



Maternal Hypertension Initiative Teams Call *Response*

October 24, 2016

12:30 – 1:30 pm

Overview

- HTN Initiative Updates (8 mins.)
- 4th Annual Conference (2 mins.)
- Clinical Education (20 mins.)
 - Preeclampsia Patient Education, Engagement and Postpartum Follow-up – Roma Allen and Debbie Schy
- Patient and Family Engagement (20 mins.)
 - Tara Bristol Rouse, MA, Director of Patient and Family Partnerships, PQCNC
 - Katie Drew, Patient Partner to Cone Women’s Health
 - DeeDee Plummer, RNC, Clinical Operations Analyst for Women’s and Children’s Services, Novant Health Huntersville Medical Center
- Team Talks (10 mins.)
 - Marilyn Paoella BSN, RNC, E-EFM, Silver Cross Hospital
 - Chris Lopian BSN, RNC-OB, C-EFM, St. John’s Hospital
- Next Steps & Questions

HTN Initiative Updates

Data Entry Status
Planning for Future Calls
Updated Key Driver Diagram

Severe Hypertension Data Entry Status

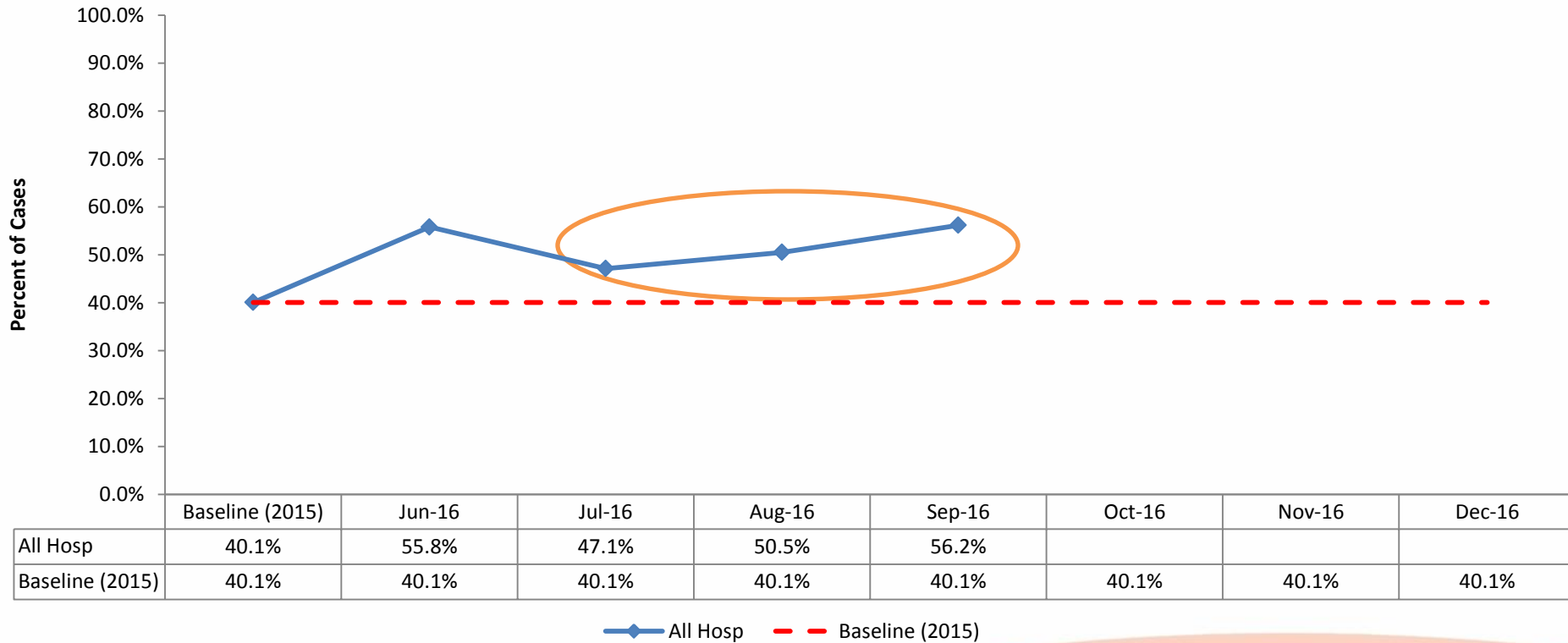


	Total Records	# Teams with Data
Baseline (2015)	1367	80
June	457	67
July	514	69
August	549	74
September	325	63
Overall	3212	94

Maternal HTN: Time to Treatment




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



HTN Team Calls: Through October



Call Date	Slides Due to ILPQC	Topic	Team Members
June 27 12:30 – 2:30 pm	June 6	Readiness and Reporting - Drills, Simulation, and Debriefs	Sherry Jones, Melissa Claudio, Nicole Ury, Sam Schoenfelder
July 25 12:30 – 1:30 pm	July 6	Recognition - Accurate BP Measurement & Diagnosis	Heather Stanley Christian, Soti Markuly, Debbie Schy, Mona LaGrand, Sam Schoenfelder, Robbin Uchison
August 22 12:30 – 1:30 pm	August 1	Response - BP Medication and Treatment Algorithms	Jim Keller, Angelique Rettig, Felicia Fitzgerald, Deena Layton, Roma Allen
September 26 12:30 – 1:30 pm	September 7	Response - Timing of Delivery	Jim Keller, Deena Layton, Sue Fulara
 October 24 12:30 – 1:30 pm	October 3	Response - Patient Education/Engagement and Postpartum Follow-up	Angelique Rettig, Debbie Schy, Roma Allen

Maripat Zeschke and Carol Burke representing HTN Leadership across teams

Planning Future HTN Team Calls



- Maximizing utility of the Key Driver Diagram (Revised KDD in the following slide)
- Focus calls from Nov/Dec 2016 - June 2017 on QI tools to implement Key Driver Diagram Interventions:
 - 20 minutes – Reviewing collaborative data relevant to monthly call topic, general initiative announcements
 - 20 minutes – QI focused discussion of Key Driver Diagram Interventions including tips and examples on each call related to provider engagement and QI tools
 - 20 minutes – team talks recruited based on QI topic
 - Pull teams from posters at annual conference, OB Teams Survey, QI topic calls

Proposed Future Call Schedule and Topics



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, protocols, 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, assessment, 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 within 10 days</u> for all women with severe hypertension and 72 hours for all women on medications
May	Anticipate Face –to – face meeting

REVISED - Key Driver Diagram: Maternal Hypertension Initiative

GOAL: To reduce preeclampsia maternal morbidity in Illinois hospitals

Key Drivers

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

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

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

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

Interventions

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

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

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

- ❑ Establish a system to perform regular debriefs after all new onset severe maternal hypertension cases
- ❑ Establish a process in your hospital to perform multidisciplinary systems-level reviews 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)

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

HTN Toolkit Binder

- HTN Toolkit Binder resources on this clinical education topic:
 - Under Tab 7 in the Binder (or click hyperlinks below):
 - Algorithms for Treatment
 - [ACOG DII \(New York\) Algorithm for Postpartum Education](#)
 - Under Tab 6 in the binder (or click hyperlinks below):
 - Patient Communication & Education
 - [CMQCC Prenatal and Postpartum Patient Counseling or Education](#)
 - [ACOG DII \(New York\) Preeclampsia Patient Education Handout](#)
 - [FPQC Sample Discharge Instructions](#)
 - [Preeclampsia Foundation Patient Tear Pad](#)
- All resources available on [ILPQC Maternal Hypertension page](#)

HTN Initiative: MOC Part IV Credits



- Annual offering - team lead and physician attestations are due to us by **December 1 for 2016 participation**
- Team lead and physician attestations required
- Attestations collected via survey monkey tool found here:
<https://www.surveymonkey.com/r/ILPQCmoc>
- Attestations include:
 - Description of physician's meaningful participation during the initiative
 - Physician's name, hospital, role on the quality improvement team, and at least 2 examples of the physician's meaningful contribution to the initiative

HTN Initiative: MOC Part IV Credits



- ILPQC will submit list of participating physicians to ABOG for physicians with **BOTH** Hospital and Physician Attestations completed
- Within 1 month of receiving list from ILPQC, ABOG will send physicians email requesting: Completion of 4 simple questions in portal within 30 days
- Document outlining process will be distributed in biweekly newsletter and posted to the website
- Jazzmin Cooper, ILPQC Intern, will be available to take questions during breaks and lunch at the registration desk at the Annual Conference!

Annual Conference

Registration
Potential Diaper Drive

ILPQC 4th Annual Conference



- Looking forward to seeing everyone on 11/3 at the Westin in Lombard!
- Shannon Lightner, Welcome
- Registration closed
 - 324 registrants as of 10/20
- Poster session
 - 40 posters submitted total
 - 31 posters reviewed for excellence (met early deadline)

ILPQC 4th Annual Conference: Diaper Drive



- ILPQC approached to host a diaper drive at the Annual Conference – more details coming soon!
- IL Baby Diaper Facts
 - <http://nationaldiaperbanknetwork.org/wp-content/uploads/2015/11/State-Baby-Facts-Illinois.pdf>
- Diapers would be distributed to diaper banks located across the state
 - Champaign
 - Chicago
 - Evanston
 - Galesburg
 - Gifford
 - Gurnee
 - McHenry
 - Peoria
 - Quincy
 - Springfield
 - Tinley Park
 - Wauconda
 - Waukegan

Response

Preeclampsia Patient Education, Engagement, & Postpartum Follow-up



Preeclampsia Patient Education, Engagement and Postpartum Follow-up

October 24, 2016

Roma Allen, MSN, DNPc, RNC-OB

Carol Burke MSN, APRN

Jean Goodman, MD, MFM

Angelique Rettig, MD, OB-GYN

Debbie Schy, MSN, APN/CNS, RNC-OB, RNC-EFM, IBCLC, LCCE

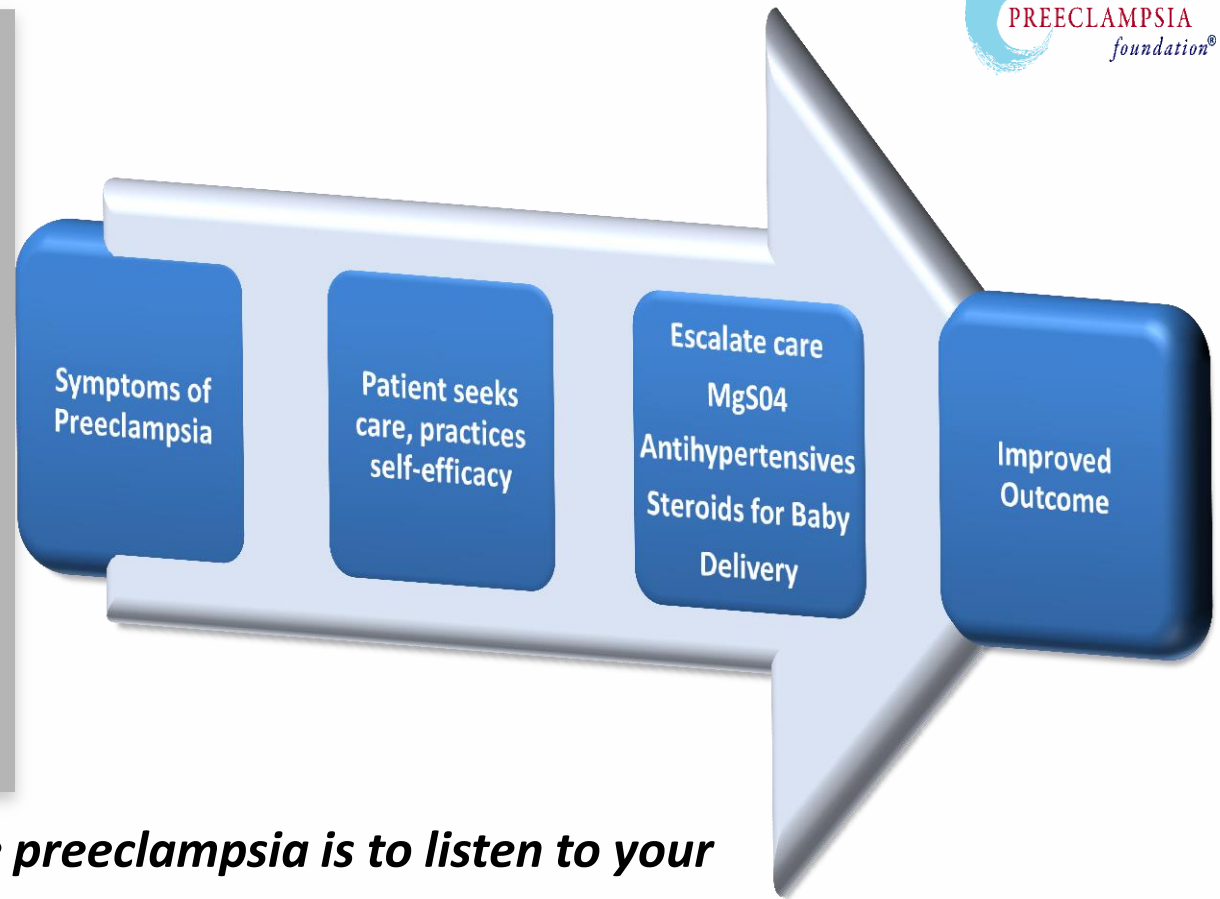
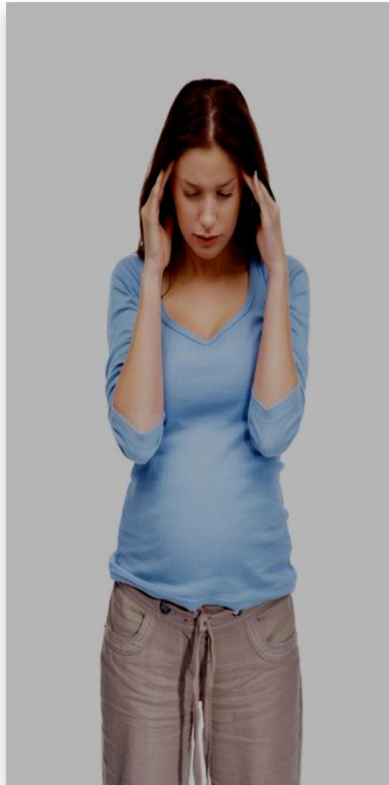


Goal of patient education



Increase reporting and early access to care for patients experiencing symptoms of preeclampsia by increasing their knowledge through standard patient education materials that provide information on the signs, symptoms and treatment of preeclampsia.

Maternal Recognition Improves Outcomes



“The best way to diagnose preeclampsia is to listen to your patients.”

~ Dr. Baha Sibai

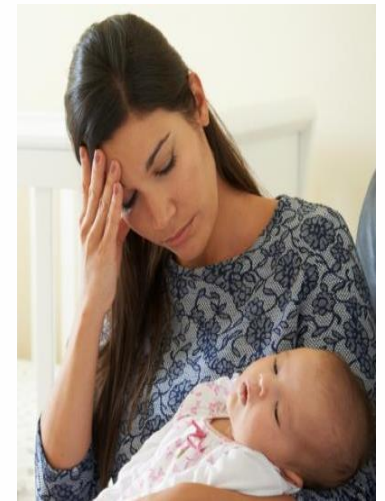
WHY IS PATIENT EDUCATION NEEDED?

Pre-eclampsia is a global health problem, which complicates 2–8% of all pregnancies and contributes to 15% of preterm births and 9–26% of maternal deaths worldwide

(World Health Organization (WHO), 2005; Duley, 2009; Steegers et al, 2010)

Postpartum presentation of severe hypertension and preeclampsia

- 75% of deaths due to severe hypertensive disorders of pregnancy occur after delivery
- 41% of all deaths due to preeclampsia/eclampsia occur after 2 days
- 55% had not been diagnosed with preeclampsia in the antepartum or peripartum period



(Alliance for Innovation on Maternal Health, 2016)

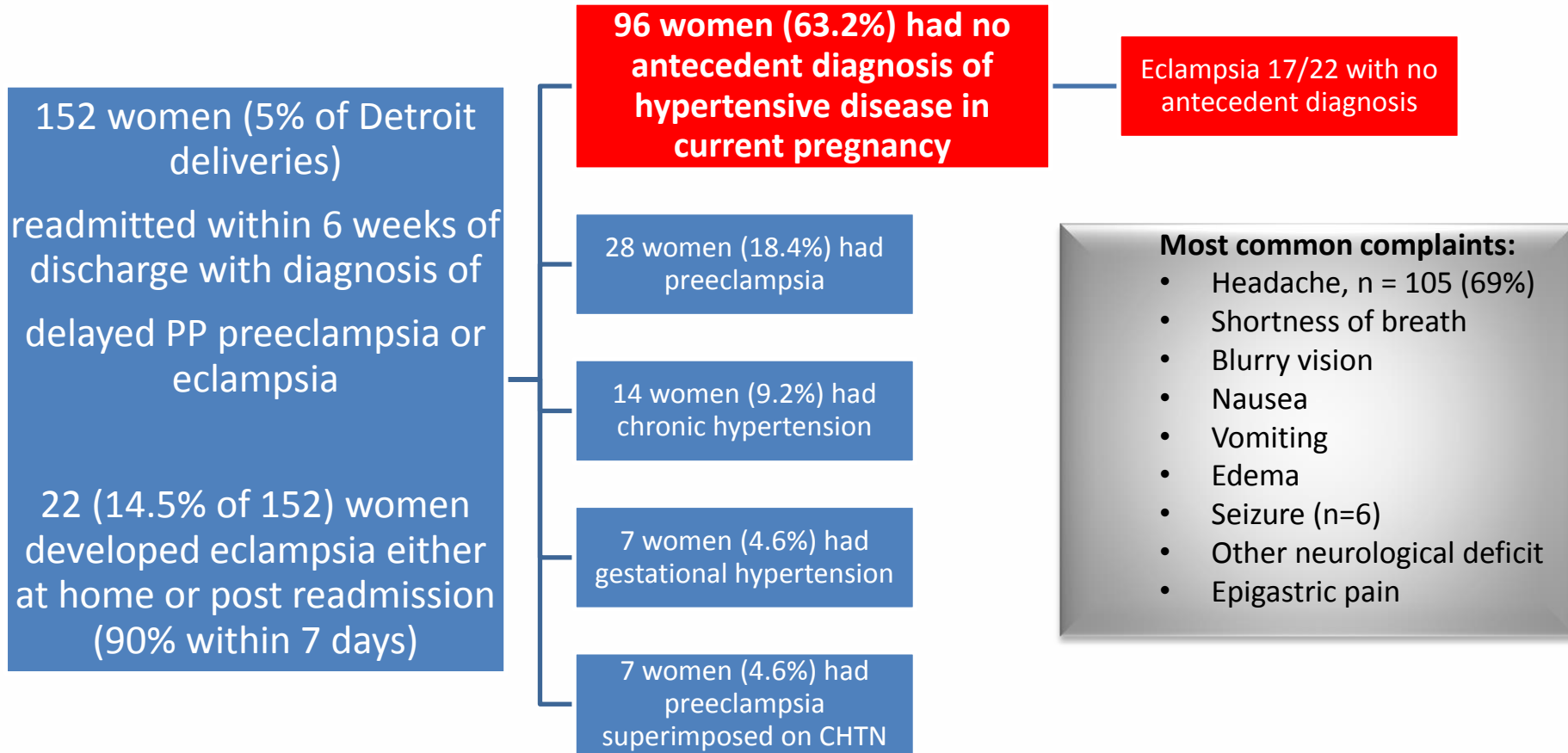
Do PNC providers discuss preeclampsia with their patients?

- Preeclampsia Foundation study of 754 women (51% reporting some form of hypertensive condition during pregnancy) primarily visitors to the preeclampsia foundation website
 - 40% PNC provider definitely described preeclampsia
 - 54% fully understood the explanation
 - 37% understood most of the explanation
 - 15% understood some or did not remember
 - 35% definitely not given information
 - 16% did not remember Wallis, 2013

Late postpartum eclampsia can be prevented through patient education and improved healthcare response (Chames,2002)

A study report of Delayed Postpartum Preeclampsia / Eclampsia

Detroit deliveries over a 6 ½ year period



Comparing Written vs. Verbal Methods of Patient Education on Preeclampsia: A Randomized Controlled Trial

Purpose of study:
What education method leads to superior understanding of information?

RCT study

- 120 women from university based clinic
- Randomized into 3 groups
- Given written or verbal information
- Interviewed for knowledge about preeclampsia
- 24 question survey (graphic card scored highest – 71%)
- Not given written information to keep
- 1-2 weeks later given same 24 question survey – best retention of knowledge was with the graphic card group (67%)
- Conclusion: simplicity of the message is more important and knowledge retained for a prolonged period of time



Graphic card

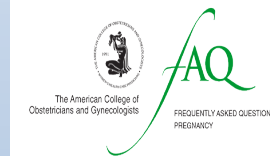
- Preeclampsia foundation
- Signs and symptoms of preeclampsia

ACOG pamphlet

- Given an informational pamphlet on preeclampsia

Routine prenatal care

- no visual form of patient education; exposed only to the counseling they receive with their routine prenatal care.



Comparing Different Methods of Patient Education on Preeclampsia: A Randomized Controlled Trial

Began recruiting May, 2016: National Institutes of Health Clinical Center ♦

Purpose of study:
What type of education is most effective?

RCT plan:

- Primigravida
- 18-24₆ weeks randomization
- Questionnaire on baseline preeclampsia knowledge, demographics, and patient anxiety before exposure to the educational interventions.
- 32-36₆ gestation: Complete a follow up preeclampsia knowledge survey to assess retention of knowledge.



Graphic card

- Signs and symptoms of preeclampsia
- Patients permitted to keep this card



Preeclampsia Foundation Video

- Shown an educational video on preeclampsia* (2 min/45 sec)



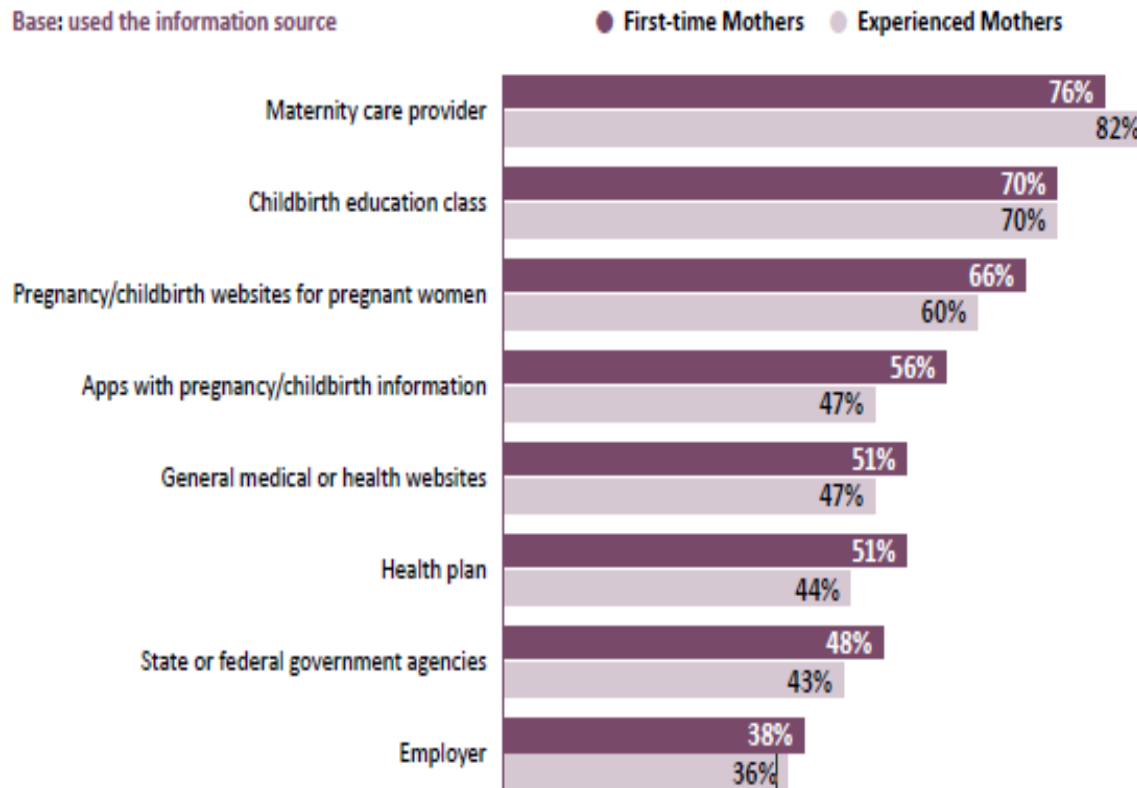
Routine prenatal care

- No visual form of patient education; exposed only to the counseling they receive with their routine prenatal care.

Sources of information about pregnancy and birth

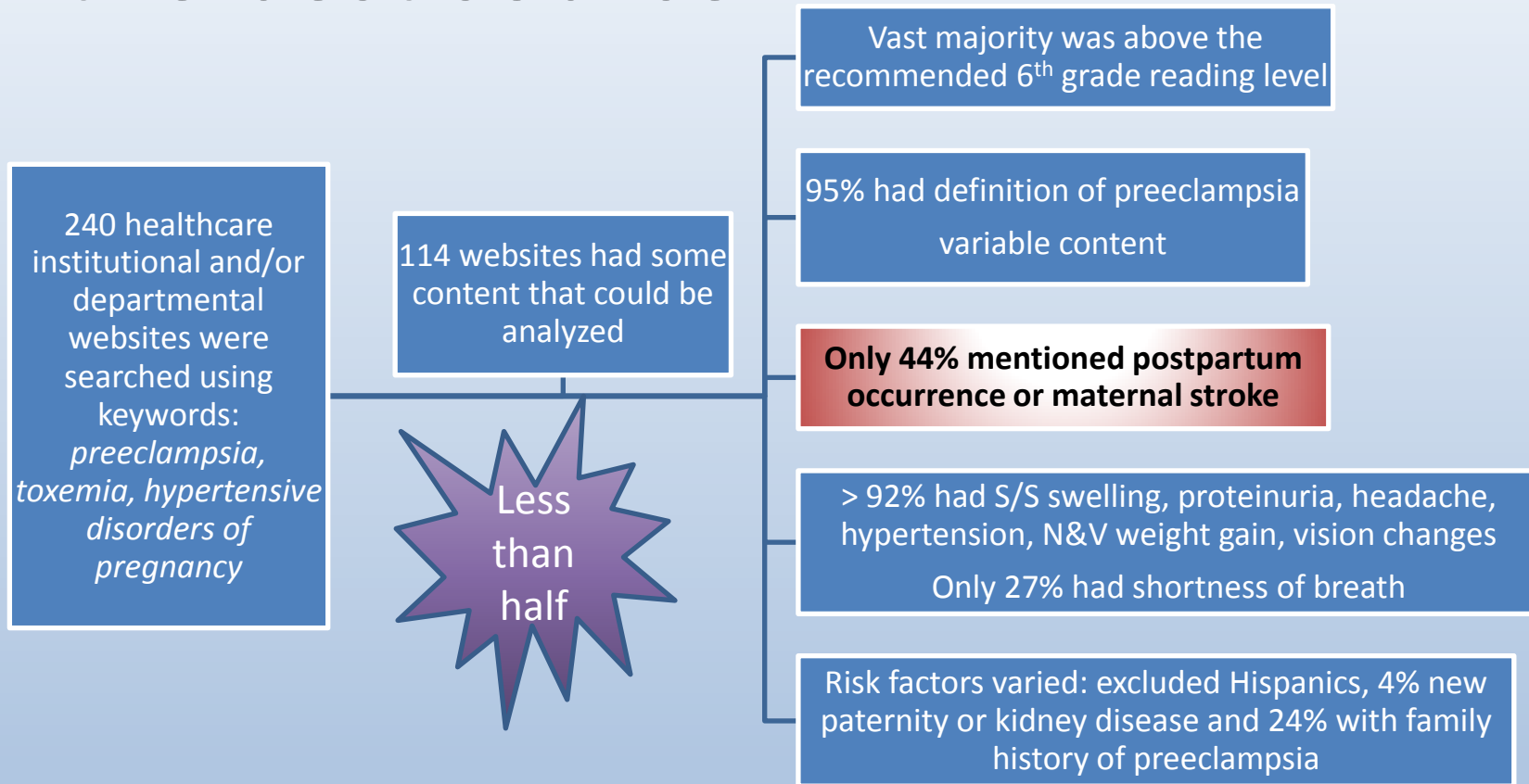
Listening to mothers survey, (Declercq, 2013)

Figure 4. Mothers' ratings of sources of pregnancy and childbirth information used during recent pregnancy as "very valuable," by childbearing experience



- 82% of women used the internet to gather information regarding pregnancy and childbirth between prenatal appointments
- Over 600 pregnancy and childbirth apps on iTunes – most are from unknown sources
- 53% of all mothers reported taking a childbirth education class at some point
- Some hospital systems and practices provide accurate information by creating apps of their own

Are hospital websites the best source?



Lange, et al. Readability, content and quality of online patient education materials on preeclampsia
Hypertension Pregnancy, 2015: 34(3) 383-390

AMA guidelines for health information on the internet



- Patient education material should be less than or equal to the 6th grade reading level
- Healthcare information needs to provide patients with the content that they need in order to make informed decisions about their health

Patient Education Materials

Ask Your Doctor or Midwife

Preeclampsia

What Is It?

Preeclampsia is a serious disease related to high blood pressure. It can happen to any pregnant woman.

Risks to You

- Seizures
- Stroke
- Organ damage
- Death

Risks to Your Baby

- Premature birth
- Death

Signs of Preeclampsia



Stomach pain



Headaches



Feeling nauseous;
throwing up



Seeing spots



Swelling in your
hands and face



Gaining more than
5 pounds in a week

What Should You Do?

Call your doctor right away. Finding preeclampsia early is important for you and your baby.

For more information go to www.preeclampsia.org

Copyright © 2010 Preeclampsia Foundation. All Rights Reserved.

Preeclampsia foundation . Graphics-based education tool is an effective means of providing patient education about preeclampsia and appears to be better (at least in the short term) to a ACOG informational pamphlet. You, et al, 2012.

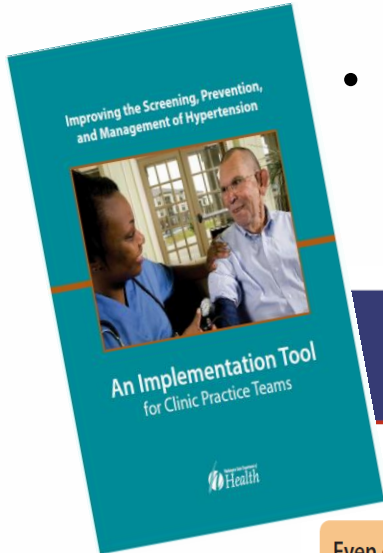
The patient education tool is written in Spanish on the other side.



“7 Symptoms Every Pregnant Woman Should Know” video available in English and Spanish on YouTube™

Washington state free resources

- <http://here.doh.wa.gov/search?SearchableText=hypertension>



What's the BIG DEAL about controlling my blood pressure ?

It changes make a HUGE difference:

Even one lifestyle change I make for my health ...

can decrease my blood pressure by small amounts

and **small** decreases in blood pressure result in **huge** health benefits.

Walking 30 minutes, five days a week

can decrease blood pressure **10 points**

Losing 5–10 lbs. of weight

can decrease blood pressure **5 points**

Quitting tobacco (call 1-800-QUITNOW)

can decrease blood pressure **5–10 points**

Limiting sodium (salt) to 1,500 mg. per day

can decrease blood pressure **2–8 points**

Every 5 points decrease in blood pressure reduces

- ♦ risk of stroke by **34%**
- ♦ risk of heart attack by **21%**

Every 3 points decrease in blood pressure reduces

- ♦ risk of stroke by **8%**
- ♦ risk of heart attack by **5%**

Training Kit - CD

This kit provides information necessary to evaluate, organize, and educate staff and patients on the accurate measurement of blood pressure for the adult patient.

It consists of a Training Guide, PowerPoint presentation, and training video, all packaged on a CD. The kit is available to any healthcare agency or medical professional and for training of healthcare staff.

Home Monitoring of B/P



Calibrate patient equipment for accuracy

Provide patient education that includes:

- Return demonstration of self B/P check
 - Placement
 - Positioning during reading
 - Time of day
- Documentation and reporting of home B/Ps
- Patient verbalizes signs and symptoms of preeclampsia

Key points



- ***THE PROBLEM IS NOT OVER WITH DELIVERY***
- Patient knowledge about preeclampsia may improve health outcomes
- Majority of women do not have antecedent diagnosis of preeclampsia
- ILPQC, based on ACOG Hypertension in Pregnancy document (2013) and CMQCC, recommends outpatient post-discharge follow-up:
 - within 3 days if discharged on medication
 - **within 10 days for all women with severe HTN**
- ED must have awareness and ‘go to the front of the line’ culture for women being pregnant or having delivered within 6 weeks with hypertension, symptoms of preeclampsia or eclampsia and assessed /admitted to an obstetrical service.
- Hospitals should look at internet resources / departmental pages and update using 6th grade reading level and appropriate content
- Advocacy organizations (Preeclampsia foundation) have a unique and powerful voice to advance the goals of the healthcare system.

Consideration for the ED

- Consider preeclampsia:
 - In any patient who presents with symptoms suggestive of severe disease regardless of blood pressure
 - In any patient with new blood pressure elevation, even when antepartum and intrapartum blood pressures were normal
- Obtain:
 - Blood work screening for HELLP syndrome and assess renal function
 - Obstetrical consultation
- Staff education
- Review checklist





**If you are currently
pregnant or have
been pregnant
within
the last 6 weeks,
please alert the staff
for prompt evaluation**

EMERGENCY DEPARTMENT

Postpartum Preeclampsia Checklist

IF PATIENT < 6 WEEKS POSTPARTUM WITH:

- BP \geq 160/110 or
 - BP \geq 140/90 with unremitting headache, visual disturbances, epigastric pain
- Call for Assistance
 - Designate:
 - Team leader
 - Checklist reader/recorder
 - Primary RN
 - Ensure side rails up
 - Call obstetric consult; Document call
 - Place IV; Draw preeclampsia labs
 - CBC Chemistry Panel
 - PT Uric Acid
 - PTT Hepatic Function
 - Fibrinogen Type and Screen
 - Administer seizure prophylaxis
 - Administer antihypertensive therapy
 - Contact MFM or Critical Care for refractory blood pressure
 - Consider indwelling urinary catheter
 - Maintain strict I&O - patient at risk for pulmonary edema
 - Brain imaging if unremitting headache or neurological symptoms

MAGNESIUM SULFATE

Contraindications: pulmonary edema, renal failure, myasthenia gravis

IV access:

- Load 4-6 grams 10% magnesium sulfate in 100 mL solution over 20 min
- Label magnesium sulfate; Connect to labeled infusion pump
- Magnesium sulfate maintenance 1-2 grams/hour

No IV access:

- 10 grams of 50% solution IM (5 g in each buttock)

ANTIHYPERTENSIVE MEDICATIONS

For SBP \geq 160 or DBP \geq 110

- Labetalol** (20 mg, 40, 80 IV* over 2 min, escalating doses, repeat q 10 min); Avoid in asthma or heart failure
- Hydralazine** (5-10 mg IV* over 2 min, repeat q 20 min until target BP reached)
- Oral Nifedipine** (10, 20, 40 mg capsules; repeat BP q 20 min until target BP reached); Capsules should be administered orally, not punctured or otherwise administered sublingually

* Maximum cumulative IV-administered doses should not exceed 220 mg labetalol or 25 mg hydralazine in 24 hours

Note: If first line agents unsuccessful, emergency consult with specialist (MFM, internal medicine, OB anesthesiology, critical care) is recommended

ANTICONVULSANT MEDICATIONS

For recurrent seizures or when magnesium sulfate contraindicated

- Lorazepam (Ativan):** 2-4 mg IV x 1, may repeat once after 10-15 min
- Diazepam (Vallium):** 5-10 mg IV q 5-10 min

Safe motherhood initiative
ACOG District II

Retrieved from

<https://www.acog.org/-/media/Districts/District-II/Public/SMI/v2/HTNPostpartumPreeclampsiaChecklist.pdf>

Consideration for the ED cont.

- For hypertensive emergency:
 - Threshold for stroke is lower
 - Prompt treatment for SBP > 155 - 160 mm Hg or DBP > 105 – 110 mm Hg
- If eclampsia:
 - May present as late as 6 weeks postpartum
 - May occur in the absence of antecedent hypertension
 - Bolus with magnesium sulfate per hospital protocol
 - Following bolus, evaluate for other causes of seizures



Long Term Implications



- Increased risk for development of cardiovascular and renal disease later in life
- 2 fold increased risk of long-term cardiovascular disease
- 5-12 fold increased risk of end-stage renal disease
- Based on low levels of evidence due to a lack of studies on screening and prevention in formerly preeclamptic women
- **EVERY WOMAN NEEDS EDUCATION**

Recommendation for Hospital Discharge Education

- **ALL WOMEN** should receive written discharge education
- Reference material available in multiple languages per patient population
- All women receive education on preeclampsia prenatally and upon discharge after childbirth such as:
 - Preeclampsia is a serious disease related to high blood pressure. It can happen to any pregnant woman during the second half of her pregnancy, or up to 6 weeks after delivery.
- Instructions to seek immediate medical attention for any of the following signs and symptoms
 - Headache
 - Visual changes
 - Nausea and vomiting
 - Abdominal pain
 - Shortness of breath
 - Edema
 - Sudden weight gain
 - “I just don’t feel right”



Considerations for Discharge Protocol to Improve Outcomes

- Report between nurse's when transferring patient to postpartum status includes identification as severe HTN
- Hard stop in EMR that prompts follow-up appointment within 10 days with OB provider if identified as having severe HTN during labor
- Automated instructions populate with discharge antihypertensive medication order for follow-up in 3 days with OB provider
- Assist patient in scheduling appointment prior to leaving hospital
- Have patient bring home B/P equipment to hospital prior to discharge to reinforce correct self monitoring of blood pressure
- Refer to written material for preeclampsia when performing discharge teaching with patient verbalizing signs and symptoms
- Organizations that conduct discharge follow-up phone calls include screening for S & S of preeclampsia
- Utilize lactation consultants as resources to screen patients for S &S and B/P when returning for outpatient appointments
- Create hard stops throughout the organization's EMR that questions the patient's OB history and prompts referrals to their OB provider

References

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Patient and Family Engagement



Engaging Patients and Families in
Conservative Management of
Preeclampsia (CMOP)



 PQCNC



How Can Patients and Families Contribute to Improvement Efforts?



Framework for PFE

Depth of Engagement	Roles for Patients and Families	Considerations
Ad Hoc Input	Survey or Focus Group Participants	Ensure diversity and representation, validity
Structured Consultation	Council Members or Advisors Providing Input	Early consult supports partnership model
Influence	Occasional Reviewers/Consultants to Project	Allows flexible ways to participate; requires background and orientation
Negotiation	Member of Improvement Team	Requires training in improvement
Delegation	Co-Chair of Improvement Team	High level of expertise or skill necessary
Advisor Control	Implementer or Peer Support Role	Strong training component, mentoring and compensation



The Role of Patients and Families in Quality Improvement

- Share personal stories, leading to a more focused commitment by improvement teams
- Identify pieces of the process that are confusing or missing from a patient/family perspective
- Participate in information/data gathering
- Discuss and analyze findings
- Assist in developing action plans and recommendations
- Contribute to the design and content of materials
- Provide objective feedback from the patient/family perspective
- Assist with piloting and testing new materials and processes and follow up with other patients/families to gather their opinions





PQCNC: CMOP Phase II Learning Session

Bedside Engagement

May 17, 2016

Our Story



Hypertensive Disorders of Pregnancy

Is breathing normally helpful? I think I held my breath a lot during BPs.



Is this the best heading for the goal of the handout? Should it say something more about obtaining an accurate blood pressure reading?

Is there a better picture available? One with a happy looking patient?

Your blood pressure will be monitored often during the next few hours, and the results will help plan your care. It's important that we get the most accurate readings possible. When your blood pressure is being taken, it is helpful that:

Are these bullet items in the best order from most important ?

- You are in a sitting or semi-reclining position.
- You sit quietly for 5 minutes before the first blood pressure is measured.
- Your arm is supported at heart level.
- Your legs are uncrossed.
- Talking and texting are avoided.
- Your arm remains as still as possible.

What if someone tells them to lay on the left hand side? Does that need to be addressed or specifically excluded?

Will staff give them 5 minutes of quiet time?

You are not talking or texting

Does it matter if BP is taken on the same side as the IV?

Extra words?

There may be times when your blood pressure will be measured, automatically, when your nurse or tech is not at the bedside. It's important to follow these helpful hints during those times, too. Also, keeping the lights in your room dim, and avoiding extra stimulation will help you rest.

in the room with you.

- Keep the lights dim.
- Avoid extra stimulation.

Is there an elegant way to say.... have stressful people that might elevate your BP step outside when a reading is taken?

Will this intentionally be highlighted in yellow?

Is it really ok?

Your monitor knows when your blood pressure is too high, and an alarm will sound in your room. It's ok if you hear this. It's helping keep you and your baby safe. Please, call your nurse to let her know so that she can confirm your blood pressure reading, and answer any questions that you might have.

She will

- Call your nurse for alarms.
- Ask any questions.

the blood pressure monitor is alarming.

if the blood pressure monitor alarms.

manually (not sure if that word is valuable in this sentence).

I always had high BP when the person taking my BP would talk to me. Not that everyone is like I am, but is it helpful if the person taking the BP doesn't talk to the patient? Also, seems like I recall the room should be fairly quiet so the person taking the BP could hear whatever it is you guys listen for. :)

Blood Pressure Control Tips



Your blood pressure (BP) will be monitored often, and the results will help plan your care. It's important that we get the most accurate readings possible. When your BP is being taken, it is helpful that:

- You sit quietly for 5 minutes before the first BP is measured.
- You are in a sitting or semi-reclining position (lying on your side, in between BP readings, is also good for your baby).
- Your arm is supported at heart level.
- Your legs are uncrossed.
- Your arm remains as still as possible.
- You are not talking or texting.
- You breathe regularly.

There will be times when your BP is measured and your nurse is not in the room with you. It's important to follow these helpful hints during those times, too. Also, keeping the lights in your room dim, and avoiding extra stimulation, or stressful situations will help you rest.

- Keep the lights dim.
- Avoid extra stimulation.

Your monitor knows when your BP is too high, and an alarm will sound in your room. It's ok if you hear this. It's helping keep you and your baby safe. Please, call your nurse to let her know that the BP monitor is alarming. She will confirm your BP reading, and answer any questions that you might have.

- Call your nurse for alarms.
- Ask any questions.

BP Control Tips: Patient Feedback Survey

1. Did your nurse talk through the “Blood Pressure Control Tips” sheet with you?

- Yes
- No

2. Before being introduced to the information, how much do you feel you knew about blood pressure control?

- A lot
- Some
- Very Little
- Nothing at All

3. Was the information easy to understand?

- Yes
- No

4. Would you use the information shared to help you ask questions and/or call your nurse when a high blood pressure alarms sounds?

- Yes
- No

5. As a patient, how do you experience the tone of this material?

- Cold and Official
- Warm and Friendly
- Just the Facts
- Welcoming my Partnership, knowledge, and concerns

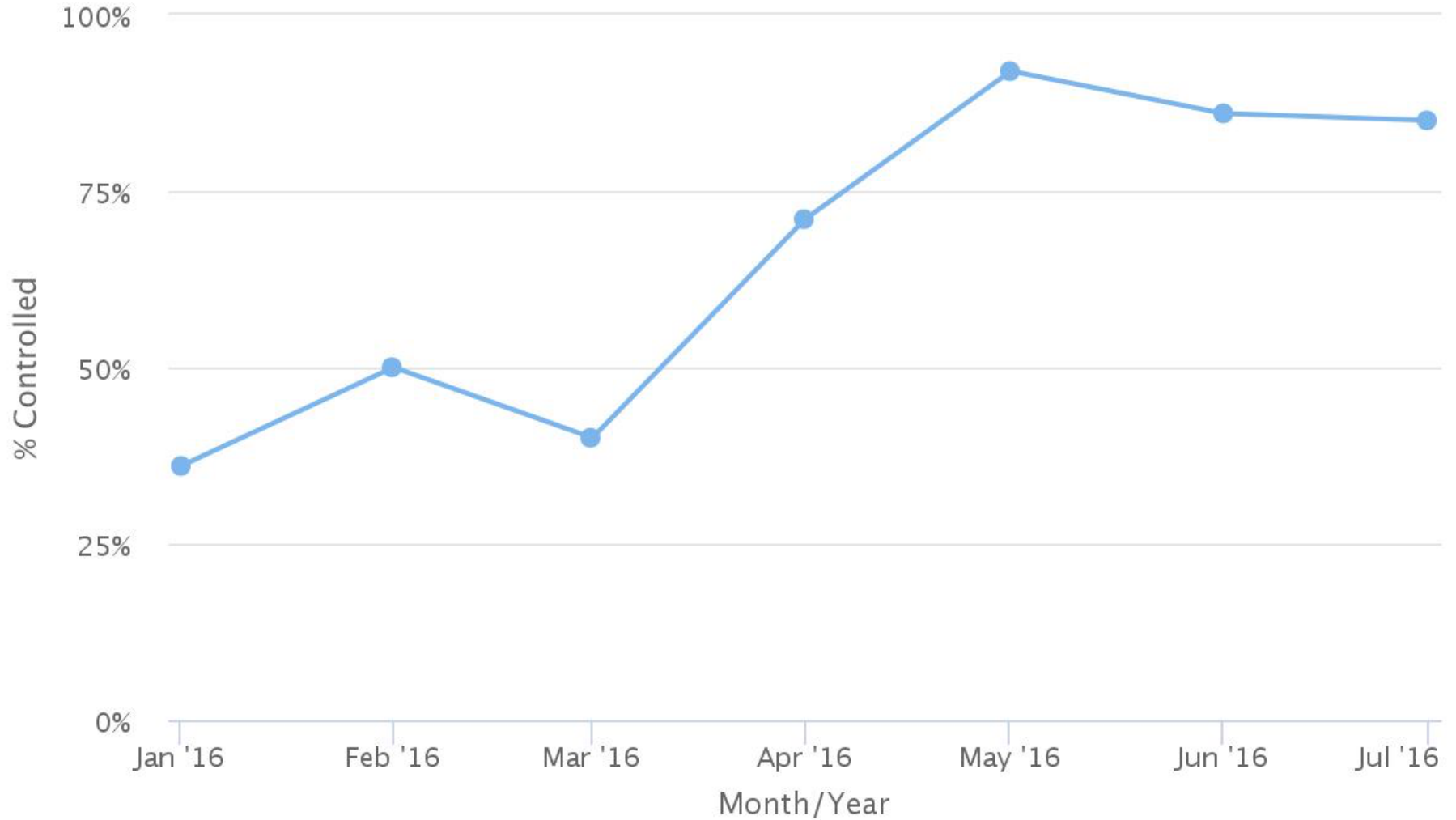
6. Please share how the tone could be changed to make your feel more comfortable

7. What additional information should be added to the teaching sheet?

Thank you for participating in our survey. Your feedback is important.

SBP > 160 or DBP > 110 Controlled Percentage

Starting: 2016-01-01; Ending: 2016-07-01



Highcharts.com

**TELL ME
AND I FORGET
TEACH ME
AND I REMEMBER
INVOLVE ME
AND I LEARN**

BENJAMIN FRANKLIN

Why Patient Family Education Matters to Me

{ Katie Drew, Patient Partner to Cone Women's
Health



Expectations vs. Reality



Reported to OBGYN on April 7th, 2014 with:

- Extremely high BP
- Headaches
- Severe Nausea
- Fatigue

& Admitted same day for an
11 day stay at Women's
& 7 days in Antepartum
& 1 day in the ICU after
delivery
& 3 days PostpartumC

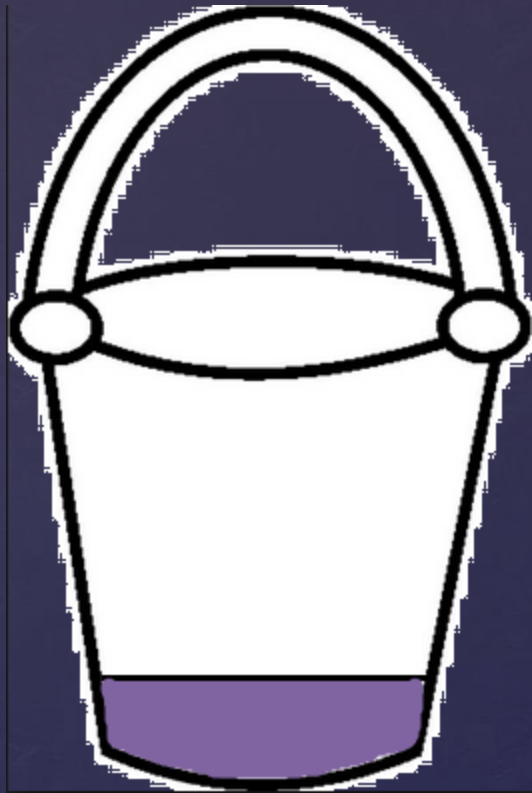


From the day I
was discharged...



to today, 2
years later!





& What I knew before
and during my stay



& What I know now

Goals of CMOP

& Proper Diagnosis

& Proper Management

& Proper Discharge

Secondary Aim	Primary Drivers	Secondary Drivers
1 Proper Diagnosis	<p>1.1 Accurate measurement of blood pressure in all patients diagnosed with preeclampsia</p> <p>1.2 Proper definition of hypertensive disorders</p> <p>1.3 Early ID of severe features</p>	<p>1.1.1 Proper placement, proper cuff size</p> <p>1.1.2 Each L&D develops appropriate education to ensure staff competency</p> <p>1.1.3 Annual competency assessment</p> <p>1.2.1 Use and Incorporate ACOG Position paper into hospital policy for defining hypertensive disorders of pregnancy (5 ACOG Diagnoses) (see CMOP Action Plan Appendix)</p> <p>1.2.2 Each L&D develops appropriate education to ensure staff competency</p> <p>1.3.1 Adoption of preeclampsia early recognition tool (PERT) or equivalent tool (see CMOP Action Plan Appendix)</p> <p>1.3.2 Each L&D develops appropriate education to ensure staff competency and family understanding (e.g., use of the Preeclampsia Foundation Signs and Symptoms Information Sheet and ACOG Key Components of Effective Health Communication and Patient Education(see CMOP Action Plan Appendix)</p>

Proposed Resources



Why did I just receive shots of antenatal corticosteroid treatment, or ACT?

- You were considered a candidate for these shots because your doctor thinks you're likely to have your baby early, before 34 weeks of pregnancy.
- ACT helps speed up your baby's lung development before birth, and also helps reduce his or her chances of certain health problems after birth, including breathing or stomach problems and bleeding in the brain.
- Since you may have your baby soon, you were given ACT because it can help your baby be healthier, even if he or she comes early.



Ask your healthcare provider to fill in information about the kind of ACT you got.

Your Name: _____
 OB Provider's Name: _____
 Intended Birth Hospital: _____
 Estimated Date of Delivery: _____
 Cesarean Section / Yes / No STCHPC Vaginal Prostaglandin

Date			
Gestational Age			
Diagnosis/Reason for Visit			
ACT Type:	<input type="checkbox"/> Betamethasone	<input type="checkbox"/> Dexamethasone	
Dose One Date:		Dose One Time:	
Dose Two Date:		Dose Two Time:	
Cervical Exam (dilatation)			
Cervical Length (cm)			
PPV: (+ or -)			
Group B Strep: (+ or -)			

Tip: Take a photo of this handout with your phone in case you lose it!



Preeclampsia Information for Discharge

You may have already heard during your stay that preeclampsia is a serious disease related to high blood pressure. It can happen to any pregnant woman, and in some cases, symptoms do not appear until after delivery. You and your support persons should watch for the symptoms below, and use the chart on this handout to help you determine if it's time to call your doctor.

Symptoms include:

- ✓ Stomach Pain
- ✓ Feeling nauseous; throwing up
- ✓ Headaches
- ✓ Seeing Spots
- ✓ Swelling in your hands and/or face
- ✓ Gaining more than 5 pounds in a week



Preeclampsia Zones Graphic

If you experience any of the symptoms above in the YELLOW zone, call your doctor.

Name of Obstetrician/OB/GYN Practice: _____

Phone Number during Business Hours: _____

Phone Number After Hours: _____

If you experience any of the symptoms above in the RED zone, go to your delivery hospital right away!

Name and Address of Delivery Hospital: _____

Using SBAR to Introduce Yourself to Care Providers

Your care providers during your time at Cone Health Women's Hospital use a variety of tools to keep you safe and comfortable during your time with us. One of the most helpful is communication, and your participation in keeping us informed is key! A technique called SBAR can empower you to provide your care providers with the information they need to take the best possible care of you during your stay.

Any time you're in contact with one of our care providers and need to bring them up to speed, be prepared with the following information:

S - Situation

What brought you in today?

B - Background

What should our staff know about you to make sure we recommend the appropriate treatment and actions?

A - Assessment

Have any tests, such as blood pressure or urinalysis, already been done? Share the results if you have them.

R - Request (or Recommendation)

This is where you ask for help! If you, your OB/GYN, or your support persons have concerns or questions about next steps, bring them up now.



An example of using SBAR to introduce yourself to a care provider on the antenatal unit might be:

S - "Hi Doctor, my name is Lucy Ricardo. I'm 33 weeks pregnant with little Ricky, and my husband, Ricky Ricardo, brought me in this morning with severe headaches, dizziness, blurry vision, and very swollen hands and feet."

B - "I'm 36 and have pre-existing high blood pressure, so this was already a high risk pregnancy. I've been eating right, exercising, and resting but my stress level remains high and these physical symptoms started around 2 weeks ago. They've just been getting worse no matter what I do. I finally decided we should come see you."

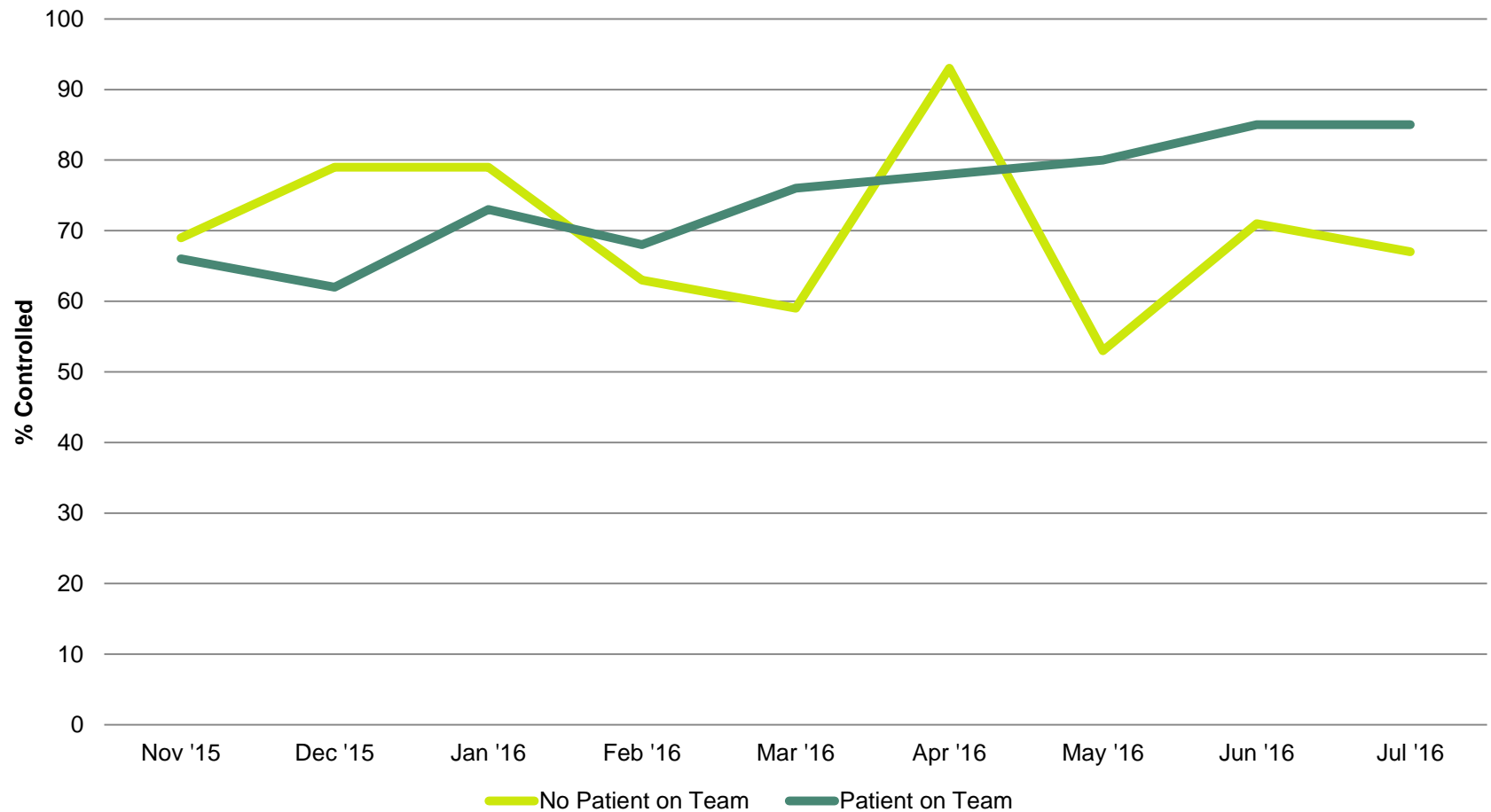
A - "I had my blood pressure checked at the OB/GYN, and it was 146/123. They also said there was some protein in my urine. The headaches aren't responding to Tylenol. I've taken 2 every 4-6 hours since noon yesterday, and my pain is still at 5 out of 10."

R - "The OB/GYN mentioned these could be signs of preeclampsia. Can you help us?"

All information you can provide is helpful to your care providers, and we want to help you maximize the "face time" you get with us throughout your stay. These tools may also be helpful with other care providers in the future after discharge. Thank you for helping us help you!



Percentage of Patients with SBP >160 or DBP >110 Controlled within One Hour





Framework for PFE

Depth of Engagement	Roles for Patients and Families	Considerations
Ad Hoc Input	Survey or Focus Group Participants	Ensure diversity and representation, validity
Structured Consultation	Council Members or Advisors Providing Input	Early consult supports partnership model
Influence	Occasional Reviewers/Consultants to Project	Allows flexible ways to participate; requires background and orientation
Negotiation	Member of Improvement Team	Requires training in improvement
Delegation	Co-Chair of Improvement Team	High level of expertise or skill necessary
Advisor Control	Implementer or Peer Support Role	Strong training component, mentoring and compensation



Orientation to the Improvement Team

Topic	Description
History of the Team	<ul style="list-style-type: none">• Purpose• Accomplishments• Barriers• Background
Goals and Objectives	<ul style="list-style-type: none">• Progress• Measures of Success• Priorities• Strategic Objectives
Team Composition	<ul style="list-style-type: none">• Roster and Background of Members• Roles and Responsibilities
Clinical Background Materials	<ul style="list-style-type: none">• Current Research• Relevant Policies and Protocols



Orientation to the Improvement Team, cont'd

Topic	Considerations
Training in Improvement Science	<ul style="list-style-type: none">• How is staff trained in improvement methodology?• Is the existing training an option for patient/family advisors? If not, what resources are available for new patient/family advisors?
Organization-Specific Improvement Methods	<ul style="list-style-type: none">• What methodology does the organization use for improvement (e.g., Lean, Six Sigma, PDSA)?• Is there consistency in methodology across departments, or are different groups using different strategies and tools?
Mentorship	<ul style="list-style-type: none">• Who can serve as a patient and family advisor mentor (e.g., other advisors or hospital employees)?



What can Clinical Leaders do?

1. Create ways to allocate time for staff to work on fulfilling the role
 - Provide “class-time” or “education time” on each schedule (2-4 hours per pay period, per month)
 - Pro-actively pull staff off schedule during low census times
 - Clinical ladder credit
2. Identify 2 staff members instead of 1
 - Allows more flexibility in schedules
 - Increases opportunity for meeting times with patient advocate
 - Provides peer support and enables patient to foster relationships with more staff members
3. Structure staff meetings with work accomplished by dyad on every agenda
 - Promotes the importance of the work to all staff
 - Begins to change the culture by consistently introducing the new member of the health care team
4. Consider utilizing existing patient liaisons in your facility



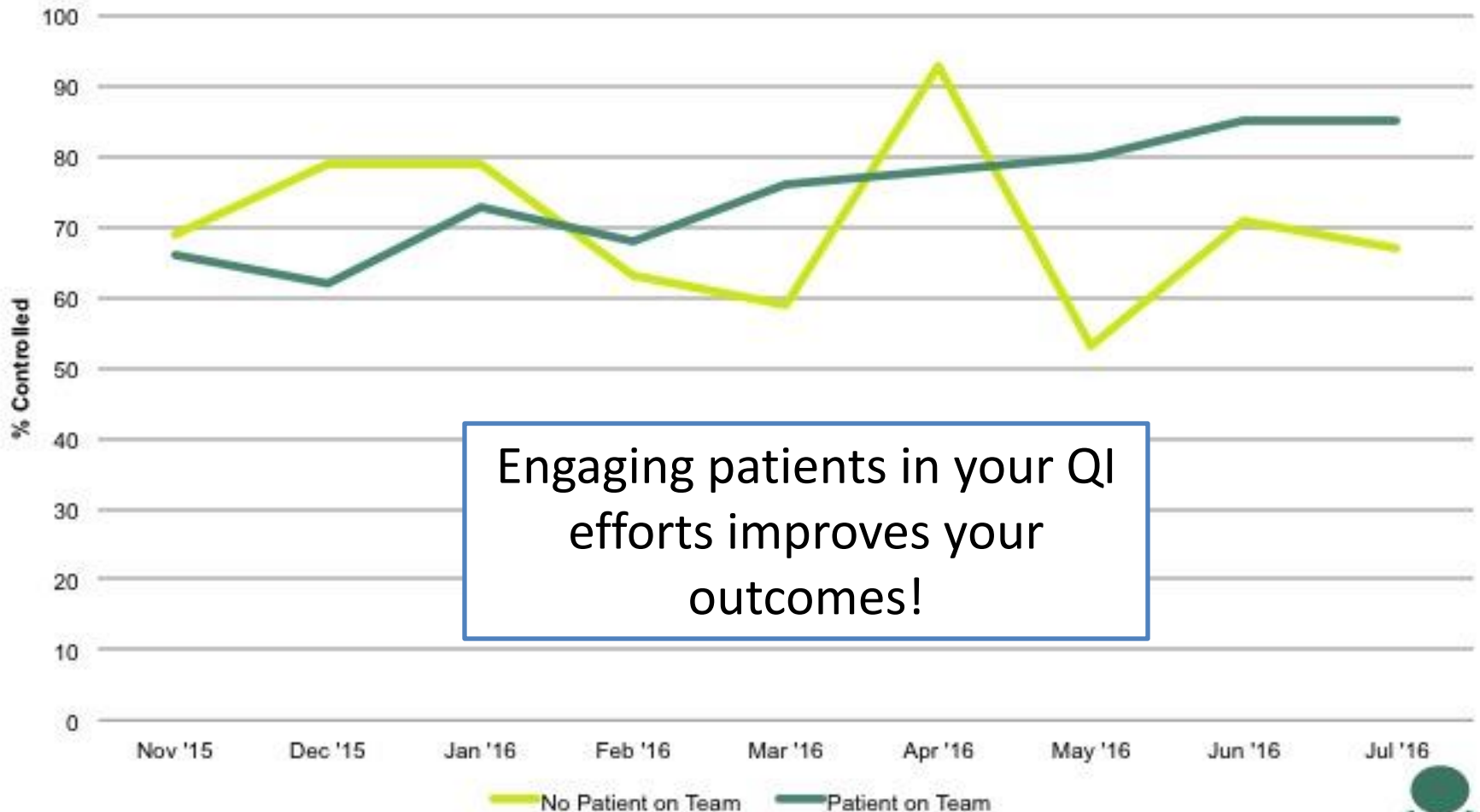


For further resources, support, or if you have questions or suggestions, contact:

Tara Bristol Rouse, MA
Director of Patient and Family Partnerships
Perinatal Quality Collaborative of North Carolina
Tara.Bristol@pqcnc.org



Percentage of Patients with SBP >160 or DBP >110 Controlled within One Hour



Engaging patients in your QI efforts improves your outcomes!



Team Talks

- Silver Cross Hospital
 - Marilyn Paoella BSN, RNC, E-EFM
- St. John's Hospital
 - Chris Lopian BSN, RNC-OB, C-EFM

SILVER CROSS HOSPITAL

ILPQC Team
Talk
October 2016

SILVER CROSS HOSPITAL

- Moved from Joliet to New Lenox in 2012.
- Level 2-E with approximately 2,900 births this year.
- Started severe hypertension journey to improve care in 2013.



■ In 2013:

- No standard order set for severe hypertension.
- Housewide RRT, hemorrhage RRT, but no specific RRT for L&D.
- First dose meds in pyxis.
- Only debriefed very complex cases.
- Although we had numerous quality measures, no standard chart review for time to treatment for severe hypertension.
- NO ER involvement.



ACTION PLAN 2013-2014

- Developed standard order set for severe hypertension. (Amended it this year to add Nifedipine oral dose). Physician must come to hospital when initially implemented.
- Developed RRT for L&D specifically to address implementation of severe hypertension order set, and inclusion of in-house obstetrician.
- Increases amount of medication on over-ride in unit based pyxis, both Labetalol and Hydralazine.
- Changed ER policies so that any postpartum hypertension is a “stat back”, ER administers the first dose of anti-hypertensive while simultaneously calling L&D and in-house OB physician.
- Education on correct way to take BP.
- Chart review but no goals set.

CHANGES & CHALLENGES IN 2016

- Started chart review for time to treatment. Opportunity found for patients admitted to OB triage, time lost moving patient to L&D prior to first dose. Also found opportunity on M/B with understanding the criteria for implementing standard order set and creating sense of urgency.
- Added Cerner charting field for debrief discussion, as there was no place in chart to ascertain if debrief actually occurred.
- Sent certified letter to all physicians practicing at SCH regarding severe hypertension project, time to treatment measure, debrief, and requirements for follow up care.
- Any misses in time to treatment are reviewed by committee (including department chair) for opportunities. We use a log book in L&D for staff to place stickers, and follow that up with a pharmacy report for medication usage on our floor. ED uses a log book, but all of those patients eventually come up to OB and are counted and reviewed.
- Need to implement plan / do /check / act cycle for follow up care appointments for severe hypertensives, especially if BP stabilized quickly on M/B.

ILPQC Hypertension Initiative 2016

HSHS ST. JOHN'S HOSPITAL



An Affiliate of St. John's Hospital





Level III Perinatal Center

- Serving 37-area counties
- 24/7 in-house Perinatal & Neonatal Services
- 200 deliveries monthly
- 12 LDR rooms
- 14 PP rooms
- 12 Ante partum rooms

PURPOSE OF HTN INITIATIVE

AIM: To reduce the rate of severe maternal mortality and morbidity in pregnancy and post-partum patients with pre-eclampsia, eclampsia, CHTN, GHTN, or superimposed pre-eclampsia by 20% by the end of 2017.

TEAM BUILDING

HSHS ST. JOHN'S TEAM

- Physician Lead- Dr. Angelique Rettig, OBGYN
- OB Physician Champion- Dr. Robert Abrams, Perinatal Medical Director
- Team Lead- Christine Lopian, BSN, RNC-OB-C-EFM
- Quality Lead- Kathy Nein, Birth Center System Analyst
- Other team members
 - Kathy Chepulis- Quality Management Dept.
 - Brandi Strader-Pharmacy Clinical Manager
 - Dr. Elizabeth Unal, Maternal Fetal Medicine

DATA COLLECTION PROCESS

- Retrospective chart review and data collection (Oct. 2015-February 2016)
- Education of the ILPQC HTN Initiative and bedside HTN data collection tool with staff
- Implementation of bedside HTN data collection tool and placed at all nurses desk in RED folders (March 2016)
- Folder with charge nurses to log pt. stickers who present with severe hypertension
- Daily admission log audit by Quality Lead (Kathy Nein)
- Bi-monthly pharmacy reports on pts. receiving Mag sulfate, Labetalol, Hydralazine, and Procardia in OB, ICU, and ED
- Monthly ICD-10 coding reports on pts. with hypertension

Barriers to Data Collection (Initial)

- ED participation
- Staff buy-in to complete data forms
- Pharmacy reports lengthy and time consuming
- ICD-10 reports not inclusive
- Debriefing issues, team uncomfortable with process
- Pt. inclusion unclear to staff
- Not all unit PYXIS loaded with HTN meds

Successes (Current)

- Daily admission log review helpful
- Added HTN meds to ALL PYXIS on unit
- All HTN meds removable on override from PYXIS
- Education on HTN data collection process and ILPQC initiative included in daily nursing huddle
- One-on-One staff education
- ED sending/notifying OB dept. of all pregnant or PP pts. (PP within 6 wks.)
- ICD-10 reports more inclusive with Pre-eclampsia/HTN diagnosis

Data excerpts for HSHS St. John's Hospital
January 2016- Current date- August 2016



2016 SJS Data Summary

70% population with severe range BP's are white in their 20's and 250+lbs. 41% of the patients were between 35-37 wks. gestation. Of those patients that were preterm, <36 weeks, 79% received antenatal corticosteroids prior to delivery. Severe range BP's occurred during the Post Partum period 22% of the time and occurred around 5-6 post delivery. 67% of the pts. discharged to home on BP meds **DID NOT** have a F/U appt. within 3 days but did have education on taking BP's at home with parameters to call. 1 week was average follow up timeframe at discharge. Earlier follow up in the office should be occurring.

Debriefs between nursing and physicians continues to be a challenge to complete. Nurses state they “don’t feel comfortable with the process of debriefing” and the physicians think they are questioning them. This is just a practice change for nursing that is becoming more important to become comfortable due to the increasing level of acuity of our patient population. SJS is doing well with identifying and treating severe range BP’s within 30 minutes compared to 6months ago when the average was 60-90 minutes.

Identifying Patient/Family Advisors for the QI Team



- Developed tool to help staff/providers engage patient/family members in discussion about working in QI available in download box
- Last chance today to invite patient/family team member to attend ILPQC Annual Conference ***for free*** on November 3rd – **contact Kate to facilitate free registration**
- One Pager on the value of patient/family engagement posted to front page of ILPQC website!

HTN Initiative Next Steps

- ABOG Part IV MOC attestations are due from **both the physician and team lead by December 1 for 2016 participation – please share with physicians!**
- Data past and upcoming due dates:
 - Severe HTN Data Form
 - September data was due October 15th
 - October data is due November 15th
 - AIM Quarterly Measures
 - 2016 Q3 (July - September) was due October 15th
 - 2016 Q4 (October – December) is due January 15th
 - Quarterly Implementation Checklist
 - 2016 Q3 (July - September) was due October 15th
 - 2016 Q4 (October – December) is due January 15th
- Last teams call of 2016 will be December 19th from 12:30 – 1:30 pm (merging November/December calls)
- 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

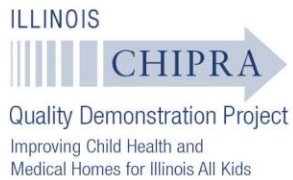


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