

PA PQC

Pennsylvania Perinatal Quality Collaborative

MOMD Virtual Meeting
October 6, 2022

Agenda

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

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!

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!

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

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Wellspan Good Samaritan Hospital

Wellspan Summit Health Chambersburg Hospital

WellspanYorkHospital

Based on the data, in Q1 2022:

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. At the top, under 'Result Objects', there are several fields: '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'. Below these, there are two more fields: 'Birth Delivering Provider Name (Historical)' and 'Birth Key'. The 'Query Filters' section is below the result objects. It contains two filters: 'Birth Date (Sorting)' with a 'Between' operator, dates '2/6/2022' and '3/8/2022', and 'Birth Delivery Network Epic ID' with an 'In List' operator and the value '1010'. The filters are connected by an 'AND' operator.

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 divided into two parts. The top part contains two filters: "Pregnancy Key" (set to "In List") and "Birth Pregnancy Key (Births)". The bottom part, separated by an "AND" connector, contains three filters: "Visit Is Complete? (Yes/No)" (set to "In List" with a value of "Yes"), "Visit Encounter Type" (set to "In List" with a value of "Initial Prenatal"), and "Visit Encounter Date (Sorting)" (set to "Between" with "Pregnancy Episode Start Date (Sorting)" and "Pregnancy Episode End Date (Sorting)" as the range).

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 shows a query builder interface with two main sections: Result Objects and Query Filters.

Result Objects:

- 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)
- Pregnancy Key

Query Filters:

- Pregnancy Key In List
- Birth Pregnancy Key (Births)
- Flowsheet Row Epic ID In List: 22483;2100100060;13437;21
- Visit Encounter Date (Sorting) Between Pregnancy Episode Start Date (Sorting) And Pregnancy Last Delivery Date (Sorting)
- AND
- Visit Is Complete? (Yes/No) In List: YES
- Flowsheet Encounter Key Equal to Visit Encounter Key
- Top 1
- Flowsheet Key Based on 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 the following sections:

- Result Objects:** A horizontal bar containing various data fields such as '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:** A section for defining query criteria, including:
 - 'Pregnancy Key' set to 'In List' with a dropdown for 'Birth Pregnancy Key (Births)'.
 - 'Flowsheet Row Epic ID' set to 'In List' with a value of '22483;2100100060;13437;21'.
 - 'Visit Encounter Date (Sorting)' set to 'Between' with 'Pregnancy Last Delivery Date (Sorting)' and 'Pregnancy Last Delivery EndDate 90Day' as the range.
 - 'Visit Is Complete? (Yes/No)' set to 'In List' with a value of 'YES'.
 - 'Flowsheet Encounter Key' set to 'Equal to' with 'Visit Encounter Key'.
- AND:** A section for combining filters, currently showing 'Top 1'.
- Where:** A section for defining the query's scope, including:
 - 'Pregnancy Key' set to 'In List' with a dropdown for 'Birth Pregnancy Key (Births)'.
 - 'Visit Is Complete? (Yes/No)' set to 'In List' with a value of 'YES'.
 - 'Visit Encounter Date (Sorting)' set to 'Between' with 'Pregnancy Last Delivery Date (Sorting)' and 'Pregnancy Last Delivery EndDate 90Day' as the range.

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 shows a query builder interface with the following sections:

- Result Objects:** A row of buttons including "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 criteria:
 - "Birth Date (Sorting)" set to "Between" with dates "2/6/2022" and "3/8/2022".
 - "Birth Key" set to "In List" with "Birth Key (Births)".
 - "Visit Encounter Date (Sorting)" set to "Greater than" with "Birth Date (Sorting)".
 - "Visit Is Complete? (Yes/No)" set to "In List" with "YES".
 - "Flowsheet Encounter Key" set to "Equal to" with "Visit Encounter Key".
 - "Flowsheet Row Epic ID" set to "In List" with the value "13437;210400003;210400011".
 - A ranking filter at the bottom: "Top" 1, based on "Flowsheet Key" using the "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	MUALLEM, NABIL S		1			1		08/12/22 11:45 AM	WPA WYOMISSING PEDS
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
CY Total	3106	2603	83.81%	3125

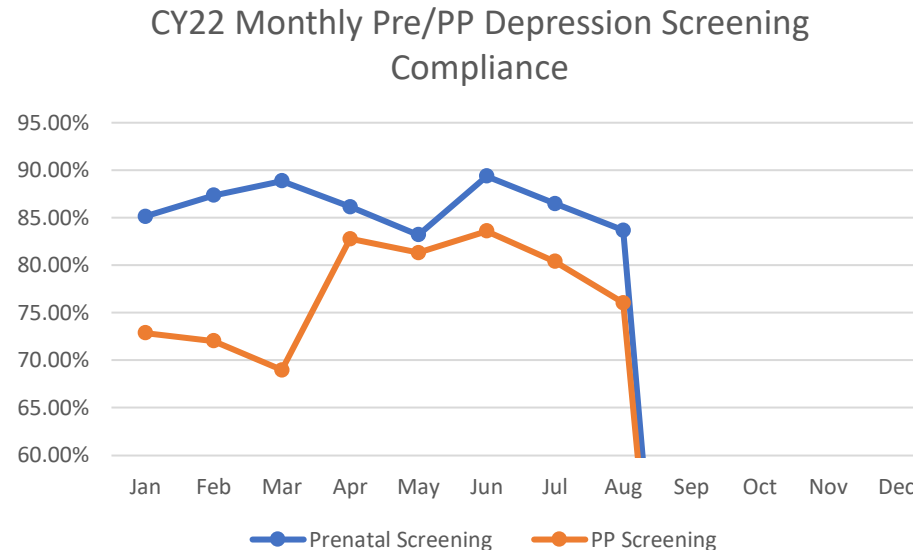
Quarter (84 DAYS PRIOR)	PP Patients	PP Numerator (including Peds)	PP PHQ Compliance	Total Births
1st Jan-Mar	717	649	90.52%	717
2nd Apr-Jun	739	661	89.45%	741
3rd Jul-Sep	791	700	88.50%	795
4th Oct-Dec	838	569	67.90%	856
CY Total	3085	2579	83.60%	3109

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!	
CY Total	1521	1319	86.72%	1543

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!	
CY Total	1524	1220	80.05%	1545

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





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 ↗ Not on file	 Social Connections ↗ Not on file
 Alcohol Use ↗ Not on file	 Tobacco Use ↗ Sep 24 2022: Low R
 Financial Resource Strain ↗ Not on file	 Depression ↗ Not on file
 Stress ↗ Not on file	 Physical Activity ↗ Not on file
 Food Insecurity ↗ Not on file	 Transportation Need ↗ Not on file
 Postpartum Depression ↗ Sep 26 2022: Low Risk	



Social Determinants of Health

SOCIAL DETERMINANTS



High Risk

SOCIAL DETERMINANTS



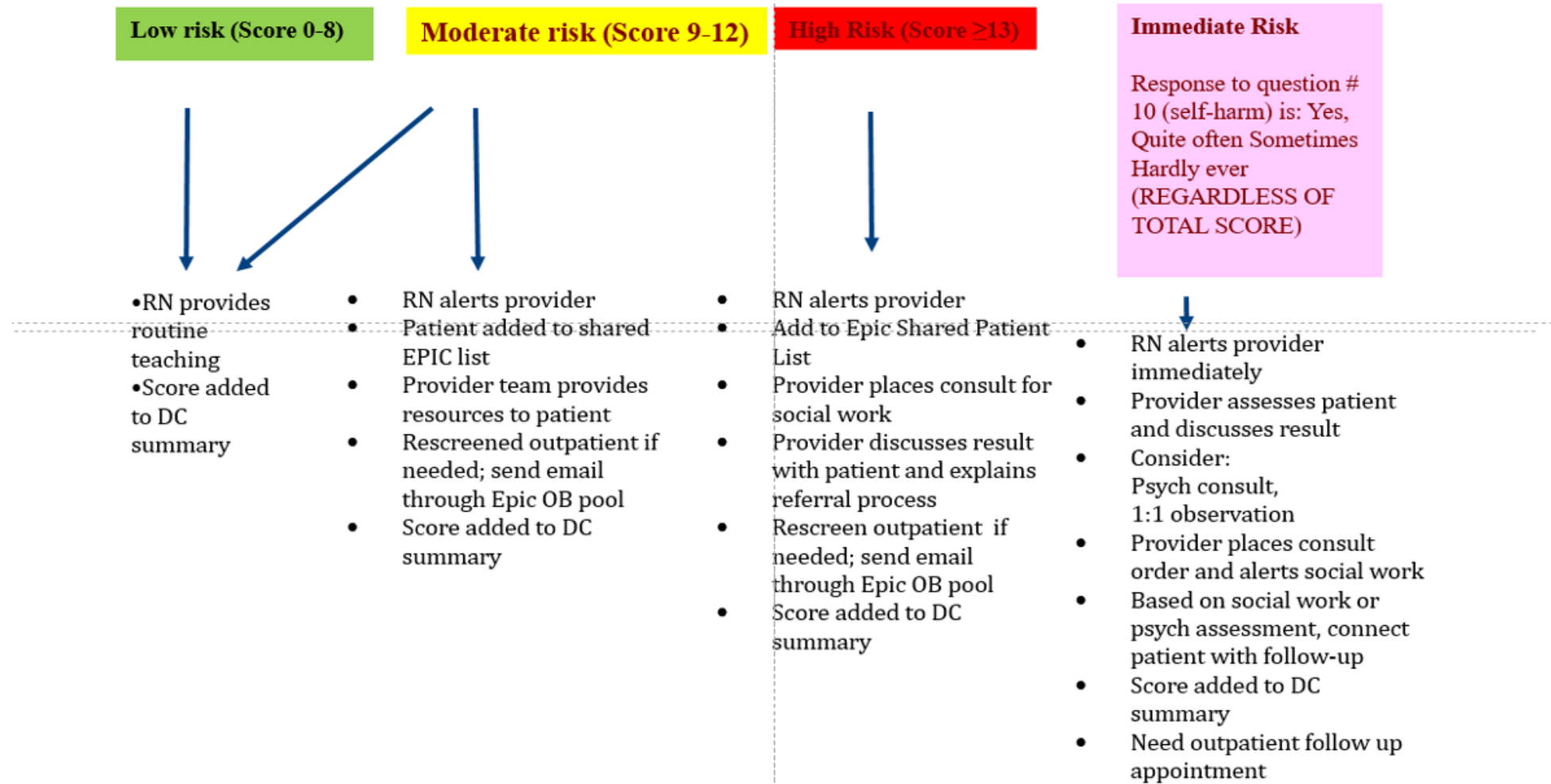
Moderate Risk

- 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?

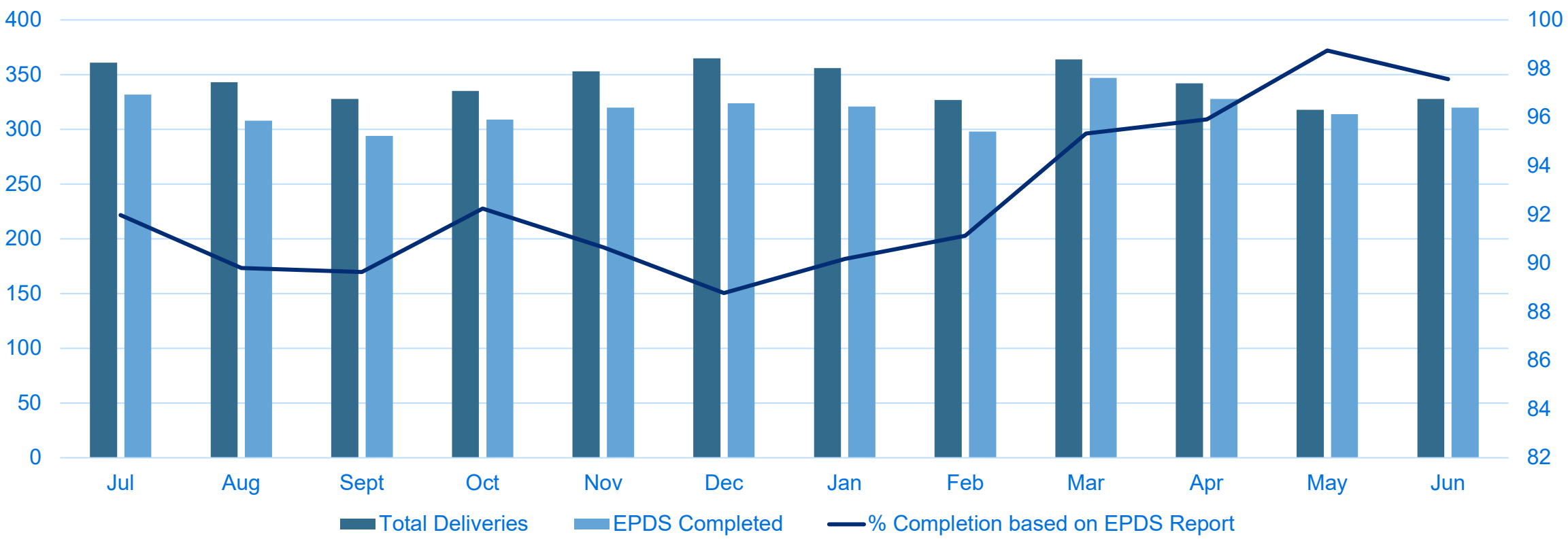
Low Risk

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

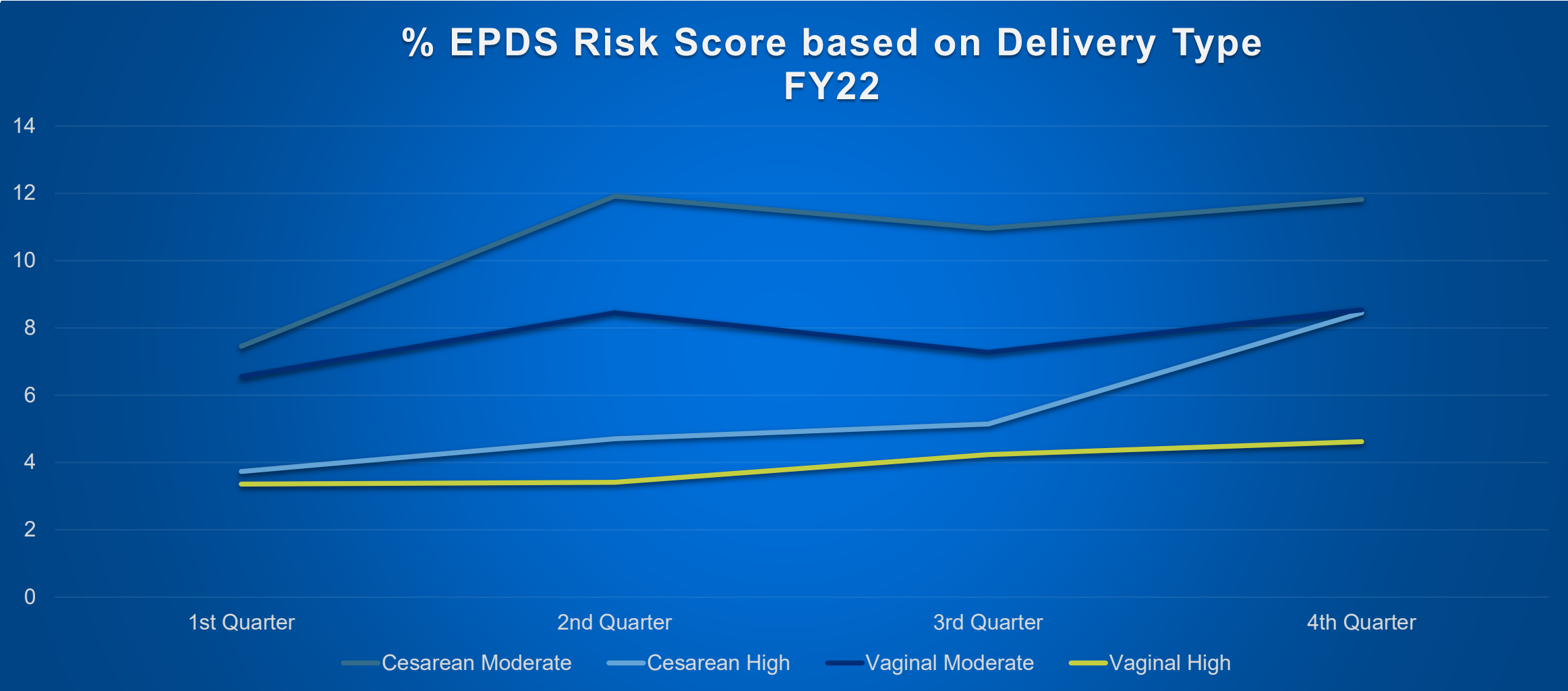


EPDS Completion Prior to Discharge FY22

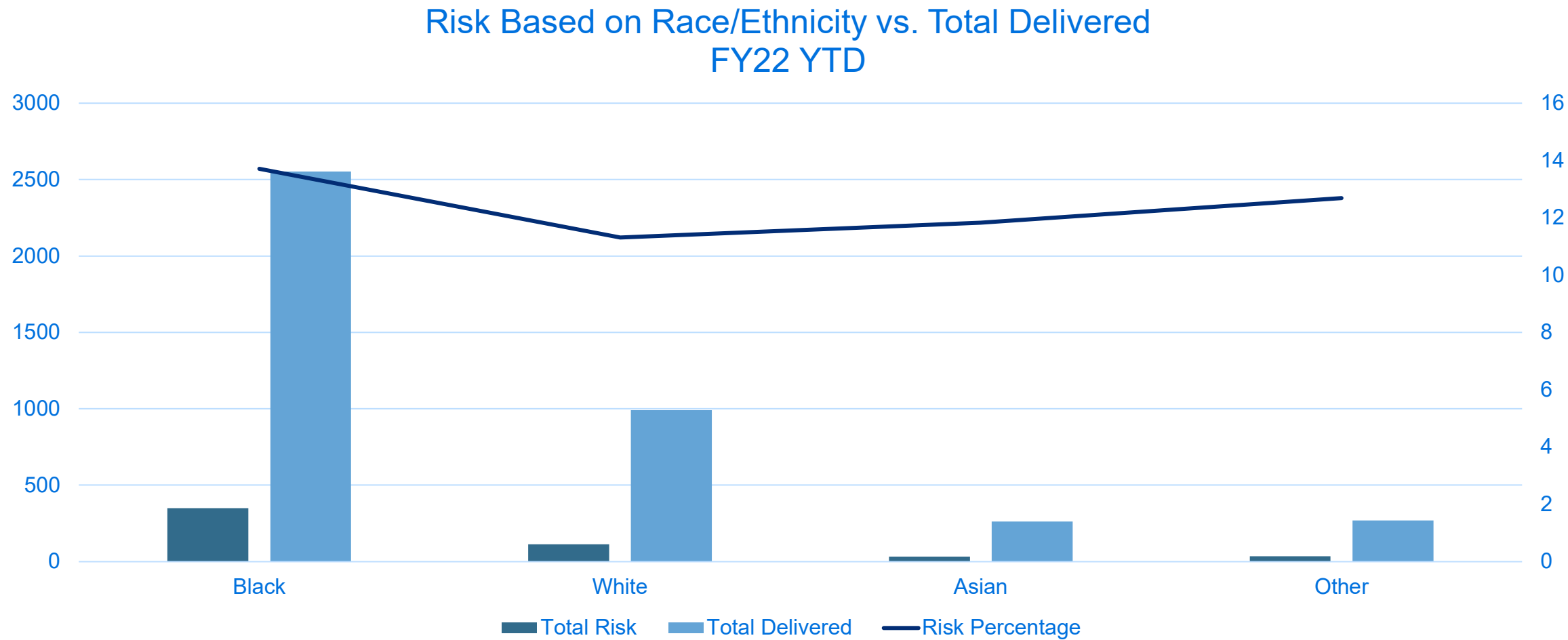
FY22
EPDS Completion Prior to Discharge
N=92.59%



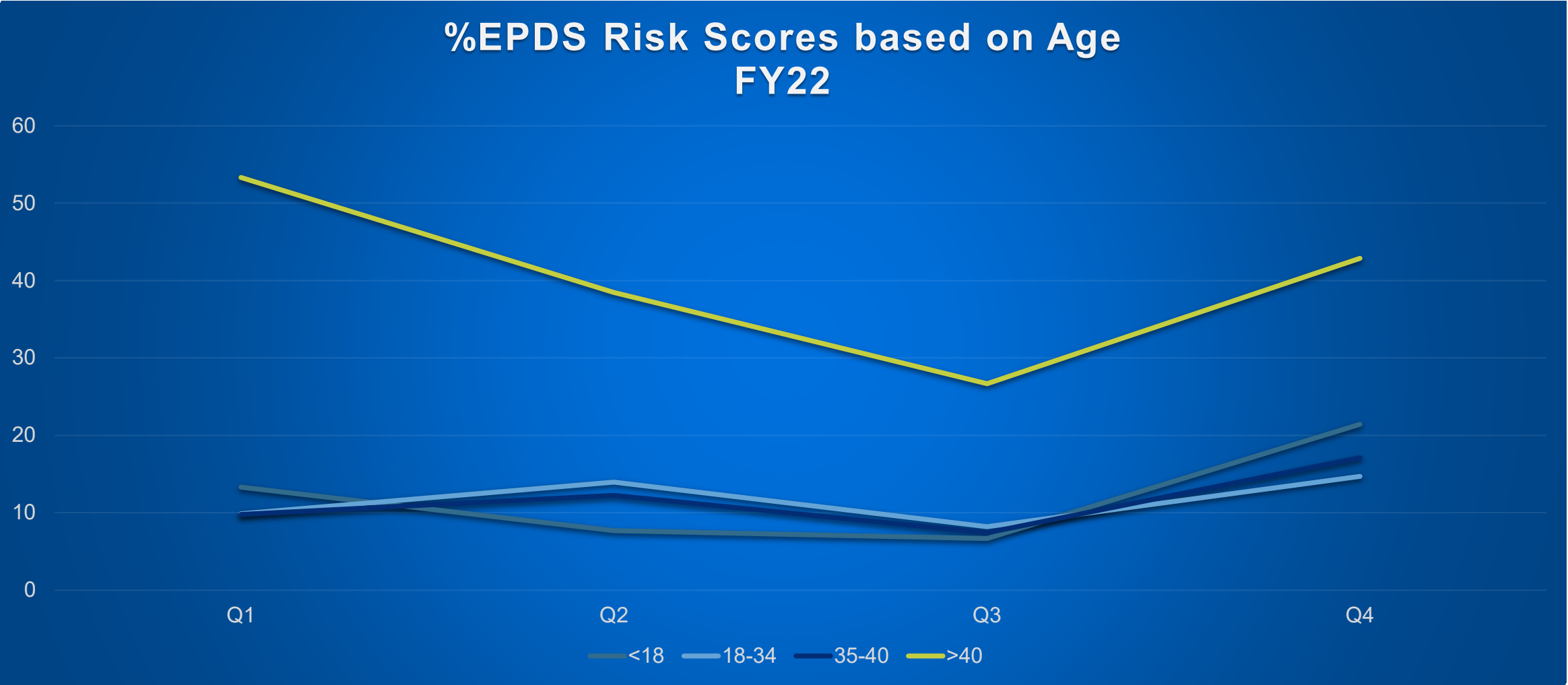
Risk Based on Delivery Type: FY22



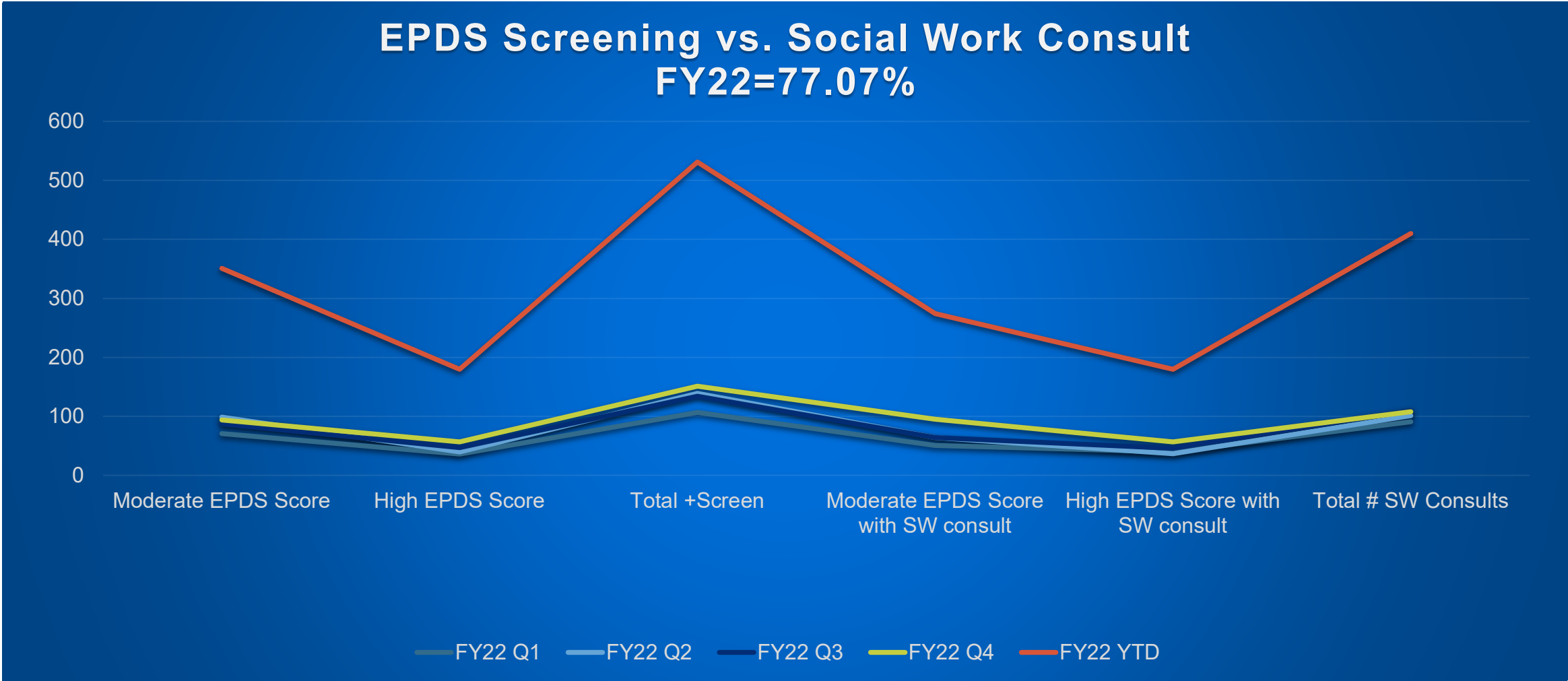
Risk Based on Race/Ethnicity: FY22



Risk Based on 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

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

Wrap Up & Next Steps

Sara Nelis, RN

Project Manager

Jewish Healthcare Foundation

QI Awards Reminder

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

Quarterly Learning Sessions

- December 14 830am to 1230pm via Zoom

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

