



Maternal Hypertension
Initiative Teams Call
Implementing System for ID
and Protocols for
Measurement, Assessment,
& Monitoring of BP

February 27, 2017 12:30 – 1:30 pm

Overview



- HTN Initiative: Collaborative Tools and Updates (20 mins.)
- Winnie Palmer Hospital for Women & Babies Florida (20 mins.)
 - Lorraine Parker, Patient Care Administrator
- Team Talks (10 mins.)
 - Northwest Community Hospital
 - Dr. Soti Markuly
 - Rush-Copley
 - Karen Werrbach MSN, RNC-OB, NEA-BC
 - Kristi Walker MSN, RNC-OB,C-EFM
- Patient and Family Advisors
- Next Steps & Questions



HTN Initiative: Collaborative Tools and Updates

Face-to-Face Updates
Collaborative Data Review
Implementation Checklist
How to View Reports

Severe HTN Initiative:

Face-to-Face



- Save the date May 18th, 2017
- President Abraham Lincoln Springfield a DoubleTree by Hilton Hotel
- Tentatively scheduled from 10 am 3:30 pm
- Larry Shields confirmed to speak on early standardized treatment of critical blood pressure (crBP) elevations is associated with a reduction in eclampsia
- More information on fee and registration coming soon!

Severe HTN Initiative: Face-to-Face Breakout Topics



- Potential breakout topics please select the top 3 you would be interested in attending on the poll (you will get to choose when you register, recommend coordinate across topics with your team members)
 - Implementing and monitoring standardized BP identification protocols
 - Implementing severe HTN treatment protocols into hospital's standard of practice
 - Lack of nursing/provider buy-in to adopting protocols, independent providers
 - Optimizing the Use of Debriefs to Drive Improvement
 - Systems Approaches to Standardize Patient Education and Discharge Follow Up
 - Implementing and Sustaining Team Based Communication to Support a Culture of Safety and Empower Team Members
 - ED Implementation
 - HTN Simulation and Drills

Collaborative Call Schedule: Focus on System Changes

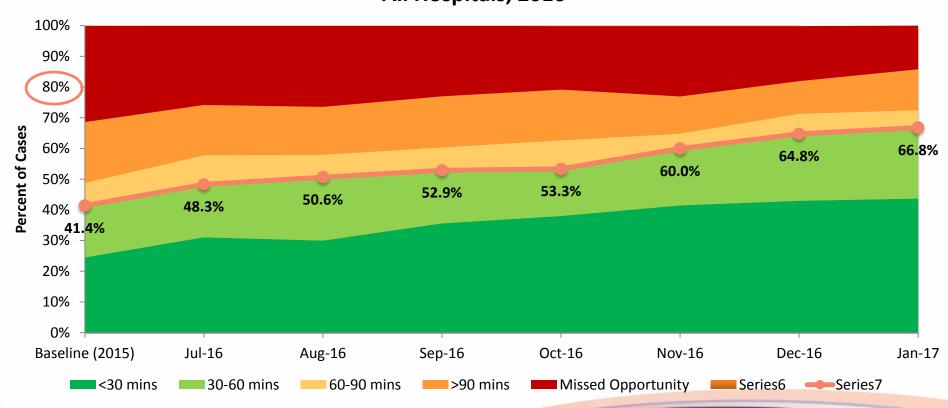


Call Date	Topics –Top 5 system level changes/interventions to decrease the time to treatment and improve discharge education and follow-up:
December 19, 2016 12:30 – 1:30 pm	Establish a system to perform <u>regular debriefs</u> after all new onset severe maternal hypertension cases
January 23, 2017 12:30 – 1:30 pm	Develop and implement <u>standard order sets</u> , <u>protocols</u> , <u>and checklists</u> for recognition and response to severe maternal hypertension and integrate into EHR
February 27, 2017 12:30 – 1:30 pm	Implement a system to <u>identify pregnant and postpartum women</u> in all hospital departments and execute <u>protocol for measurement</u> , <u>assessment</u> , <u>and monitoring</u> of blood pressure and urine protein for all pregnant and postpartum women
March 27*, 2017 12:30 – 1:30 pm	Ensure <u>rapid access to IV and PO anti-hypertensive medications</u> with guide for administration and dosage (e.g. standing orders, medication kits, rapid response team)
April 24, 2017 12:30 – 1:30 pm	Implement a system to provide patient-centered <u>discharge education materials</u> on severe maternal hypertension and implement protocols to ensure patient <u>follow-up</u> <u>within 10 days</u> for all women with severe hypertension and 72 hours for all women on medications
May	Anticipate Face —to — face meeting

Maternal HTN: Time to Treatment



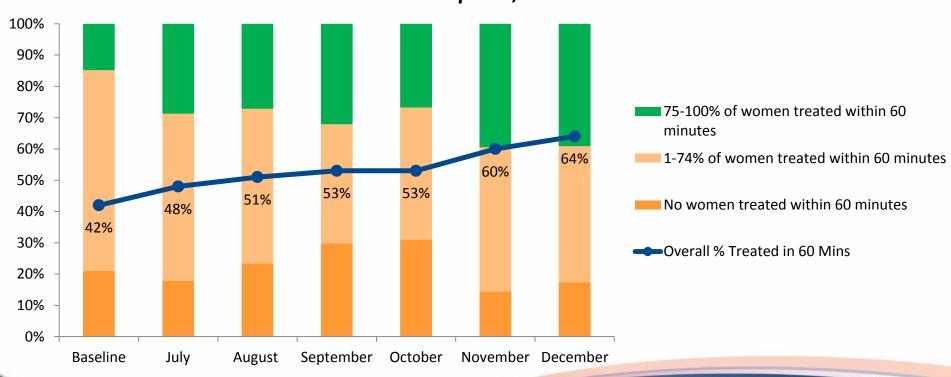
ILPQC: Maternal Hypertension Initiative
Percent of Cases with New Onset Severe Hypertension Treated in <30, 30-60, 60-90, >90 minutes or Not Treated
All Hospitals, 2016



Maternal Hypertension Data: IL@PQC Time to Treatment



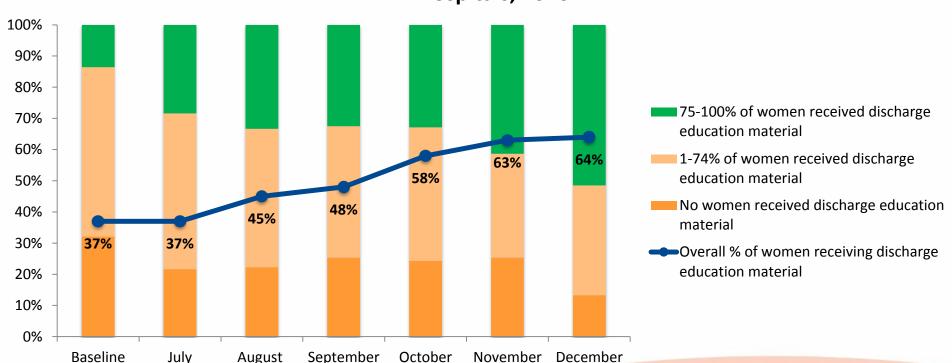
ILPQC: Maternal Hypertension Initiative Percent of All Reporting Hospitals that Treated Cases with New Onset **Severe Hypertension within 60 Minutes** All Hospitals, 2016



Maternal Hypertension Data: IL@PQC Patient Education



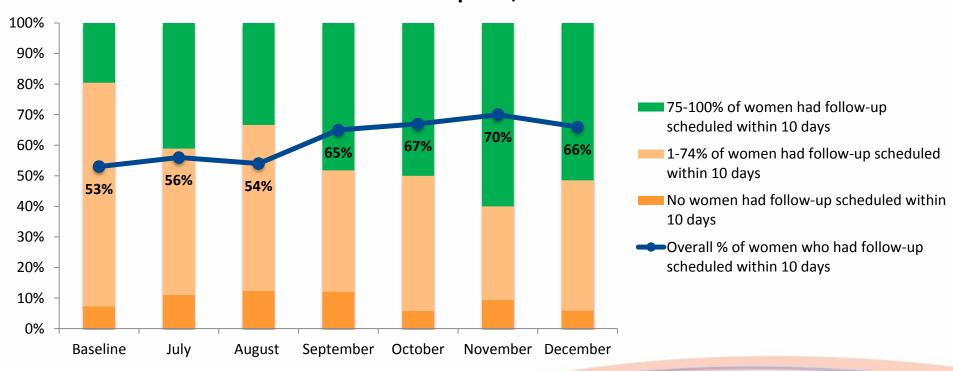
ILPQC: Maternal Hypertension Intiative Percent of All Reporting Hospitals Where Women Received Discharge **Education Materials** All Hospitals, 2016



Maternal Hypertension Data: IL@PQC Patient Follow-up



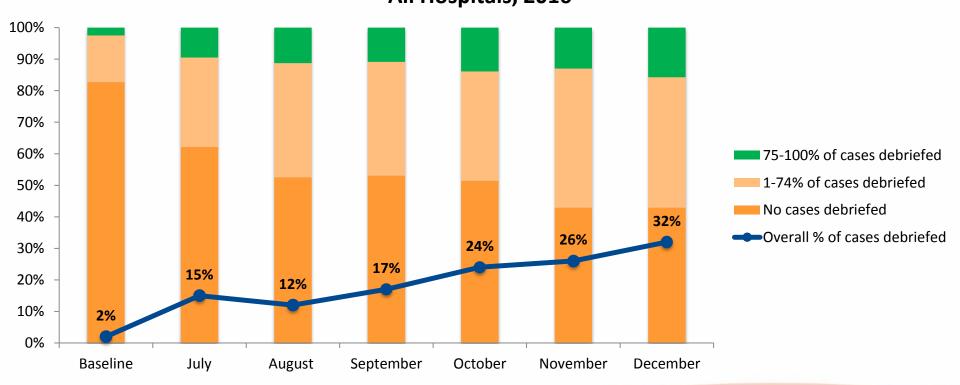
ILPQC: Maternal Hypertension Intiative Percent of All Reporting Hospitals Where Follow-up Appointments were **Scheduled within 10 Days** All Hospitals, 2016



Maternal Hypertension Data: IL@PQC Debrief



ILPQC: Maternal Hypertension Intiative Percent of All Reporting Hospitals Where Cases of New Onset Severe **Hypertension were Debriefed** All Hospitals, 2016



Severe Hypertension Data Entry Status



	Total Records	# Teams with Data
Baseline (2015)	1619	87
July	566	74
August	635	82
September	564	84
October	438	72
November	478	79
December	502	72
January	418	67
Overall	5220	100

REVISED - Key Driver Diagram: Maternal Hypertension Initiative

GOAL: To reduce preeclampsia maternal morbidity in Illinois hospitals

AIM: By December 2017, to reduce the rate of severe morbidities in women with preeclampsia, eclampsia, or preeclampsia superimposed on preexisting hypertension by 20%

Key Drivers

<u>Interventions</u>

GET READY

IMPLEMENT STANDARD PROCESSES for optimal care of severe maternal hypertension in pregnancy

- ☐ Develop <u>standard order sets</u>, <u>protocols</u>, <u>and checklists</u> for recognition and response to severe maternal hypertension and integrate into EHR
- ☐ Ensure <u>rapid access to IV and PO anti-hypertensive medications</u> with guide for administration and dosage (e.g. standing orders, medication kits, rapid response team)
- ☐ <u>Educate</u> OB, ED, and anesthesiology physicians, midwives, and nurses on recognition and response to severe maternal hypertension and apply in regular simulation drills

RECOGNIZE

IDENTIFY pregnant and postpartum women and ASSESS for severe maternal hypertension in pregnancy

- ☐ Implement a system to <u>identify pregnant and postpartum women</u> in all hospital departments
- ☐ Execute <u>protocol for measurement</u>, <u>assessment</u>, <u>and monitoring</u> of blood pressure and urine protein for all pregnant and postpartum women
- ☐ Implement <u>protocol for patient-centered education of women and their ramilies on</u> signs and symptoms of severe hypertension

RESPOND

TREAT in 30 to 60 minutes every pregnant or postpartum woman with new onset severe hypertension

- ☐ Execute protocols for <u>appropriate medical management</u> in 30 to 60 minutes
- ☐ Provide patient-centered <u>discharge education materials</u> on severe maternal hypertension
- ☐ Implement protocols to ensure patient <u>follow-up within 10 days</u> for all women with severe hypertension and 72 hours for all women on medications

CHANGE SYSTEMS

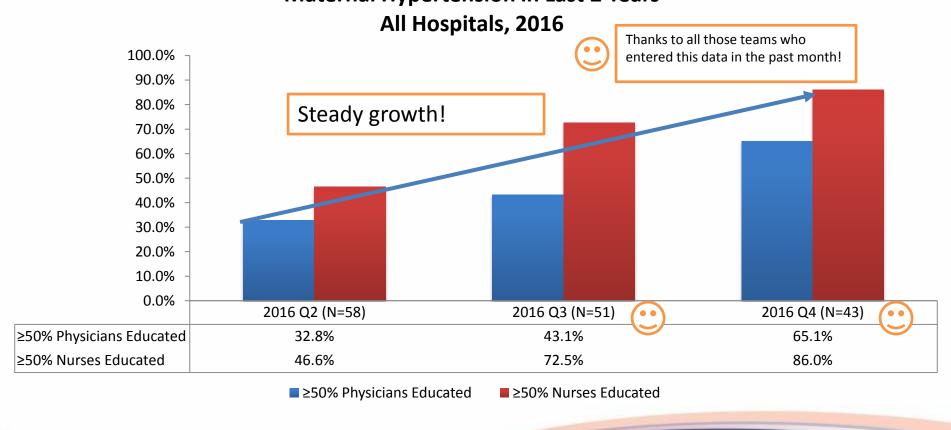
FOSTER A CULTURE OF SAFETY and improvement for care of women with new onset severe hypertension

- ☐ Establish a system to perform <u>regular debriefs</u> after all new onset severe maternal hypertension cases
- ☐ Establish a process in your hospital to perform <u>multidisciplinary systems-level reviews</u> on all severe maternal hypertension cases admitted to ICU
- ☐ Incorporate severe maternal hypertension recognition and response protocols into ongoing education (e.g. orientations, annual competency assessments)

Maternal Hypertension Data: IL@PQC Physician/Nurse Education



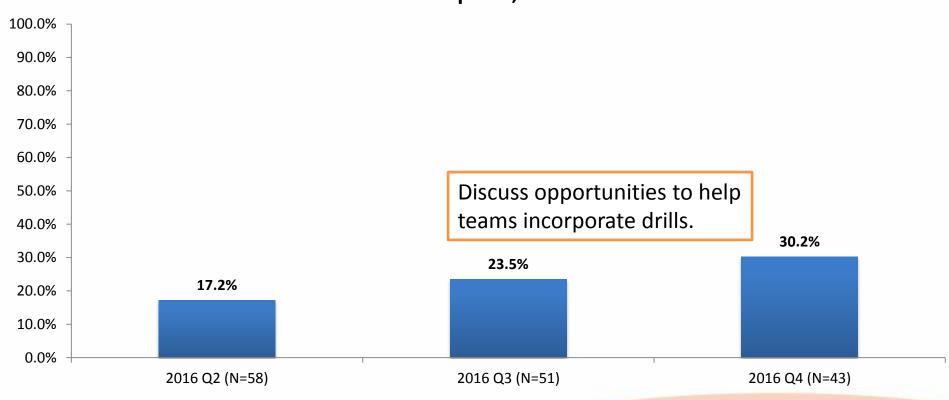
ILPQC: Maternal Hypertension Intiative Percent of Teams with ≥50% of Nurses and Physicians Educated on Severe **Maternal Hypertension in Last 2 Years**



Maternal Hypertension Data: IL PQC HTN Drills



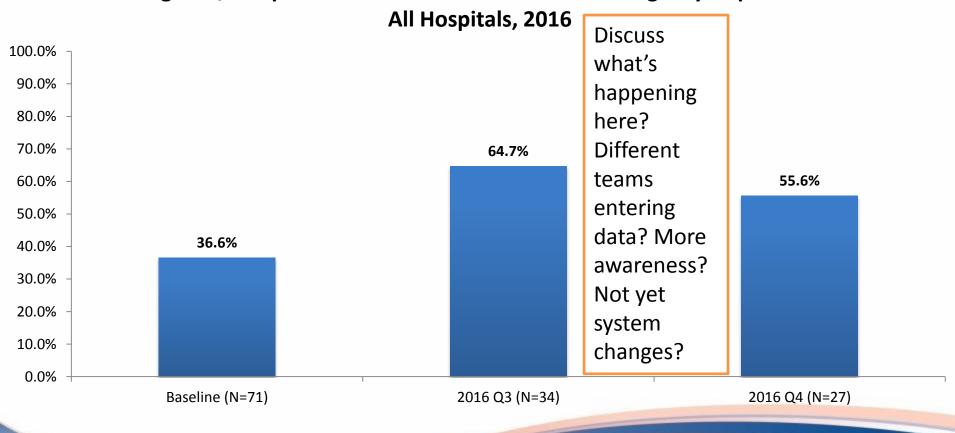
HTN ILPQC: Maternal Hypertension Intiative Percent of Teams that Held a Severe HTN Drill During the Quarter All Hospitals, 2016



Maternal Hypertension Data: IL@PQC **ED Practices**

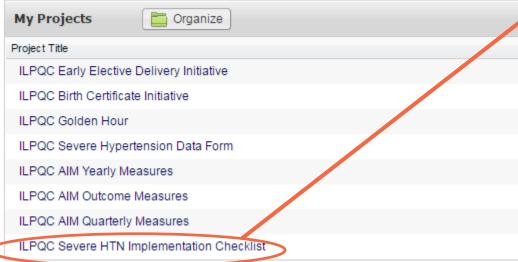


HTN ILPQC: Maternal Hypertension Initiative Percent of Teams that have a Process for Timely ID, Triage, and Evaluation of **Pregnant/Postpartum Women with HTN in the Emergency Department**



Severe HTN Implementation ILE PQC Checklist



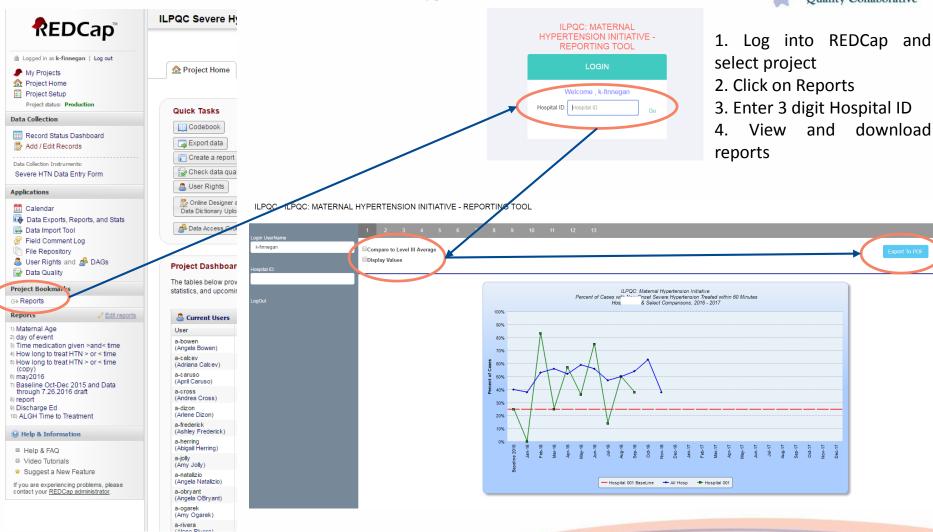


- Open REDCap while on the call and click on 'My Projects'
 - Complete Severe HTN Implementation Checklist for 2016 Q3 and Q4
 - 14 easy yes/no questions

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			Q3 2016 (July - September 2016)	
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		\circ	Q3 2017 (July - September 2017)	
		0	Q4 2017 (October - December 2017)	
eadiness - For every unit in your hospital do you have:				res
. Standard protocols for early warning signs, updated liagnostic criteria, monitoring and treatment of severe			**	
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atients may be treated. Include brief guide for			Yes	
dministration and dosage.		0	No	
L&D				res
. L&D must provide value				
			Yes	
. Antepartum/Postpartum				
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. Triage/ED			No	
must provide value				res
. System plan for escalation, obtaining appropriate				
onsultation and maternal transport, as needed for severe		0	Yes	
naternal hypertension, preeclampsia, and eclampsia.			No	
. L&D	9	-	110	res
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How to Access Reports





QI Methods Example:

Linking data review to PDSA cycle

- Review your team data in your next team meeting
- How are you doing over time?
 - Consistent? Improving?
- How do you compare to other teams?
- Do you see opportunities for improvement?
 - Are you identifying missed opportunities? Delay in treatment? Variability in treatment time across cases or across units?

Quality Collaborative

- Have you tried any system changes to develop and implement reliable systems for identification of severe BP, measurement, assessment, and monitoring of BP?
 - If yes, could they be improved?
 - If no, why not try now?
 - These systems based changes help to empower nurses and drive sustainable culture change across units

QI Support Plan Updates



- Individual QI Support Calls
 - All QI Support Calls Completed expect follow up in 1 month from Patti
 - Key takeaways:
 - Teams having issues with providers/nurses conditionally following protocols
 - Staffing/resources challenges
 - Not viewing REDCap Reports recommend reviewing on next OB Teams call
- Individual Data Support Calls
 - Calls with all but 2 teams Kate continues outreach
 - Key takeaways:
 - Teams have data collected but may be lacking resources/time to enter data forms into REDCap
 - Multiple hospitals have key staff members on leave leading to delays in data entry
- QI Topic Calls
 - 6 QI Topic calls held in January/February with 4-10 teams on each call
 - Please let us know of additional topics for future calls!



Winnie Palmer Hospital for Women & Babies

Lorraine Parker, Patient Care Administrator at Winnie Palmer Hospital for Women & Babies, Florida



Our HIP Initiative Journey

Winnie Palmer Hospital for Women & Babies

Partnering to Improve Health Care Quality for Mothers and Babies

Where We Started

- 2009-Started HTN algorithm in triage
- Difficulty hardwiring process in other areas within the hospital
- Inconsistent management practices among providers
- No specific guidelines/policy that focused on HTN management





What We've Achieved

- Implementation of HTN crisis algorithm to all areas of the hospital
- Standardization in management of severe range blood pressures
- Clear goals for HTN crisis management
- Development of an order set and policy
- Developed consistent staff education





What We've Achieved

- Clear admission/transfer guidelines
- Improved physician consistency
- Collaboration with ED's in developing management recommendations





Challenges Still to Tackle

- Hardwire process for management of HTN patients in ED's
- Ensure consistent documentation standards
- Notification of RRT consistently
- Continue to hardwire processes
- Increase use of order set





IL PQC Illinois Perinatal Quality Collaborative

Team Talks

- Northwest Community Hosiptal
 - Dr. Soti Markuly
- Rush-Copley
 - Karen Werrbach MSN, RNC-OB, NEA-BC
 - Kristi Walker MSN, RNC-OB,C-EFM

Northwest Community Healthcare

- 489 bed hospital with main campus in Arlington Heights, Illinois. Non-profit independent facility with additional outpatient sites and immediate care centers.
- ·Level III Perinatal services
- 2600 births annually
- •249 NICU admissions in 2015
- •16 bed single room NICU with 8 designated Level III beds
- •44 bed OB postpartum/antepartum/gyne



Team members:

Team consists of OB Hospitalist, ED physician, Nursing Managers, Clinical Educators (OB & ED), & Staff Nurses.

Team Chair sits on "workgroup advisory board".

Team meeting every other month.

Birth Certificate Registrar and Pharmacy consulted on as needed basis.



Feb: BP Measurement Education

March: OB department meeting

April:

May: Sample of letter provided to OB department members.

Dear Colleague:

Northwest Community Hospital is a participating hospital in the Illinois Perinatal Quality Collaborative Maternal Hypertension Initiative aiming to reduce maternal morbidity associated with severe hypertension by 20%. Severe hypertension is defined as a systolic BP greater than or equal to 160 and/or diastolic BP greater than or equal to 110, sustained for 15 minutes. This includes both pregnant and postpartum patients evaluated in L&D, Postpartum, and the Emergency Department.

When these patients present, it is imperative they be identified, assessed and treated in a timely manner. The American College of Obstetricians and Gynecologists Committee Opinion number 623, Feb 2015 addresses the emergent treatment of acute-onset of severe hypertension during the pregnancy and postpartum period.

June:/July: Formalizing Patient Education Handouts

Nursing Staff Education & Undates at Unit based

Nursing Staff Education & Updates at Unit based Meetings.

Community Healthcare

Fall 2016:

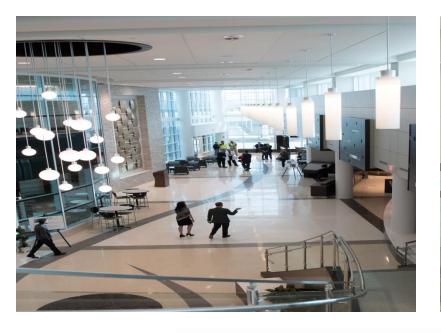
- · Physician Champion presented at ED physician meeting
- Computer Based Training Module assigned to all RN's in L & D., Postpartum, and ED.
- Presented progress and outcomes at department staff meetings.
- Physician Champions and Nursing attended ILPQC Springfield meeting.

Winter 2016:

- January 2017 Physician Champion presented to the OB/GYN Department
 Meeting: Data from 2016, pitfalls, areas of improvement discussed. Letter
 containing same sent to all members of the department.
- RN Champion presented education to community Promotoros program members.
 - The program consists of peer counselors who support patients inpatient & after discharge.

Healthcare

- Protocol and order set in development for presentation at OB Departmen meeting.
- Hypertension simulation planned for Spring.





TRush-Copley

Karen Werrbach MSN, RNC-OB, NEA-BC
Director, Women's Health Institute
Kristi Walker MSN RNC-OB, C-EFM
Clinical Educator, Family Birth Center, MFM
and Pelvic Medicine

Rush Copley Family Birth Center

- Leve | | Hospita 6th busiest delivering hospital in Illinois
- 14 LDR's
- 6 Triage Rooms
- 1 Alternative Birthing Suite (only one in the western Suburbs)
- 2 OR's
- 28 Bed M/B unit
- 27 Bed NICU



Rush Copley Hypertension Team

- Kristi Walker Clinical Educ FBC -Team Lead
- Karen Werrbach Director
- Peggy Mikkelsen Mgr L&D
- Andrea Grzyb Mgr M/B
- Antoinette Trobl Quality ED
- Melissa Reeder Staff Educ FBC
- Mary Antongorgi Coordinator MFM
- Nancy Pietrzak Mgr ED
- Maureen Lugod Educ ED
- Jennifer Perry Director ED
- Melissa Knapik Staff RN FBC
- Lindsay Ammenhauser Patient Rep
- Lorna Kaitei Quality Coordinator FBC
- Dr McCulloch Provider Champion MFM
- Dr Hendren Provider Champion ED
- Garth Xander Pharmacist Champion

Does This Look Familiar?



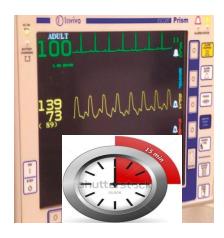
Patient Talking on Phone while taking Blood Pressure



BP During Contraction

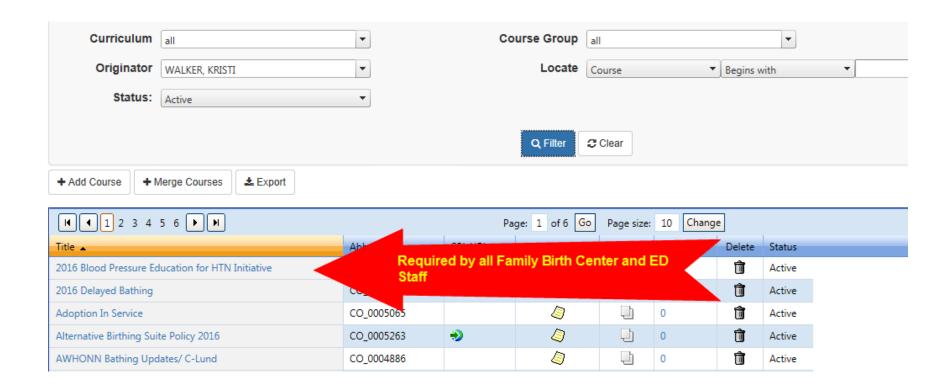


Side lying during BP



Cyclic Blood Pressures
While RN out of room

Computer-Based Learning Module Education and Test



Train the Trainer



- Each Trainer Met 1:1 with staff
- Reviewed the Education on proper assessment and documentation
- Observed the staff perform BP assessment
- Signed off competency skills checklist

Competency worksheet

Name:

Competency Worksheet

= Check off and initial when skill has been completed Competency: Blood Pressure Assessment Reference(s): ILPQC Maternal Hypertension Initiative Clinical/Technical Skills Critical Thinking Skills Interpersonal Skills Vital Signs Identifies when and how frequently Blood Identifies situations in which Communicates a vou should take a manual procedure to patient Pressure is to be taken blood pressure for Explains importance of taking and documenting verification Promptly reports abnormal values to nurse Blood Pressure on time. Identifies normal ranges or provider. Blood Pressure Demonstrates appropriate technique for obtaining a blood pressure utilizing proper cuff Discusses actions to take when abnormal reading size, position and process obtained. Demonstrate proper technique for Automatic and Discuss process for taking manual Blood Pressure assessment cyclic Blood Pressures Demonstrates proper documentation of blood pressure in SCM or OBTV Department(s): Nursing Date: Revised June 2016

Signature of Educator/Super user_____

Provider Education

AIM Modules sent out to all providers



- Education provided at 3 OB Gyne Department Meetings
- Policies, order sets and algorithms currently being reviewed brought to OB/Gyne Department and Emailed to providers for feedback

Changes in progress

- Order sets Revised to Change BP parameters 160/105
- Hypertension in the Pregnant and Postpartum Patient Policy—Includes ED section/Algorithms for meds, ED workflow and BP workflow
- Labetalol and Hydralazine Policy Developed to guide the M/B nurses who are not as familiar with IV push medication for hypertension

2nd Train the Trainer Training

- Education on Policies, Order sets, Time to treat, Patient Education, Discharge Follow-up and debrief
- Education Reference binders placed on each unit and provided to the trainers
- Sign off sheets provided to each trainer

Moving forward



Provider/Staff -Buy In/ Practice Change



Review our data





Initiate PDSA cycles based off our data

To improve outcomes



Patient & Family Advisors

Patient/Family Advisors



- Stacey Porter and Jennifer Heiniger participating as patient advisors to the ILPQC OB Maternal Hypertension projects
- ILPQC encourages hospital teams to identify and include a patient/family advisor on their QI team
- ILPQC developed tool to help staff/providers identify and provide information to potential patient/family members about working in QI
- ILPQC email text to communicate with team members to assist in identifying potential pts will be sent in the upcoming newsletter
- Stay tuned for an updated Patient Engagement webpage on the ILPQC website with additional resources

Team Talks - HTN Initiative



- Teams assigned an OB Teams Call look for email from Kate
 - January -
 - Alexian Brothers Women's and Children's Hospital
 - Memorial Hospital East/Belleville
 - February
 - Northwest Community Hospital
 - Rush-Copley

March

- Elmhurst Memorial
- Unitypoint Health Trinity
- Alexian Brothers Women's and Children's
- April
 - SwedishAmerican
 - Palos Community Hospital

- Generate discussion and learning through sharing
 - Good foundation for storyboard/poster presentations!
- Present 5-10 mins. on current QI work based on monthly call topic:
 - January implementing standard order sets, protocols, and checklists
 - February standardizing identification, BP measurement, assessment, and monitoring for pregnant/postpartum women
 - March rapid access to IV and PO anti-hypertensive medications
 - April implement system for standardized patient discharge education and follow-up

HTN Initiative Next Steps



- Focus on QI strategies and reliable systems changes to reduce time to Illinois Perinatal
 Quality Collaborative
 treatment for all patients, all units, all hospitals
- Review your hospitals REDcap Data at your next meeting, share it to drive QI
- Identify a patient/family advisor for your HTN Initiative Team and invite them to participate in your monthly QI team meetings
- ILPQC HTN Initiative Face to Face May 18, Springfield: Save the Date!
- Data past and upcoming due dates:
 - Severe HTN Data Form
 - January data is due between February 15th and 28th
 - February dad is due between March 15th and 31st
 - AIM Quarterly Measures
 - 2016 Q3 (July September) was due October 15th
 - 2016 Q4 (October December) was due January 15th
 - Quarterly Implementation Checklist
 - 2016 Q3 (July September) was due October 15th
 - 2016 Q4 (October December) was due January 15th
- Next teams call will be March 27, 2017 from 12:30 1:20 pm
 - Email info@ilpqc.org with any questions!



Q&A

- Ways to ask questions:
 - Raise your hand on Adobe Connect to ask your question by phone
 - Post a question in the Adobe Connect chat box



Contact

ILE PQC

Illinois Perinatal Quality Collaborative

- Email info@ilpqc.org
- Visit us at <u>www.ilpqc.org</u>









