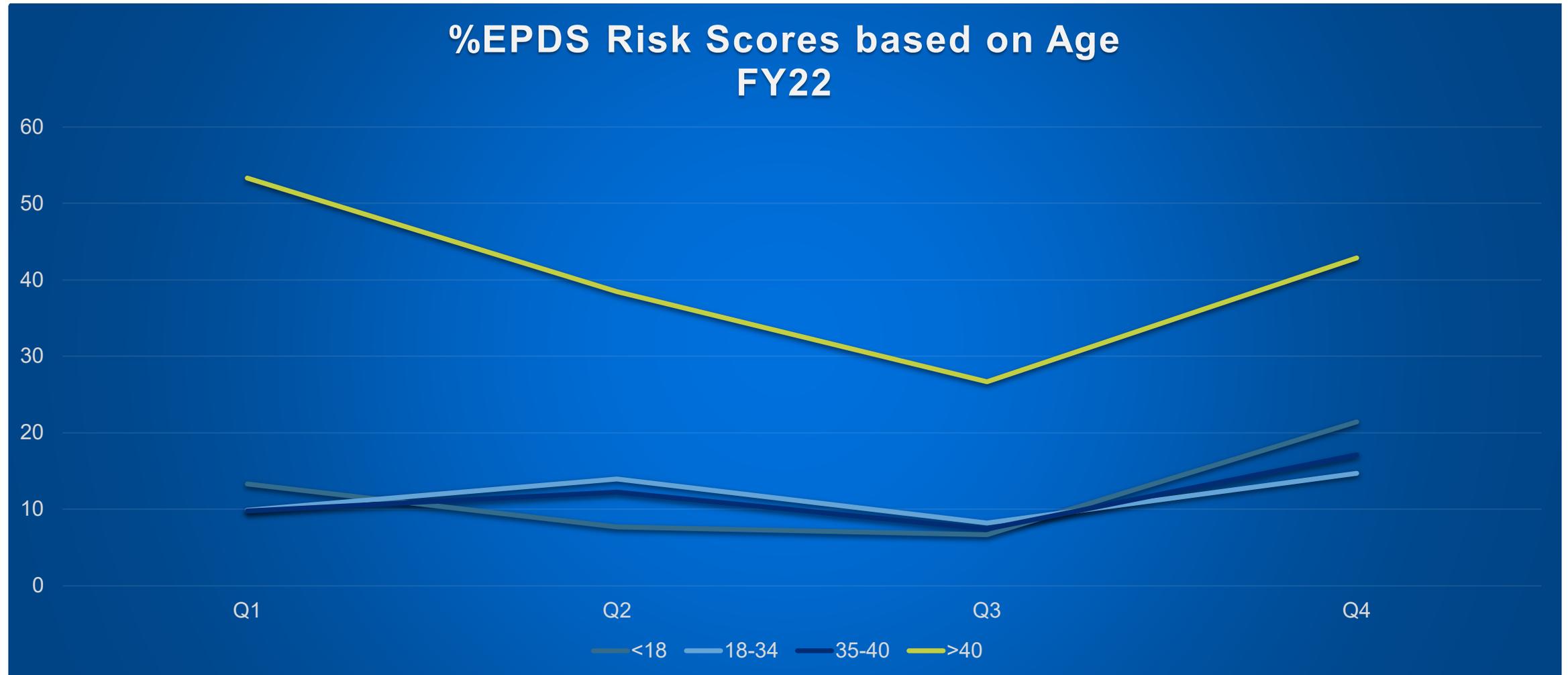


# Risk Based on Race/Ethnicity: FY22

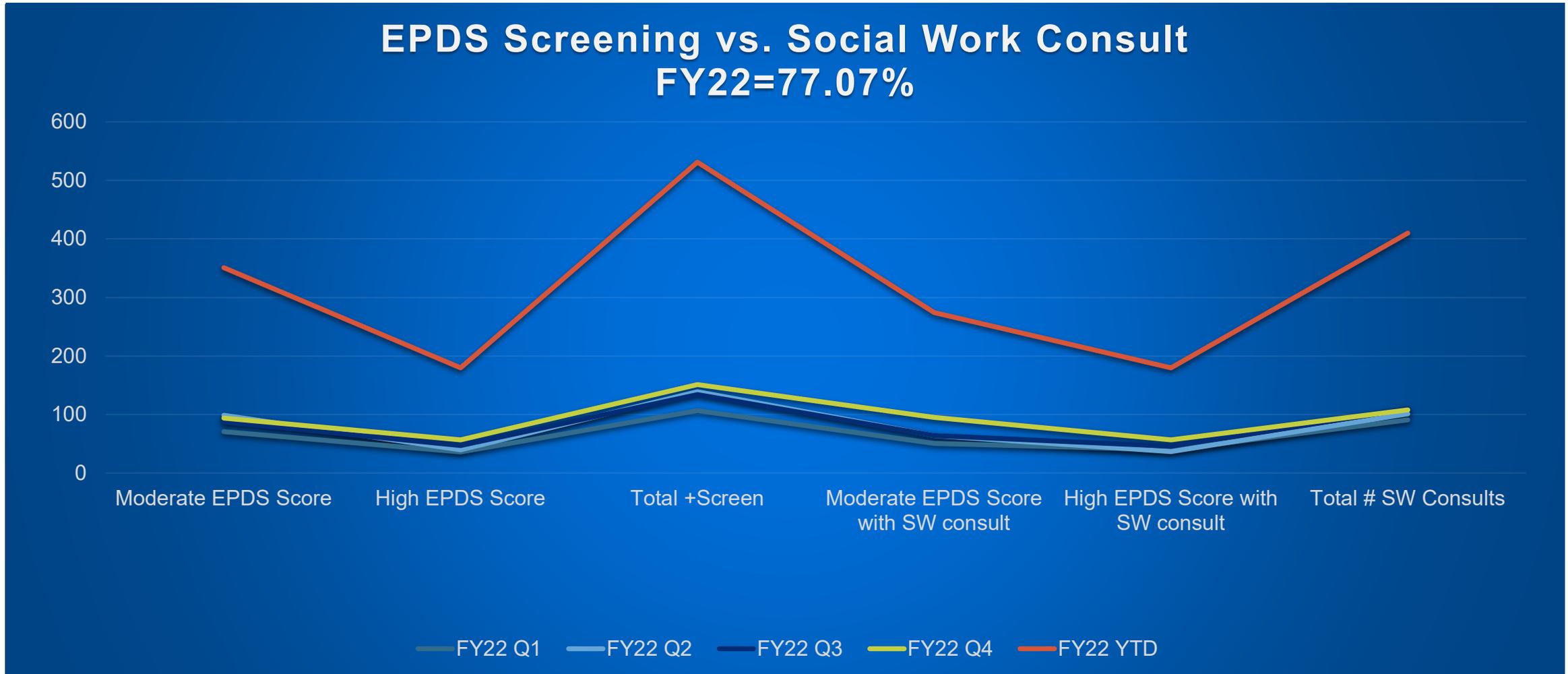
Risk Based on Race/Ethnicity vs. Total Delivered  
FY22 YTD



# Risk Based on Age: FY22



# Social Work Partnership: FY22



# Strengths

- ▶ Implementation of the tool
- ▶ Nursing staff commitment
  - Discharge round process
- ▶ Culture Shift
  - Empathy
  - Integrated MH care
  - Presence of EPDS is important from a visibility standpoint
- ▶ Support for Multidiscipline Staff Education
- ▶ Communication and Delivery of MH concerns with Patients
  - Education for Patients
- ▶ Every OB patient is being asked about self-harm during hospitalization



# Challenges

## ▶ Timeline

- Given after 24 hrs and before 30 hrs
- Given too soon: resolved and more accurate data now
- Given right before discharge

## ▶ Language of EPDS: Confused about Q#10

- “hardly ever” across the board confused about this question and increased with any language barrier

## ▶ Staff Education Standards

- Q#10 any response is positive

## ▶ Automated Process

## ▶ Staffing challenges

- Does 9-12 warrant a consult with SW

## ▶ Lack of MH outpatient appointments

- 60d-6 months to obtain an appointment

# Goals

- ▶ Screen Antepartum Admissions
- ▶ Establish Standardized Screening Process
- ▶ Track MH throughout pregnancy and not just PP period
- ▶ Establishing MH care early
- ▶ Rescreen the NICU delivered parent



# Q&A

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**Emily Magoc, RN-BSN, MPH**  
**Quality Improvement Facilitator**  
**Jewish Healthcare Foundation**

# Wrap Up & Next Steps

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**Sara Nelis, RN**

**Project Manager**

**Jewish Healthcare Foundation**

# QI Awards Reminder

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**Milestone 1:** Attend the quarterly PA PQC Learning Sessions

**Milestone 2:** Submit a Quality Improvement (QI) Report Out, showing work related to implementing Key Intervention(s)

\* **Milestone 3:** Complete a PA PQC quarterly survey for the initiative

\* **Milestone 4:** Submit at least one quarter's worth of aggregated data for a PA PQC process or outcomes measure(s) through the PA PQC Life QI Data Portal

\* **Milestone 5:** Communicate and celebrate your team's impact!

***\*Milestones 3-5 Due: End of the month that follows each calendar quarter – October 31!***

<https://www.whamglobal.org/pa-pqc-initiatives/criteria-for-quality-improvement-awards>



# Learning Sessions

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## Quarterly Learning Sessions

- December 14 830am to 1230pm via Zoom



<https://www.whamglobal.org/member-content/register-for-sessions>