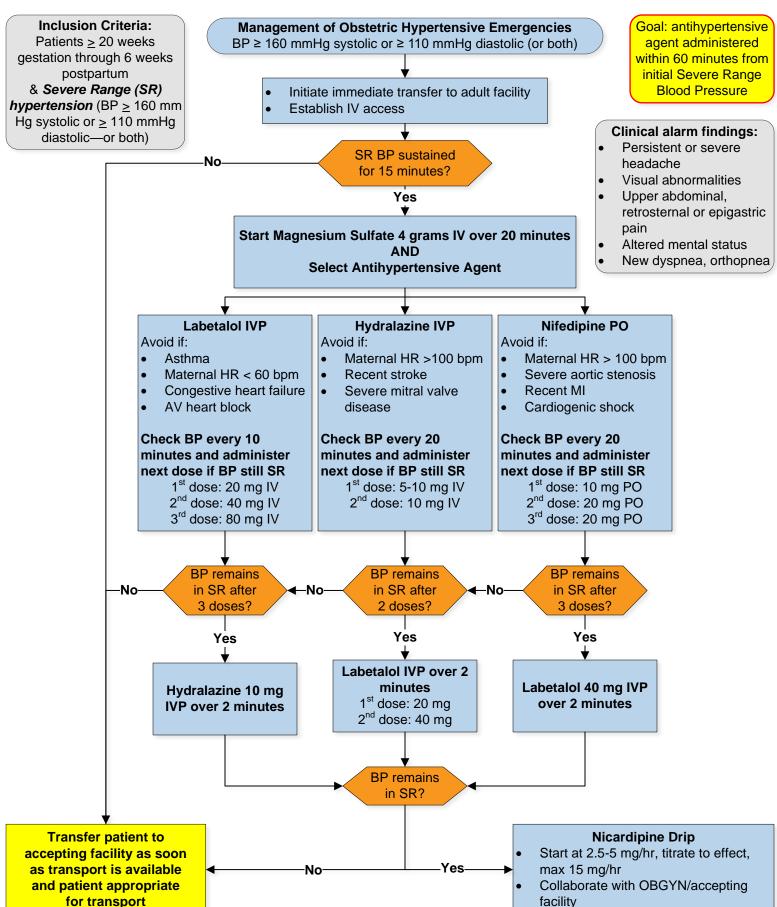


Obstetric Hypertensive Emergency

Emergency Department & Inpatient

Center for Clinical Excellence



Inclusion & Exclusion Criteria

Inclusion Criteria

• Patients ≥ 20 weeks gestational age through 6 weeks postpartum & Severe Range (SR) hypertension

Exclusion Criteria

Hypertension not related to pregnancy or postpartum condition

Definition & Clinical Signs

Severe Range Hypertension

• BP ≥ 160 mmHg systolic or ≥ 110 mmHg diastolic, or both

Clinical Alarm Findings

- Persistent or severe headache
- Visual Abnormalities
- Upper abdominal, retrosternal or epigastric pain
- Altered mental status
- New dyspnea, orthopnea

Severity Assessment

- Initiate treatment if SR BP persistent for 15 minutes
- Continue with plans for immediate transfer to adult facility even if BP not in SR for 15 minutes

Escalation of Care & Transfer

- Seizure
 - Antihypertensive medication
 - o Magnesium sulfate is the antiseizure medication of choice
 - Contact NCH OBGYN service and / or discuss with receiving adult facility
- Transfer
 - Transfer to accepting facility as soon as transport is available and patient ready for transport

Goals

- Timely recognition of severe range BP in pregnant and postpartum females and initiation of appropriate treatment
- Goal = antihypertensive agent administered within 60 minutes from initial severe range blood pressure

Key References

- Lortz H, Hale S, Engel C, et al. Medication Management for Patients with Severe Range Hypertension – Clinical Guideline. Ohio State University Wexner Medical Center.
- ACOG New York District II. Safe Motherhood Initiative ACOG New York District II
 Maternal Safety Bundle for Severe Hypertension in Pregnancy. American College of
 Obstetricians and Gynecologists; January 2020. Available from: https://www.acog.org/
 community/districts-and-sections/district-ii/programs-and-resources/safe-motherhoodinitiative/severe-hypertension
- ACOG Committee Opinion No. 767: Emergent Therapy for Acute-Onset, Severe Hypertension During Pregnancy and the Postpartum Period. *Obstet Gynecol.* 2019 Feb;133(2):e174-e180. doi: 10.1097/AOG.000000000003075. PMID: 30575639.
- Barton JR. Hypertension in pregnancy. Ann Emerg Med. 2008 Mar;51(3 Suppl):S16-7.
 doi: 10.1016/j.annemergmed.2007.11.007. Epub 2008 Jan 11. PMID: 18191290.
- Trioano N, Witcher P, McMurtry Baird S. High-risk & Critical Care Obstetrics. 4th ed. Philadelphia, PA: Wolters Kluwer; 2013.
- Shekhar S, Sharma C, Thakur S, Verma S. Oral nifedipine or intravenous labetalol for hypertensive emergency in pregnancy: a randomized controlled trial. *Obstet Gynecol*. 2013 Nov;122(5):1057-1063. doi: 10.1097/AOG.0b013e3182a9ea68. PMID: 24104790.
- Vadhera R, Simon M. Hypertensive Emergencies in Pregnancy. Clin Obstet Gynecol. 2014;57(4):797-805.

Quality Measures

- Time from recognition of sustained SR hypertension to administration of antihypertensive medication
- Time from recognition of SR hypertension to transport to adult facility

Clinical Support Tools

- Epic Order Set: ED Obstetric Hypertensive Emergency Clinical Pathway
- Epic Code/Rapid Response Code Narrator

Pathway Team & Process

Content Development Team:

Leader:

Emergency Medicine:

Berkeley L. Bennett, MD, MS

Members:

Emergency Medicine:

Michael Stoner, MD Emile ElShammaa, MD Jennifer Mitzman MD

Fetal Services:

Mickey Johnson MHA, RN

Oluseyi Ogunleye, MD

Gynecology:

Geri Hewitt, MD

Pharmacy:

Kimberly Jones, PharmD

Clinical Pathways Program:

Medical Director – Emergency Medicine:

Berkeley Bennett, MD, MS

Medical Director – Clinical Informatics & Emergency Medicine:

Laura Rust, MD, MPH

Physician Informatics:

Kathy Nuss, MD

Business & Development Manager:

Rekha Voruganti, MBOE, LSSBB

Program Coordinator:

Tahje Brown, MBA

Clinical Pathway Approved:

Medical Director - Associate Chief Quality Officer, Center for

Clinical Excellence:

Ryan Bode, MD, MBOE

Origination Date: *December, 2021*Last Revision Date: *June, 2025*Next Revision Date: *June, 2028*

Clinical Pathway Development

This clinical pathway was developed using the process described in the NCH Clinical Pathway Development Manual Version 6, 2022. Clinical Pathways at Nationwide Children's Hospital (NCH) are standards which provide general guidance to clinicians. Patient choice, clinician judgment, and other relevant factors in diagnosing and treating patients remain central to the selection of diagnostic tests and therapy. The ordering provider assumes all risks associates with care decisions. NCH assumes no responsibility for any adverse consequences, errors, or omissions that may arise from the use or reliance on these guidelines. NCH's clinical pathways are reviewed periodically for consistency with new evidence; however, new developments may not be represented, and NCH makes no guarantees, representations, or warranties with respect to the information provided in this clinical pathway.

Copyright © 2023. Nationwide Children's Hospital. All rights reserved. No part of this document may be reproduced, displayed, modified, or distributed in any form without the express written permission of Nationwide Children's Hospital.

For more information about our pathways and program please contact: ClinicalPathways@NationwideChildrens.org