#### PA PQC September 14, 2021 Learning Collaborative: Peer to Peer Learning Handout

### **Maternal Mortality: Hypertension**

Site Name:	Key Interventions:	Our team would most like to learn	Key Contact:			
		from our peers:				
Allegheny	<ul> <li>Provide each antepartum/postpartum elevated</li> </ul>	What is the impact of patient self BP	Kay Edinger,			
Health Network-	BP/pre-eclamptic discharged patient with	monitoring on hypertension	Kim Amon,			
Saint Vincent	automated BP cuff DME to take, track BP's outside	management, reduction vs. increase	Kathy Vitale			
Hospital	of the hospital. (Target go live – October 1, 2021)	in readmissions - post-delivery?				
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Einstein Medical	• Education about HTN with every staff member (RN,	How are inpatient units tracking	Celina Migone, MD			
Center-	PCA, midwives, physician)	outpatient follow up?	G ,			
Montgomery	HTN medications made available in every med	<ul> <li>Best types of outpatient education?</li> </ul>				
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Beginning	<ul> <li>Cognitive aids posted in units (Triage, L&amp;D,</li> </ul>					
	mother/baby)					
	<ul> <li>Provided updated information on post-partum unit</li> </ul>					
	to every mother (AWHONN Save your life)					
	Educational handouts distributed in ED					
	UPCOMING: Skills based competencies will					
	continue in ED in the fall					
Evangelical	Our Severe Hypertension Protocol for Obstetric		Jen Sullivan RN, BSN			
Community	Patients is easily located on the Tools list in our					
Hospital	EMR.		Jennifer.Sullivan@evanhospital.com			
	<ul> <li>We also have a Severe Hypertension binder with</li> </ul>					
Sustaining	the protocol, antihypertensive medication					
5.5.5	algorithms, Severe HTN/ Preeclampsia order set,					
	and our hospital procedure for Severe HTN/					
	Preeclampsia.					
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Geisinger Ongoing	<ul> <li>AIM Bundle</li> <li>Implementing checklist for HTN Crisis</li> <li>Providing simulation &amp; drills for education</li> <li>Reviewing medication access</li> <li>Created order set to avoid unnecessary clinical variation</li> <li>Instituted home BP monitoring for patients with a diagnosis of CHTN, GHTN or Pre-Eclampsia/Eclampsia prenatally and postpartum (GHP patients only).</li> <li>Comprehensive reviews of each non-compliant case to understand our gaps in care and whether or not they are justified.</li> </ul>	<ul> <li>Do any hospitals utilize a nurse driven protocol, where the order is part of the admission orders, so that nurses can administer rescue medications without requiring provider sign off?</li> <li>How do hospitals leverage the emergency department so that they provide the same care to immediate postpartum women when they return to the ED with HTN crisis?</li> </ul>	Elissa Concini emconcini@geisinger.edu
Lehigh Valley Health Network- Pocono	<ul> <li>All providers and nursing staff were educated with a Hypertension Disorders in Pregnancy module through GNOSIS</li> <li>Clinical Practice Guidelines (CPG) related to perinatal hypertension reviewed with all OB providers and OB nursing staff with ED providers being educated in the near future</li> <li>Daily interdisciplinary team rounding with reference to CPG's on HTN patients</li> <li>Submitted a Grant proposal collaboratively with ESU to have the nursing students provide blood pressure equipment and education to hypertensive pregnant patients in their home. Patients will proactively self-monitor &amp; report blood pressures to OB office.</li> </ul>	Any suggestions would be appreciated	

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Moses Taylor Hospital Ongoing	<ul> <li>Development of a Hypertensive emergencies in OB- Severe Pre-eclampsia- Critical Event Checklist.</li> <li>Development of a Hypertensive emergencies in OB-Seizures/eclampsia- Critical Event Checklist.</li> <li>Development of a Hypertension Emergency card that can be worn with ID badges.</li> <li>Development of a Hypertensive Emergency competency which includes the appropriate way to obtain a blood pressure. Competency is completed yearly.</li> <li>Education to all ED staff and ICU staff on management of hypertension in the OB population.</li> <li>Departmental tabletop drills/ discussion concerning the management of patients with hypertension.</li> <li>Completion of a Blood Pressure/ Hypertensive Monitor to help with the identification of severe range blood pressures and time hypertensive medications were administered.</li> <li>Implementation of Perigen software to monitor and alarm with out-of-range EFM strips and maternal vital signs.</li> <li>Implementation of the AWHONN Post- Birth Warning Signs as discharge instructions for going home.</li> </ul>	<ul> <li>How everyone is able to get other department (ICU and ED) with treating severe range pressures of 160/110?</li> <li>Other possible educational avenues used for education on this topic.</li> <li>What other hospitals are doing for blood pressure management of postpartum patients after discharge?</li> </ul>	
Penn Medicine- Chester County Hospital	<ul> <li>Preeclampsia Pathway</li> <li>Hypertensive Management Pathway</li> <li>Postpartum Hypertension Pathway</li> <li>Adoption of Heart Safe Motherhood</li> </ul>	<ul> <li>How were you able to sustain improvements made with managing hypertensive disorders?</li> </ul>	

Site Name:	Key Interventions:	Our team would most like to learn from our peers:	Key Contact:
Penn Medicine- Lancaster General/Women and Babies Ongoing	<ul> <li>Identified physician and unit-based champions to participate in sub-committee of care management team         <ul> <li>Completed assessment of current state with champions and identified areas of opportunity to improve standardization and care.</li> <li>Established a target condition to further identify stakeholders and develop an action plan</li> </ul> </li> <li>Developed provider and nursing education – Jan 2021</li> <li>Updated order sets to assist with antihypertensive medication ordering – Jan 2021</li> <li>Refined EMR best practice alerts for preeclampsia to better target treatment of severe range hypertension – June 2021</li> <li>Established a method for reporting and determining baseline data         <ul> <li>Validated current preeclampsia pathway report provides correct information</li> </ul> </li> </ul>	We would like to hear from other hospitals who have leveraged their EMR to assist with identification and treatment of patients with severe range BP's.	Janay DiBerardino, Perinatal Safety Nurse, Janay.DiBerardino@pennmedicine.upenn.edu
Penn Medicine- Pennsylvania Hospital	<ul> <li>Facility wide standard protocol         <ul> <li>Checklists and escalation algorithms</li> <li>Interdisciplinary approach including all areas where pregnant patients receive care</li> </ul> </li> <li>Standard approach to educating prenatal and postpartum women:         <ul> <li>Evaluating options through Cipher Health or MyPennMedicine</li> <li>Including family in education across the continuum</li> </ul> </li> <li>Severe hypertension simulations:         <ul> <li>Incorporating hypertension drills into existing in-situ simulation program</li> </ul> </li> </ul>	<ul> <li>What strategies have you used to engage community members in quality improvement?</li> <li>We have fully integrated the Heart Safe Motherhood program into our care of patients with hypertension. What proactive approaches have others taken to educate women on hypertension before they are diagnosed?</li> </ul>	

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Penn State Health- Hershey Medical Center and Children's Hospital Ongoing	<ul> <li>Development of written evidence-based guidelines for management of acute hypertensive emergency in pregnant and postpartum patients (completed)</li> <li>ED, ICU, and WHU nursing staff education (completed/ongoing)</li> <li>Availability of guidelines in the electronic manual(s) and posted on the unit (completed)</li> <li>Development of a quick reference tool/checklist based on the written guidelines (completed)</li> <li>Placement of medications in Mediation Pyxis machines for quick and easy access (completed)</li> <li>OB Provider education distributed and tracked via an electronic education module (in progress)</li> <li>Provide education on hypertensive crisis in pregnancy and postpartum to providers in other related locations and specialties (ED, Anesthesia, Trauma, etc.) (in progress)</li> <li>Collaborative interdepartmental meeting(s) with WHU and ED to review treatment guidelines and specific clinical opportunities (in progress)</li> <li>Conduct team debriefs with team members caring for a patient with hypertensive emergency (coming soon)</li> <li>Complete case revies for patients who were not treated within 60 minutes, per the PA PQC measure. Disseminate key findings and improvement opportunities at the monthly WHU interdisciplinary forum (completed/ongoing)</li> <li>Conduct interdisciplinary simulations on hypertensive emergencies biannually or more</li> </ul>	How are you providing, and tracking education completed for providers outside of OB specialty?	
Punxsutawney	<ul><li>frequently (completed/ongoing)</li><li>Develop order sets for the ED for timely treatment</li></ul>	Best ways they have found to	
Hospital	<ul> <li>Develop order sets for the ED for timely treatment of Hypertensive pregnant/postpartum patients</li> <li>Education of ED staff/physicians on identifying &amp; treating Hypertensive pregnant/postpartum patient using ACOG &amp; AIM guidelines</li> </ul>	educate staff-online, in person in- services, combination?	
St. Clair Hospital	AIM Bundle	<ul><li>Data tracking tips.</li><li>Discussion/debrief with families</li></ul>	Shawndel Laughner

Site Name:	Key Interventions:	Our team would most like to learn from our peers:	Key Contact:
	<ul> <li>Unit-standard, stage-based, obstetric hemorrhage emergency management plan with checklists</li> <li>Quantification of blood loss</li> <li>Standards for early warning signs, diagnostic criteria, monitoring and treatment of severe preeclampsia/eclampsia (include order sets and algorithms)</li> <li>Establish a culture of huddles for high-risk patients and post-event debriefs to identify successes and opportunities</li> <li>Data collection started on triage patients seen for hypertension and review of those records to assess for timely treatment of Hypertension.</li> </ul>	HIS/EMR Support – tips on how other organizations-built tools to help collect data from the EMR	
St. Luke's University Health Network- Allentown and Bethlehem	<ul> <li>Implemented screening tool so all women 15-55 y.o. are screened to determine if they are currently/recently pregnant within the past 6 weeks</li> <li>ED RNs check off s/s on EPIC tool that will prompt the RN to facilitate more expedited follow up with an ED provider who will consider OB consult</li> </ul>	<ul> <li>Has any other network attempted to track this kind of screening in the ED?</li> <li>Success?</li> </ul>	
Tower Health- Reading Hospital	<ul> <li>HTN protocol in place by 7/1/20 (model after the California Quality Collaborative).</li> <li>AWHONN post birth warning signs education for staff &amp; for all post-partum patients prior to discharge.</li> </ul>	<ul> <li>Implementation strategies</li> <li>Strategies for standardization</li> <li>Patient and family education prenatally</li> <li>Feedback on our processes</li> </ul>	
UPMC Womens Health Service Line-Hamot Ongoing	<ul> <li>Collected pre-data that validated disparity</li> <li>Recognized an issue with blood pressure cuffs and need to measure arm and ensure appropriate cuff</li> <li>Creating badge buddy for nursing staff to display nurse-driven protocol and thresholds for action</li> <li>Excited for recent- PAPQC innovation award for UPMC Hamot and further efforts to reduce maternal morbidity and improve time to treatment</li> </ul>		Vivian Petticord Director, Women's Health Service Line pettvm@upmc.edu

UPMC Womens Health Service Line- Horizon Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing  Cometed pre-data that validated disparity Recognized an issue with blood pressure cuffs. And need to measure arm and ensure appropriate cuff Creating badge buddy for nursing staff to display nurse-driven protocol and thresholds for action UPMC Womens Health Service Line- Magee Ongoing Ongoin	Site Name:	Key Interventions:	Our team would most like to learn	Key Contact:
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# **Moving on Maternal Depression (MOMD)**

Site Name:	Key Interventions:	Our team would most like to learn from	Key Contact:
		our peers:	
Geisinger Medical Center Ongoing	<ul> <li>Increase prenatal screening rate</li> <li>Increase postpartum screening rate</li> <li>Examine all data by race/ethnicity         <ul> <li>Address any identified disparities</li> </ul> </li> <li>Improve tracking of follow-up to at-risk screens</li> <li>Improve tracking of metrics</li> <li>Consider screening on L&amp;D</li> </ul>	<ul> <li>NICU – what is the primary role of the person screening (e.g., nurse, psychologist, nursing assistant)? Is screening their full-time job?</li> <li>Peds – what do we do with the positive screen immediately? What are your plans/algorithm? What supports do you have in place at Pediatric clinics?         <ul> <li>How can Pediatricians be better trained to deal with mothers screening positive for PPD?</li> </ul> </li> </ul>	Karena Moran Research and Quality Project Manager Northeastern PA Perinatal Quality Collaborative kmoran3@thehealthplan.com
Lehigh Valley Hospital- Cedar Crest Beginning	<ul> <li>Plan to replace existing phq2/9 with a different screening tool</li> <li>Increase frequency of screening to 14, 24 and 36 weeks</li> <li>Education for Providers</li> <li>Education for Nurses</li> </ul>	<ul> <li>Overcoming lack of sufficient number of counselors, mental health providers</li> <li>Increasing provider's education re: other resources and counseling techniques</li> <li>Overcoming fear of treating mental health disorders</li> <li>Documentation help</li> </ul>	
*Lehigh Valley Hospital- Hazleton Beginning	<ul> <li>Plan to replace existing phq2/9 with a different screening tool</li> <li>Increase frequency of screening to 14, 24 and 36 weeks</li> <li>Education for Providers</li> <li>Education for Nurses</li> </ul>	<ul> <li>Overcoming lack of sufficient number of counselors, mental health providers</li> <li>Increasing provider's education re: other resources and counseling techniques</li> <li>Overcoming fear of treating mental health disorders</li> <li>Documentation help</li> </ul>	
*Lehigh Valley Hospital- Muhlenberg  Beginning	<ul> <li>Plan to replace existing phq2/9 with a different screening tool</li> <li>Increase frequency of screening to 14, 24 and 36 weeks</li> <li>Education for Providers</li> <li>Education for Nurses</li> </ul>	<ul> <li>Overcoming lack of sufficient number of counselors, mental health providers</li> <li>Increasing provider's education re: other resources and counseling techniques</li> </ul>	

		Overcoming fear of treating mental	
		health disorders	
		Documentation help	
*Lehigh Valley	Plan to replace existing phq2/9 with a different	<ul> <li>Overcoming lack of sufficient</li> </ul>	
Hospital-	screening tool	number of counselors, mental	
Pocono	<ul> <li>Increase frequency of screening to 14, 24 and 36</li> </ul>	health providers	
	weeks	<ul> <li>Increasing provider's education re:</li> </ul>	
Beginning	Education for Providers	other resources and counseling	
	Education for Nurses	techniques	
		<ul> <li>Overcoming fear of treating mental</li> </ul>	
		health disorders	
		Documentation help	
*Lehigh Valley	Plan to replace existing phq2/9 with a different	Overcoming lack of sufficient	
Hospital-	screening tool	number of counselors, mental	
Schuylkill	<ul> <li>Increase frequency of screening to 14, 24 and 36</li> </ul>	health providers	
	weeks	<ul> <li>Increasing provider's education re:</li> </ul>	
Beginning	Education for Providers	other resources and counseling	
	Education for Nurses	techniques	
		<ul> <li>Overcoming fear of treating mental</li> </ul>	
		health disorders	
		Documentation help	
Penn Medicine-	<ul> <li>Assess need and develop processes for EPDS.</li> </ul>	<ul> <li>Identifying internal resources based</li> </ul>	
Hospital of the	Identify stakeholders.	on Race/Ethnicity	
University of	Build multidiscipline team.	<ul> <li>Process formation and</li> </ul>	
Pennsylvania	Assess obstacles.	implementation	
	Implement EPDS at HUP.	<ul> <li>Identifying community resources</li> </ul>	
Ongoing	Reassess obstacles.	<ul> <li>Identify other metric points to</li> </ul>	
	Collect and review metrics.	gather: zip code, practice, etc.	
		<ul> <li>Assessing anxiety</li> </ul>	
		screening/limitations from other	
		sites	
		Patient and Staff Obstacles	
St. Clair	To date we hold a Postpartum support group for	Data collection tactics	Shawndel Laughner
Hospital	women with perinatal mood changes.	Screening tools used	
	Reach out to OB offices – assess the screening tool	Postpartum follow up	
Beginning	Look at the in-hospital screening tool	Community resources used	
	Plan QI project		
	Addressing depression using the PHQ-2 tool in		
	triage for all patients.		

	PHQ-2 approved and added to the triage pack of consents.			
*St. Luke's University Health Network- Allentown and Bethlehem	<ul> <li>Patient education video developed by internal medical staff (residents)</li> <li>Ed. video built to be delivered to patients via MyChart Bedside on educational iPads used to distribute inpatient patient ed.</li> <li>Edinburgh Depression Screening loaded on to patient iPads to allow for self-reporting (decrease chance of bias)</li> <li>Patient received notification if any of their answers would require further evaluation by care team</li> </ul>	•	Process at other facilities to ensure no delay of discharge	
Temple University Hospital Beginning	<ul> <li>Educating nursing staff on post partum depression, provide education for patients during discharge (resources, referrals)</li> <li>Screening in the third trimester on a subpopulation</li> <li>Standardized resources for the Health System</li> <li>Community listening sessions</li> <li>Piloting transition of care clinic for with BP issues</li> </ul>	•	How do we get patients to come in for prenatal and postpartum care? How do we improves access to mental health treatment? How do you follow a patient that screens high for maternal depression?	Temple University Hospital
UPMC Womens Health Service Line- Magee Beginning	<ul> <li>New workgroup across UPMC: UPMC Health Equity NOW- May 2021</li> <li>Our Three Areas of Focus:         <ul> <li>People- focusing on the patient, morbidity and mortality data, and health outcomes</li> <li>Processes- examining the day-to-day practices on our L&amp;D units to improve safety for pregnant women</li> <li>Policy- promoting legislation that supports overall health and wellbeing of pregnant patients</li> </ul> </li> </ul>	•	Interested to know other ways to connect with community that are beneficial How to build trust with community?	Vivian Petticord Director, Women's Health Service Line pettvm@upmc.edu
WellSpan Health Ongoing	<ul> <li>We are essentially following all of the MOMD steps.</li> <li>Ensuring system wide follow up for women with increased scores-increasing access to resources system wide</li> <li>Have postpartum case manager who will call all women who score high at discharge. She is also available for referral in the prenatal and postpartum setting.</li> </ul>	•	Implications for documentation in the maternal record, how to start community conversations to address this topic.	

Embedding alerts and improved documentation into the EHR-BPA to fire with high EPDS scores	
<ul> <li>Required documentation on discharge summary of any patient with an increased EPDS score.</li> </ul>	
<ul> <li>Increasing patient education in Babyscripts on mental health—including Spanish materials</li> </ul>	
Working on developing process to screen for PPD in NICU (completed)	
<ul> <li>Screening in the PEDS/Family practice visit—BPA created</li> </ul>	
<ul> <li>Creating a data dashboard to track system wide screening and follow up (completed)</li> </ul>	

### **Immediate Postpartum Long-Acting Reversible Contraception (IP LARC)**

Site Name:	Key Interventions:	Our team would most like to learn	Key Contact:
		from our peers:	
Geisinger Medical Center (GMC) Sustaining	<ul> <li>(Re)educate providers and nurses on IUD insertion immediately postpartum.</li> <li>Clarify billing, coding, and reimbursement processes.</li> <li>Clarify patient eligibility for reimbursement outside of the DRG.</li> <li>Improve device access on L&amp;D (storage).</li> <li>Assess patient desire for IP LARC.</li> <li>Monitor and address expulsion rates (as applicable).</li> </ul>	Are you using verbal or written consent for IPLARC placement?	Karena Moran Research and Quality Project Manager Northeastern PA Perinatal Quality Collaborative kmoran3@thehealthplan.com
Geisinger Wyoming Valley (GMV) Ongoing	<ul> <li>(Re)educate providers and nurses on IUD insertion immediately postpartum.</li> <li>Clarify billing, coding, and reimbursement processes.</li> <li>Clarify patient eligibility for reimbursement outside of the DRG.</li> <li>Improve device access on L&amp;D (storage).</li> <li>Assess patient desire for IP LARC.</li> <li>Monitor and address expulsion rates (as applicable).</li> </ul>	Are you using verbal or written consent for IPLARC placement?	Karena Moran Research and Quality Project Manager Northeastern PA Perinatal Quality Collaborative kmoran3@thehealthplan.com

Site Name:	Key Interventions:	Our team would most like to learn from our peers:	Key Contact:
Geisinger Lewistown Hospital (GLH) Beginning	<ul> <li>(Re)educate providers and nurses on IUD insertion immediately postpartum.</li> <li>Clarify billing, coding, and reimbursement processes.</li> <li>Clarify patient eligibility for reimbursement outside of the DRG.</li> <li>Improve device access on L&amp;D (storage).</li> <li>Assess patient desire for IP LARC.</li> <li>Monitor and address expulsion rates (as applicable).</li> </ul>	Are you using verbal or written consent for IPLARC placement?	Karena Moran Research and Quality Project Manager Northeastern PA Perinatal Quality Collaborative kmoran3@thehealthplan.com
Main Line Health, Lankenau Medical Center Ongoing	<ul> <li>"Desires IPLARC" has been implemented as a field in the EMR</li> <li>Education for providers, residents, and staff about offering and documenting LARC desire and LARC placement – supply, role, etc.</li> <li>Prenatal patients are educated about pros/cons of IPLARC, and determination of interest is obtained</li> <li>Prenatal patients are educated about pros/cons of IPLARC, and determination of interest is obtained</li> <li>Prenatal counseling</li> <li>Video on display in clinic</li> <li>Patient education materials and information sheets being distributed</li> </ul>	<ul> <li>Collecting Data on Counseled, Desired, Placed</li> <li>EPIC Pregnancy Checklist Measure initiated at Prenatal Encounter</li> <li>Report Generated Monthly</li> <li>Counseled?</li> <li>Plan (specific type of contraception desired)</li> <li>Postpartum follow-up by Chart Review</li> <li>Monthly Chart Review</li> <li>LARC Placed (Type)?</li> <li>Postpartum follow-up (7-10 days, 3 month)</li> <li>Occurred?</li> <li>Continuation of LARC/alternative?</li> </ul>	Main Line Health PP LARC Interdisciplinary Team
St. Clair Hospital Beginning	<ul> <li>To date we formed a team:         <ul> <li>Key physician lead</li> <li>Pharmacy contact</li> <li>Social Work/Case Management</li> <li>Clinical Integration Specialist</li> <li>Director W&amp;C Services</li> </ul> </li> <li>Develop the supporting structure, processes, team roles, and skills to offer contraceptive counseling and access, including IPLARC</li> </ul>	<ul> <li>How you were able to implement the structures and processes to routinely counsel, offer, and provide IPLARC?</li> <li>Did you meet any resistance on offering IPLAC in the hospital setting?</li> <li>Did you find a large need/desire from patients for IPLARC?</li> </ul>	Shawndel Laughner

Site Name:	Key Interventions:	Our team would most like to learn from our peers:	Key Contact:
St. Luke's University Hospital- Anderson campus Sustaining	Use EMR to identify patients who desire and receive IPLARC	<ul> <li>Methods for tracking which patients desire IPLARC to more accurately follow PA PQC metrics</li> <li>How to overcome insurance barriers to make IPLARC available for all patients</li> </ul>	Danielle Johnson, DO  Danielle.johnson@sluhn.org
St. Luke's University Hospital- Allentown campus	Use EMR to identify patients who desire and receive IPLARC	<ul> <li>Methods for tracking which patients desire IPLARC to more accurately follow PA PQC metrics</li> <li>How to overcome insurance barriers to make IPLARC available for all patients</li> </ul>	Danielle Johnson, DO  Danielle.johnson@sluhn.org

Site Name:	Key Interventions:	Our team would most like to learn	Key Contact:
		from our peers:	
UPMC	Ensure IT systems are modified to document	<ul> <li>This is a difficult project to</li> </ul>	Vivian Petticord Director, Women's Health
Womens	acquisition, stocking, ordering, placement,	implement. The training is still	Service Line
Health Service	counseling, consent, billing, and reimbursement for	remote for providers and not in-	
Line-Altoona	IPLARC.	person related to on-going	pettvm@upmc.edu
	Ensure all patients receive contraceptive information	pandemic.	
Beginning	prenatally- including the option to receive IPLARC.	<ul> <li>Billing and reimbursement for cost</li> </ul>	
	<ul> <li>Modify L&amp;D, OB OR, postpartum workflows to</li> </ul>	of device and insertion remains	
	identify and have devices available for pts desiring	challenging	
	LARC. Store LARC devices for easy access in a timely		
	manner.		
	Educate clinicians, community partners and		
	nurses on informed consent and shared decision		
	making.		
	Involve pharmacy for obtaining the device &		
	distribution to ensure timely placement.		
	Assure billing codes are in place and that staff in all  passesses departments are adjusted an aggreet.		
	necessary departments are educated on correct billing procedures- device and procedure costs.		
	<ul> <li>Participate in hands-on training of IPLARC insertion.</li> </ul>		
	Shared UPMC consent processes for IPLARC to		
	customize for each hospital.		
	Educate providers, nurses, lactation consultants,		
	social workers about clinical recommendations		
	related to IPLARC placement and breastfeeding.		
	Assure all patients receive comprehensive		
	contraceptive counseling prior to discharge.		

Site Name:	Key Interventions:	Our team would most like to learn	Key Contact:
		from our peers:	
UPMC Womens Health Service Line-Hamot Beginning	<ul> <li>Ensure IT systems are modified to document acquisition, stocking, ordering, placement, counseling, consent, billing and reimbursement for IPLARC.</li> <li>Ensure all patients receive contraceptive information prenatally- including the option to receive IPLARC.</li> <li>Modify L&amp;D, OB OR, postpartum workflows to identify and have devices available for pts desiring</li> </ul>	<ul> <li>This is a difficult project to implement. The training is still remote for providers and not inperson related to on-going pandemic.</li> <li>Billing and reimbursement for cost of device and insertion remains challenging</li> </ul>	Vivian Petticord Director, Women's Health Service Line pettvm@upmc.edu
	<ul> <li>LARC. Store LARC devices for easy access in a timely manner.</li> <li>Educate clinicians, community partners and nurses on informed consent and shared decision making.</li> </ul>		
	<ul> <li>Involve pharmacy for obtaining the device &amp; distribution to ensure timely placement.</li> </ul>		
	<ul> <li>Assure billing codes are in place and that staff in all necessary departments are educated on correct billing procedures- device and procedure costs.</li> </ul>		
	<ul> <li>Participate in hands-on training of IPLARC insertion.</li> </ul>		
	Shared UPMC consent processes for IPLARC to customize for each hospital.		
	<ul> <li>Educate providers, nurses, lactation consultants, social workers about clinical recommendations related to IPLARC placement and breastfeeding.</li> <li>Assure all patients receive comprehensive contraceptive counseling prior to discharge.</li> </ul>		
UPMC	Ensure IT systems are modified to document	This is a difficult project to	Vivian Petticord Director, Women's Health
Womens	acquisition, stocking, ordering, placement,	implement. The training is still	Service Line
Health Service	counseling, consent, billing, and reimbursement for	remote for providers and not in-	
Line-	IPLARC.	person related to on-going	pettvm@upmc.edu
Harrisburg	<ul> <li>Ensure all patients receive contraceptive information prenatally- including the option to receive IPLARC.</li> </ul>	pandemic.  Billing and reimbursement for cost	
Beginning	<ul> <li>Modify L&amp;D, OB OR, postpartum workflows to identify and have devices available for pts desiring LARC. Store LARC devices for easy access in a timely manner.</li> </ul>	of device and insertion remains challenging	

Site Name:	Key Interventions:	Our team would most like to learn	Key Contact:
		from our peers:	
	<ul> <li>Educate clinicians, community partners and nurses on informed consent and shared decision making.</li> <li>Involve pharmacy for obtaining the device &amp; distribution to ensure timely placement.</li> <li>Assure billing codes are in place and that staff in all necessary departments are educated on correct billing procedures- device and procedure costs.</li> <li>Participate in hands-on training of IPLARC insertion.</li> <li>Shared UPMC consent processes for IPLARC to customize for each hospital.</li> <li>Educate providers, nurses, lactation consultants, social workers about clinical recommendations related to IPLARC placement and breastfeeding.</li> <li>Assure all patients receive comprehensive contraceptive counseling prior to discharge.</li> </ul>		

Site Name:	Key Interventions:	Our team would most like to learn	Key Contact:
		from our peers:	
UPMC Womens Health Service Line- Horizon Sustaining	<ul> <li>Ensure IT systems are modified to document acquisition, stocking, ordering, placement, counseling, consent, billing, and reimbursement for IPLARC.</li> <li>Notify prenatal offices about IPLARC. Assure patient receives comprehensive contraceptive counseling prenatally.</li> <li>Modify L&amp;D, OB OR, postpartum workflows to identify and have devices available for pts desiring LARC. Store LARC devices for easy access in a timely manner.         <ul> <li>Educate clinicians, community partners and nurses on informed consent and shared decision making.</li> </ul> </li> <li>Involve pharmacy for obtaining the device &amp; distribution to ensure timely placement.</li> <li>Assure billing codes are in place and that staff in all necessary departments are educated on correct billing procedures- device and procedure costs.</li> <li>Participate in hands-on training of IPLARC insertion.</li> <li>Shared UPMC consent processes for IPLARC to customize for each hospital.</li> <li>Educate providers, nurses, lactation consultants, social workers about clinical recommendations related to IPLARC placement and breastfeeding.</li> <li>Connect with providers and staff at prenatal care sites to ensure they are aware the hospital is providing IPLARC and that education materials are available.</li> <li>Assure patient receives comprehensive contraceptive</li> </ul>	<ul> <li>This is a difficult project to implement. The training is still remote for providers and not inperson related to on-going pandemic.</li> <li>Billing and reimbursement for cost of device and insertion remains challenging</li> </ul>	Vivian Petticord Director, Women's Health Service Line pettvm@upmc.edu
	counseling prior to discharge.		
UPMC Womens Health Service Line- Williamsport  Beginning	<ul> <li>Ensure IT systems are modified to document acquisition, stocking, ordering, placement, counseling, consent, billing, and reimbursement for IPLARC.</li> <li>Notify prenatal offices about IPLARC. Assure patient receives comprehensive contraceptive counseling prenatally.</li> </ul>	<ul> <li>This is a difficult project to implement. The training is still remote for providers and not inperson related to on-going pandemic.</li> <li>Billing and reimbursement for cost of device and insertion remains</li> </ul>	Vivian Petticord Director, Women's Health Service Line pettvm@upmc.edu

<ul> <li>Modify L&amp;D, OB OR, postpartum workflows to identify and have devices available for pts desiring LARC. Store LARC devices for easy access in a timely manner.</li> </ul>	from our peers:	
identify and have devices available for pts desiring LARC. Store LARC devices for easy access in a timely manner.		
<ul> <li>Educate clinicians, community partners and nurses on informed consent and shared decision making.</li> <li>Involve pharmacy for obtaining the device &amp; distribution to ensure timely placement.</li> <li>Assure billing codes are in place and that staff in all necessary departments are educated on correct billing procedures- device and procedure costs.</li> <li>Participate in hands-on training of IPLARC insertion.</li> <li>Shared UPMC consent processes for IPLARC to customize for each hospital.</li> <li>Educate providers, nurses, lactation consultants, social workers about clinical recommendations related to IPLARC placement and breastfeeding.</li> <li>Connect with providers and staff at prenatal care sites to ensure they are aware the hospital is providing IPLARC and that education materials are available.</li> <li>Assure patient receives comprehensive contraceptive</li> </ul>		
<ul> <li>Assess baseline data on the provision of PPTL</li> <li>Assessing data on cost of Nexplanon and insurance coverage</li> </ul>	<ul> <li>How to handle lack of insurance coverage outside of Medicaid payors?</li> </ul>	
<ul> <li>Approved system wide nursing policy on IPLARC</li> <li>Working with pharmacy to ensure IPLARC is available at each facility.</li> </ul>		
<ul> <li>Meetings occurring at each 3 entities (Gettysburg, Ephrata, and Chambersburg) to move forward initiative</li> </ul>		
	<ul> <li>distribution to ensure timely placement.</li> <li>Assure billing codes are in place and that staff in all necessary departments are educated on correct billing procedures- device and procedure costs.</li> <li>Participate in hands-on training of IPLARC insertion.</li> <li>Shared UPMC consent processes for IPLARC to customize for each hospital.</li> <li>Educate providers, nurses, lactation consultants, social workers about clinical recommendations related to IPLARC placement and breastfeeding.</li> <li>Connect with providers and staff at prenatal care sites to ensure they are aware the hospital is providing IPLARC and that education materials are available.</li> <li>Assure patient receives comprehensive contraceptive counseling prior to discharge.</li> <li>Assess baseline data on the provision of PPTL</li> <li>Assessing data on cost of Nexplanon and insurance coverage</li> <li>Approved system wide nursing policy on IPLARC</li> <li>Working with pharmacy to ensure IPLARC is available at each facility.</li> <li>Meetings occurring at each 3 entities (Gettysburg, Ephrata, and Chambersburg) to move forward</li> </ul>	distribution to ensure timely placement.  Assure billing codes are in place and that staff in all necessary departments are educated on correct billing procedures- device and procedure costs.  Participate in hands-on training of IPLARC insertion.  Shared UPMC consent processes for IPLARC to customize for each hospital.  Educate providers, nurses, lactation consultants, social workers about clinical recommendations related to IPLARC placement and breastfeeding.  Connect with providers and staff at prenatal care sites to ensure they are aware the hospital is providing IPLARC and that education materials are available.  Assure patient receives comprehensive contraceptive counseling prior to discharge.  Assess baseline data on the provision of PPTL  Assessing data on cost of Nexplanon and insurance coverage  Approved system wide nursing policy on IPLARC  Working with pharmacy to ensure IPLARC is available at each facility.  Meetings occurring at each 3 entities (Gettysburg, Ephrata, and Chambersburg) to move forward initiative

#### **Maternal OUD**

Site Name:	Key Interventions:	Our team would most like to learn	Key Contact:
		from our peers:	
Allegheny Health Network- Forbes Hospital	<ul> <li>Have OB offices send list of patients who have positive screen.</li> <li>Social work able to initiate plan before patient even arrives for delivery.</li> <li>Social work to reach out to other facilities to see how they are working through this.</li> </ul>	Make sure women are being appropriately screened and have resources in place prior to discharge.	
Allegheny Health Network- Jefferson Hospital	<ul> <li>We provided staff-wide education on SUD/OUD as well as use of the 5P screening tool.</li> <li>We began screening all pregnant people for OUD/SUD in the outpatient setting.</li> <li>We refer appropriate patients to our Perinatal Hope Program and/or a social worker to more fully identify their needs and make a plan for the remainder of their pregnancy care.</li> <li>We educated our inpatient staff and started using the 5P screen inpatient on any patient without a previous outpatient screen.</li> </ul>	Their facility's urine drug testing and sending of cord stats in relation to implementation of a 5P screen.	
Allegheny Health Network- Saint Vincent Hospital	<ul> <li>Staff Education</li> <li>Provider documentation education completed; Laminated tip sheets located at provider PC's</li> <li>Incorporate information on SVH Growing Hope program and community support available for addicted moms-to-be         <ul> <li>Utilization of NAS informational booklet – implemented, access in provider offices and community locations.</li> <li>Distribution of community agency support listing – still in process</li> <li>Re-education of ED staff for referral process</li> </ul> </li> </ul>	<ul> <li>Are chart audits completed randomly to ensure coding accuracy, identification of opportunities to correct coding and ensure documentation reflects accurate patient picture/level of acuity?</li> <li>How do you work with Independent Provider Groups?</li> </ul>	Lani Erdman, Kay Edinger, Kim Amon, Erika Pluta, Kathy Vitale
Conemaugh Memorial Medical Center	<ul> <li>Solidifying reporting process used to capture women screened for SUD and OUD.</li> <li>Identification of standardized and universal screening tool.</li> <li>Implementation of screening tool across all practices.</li> </ul>	Successes and challenges encountered from other obstetric practices in implementing universal screening tool.	

Site Name:	Key Interventions:	Our team would most like to learn	Key Contact:
		from our peers:	
Einstein Medical Center Philadelphia	<ul> <li>No workflow in current state         <ul> <li>Solution- work with current MAT program pilot to determine how to perform out-patient screening for OUD</li> </ul> </li> <li>Need standardized screening tool         <ul> <li>Solution- choose tool from ones presented at PA PQC and work with MAT program pilot leaders to coordinate efforts</li> </ul> </li> <li>Change in workflow for providers and MA staff         <ul> <li>Solution- develop educational plan for provider and MA staff</li> </ul> </li> <li>Lack of provider resources for SBIRT         <ul> <li>Solution- develop multi-disciplinary team to determine utilization of resources</li> </ul> </li> </ul>		
Evangelical	Positive screening initiates a plan of care by an	Once the patient fills out the screening	Jen Sullivan RN, BSN
Community Hospital Beginning	obstetrical provider and consult with Care Management as needed.	tool, whatever that may be for your hospital, is it transcribed in to the EMR or do you send it down with their chart to medical records in paper form?	Jennifer.Sullivan@evanhospital.com
Geisinger Bloomsburg Ongoing	<ul> <li>Implementing universal SUD screening in L&amp;D and Outpatient</li> <li>Implementing a clinical pathway for at-risk screens</li> <li>Re-educating on existing protocol for when to obtain a urine drug test</li> </ul>	<ul> <li>Process for when patient refuses to complete screening tool.</li> <li>Or mother refuses to give urine sample?</li> <li>How to implement and track universal screening and adherence to algorithm in outpatient prenatal clinics?</li> </ul>	Karena Moran Research and Quality Project Manager Northeastern PA Perinatal Quality Collaborative kmoran3@thehealthplan.com
Geisinger Community Medical Center Ongoing	<ul> <li>Implementing universal SUD screening in L&amp;D and Outpatient</li> <li>Implementing a clinical pathway for at-risk screens</li> <li>Re-educating on existing protocol for when to obtain a urine drug test</li> </ul>	<ul> <li>Process for when patient refuses to complete screening tool.</li> <li>Or mother refuses to give urine sample?</li> <li>How to implement and track universal screening and adherence to algorithm in outpatient prenatal clinics?</li> </ul>	Karena Moran Research and Quality Project Manager Northeastern PA Perinatal Quality Collaborative kmoran3@thehealthplan.com

Site Name:	Key Interventions:	Our team would most like to learn from our peers:	Key Contact:
Geisinger Lewistown Ongoing	<ul> <li>Implementing universal SUD screening in L&amp;D and Outpatient</li> <li>Implementing a clinical pathway for at-risk positive screens</li> <li>Re-educating on existing protocol for when to obtain a urine drug test</li> </ul>	<ul> <li>Process for when patient refuses to complete screening tool.</li> <li>Or mother refuses to give urine sample?</li> <li>How to implement and track universal screening and adherence to algorithm in outpatient prenatal clinics?</li> </ul>	Karena Moran Research and Quality Project Manager Northeastern PA Perinatal Quality Collaborative kmoran3@thehealthplan.com
Geisinger Medical Center	<ul> <li>Implementing universal SUD screening in L&amp;D and Outpatient</li> <li>Implementing a clinical pathway for at-risk positive screens</li> </ul>	<ul> <li>Process for when patient refuses to complete screening tool.</li> <li>Or mother refuses to give urine sample?</li> </ul>	Karena Moran Research and Quality Project Manager Northeastern PA Perinatal Quality Collaborative
Beginning	Re-educating on existing protocol for when to obtain a urine drug test	<ul> <li>How to implement and track universal screening and adherence to algorithm in outpatient prenatal clinics?</li> </ul>	kmoran3@thehealthplan.com
Geisinger Wyoming Valley Ongoing	<ul> <li>Implementing universal SUD screening in L&amp;D and Outpatient</li> <li>Implementing a clinical pathway for positive screens</li> <li>Re-educating on protocol for when to obtain a urine drug test</li> </ul>	<ul> <li>Process for when patient refuses to complete screening tool.</li> <li>Or mother refuses to give urine sample?</li> <li>How to implement and track universal screening and adherence to algorithm in outpatient prenatal clinics?</li> </ul>	Karena Moran Research and Quality Project Manager Northeastern PA Perinatal Quality Collaborative kmoran3@thehealthplan.com
Guthrie Packer Hospital	<ul> <li>Finding a validated screening tool- chose 4P's tool</li> <li>Educating staff and training on chosen tool</li> <li>Implement screening of all pregnant women at least once during prenatal care (to start)</li> </ul>	<ul> <li>Suggestions on how to gather data from Epic efficiently</li> <li>Any trouble shooting or suggestions on how to use/implement the screening tool (4P's)?</li> </ul>	

Site Name:	Key Interventions:	Our team would most like to learn	Key Contact:
Holy Redeemer Health Beginning	<ul> <li>Training on 5Ps completed with providers and staff.         <ul> <li>5 offices plus inpatient side fully trained and are implementing SUD screening with the 5Ps.</li> </ul> </li> <li>Resources provided to offices for insurance carrier contacts and COEs particularly.</li> <li>5Ps form translated into Spanish, Uzbek and Russian also to serve the communities in the area.</li> <li>Reports built in EMR to capture validated screenings</li> </ul>	How are referrals followed up on?     Does the office follow up, if so what is the process, challenges, outcomes?	Julie Greenfield , Director of Nursing, OB-GYN Acute and Ambulatory Alliance jgreenfield@holyredeemer.com
Jefferson Health- Abington Hospital Sustaining	<ul> <li>completed, and referrals made.</li> <li>Implementation of Universal Screening with 5Ps tool at first prenatal visit and all triage and inpatient admissions to L &amp; D</li> <li>Transitioned to 5Ps in Epic at 2/27 go-live. Continuing to explore options for patient-generated data for screening.</li> <li>Working with data team to enable reporting on ambulatory screening and follow-up/treatment data after Epic transition. This data will help to measure impact of screening and drive improvement efforts.</li> </ul>		Susan Utterback, DNP, MSIT, RN-BC, Nursing Systems Coordinator, susan.Utterback@Jefferson.edu
Lehigh Valley Health Network- Pocono	<ul> <li>Educate all Prenatal Care Providers on the 4P's scripting</li> <li>Educating on the referral process to the LSW</li> <li>Provide educational materials to pregnant women with OUD</li> </ul>		
Main Line Health Sustaining	<ul> <li>Social Work Evaluation of Outpatient Resources         Across 4 Hospitals &amp; 4 Geographic Counties: Goal to         Optimize &amp; Standardize</li> <li>Develop Clinical and Psychosocial Pathways for         OUD/SUD &amp; NAS</li> <li>Coordinate early consultation with Neonatology to         optimize therapies &amp; care plan</li> </ul>	<ul> <li>Best Practices for OUD/NAS         Pathways     </li> <li>Outpatient Resource Referrals</li> <li>Overcoming Epic Documentation         Challenges (Problem List)     </li> </ul>	Main Line Health OUD/SUD Interdisciplinary Team

Site Name:	Key Interventions:	Our team would most like to learn from our peers:	Key Contact:
Moses Taylor Hospital Ongoing	<ul> <li>Initiated the use of the 5 P screening tool in both Labor and Delivery at MTH and Prenatal offices.</li> <li>Standardized LOS for newborns born to mothers born to with OUD.</li> <li>Utilize the Pediatric Department to encourage bonding during increased newborn LOS.</li> </ul>	Other tools hospitals have developed to help with patient educations.	
Penn Medicine- Chester County Hospital	<ul> <li>Completed process mapping, gap analysis, Affinity Diagram, &amp; brainstorming</li> <li>Established working groups:         <ul> <li>Development of staff and patient education program</li> <li>Implementation of Eat, Sleep, Console</li> <li>Establishment of 5P's in inpatient and outpatient settings</li> </ul> </li> </ul>	How to partner with residential programs to help mothers spend time with their infants when admitted for NAS.	
Penn Medicine- Hospital of the University of Pennsylvania	<ul> <li>Create standardized workflow for SUD/OUD screening and education</li> <li>Screen all pregnant patients for SUD/OUD using a validated screening tool</li> <li>Map local SUD/OUD treatment options that provide MAT and women-centered care including local resources that support recovery</li> </ul>	How do you approach negative 5p screen but positive PDMP results?	

Site Name:	Key Interventions:	Our team would most like to learn from our peers:	Key Contact:
Penn State Health- Hershey Medical Center & Children's Hospital	<ul> <li>Gain consensus &amp; approval on a validated screening tool to screen all pregnant women for substance use-Done</li> <li>Draft a paper patient-friendly form to screen patients at the time of the first prenatal appointment- Done</li> <li>Develop workflow to identify: who will respond to patients who screened positive; who will refer patients to treatment; and to whom can we refer our patients- Done</li> <li>Draft Substance Use Treatment Referral Reference List- Done</li> <li>Provide unbiased non-judgmental, trauma-informed care:         <ul> <li>Complete baseline attitudes measurement staff survey- Done</li> <li>Provide education/intervention- Done</li> <li>Complete reassessment through the attitudes measurement staff survey</li> </ul> </li> <li>Complete staff education regarding:         <ul> <li>The 5Ps tool and screening rationale- Done</li> <li>The 5Ps screening process and SBIRT- Done</li> </ul> </li> <li>Spread to other practice sites within the health system- In progress</li> </ul>	<ul> <li>How do you collect and track data on prenatal outpatient screenings and MAT initiation and continuity?</li> <li>How do you track patients with a positive OUD diagnosis? (is it in your EMR? Do you run reports based on diagnosis codes?)</li> <li>What education was most beneficial for your providers? (specific SBIRT training?)</li> </ul>	
Penn State Health- Holy Spirit Medical Center Ongoing	<ul> <li>Implementing universal SUD screening: L&amp;D,         Outpatient</li> <li>Implementing a clinical pathway for positive screens</li> <li>Re-educating on protocol for when to obtain a urine drug test</li> </ul>	<ul> <li>Process for when patient refuses to complete screening tool.</li> <li>Or mother refuses to give urine sample?</li> <li>How to implement and track universal screening and adherence to algorithm in outpatient prenatal clinics?</li> </ul>	

Site Name:	Key Interventions:	Our team would most like to learn from our peers:	Key Contact:
St. Clair Hospital	<ul> <li>We began using the 5Ps tool for outpatient prenatal visits and inpatient admissions to our hospital in June 2019.</li> <li>We coordinated with the affiliated OB offices for them to utilize this tool for screening their pregnant</li> </ul>	<ul> <li>Growing the role of our newly created perinatal social worker position.</li> </ul>	Shawndel Laughner
oustammig	patients in the office setting, starting with the 1st prenatal visit and then again in the 2nd and 3rd trimester.  • We provided the OB offices with referral forms to be		
	faxed to our Level 2 Nursery Coordinator for follow- up care. When our nursery coordinator receives a referral, she reaches out to the family to discuss the care they can expect when they arrive for their delivery.		
	<ul> <li>We educated inpatient nursing staff on 5Ps screening tool and implemented it to be utilized on all patients admitted.</li> </ul>		
Tower Health- Reading Hospital	<ul> <li>Clinical pathway for pregnant women with OUD</li> <li>Screening for SUD</li> <li>Hospital observation for MAT induction, methadone and buprenorphine offered</li> <li>Connection with methadone program in county.</li> <li>Suboxone maintenance program at Women's Health Center for pregnant women with OUD.</li> <li>Intensive case management with the COE, drug &amp; alcohol treatment, social services, prenatal development of Plan of Safe Care, connection with Early Intervention, prenatal</li> </ul>		

Site Name:	Key Interventions:	Our team would most like to learn from our peers:	Key Contact:
UPMC Womens Health Service Line	Access:  Maternal medical support to prevent withdrawal during pregnancy On call service for all UPMC hospitals 24/7 Provide regular prenatal and other medical appointments 4 Outreach Community Centers Same day on next day within 24-hour appointments  Prevention: Community education Obstetrical provider education Minimize fetal exposure to Opioid substances Early engage mother as a leader in her recovery Narcan "to go"  Response: Pregnancy Recovery Center (Prenatal & Postpartum) UPMC Healthplan engagement Support programs for patients, families, staff Multidisciplinary team OB, MFM, SW, Nurses, Mental Health therapists Methadone Conversion to buprenorphine from inpatient to outpatient. Outpatient buprenorphine medication treatment Warm hand overs ED Physician and APP trained in buprenorphine treatment Reporting: Centers of Excellence State, Allegheny County, UPMC Healthplan Report as appropriate to various committees	Thoughts on the regulatory hurdles for medication assisted treatment can we as a group impact? Post-Partum pain management  Post-Partum pain management	
Wayne Memorial Hospital Ongoing	<ul> <li>Monitor screening rate monthly and report out at OB and PI committees.</li> <li>Monitor the follow up and referrals to MAT</li> <li>Monitor patients that started MAT</li> </ul>	<ul> <li>Screening and UDS still are not capturing all the substances that patients are using. Are there new drug panels out there that can detect all or most substances?</li> <li>We have since met with the Lab director and we are adding more drugs to the UDS.</li> </ul>	Janice Pettinato pettinatoj@wmh.org  Mary Beth Dastalfo dastalfom@wmh.org

#### **Neonatal Abstinence Syndrome (NAS)**

Site Name:	Key Interventions:	Our team would most like to learn	Key Contact:
Allegheny Health Network- Jefferson Hospital	<ul> <li>We provided staff-wide education on Eat, Sleep,         Console – along with algorithm to follow when         evaluating newborns</li> <li>Transitioning to new tool helps promote         parent/newborn bonding by newborn remaining in         room</li> <li>Using non-pharmacological treatment measures to         care for infant</li> <li>Educating parents on how to best comfort newborns         during their anticipated five day stay to monitor for         symptoms of withdrawal</li> </ul>	from our peers:  I'm interested in learning how other places are reporting NAS newborns to the state, when we are no longer documenting or monitoring physical signs and symptoms of withdrawal	Ashley Preksta and Alisha Bliss

Site Name:	Key Interventions:	Our team would most like to learn	Key Contact:
		from our peers:	
Allegheny	Met with key stakeholders (neonatologists,		Lani Erdman,
Health Network-	pediatrician, pharmacy, NICU nurse manager, MCH		Kim Amon,
Saint Vincent	educator, two NICU nurses) re: modified Finnegan		Anita Alloway,
Hospital	assessment, pharma logical intervention, nurse		Molly Soltis
	education/process in place to achieve a more		
	standardized approach in NAS scoring babies in the		
	NICU		
	Presented Eat, Sleep, Console (ESC) initiative to (9)		
	Family Practice Residents plus medical students on		
	11/5/2020. Presented by: Dr. Susheel, NICU NM, and		
	NICU nurse		
	Mother-baby staff assigned to watch YouTube video		
	titled: "Reconsidering the Standard Approach to		
	Neonatal Abstinence Syndrome" by Dr. Matthew		
	Grossman on 11/2/2020		
	Two Mother-baby nurses (as part of their Master's		
	capstone project) spearheading (ESC) initiative on		
	Mother-baby. Started on 11/16/2020. One of the		
	nurses will focus on the mothers and their NAS		
	babies, the other nurse will focus on the other		
	mothers and their babies to prepare them to better		
	manage the Baby's Second Night and reinforce the '5		
	S's' by Dr. Harvey Karp.		
	<ul> <li>Identified (6) super users on Mother-baby to resource mother-baby nurses re: ESC scoring</li> </ul>		
	NICU NM working with IT re: EPIC build for ESC documentation COMPLETED		
	Developed a tracking sheet titled "NAS Admission		
	Log" for babies admitted to NICU. Data points		
	include: patient label, baby from Mother-Baby or		
	outside transfer, Strict No Publicity, date and time of		
	NICU admission, discharge date, pharma logical		
	intervention.		
	ESC implemented on 5 N. Provider met with nurse		
	managers, re: ESC, outcome was both ESC and		
	Modified Finnegan scoring would be completed on		
	babies on 5N.		
	DUDICO UII JIV.		

Site Name:	Key Interventions:	Our team would most like to learn	Key Contact:
		from our peers:	
Allegheny Health Network- West Penn Hospital	<ul> <li>Reviewing and enforcing our process of inter-user reliability with Finnegan</li> <li>Implementation of Eat-Sleep-Console strategy for management of NAS</li> <li>Improve communication and provide education to</li> </ul>	Pitfalls, mistakes, things that work, unexpected obstacles	
	referring PCP's  Obtain certification as NAS Center of Excellence		
Doylostown		• Other measures that can be	Michalla Joseph PSN Padiatric Clinical Load
Doylestown Hospital	<ul> <li>Provide family education about NAS and ESC and what to expect in prenatal period through discharge.</li> <li>Reinforce the Neonatal Consult template and pamphlet to help families understand their hospital</li> </ul>	<ul> <li>Other measures that can be monitored after discharge with the follow up phone calls.</li> <li>After May's PA PQC QI</li> </ul>	Michelle Joseph BSN, Pediatric Clinical Lead, mijoseph@dh.org
Ongoing	<ul> <li>stay from beginning to end.</li> <li>Create a questionnaire for mother to complete prior to consult and at time of discharge to monitor effectiveness of educational process.</li> <li>Follow up phone calls 1 month after discharge</li> </ul>	Collaborative-consider collecting data on % breastfeeding, breastfeeding/formula, or formula. Consider adding if mom had post-partum follow-up	
Einstein Medical Center- Montgomery Ongoing	<ul> <li>Sustain:         <ul> <li>Multidisciplinary meetings targeted for every two months</li> <li>Continued distribution of information antenatally (pamphlets), and updated results at OB provider meetings</li> <li>Non-pharmacologic supportive measures</li> <li>Breastfeeding "Traffic Light"</li> </ul> </li> <li>Improve:         <ul> <li>Unified approach to testing infants in concert with OB to develop standardized screening and testing of mothers</li> <li>Transportation and Food Vouchers for parents to stay with infants (has been varied as COVID restrictions and guidelines have changed)</li> <li>Post discharge follow-up and evaluation of Plan of Safe Care</li> <li>Community Out-reach through clinics and support groups</li> <li>ESC education and pathway revisions</li> </ul> </li> <li>Start:         <ul> <li>Infant massage training</li> </ul> </li> </ul>	<ul> <li>Changes/obstacles/solutions due to COVID visitation restrictions and changing hospital policies?</li> <li>How many infants being scored with ESC tool have needed a second line medication?</li> <li>Anyone able to report a readmission for NAS in the 2 weeks following discharge when using ESC tool?</li> <li>Has anyone seen an infant exposed to daily long-acting benzodiazepine in the absence of any opioid or opioid like substance? If so, how was that infant evaluated?</li> </ul>	Celina Migone, MD

Einstein Medical ESC (pilot in January 2021)  • Who has been able to initiative	
Center- Philadelphia  Open baby type NICU Solution – transition Care-by-Parent room to be able to be used for ESC dyad  No current protocol in place for ESC at EMCP Solution – Development of policy & procedure by EMCP PA PQC team No educational materials for staff re: ESC Solution – Development of HealthStream educational module by EMCP PA PQC team in conjunction with Nursing Education and Professional Development Dept.  Prenatal Consults (implementation in December 2020) Data collection of total opioid use mothers Solution – place ticket for report from AeCIS Lack of educational materials in outpt OB offices Solution – finish informational pamphlet for mothers  Ensure on-going inter-rater reliability for use of the MOM NAS Score in the NICU by implementing a process for above by December 1, 2020 Standardize use of MOM NAS Scoring system at EMCP by introduction and validation of system to Term Nursery by December 31, 2020 Use of MOM NAS Score on MBU (Implementation SeptDec. 31, 2020) Staff perception of difficulty of using MOM NAS Score Solution – Education	

Site Name:	Key Interventions:	Our team would most like to learn from our peers:	Key Contact:
Geisinger Bloomsburg Hospital (GMC) Sustaining	<ul> <li>Reviewed maternal risk factors</li> <li>Sought guidance from PQC members</li> <li>Evaluated equipment needs</li> <li>Implemented staff education</li> <li>Implemented Eat Sleep Console for NAS monitoring</li> <li>Created process to identify eligible patients</li> <li>Involved physicians, nurses &amp; pharmacists in MFM, prenatal care &amp; pediatric care</li> <li>Involved Certified Recovery Specialists and care managers</li> <li>Developed EMR documentation</li> <li>Developed education for prenatal patients</li> <li>Survey of patient experience in process</li> </ul>	<ul> <li>How to best identify patients for prenatal consultation that receive MAT from external organizations?</li> <li>Suggestions on additional metrics to track (maternal or infant)?</li> </ul>	Elissa Concini emconcini@geisinger.edu  Karena Moran kmoran3@thehealthplan.com
Geisinger Lewistown Hospital Beginning	<ul> <li>Reviewed maternal risk factors</li> <li>Sought guidance from PQC members</li> <li>Evaluated equipment needs</li> <li>Implemented staff education</li> <li>Implemented Eat Sleep Console for NAS monitoring</li> <li>Created process to identify eligible patients</li> <li>Involved physicians, nurses &amp; pharmacists in MFM, prenatal care &amp; pediatric care</li> <li>Involved Certified Recovery Specialists and care managers</li> <li>Developed EMR documentation</li> <li>Developed education for prenatal patients</li> <li>Survey of patient experience in process</li> </ul>	<ul> <li>How to best identify patients for prenatal consultation that receive MAT from external organizations?</li> <li>Suggestions on additional metrics to track (maternal or infant)?</li> </ul>	Elissa Concini emconcini@geisinger.edu  Karena Moran kmoran3@thehealthplan.com
Jefferson Health - Abington Hospital	Implementation of Eat, Sleep, Console tool for NAS assessment	How to evaluate interrater reliability	
Moses Taylor Hospital Ongoing	<ul> <li>Developed a standardized opioid protocol for weaning newborns with NAS.</li> <li>Development of an educational tool to help parents understand NAS admission.</li> </ul>	How to use Vermont Oxford for staff education.	

Site Name:	Key Interventions:	Our team would most like to learn from our peers:	Key Contact:
Mount Nittany Health System- Mount Nittany Medical Center  Ongoing/ Completing	<ul> <li>Consideration of prenatal visit with pediatric hospitalist to review welcome brochure with NAS mothers.</li> <li>Staff completion of VON modules- "Center of Excellence" achievement.</li> <li>Creating a non-pharmacologic intervention standardized protocol.</li> </ul>	<ul> <li>What ways can we help engaged mothers get ORT while infant is still admitted?our pharmacy will not supply after mother is discharged/while nesting with infant, clinics closed weekends/holidays (an unexpected delivery on a Friday leaves them without options)</li> <li>Are you banning breastfeeding if mother's admission drug screen is positive?</li> </ul>	Rachel E. Zimmerman, D.O.  rezpsu@gmail.com  *Also available through Tigertext; participating in most Hershey Medical Center Project ECHO conferences this year (seeing many Pa-PQC affiliations there)
Penn Medicine-Hospital of the University of Pennsylvania Ongoing	<ul> <li>Centered around mother-infant dyad collaborating with newborn nursery to reduce Mom/Baby separation</li> <li>Facilitating participation in escalation huddles to maximize non-pharmacologic interventions         <ul> <li>Transfer from S8 to ICN</li> <li>Escalation in treatment in the ICN</li> <li>*Both with discussion of non-pharm measures attempted prior to escalation</li> </ul> </li> <li>Staff &amp; Family education</li> <li>Data collection and discharge phone calls to collect data and patient feedback</li> <li>Prenatal Consults</li> <li>Nonpharmacologic bundle</li> <li>Volunteer program- on hold (COVID)</li> <li>Feeding policies created: breastfeeding eligibility policy, routine fortification</li> </ul>	<ul> <li>Strategies for getting parents to spend more time at the bedside</li> <li>Feedback on implementation of ESC         <ul> <li>Strategies for increasing comfort level of the staff.</li> </ul> </li> <li>Strategies to engage with hospital administration/regulatory around rooming in patient rooms after birth parents are discharged but infants remain in the hospital for observation.</li> <li>Plans of safe care: Specifically, the impact ESC has on plans of safe care. How are you deeming infants as "affected by substance use" for plans of safe care.</li> <li>Question for other Philadelphia County Hospitals: What improvement efforts have you done for increasing/connecting prenatal care &amp; involvement?</li> </ul>	

Site Name:	Key Interventions:	Our team would most like to learn	Key Contact:
		from our peers:	
Penn Medicine- Lancaster General/Women and Babies Ongoing	Identified physician and unit-based champions to participate in Eat, Sleep, Console (ESC) implementation team  Completed assessment of current state with champions and identified areas of opportunity to improve standardization and care of NAS infants.  Established a target condition to identify stakeholders and develop an action plan  Investigated EMR tools for OUD screening, ESC assessment and order set changes  Implemented ESC program for well newborn population - Feb 2021  Further expand ESC for NICU population - Current state and target condition completed. Currently working through action plan. Planned go-live Dec 2021.	<ul> <li>If the infant is transferred to the NICU, do they continue to use ESC in that setting?</li> <li>If the infant requires a rescue dose of Morphine, is the infant transferred to the NICU for care, or is there another process for a single dose treatment?</li> </ul>	Janay DiBerardino, Perinatal Safety Nurse, Janay.DiBerardino@pennmedicine.upenn.edu
	<ul> <li>Established a method for reporting and determining baseline data</li> <li>Validated current NAS report provides correct information</li> <li>% Pharmacologic treatment rates</li> <li>% 30-day readmission rates for NAS infants</li> </ul>		
Penn Medicine- Pennsylvania Hospital, Newborn Medicine	<ul> <li>Prenatal consultation:</li> <li>Creation of an EMR template for a prenatal consult for pregnant women with OUD</li> <li>Consistent use of NAS pamphlet with consult</li> <li>Educating OB staff about need for prenatal consultation when able</li> <li>NAS care:</li> <li>PAH-specific NAS protocol (vs using CHOPs)</li> <li>Guidelines on obtaining UDS for mothers and infants now live</li> <li>El referral:</li> <li>Standardized El referral (via EMR) by assigning neonatal NP who tracks/reports all OENs</li> </ul>	How to successfully implement Eat Sleep Console without private rooms? NRN study starting soon.	

Site Name:	Key Interventions:	Our team would most like to learn	Key Contact:
		from our peers:	
Penn State Health- Hershey Medical Center & Children's Hospital Completing	<ul> <li>Universal collection of meconium at delivery or transfer</li> <li>Cerner (EHR) order and task created</li> <li>Store refrigerated specimen for 7 days</li> <li>Collection and storage of umbilical cord tissue for preterm infants &lt;35 weeks- In Progress</li> </ul>	<ul> <li>Does your hospital use a standardized screening protocol to determine which babies will require toxicology testing?</li> <li>What is your screening criteria?</li> </ul>	
St. Luke's University Health Network	<ul> <li>Working with IT to create an EPIC report to accurately identify any babies with NAS &amp; who are affected by OUD</li> <li>PA PQC core team: working on completing the required NAS education to build competence &amp; consistency within our NAS scoring throughout the network</li> </ul>	Has anyone else created an EPIC report to reflect the data needed for the day audits?	
Temple University Hospital	<ul> <li>Education to Moms pre/post delivery</li> <li>Getting OUD screening into EPIC</li> <li>Teaching for Eat, Sleep, Console approach available on HealthStream</li> <li>Created Nesting Room protocol</li> </ul>	<ul> <li>Finding available space for Moms</li> <li>Gaining insight/support from Social Work</li> </ul>	Temple University Hospital

Site Name:	Key Interventions:	Our team would most like to learn	Key Contact:
Thomas Jefferson University Hospital- Center City (Intensive Care Nursery /Well Baby Nursery)	Improve Parental and Staff Education  ICN nurses to treatment program for education sessions  Educational materials and provider education at OB clinic  Breast feeding education during methadone/buprenorphine stabilization hospitalization  Standardized prenatal neonatology consult Improve Breast Pump Access  Coordinating with WIC  Standardized process with post-partum and case management Improve Treatment Program Involvement in supporting breast feeding  Working with new management to  improve maternal access from inpatient treatment to hospital  Create pumping and milk storage space  Support leaving sessions to pump Improve breast feeding support while in hospital  Improving lactation consultant access  Support skin-to-skin in NICU  Encourage early breast feeding in DR, upon post-partum arrival	<ul> <li>How often to sample a percentage for run chart? On average we're discharge 1-2 OENs that are eligible to receive breast milk each month.</li> <li>Do not have the ability to have moms' room in past their post-partum stay currently.         <ul> <li>Any non-pharmacologic tips in this situation – we have cuddlers and already follow most of the tips on the website's suggested measures</li> <li>Any other hospitals been successful petitioning administration to carve out rooms/units in the hospital for moms to stay and/or board with their babies?</li> <li>Even if we get rooms for moms, many of our moms are in treatment programs and can't stay for long. Any thoughts?</li> </ul> </li> <li>How are you handling the decision of whether to allow breast milk in moms testing positive for marijuana or admitting to its use. Currently, most of the Philadelphia hospitals are restricting breast feeding in this scenario.</li> </ul>	
Tower Health- Reading Hospital	<ul> <li>Implement "Eat Sleep Console" program on Specialty care unit. (Moms will room-in with newborns.)         Transfer family to pediatrics when mother is discharged.     </li> <li>Staff education, music therapy, cuddlers, OT, patient/family education, community education</li> </ul>		

Site Name:	Key Interventions:	Our team would most like to learn	Key Contact:
		from our peers:	
UPMC Womens Health Service Line	Access:  Maternal medical support to prevent withdrawal during pregnancy  Provide regular prenatal and other medical appointments  Prevention:  Minimize fetal exposure to illicit substances  Engage mother as a leader in her recovery  Response:  Parent Partnership Unit (PPU)  Eat, Sleep, Console (ESC) implemented and continuing to spread across system  Implemented ESC and developed a PPU model at Altoona  Developing a service line SUD Committee with membership consisting of representatives from each hospital for Plans of Safe Care.  Created a NOWs Brochure for Prenatal offices and hospitals to provide patients with education about the condition in effort that parents are prepared to stay and provide that non-pharm care to the infant.  Magee is expanding the PPU to 6, Level II NICU beds so that babies that require medication can stay with the mothers so that the non-pharm care can be provided without interruption by the mother.	How you can best implement Eat, Sleep, Console when baby requires medication therapy? Though we are working on a plan for babies to receive treatment while in the PPU with the addition of Level II NICU beds.	
	<ul> <li>Pa DOH of all NAS occurrences</li> <li>Internal leadership and appropriate committees</li> <li>e.g., NICU</li> </ul>		
UPMC Womens	Parental Presence/Caregiver/Cuddler Presence	Still remain very interested in	Vivian Petticord Director, Women's Health
Health Service		protocols that provide	Service Line
Line- Altoona	Reinforce or Increase:	intermittent medication	
	Rooming-in	treatment for symptoms versus	pettvm@upmc.edu
Ongoing	Parental presence	protocols that dose on a routine	
	Skin to skin	basis.	
	Holding		

Site Name:	Key Interventions:	Our team would most like to learn	Key Contact:
		from our peers:	
	Swaddling		
	Optimal feeding		
	Quiet environment		
	Limit visitors		
	Education classes on hold due to pandemic.		
	Parents prepared to stay and administer the non-		
	pharm care- though we recently created a nice		
	brochure for prenatal offices to provide patients so		
	that they can be prepared to stay and care for baby.		
	Shared ordering information on NOWS brochure		
	with all prenatal offices and hospital sites at various		
	local site meetings		
UPMC Womens	Parental Presence/Caregiver/Cuddler Presence	Still remain very interested in	Vivian Petticord Director, Women's Health
Health Service		protocols that provide	Service Line
Line- Cole	Reinforce or Increase:	intermittent medication	
	Rooming-in	treatment for symptoms versus	pettvm@upmc.edu
Ongoing	Parental presence	protocols that dose on a routine	
	Skin to skin	basis.	
	Holding		
	Swaddling		
	Optimal feeding		
	Quiet environment		
	Limit visitors		
<b>UPMC</b> Womens	Parental Presence/Caregiver/Cuddler Presence	Still remain very interested in	Vivian Petticord Director, Women's Health
Health Service		protocols that provide	Service Line
Line- Hamot	Reinforce or Increase:	intermittent medication	
	Rooming-in	treatment for symptoms versus	pettvm@upmc.edu
Ongoing	Parental presence	protocols that dose on a routine	
	Skin to skin	basis.	
	Holding		
	Swaddling		
	Optimal feeding		
	Quiet environment		
	Limit visitors		
UPMC Womens	Parental Presence/Caregiver/Cuddler Presence	Still remain very interested in	Vivian Petticord Director, Women's Health
Health Service		protocols that provide	Service Line
Line- Horizon	Reinforce or Increase:	intermittent medication	

Site Name:	Key Interventions:	Our team would most like to learn	Key Contact:
		from our peers:	
	Rooming-in	treatment for symptoms versus	pettvm@upmc.edu
Ongoing	Parental presence	protocols that dose on a routine	
	Skin to skin	basis.	
	Holding		
	Swaddling		
	Optimal feeding		
	Quiet environment		
	Limit visitors		
<b>UPMC</b> Womens	Parental Presence/Caregiver/Cuddler Presence	Still remain very interested in	Vivian Petticord Director, Women's Health
<b>Health Service</b>		protocols that provide	Service Line
Line- Magee	Reinforce or Increase:	intermittent medication	
	Rooming-in	treatment for symptoms versus	pettvm@upmc.edu
Ongoing	Parental presence	protocols that dose on a routine	
	Skin to skin	basis.	
	Holding		
	Swaddling		
	Optimal feeding		
	Quiet environment		
	Limit visitors		
	The majority of babies diagnosed with NOWS at UPMC Magee-Womens Hospital are not requiring Pharmacologic intervention even though some		
	require a NICU stay.		
	Opened the NTU (Neonatal Transitional Unit) July 12.		
	This is a 6-bed unit where the parents can stay with		
	their infant who may require an extended stay for treatment of bili light therapy for jaundice,		
	antibiotics for treatment of chorio. Two rooms are		
	designated as Parent Partnership Unit. The benefit		
	to this new unit is that previously when babies		
	required treatment with morphine, they required		
	transfer to the NICU and the parents could not stay		
	and continue to provide that non-pharm care.		
	We also received a small grant to offer milk bank		
	breast milk to infants in the PPU whose mothers are		
	breastfeeding and may require supplementation as a		
	means to support the mother's choice to breastfeed.		

Site Name:	Key Interventions:	Our team would most like to learn	Key Contact:
		from our peers:	
<b>UPMC Womens</b>	Parental Presence/Caregiver/Cuddler Presence	Still remain very interested in	Vivian Petticord Director, Women's Health
Health Service		protocols that provide	Service Line
Line- Northwest	Reinforce or Increase:	intermittent medication	
	Rooming-in	treatment for symptoms versus	pettvm@upmc.edu
Ongoing	Parental presence	protocols that dose on a routine	
	Skin to skin	basis.	
	Holding		
	Swaddling		
	Optimal feeding		
	Quiet environment		
	Limit visitors		
Wayne	We are starting to move forward with NAS. We have		Janice Pettinato pettinatoj@wmh.org
Memorial	all 5 core users fully trained in VON and have a total		
Hospital	of 13 out of 20 OB staff.		Mary Beth Dastalfo dastalfom@wmh.org
Beginning			

# **Maternal Mortality: Hemorrhage**

Site Name:	Key Interventions:	Our team would most like to	Key Contact:
		learn from our peers:	
<b>Einstein Medical</b>	Change in workflow for providers and nursing staff		
Center- Philadelphia	<ul> <li>Solution – educational plan developed for provider and nursing staff (January 2021)</li> <li>PPH Scoring in AeCIS</li> <li>Solution – Cerner working with CMQCC to standardize scoring for risk tool based on AWHONN project (Jan. 2021)</li> </ul>		
Jefferson Health- Thomas Jefferson University Hospital	<ul> <li>Upgrade to EMR allows PPH calculation tool to flow directly into Delivery Summary</li> <li>Collect data to determine predictability of PPH score</li> <li>Hemorrhage supplies added to delivery cart for remote deliveries (ICU)</li> <li>Assign K2 antepartum hemorrhage module</li> </ul>	How do other health systems align policy and procedures within their specific hospitals, especially in EMR?	

Site Name:	Key Interventions:	Our team would most like to	Key Contact:
Penn Medicine- Chester County Hospital  Penn Medicine- Lancaster	<ul> <li>Code OB Emergency Response Developed</li> <li>Hemorrhage Carts on Labor &amp; Delivery and Mother/Baby</li> <li>OB Emergency Cards</li> <li>Interdisciplinary Simulations</li> <li>Train champions to facilitate QBL process         <ul> <li>Feedback and process recommendations for clinical</li> </ul> </li> </ul>	<ul> <li>What strategies are being used to prevent postpartum hemorrhage from occurring?</li> <li>Have you developed standard interventions for care based</li> </ul>	Janay DiBerardino, Perinatal Safety Nurse,
General/Women and Babies Ongoing	workflow Communication/Education with teams  Implemented EMR tool for PPH risk assessment (12/2/19)  Inventory tools/equipment required for QBL process Additional scale obtained for L&D  Implemented QBL with EMR calculator for high-risk patients (2/12/20) Expanded QBL process to all vaginal delivery patients (7/27/20) Expand QBL process to include cesarean deliveries (1/21) Current QBL process reviewed, and a new and improved process was trialed by our L&D team. (4/5/21) Developed physician orders to include standard response interventions based on QBL values. (Summer 2021)  Order set changes approved by OBGYN Care Management team Established a method for reporting and determining baseline data O OB Vaginal & Cesarean PPH reports built in EMR	on QBL values? If so, are you using a stage-based approach? (Ex. Stage 1 for QBL >500 mL for vaginal delivery)  Have you successfully implemented ongoing cumulative QBL during cesarean deliveries, rather than a calculation of QBL at the end of cesarean case?	Janay.DiBerardino@pennmedicine.upenn.edu
	<ul> <li>Developed physician orders to include standard response interventions based on QBL values. (Summer 2021)</li> <li>Order set changes approved by OBGYN Care Management team</li> <li>Established a method for reporting and determining baseline data</li> </ul>		

Site Name:	Key Interventions:	Our team would most like to learn from our peers:	Key Contact:
Penn Medicine- Pennsylvania Hospital	<ul> <li>We implemented a comprehensive Code Crimson policy that includes 3 levels of hemorrhage with specific assessments, actions, and checklists for each.</li> <li>We made significant improvements to our QBL calculator and created a dashboard to measure our progress.</li> <li>We educated all nurses and providers working in L&amp;D or Mother Baby and had drills prior to implementation. A debrief occurs after each event.</li> </ul>	Have you identified any risk factors that surprised you?	
Penn State Health- Hershey Medical Center & Children's Hospital	<ul> <li>Assessment by provider using an evidence- based tool.</li> <li>Risk Assessment score placed in EMR and on electronic Chalkboard.</li> <li>Postpartum Hemorrhage kit with emergency medications present at every delivery.</li> <li>Postpartum Hemorrhage Cart containing guidelines for actions &amp; emergency supplies immediately available.</li> <li>Simulation exercises are ongoing.</li> </ul>	How are other organizations providing education to their patients on the signs and symptoms of postpartum hemorrhage during hospitalization?	
Temple University Hospital	<ul> <li>Risk assessment for every patient</li> <li>Implement the hemorrhage protocol (everything will be consistent)</li> <li>Hemorrhage cart (virtual)</li> <li>Running Drills</li> <li>Cultural diversity training</li> <li>Pain Management protocol</li> </ul>	<ul> <li>Gathering data</li> <li>Inconsistencies in assessment and treatment</li> <li>High Risk population</li> </ul>	Temple University Hospital
Tower Health- Reading Hospital	<ul> <li>Create standard for prenatal identification of high-risk patients, quantitative blood loss, and early interventions</li> <li>All nurses, providers attend yearly sim. QBL roll-out scheduled for 3/7/20; Sims – yearly</li> <li>Policy / protocol in place and communicated by 7/1/20</li> </ul>	<ul> <li>Implementation strategies</li> <li>Strategies for standardization</li> <li>Patient and family education prenatally</li> <li>Feedback on our processes</li> </ul>	

UPMC Womens Health Service Line  Readiness:  Includes: hemorrhage cart supplies, checklist, algorithms, hemorrhage medication kit, response team, advanced gynecologic surgery, massive transfusion protocols, unit guidelines, unit-based drills with post-drill debriefs, and staff/provider education Recognition and Prevention:  Standardized assessment tool Admission, other appropriate times Measurement from EBL to QBL & defined quantity Response:  Conducted tracer document for compliance to new Perinatal Joint Commission Standards Created system wide policy for assessing and managing PPH. Updated hemorrhage checklist. Service Line Education Committee is creating hemorrhage module for staff education Feb and March rolled out new medical device for hemorrhage Readiness: Providing education on PPH. Would like to see what education other hospitals are providing patients beyond AWHONNS Post Birth Warning Signs.  Created system wide policy for assessing and managing PPH. Updated hemorrhage checklist. Service Line Education Committee is creating hemorrhage module for staff education Feb and March rolled out new medical device for hemorrhage Rolling this out to other 14 birthday hospitals April	Site Name:	Key Interventions:	Our team would most like to	Key Contact:
Health Service Line  Includes: hemorrhage cart supplies, checklist, algorithms, hemorrhage medication kit, response team, advanced gynecologic surgery, massive transfusion protocols, unit guidelines, unit-based drills with post-drill debriefs, and staff/provider education Recognition and Prevention:  Standardized assessment tool Admission, other appropriate times Mould like to see what education other hospitals are providing patients beyond AWHONNS Post Birth Warning Signs.  Standardized assessment tool Admission, other appropriate times Mould like to see what education other hospitals are providing patients beyond AWHONNS Post Birth Warning Signs.  Signs.  Conducted tracer document for compliance to new Perinatal Joint Commission Standards Created system wide policy for assessing and managing PPH. Updated hemorrhage checklist. Service Line Education Committee is creating hemorrhage module for staff education Hemorrhage Rolling this out to other 14 birthday hospitals April			learn from our peers:	
<ul> <li>Creating hemorrhage education for patients Reporting:         <ul> <li>Event reporting to Risk/Quality Department</li> <li>Multidisciplinary review for opportunities in systems and processes</li></ul></li></ul>	<b>Health Service</b>	Readiness:  Includes: hemorrhage cart supplies, checklist, algorithms, hemorrhage medication kit, response team, advanced gynecologic surgery, massive transfusion protocols, unit guidelines, unit-based drills with post-drill debriefs, and staff/provider education  Recognition and Prevention:  Standardized assessment tool Admission, other appropriate times Measurement from EBL to QBL & defined quantity  Response:  Conducted tracer document for compliance to new Perinatal Joint Commission Standards  Created system wide policy for assessing and managing PPH. Updated hemorrhage checklist.  Service Line Education Committee is creating hemorrhage module for staff education  Feb and March rolled out new medical device for hemorrhage Rolling this out to other 14 birthday hospitals April 14  Creating hemorrhage education for patients  Reporting:  Event reporting to Risk/Quality Department  Multidisciplinary review for opportunities in systems and processes Internal hospital systematic reviews are conducted per occurrence  Monitor outcomes and metrics via Obstetrical Dashboard	<ul> <li>Providing education on PPH.         Would like to see what         education other hospitals are         providing patients beyond         AWHONNs Post Birth Warning</li> </ul>	

# **Maternal Mortality: Timely Fourth Trimester Contact**

Site Name:	Ke	y Interventions:	Οι	ur team would most like to learn from our peers:
Jefferson Health-	•	Standardized guidelines for PP follow-up (current focus on HTN and PPD)	•	Innovative models for postpartum follow-up
Abington	•	Interprofessional postpartum rounding on inpatient Mother-baby units	•	Coding and billing r/t 4th trimester care
Hospital	•	Developing standardized guidelines for postpartum follow-up		