

# Systematic Review: Peripartum and Postpartum Management of Women with Hypertensive Disorders of Pregnancy

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A PCORI Virtual Multi-Stakeholder Workshop

November 2, 2021

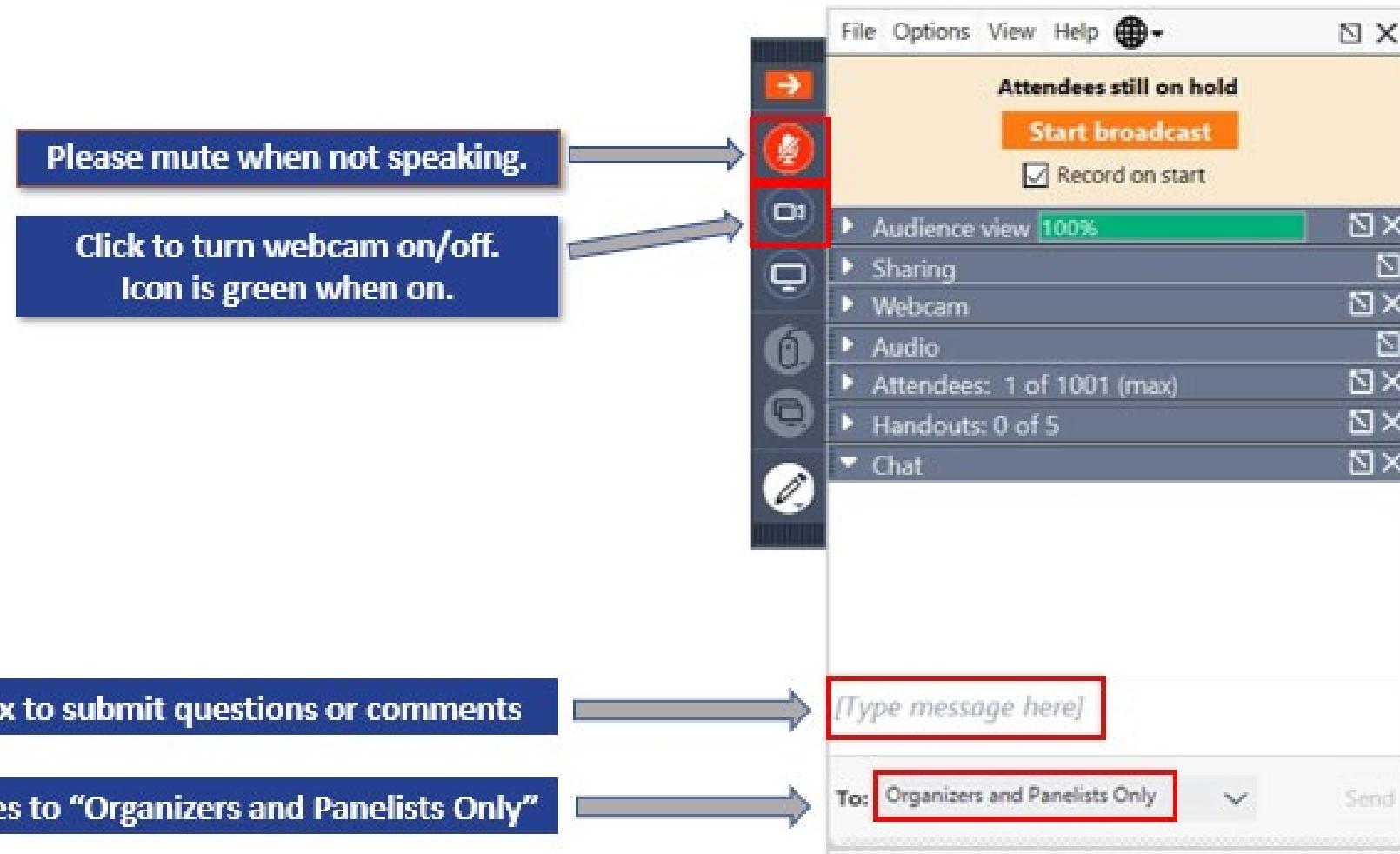
# This Webinar Is Being Recorded



Please note that this webinar is being recorded and will be posted to PCORI's website.



# GoToWebinar Housekeeping – Panelists



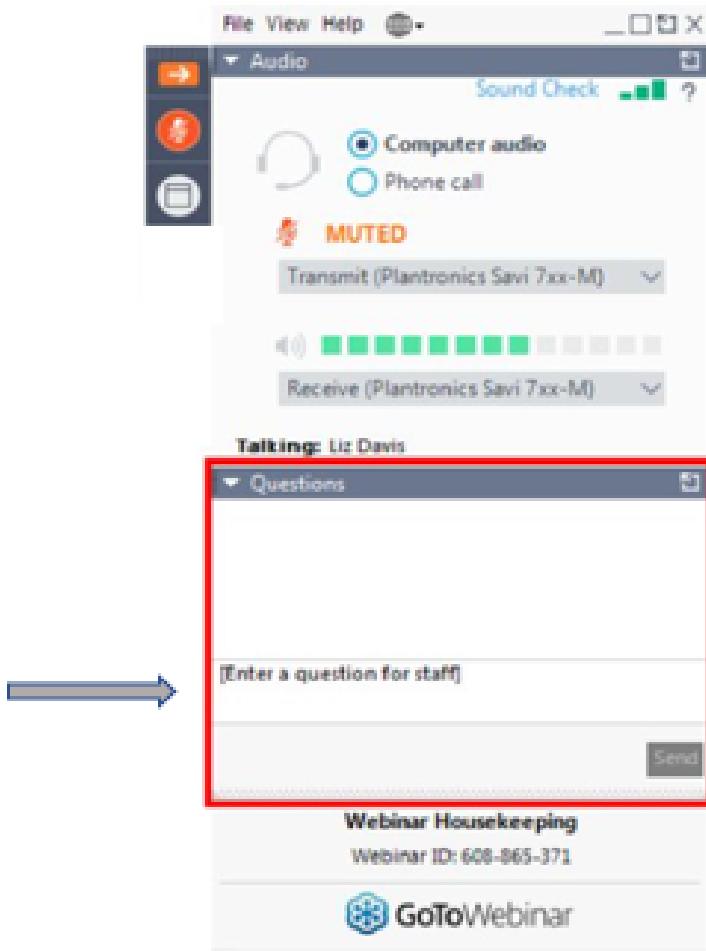
# GoToWebinar Housekeeping – Attendees



For attendees:

- To submit any questions or comments to PCORI, please use the **questions** box.

Submit questions or  
comments



# Welcome

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And thank you for  
participating!



# Agenda



3:30 PM	WELCOME AND INTRODUCTIONS
3:35 PM	BACKGROUND AND YOUR PERSPECTIVE
3:45 PM	PREPARED COMMENTS
4:00 PM	MODERATED DISCUSSION
4:20 PM	SUMMARY AND CLOSING REMARKS
4:30 PM	ADJOURN

# Introductions

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# Introductions



## PCORI Representatives:

- Bill Lawrence, MD, MS, Senior Clinical Advisor, Engagement, Office of the Chief Engagement and Dissemination Officer
- Jennie Dalton, MPH, Program Officer, Research Synthesis and New Technology
- Sangeeta Suku, MPH, Program Associate, Engagement Awards

# In Collaboration with AHRQ and ACOG



**Agency for Healthcare Research and Quality (AHRQ)**

David Niebuhr, MD, MPH, MSc  
Task Order Officer



Agency for Healthcare  
Research and Quality

**The American College of Obstetricians and Gynecologists (ACOG)**



PCORI helps people make informed healthcare decisions, and improves healthcare delivery and outcomes, by producing and promoting high-integrity, evidence-based information that comes from **research guided by patients, caregivers, and the broader healthcare community.**

## Our Strategic Goals:

-  Increase quantity, quality, and timeliness of useful, trustworthy research information available to support health decisions
-  Speed the implementation and use of patient-centered outcomes research evidence
-  Influence research funded by others to be more patient-centered

# Participating Organizations



Alliance of Community Health Plans

University of North Carolina

Baylor College of Medicine

University of Pennsylvania Perelman School of Medicine

Brigham and Women's Hospital

University of Pittsburgh School of Medicine

Institute for Medicaid Innovation

WomenHeart

Johns Hopkins Hospital

Lets Talk PPCM

# Background and Your Perspective

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# Background



PCORI is partnering with the **Agency for Healthcare Research and Quality (AHRQ)** to develop a systematic evidence review on Managing Peripartum and Postpartum Hypertensive Disorders of Pregnancy, a topic nominated by the **American College of Obstetricians and Gynecologists (ACOG)**.

## Goals

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Support the possible development of an evidence-based guideline

Summarize existing research to support parents and clinicians in treatment decisions

Identify key areas for future clinical studies

# What is a systematic review?



- A systematic review is a way to summarize what existing research says about a given topic.
- They are conducted using rigorous methods.
- The results can have many potential uses:
  - Informing clinical guidelines
  - Helping patients and clinicians with treatment decisions
  - Identifying areas for future research
  - Support policy initiatives

# Your Perspective



A systematic review is a powerful tool. We want it to be as useful as possible to patients, caregivers, clinicians, and decision makers.

**We need your personal and professional expertise to do this.**

# Proposed Systematic Review Questions

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# Key Question 1 and PICOTS



What are the effectiveness and harms of monitoring/telemonitoring interventions for the management of postpartum women who experienced hypertensive disorders of pregnancy? Do the effectiveness and harms vary by disease severity?

**For all key questions**, how do the findings vary by race and/or ethnicity?

- **Population:** Postpartum women with HDP or at high risk of HDP
- **Interventions:** Telemonitoring of blood pressure; self- or text-based monitoring
- **Comparators:** Standard of care, comparative effectiveness of different interventions, no intervention
- **Outcomes:** Maternal health outcomes, maternal experience, resource utilization, infant outcomes, harms

\*The official draft Key Questions, PICOTS, and analytic framework are posted on AHRQ's website:  
<https://effectivehealthcare.ahrq.gov/products/hypertensive-disorders-pregnancy/draft-comments>

# Key Question 2 and PICOTS



What are the effectiveness, comparative effectiveness and harms of medical management of postpartum women with hypertensive disorders of pregnancy?

**For all key questions**, how do the findings vary by race and/or ethnicity?

- **Population:** Postpartum women with HDP or at high risk of HDP
- **Interventions:** Medical management of hypertension including different classes of antihypertensive medications and uterine curettage
- **Comparators:** Standard of care, comparative effectiveness of different interventions, no intervention
- **Outcomes:** Maternal health outcomes, maternal experience, resource utilization, infant outcomes, harms

\*The official draft Key Questions, PICOTS, and analytic framework are posted on AHRQ's website:  
<https://effectivehealthcare.ahrq.gov/products/hypertensive-disorders-pregnancy/draft-comments>

# Key Question 3 and PICOTS



What is the optimal treatment regimen of magnesium sulfate for peripartum and postpartum women with preeclampsia with severe features? Are there harms associated with the use of any particular anti-hypertensive medications and the administration of magnesium sulfate?

**For all key questions**, how do the findings vary by race and/or ethnicity?

- **Population:** Peripartum women with preeclampsia with severe features
- **Interventions:** Peripartum administration of magnesium sulfate
- **Comparators:** Different magnesium sulfate administration strategies
- **Outcomes:** Seizures, flushing, time to ambulation and lactation, harms

\*The official draft Key Questions, PICOTS, and analytic framework are posted on AHRQ's website:  
<https://effectivehealthcare.ahrq.gov/products/hypertensive-disorders-pregnancy/draft-comments>

# Prepared Comments

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# Order of Prepared Comments Representative & Organization



Andrea Shields, M.D., M.S.

*Representing the American College of Obstetricians and Gynecologists (ACOG)  
Visiting Associate Professor, Obstetrics & Gynecology, UCONN Health*

Ann Celi, M.D., M.P.H.

*Associate Physician, Brigham and Women's Hospital  
Assistant Professor, Harvard Medical School*

# Why we should care about postpartum cardiometabolic health

Ann C. Celi MD, MPH  
Assistant Professor of Medicine, Harvard Medical School  
Division of General Medicine and Primary Care, BWH

PCORI/AHRQ/ACOG Systematic Review November 2, 2021

*Caring for Women After Hypertensive  
Pregnancies and Beyond: Implementation  
and Integration of a Postpartum Transition  
Clinic*

**Ann C. Celi, Ellen W. Seely, Penny  
Wang, Ann M. Thomas & Louise  
E. Wilkins-Haug**

Maternal and Child Health Journal  
ISSN 1081-772X  
Matern Child Health J  
ISSN 1081-772X (electronic)



 Springer

# BWH Cardiometabolic Clinic in Maternal Fetal Medicine

Clinical Care for Postpartum women with  
complex hypertensive pregnancies

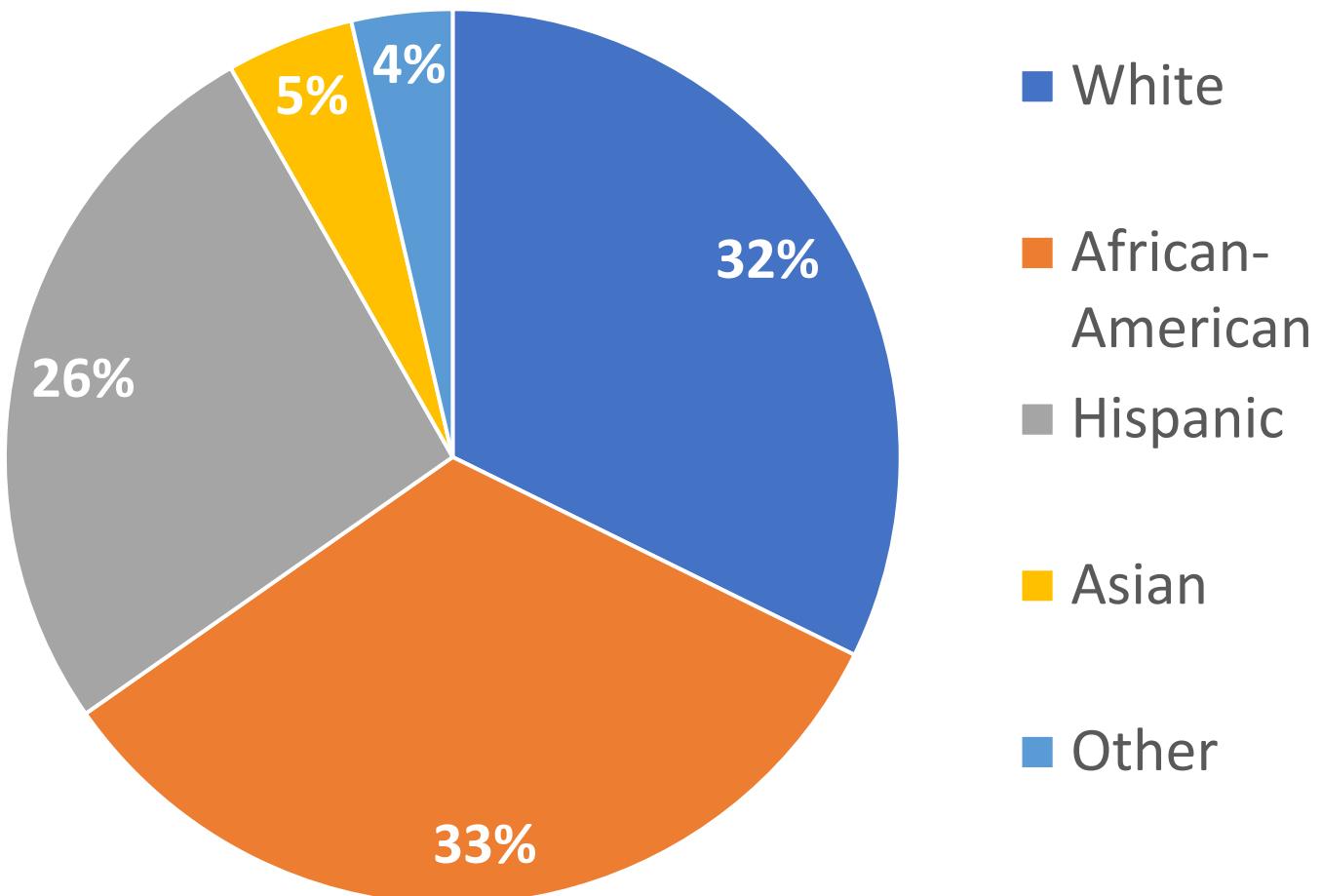
started October 2011

Interdisciplinary collaborative effort  
Departments of Medicine and OBGYN

# BWH Cardiometabolic Clinic Design

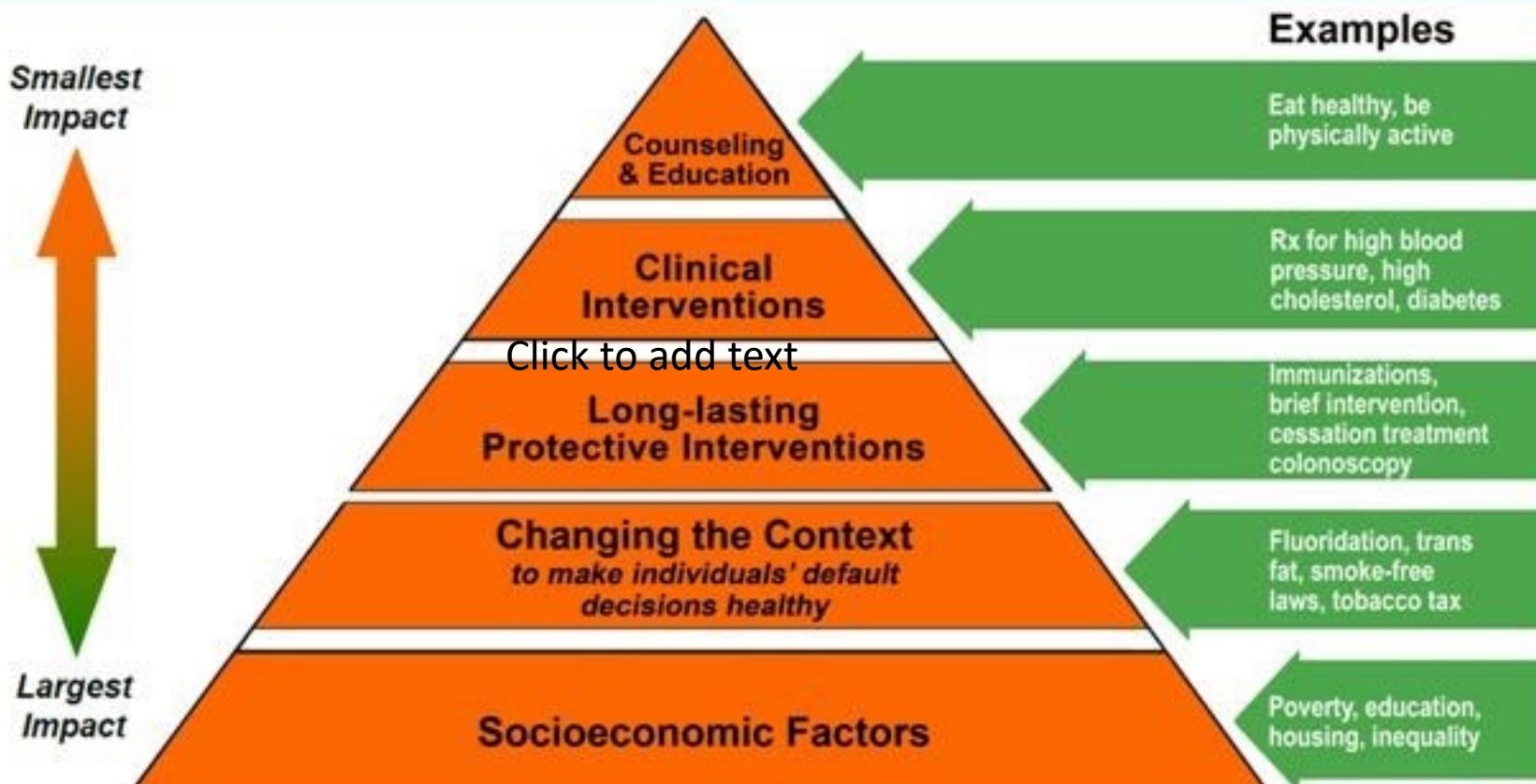
- early postpartum hypertension medical management addressing lactation concerns
- patient and provider education around cardiovascular risk
- clinical bridge with primary obstetric and medicine providers
- sustainable clinical model reimbursed by private and public insurances
- Clinical tools and innovations to improve care [www.preeclampsia.org/blood-pressure](http://www.preeclampsia.org/blood-pressure)

# Patient Race/Ethnicity



# CDC Health Impact Pyramid

## Factors that Affect Health



Check the Tarrant County Public Health Web site to learn more.  
<http://health.tarrantcounty.com>



# Special considerations after hypertensive pregnancy

- Mood and emotional well-being- warn about PTSD, treat anxiety
- Infant care and feeding- medications, milk supply issues
- Sexuality contraception and birth spacing- address CVD risk LARC
- Sleep and fatigue- **PRIORITY**
- Physical recovery from birth- acknowledge, address, refer PRN
- Chronic disease management- PCP and specialist collaboration
- Health Maintenance- identify needs and address
- Social determinants – medical home, community, resources

# Moderated Discussion

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## Quick reminders:

- Please use the chat box to submit questions or comments.
- If you are called upon to speak, please introduce yourself first.



# Population



- Do these key questions capture the most crucial issues for patients and providers when dealing with hypertensive disorders of pregnancy in the peripartum and postpartum periods? Are there important issues overlooked or neglected by these questions?
- How do inequities and disparities affect women's experiences in postpartum and in the management of women with HDP?

# Treatments



- How do patients feel about telemonitoring as an alternative to usual care or as a supplement?
- What are clinician and patient preferences for monitoring and treating postpartum hypertension? Are there women who aren't good candidates for telemonitoring or particular treatments?
- What concerns do women and care providers have about the effects of different anti-hypertensive medications on breastfeeding outcomes and possible effects on the infant?

# Outcomes and Trade-offs



- How do patients and clinicians measure the success of treatment differently? Which outcomes are most important to the patients? Clinicians?
- How do patients and clinicians balance potential harms and benefits when weighing monitoring, prevention and treatment options?

# Summary and Closing Remarks

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# Additional input



- We are leaving the chat feature open for a few extra minutes after the call for any additional thoughts or comments that you may want to contribute.
- We also welcome any future thoughts and comments. Please send them by November 9<sup>th</sup>, 2021, via email to Sangeeta Suku at [ssuku@pcori.org](mailto:ssuku@pcori.org).
- Opportunity to provide public comment on draft report in early fall of 2022. PCORI will email webinar attendees when it is posted.

# Contact Information



**Sangeeta Suku, MPH, Program Associate**



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# Thank you!

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