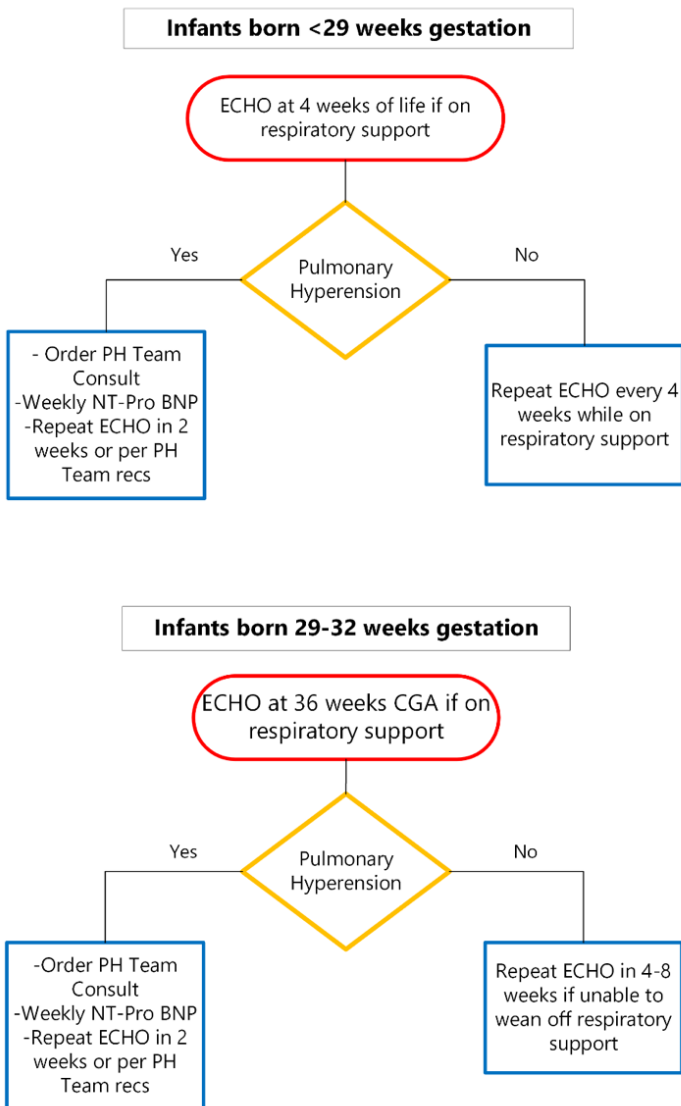


Pulmonary Hypertension (PH) Screening Guidelines for NICU infants with Bronchopulmonary Dysplasia (BPD)

BPD-PH Screening Algorithm



BPD-PH Screening Guidelines:

Criteria for BPD-PH Screening:

- For infants born <29 weeks gestation, ECHO at 4 weeks of life if on respiratory support.
- For infants born between 29 and 32 weeks gestation, ECHO at 36 weeks CGA if infant on respiratory support (O2 and/or flow).

Ordering a BPD-PH ECHO:

- Schedule all BPD-PH screening ECHOs for Tuesdays
- In comments, provide a brief patient description and include dot phrase .PHECHOINDICATION
- Notify Lindsey Scott-Hurban, NNP via Secure Chat or Tiger Text when ordering BPD-PH screening ECHOs. Once PH Team is involved, notify Brian Goudy, MD for all ECHO orders.
- List Brian Goudy, MD as the Cardiologist Consulted.

ECHO findings of PH:

- Estimated RV pressure \geq 50% of systemic pressure
- Intracardiac shunt with bidirectional or R to L flow (PDA, ASD/PFO, VSD)
 - Moderate to Severe IVS flattening
 - Mild IVS flattening with additional PH findings
 - PAAT:RVET ratio <0.3
 - Abnormal TASPE

If there is evidence of pulmonary hypertension on ECHO, notify Brian Goudy, MD and place a formal Pediatric Pulmonary Hypertension consult.

Discharge Considerations:

- For infants discharging home on O2 support with no evidence of PH on inpatient ECHO, recommend repeating the ECHO at 4-6 months of life if unable to wean off O2 support.

BPD-PH Screening Guidelines

Criteria for BPD-PH Screening:

- Infants born less than 29 weeks gestation, obtain the first BPD-PH screening ECHO at 4 weeks of life if infant remains on respiratory support.
- Infants born between 29 and 32 weeks gestation, obtain a BPD-PH screening ECHO at 36 weeks CGA if infant remains on respiratory support.

Ordering BPD-PH Screening ECHOs:

- Schedule all BPD-PH screening ECHOs for Tuesdays.
- In the ECHO comments, provide a brief description of the patient and include the dot phrase .PHECHOINDICATION
- Notify Lindsey Scott-Hurban, NNP via secure chat or Tiger Text when ordering BPD-PH screening ECHOs. Once the PH Team is involved, notify Brian Goudy, MD of all PH ECHO orders.
- List Brian Goudy, MD as the Cardiologist consulted.

ECHO findings of PH:

- Estimated RV pressure greater than or equal to 50% of the systemic pressure
- Intracardiac shunt with bidirectional or right to left flow (PDA, ASD/PFO, VSD)
- Moderate to severe intraventricular septal (IVS) flattening
- Mild IVS flattening with additional PH findings
- PAAT:RVET ratio less than 0.3
- Abnormal TAPSE

PH Follow Up:

- If there is evidence of pulmonary hypertension on ECHO, notify Brian Goudy, MD and place a formal Pediatric Pulmonary Hypertension consult.
- Obtain weekly NT-Pro BNP.
- Repeat ECHO in 2 weeks or per PH Team recommendations.

References:

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