

Site Applicability

BC Women's Hospital + Health Centre

Practice Level/Competencies

Advanced Skill – NRP Providers

Guideline

Preparation for the Birth	History should include answers to 4 questions: 1. What is the expected gestational age? 2. Is the amniotic fluid clear? 3. What is the umbilical cord management plan; are there any contraindications to do delayed cord clamping? 4. Are there any additional risk factors?
Initial Steps reordered to better reflect common practice	Initial steps: Warm, dry, stimulate, position airway, suction if needed.
Electronic cardiac monitor is recommended earlier in the algorithm	When an alternative airway becomes necessary, a cardiac monitor is recommended for the most accurate assessment of the baby's heart rate.
CARDIO Mnemonic: Questions to ask when heart rate is not improving with compressions and ventilation	1. Chest movement: Is the chest moving with each breath? 2. Airway: Is the airway secured with an endotracheal tube or laryngeal mask? 3. Rate: Are 3 compressions coordinated with 1 ventilation being delivered every 2 seconds? 4. Depth: Is the depth of compressions one-third of the AP diameter of the chest? 5. Inspired Oxygen: Is 100% oxygen being administered through the PPV device?
Epinephrine intravenous/intraosseous (IV/IO) flush volume increased.	Flush IV/IO with 3 mL normal saline (applies to all weights and gestational ages).
Epinephrine IV/IO and endotracheal doses have simplified for educational efficiency. Additional research is needed.	The suggested initial IV or IO dose = 0.02 mg/kg (equal to 0.2 mL/kg). The suggested endotracheal dose (while establishing vascular access) = 0.1 mg/kg (equal to 1 mL/kg)
Expanded timeframe for cessation of resuscitative efforts.	If confirmed absence of heart rate after all appropriate steps performed, consider cessation of resuscitation efforts around 20 minutes after birth (decision individualized on patient and contextual factors).

Documentation

- Perinatal Services British Columbia (PSBC) Newborn Resuscitation Record
- PSBC Newborn Record Part 1
- Patient Safety Learning System (PSLS) for Neonatal Resus

Patient & Family Engagement/Education

Education and family centred care to be provided throughout resuscitation.

Cross Reference Documents

- [Delayed Cord Clamping Procedure](#)
- [Neonatal Resuscitation Algorithm](#)
- [Neonatal Resuscitation Medications and Supplies](#)
- [Neonatal Resuscitation Team: Onboarding Process Guideline](#)
- [Neonatal Resuscitation Team: Roles and Responsibilities Guideline](#)

References

American Academy of Pediatrics and the American Heart Association. (2016). *Textbook of Neonatal Resuscitation 7th Edition*. Elk Grove Village, Illinois: Published by the American Academy of Pediatrics.

Developed By

BCW Neonatal Program – Senior Practice Leader & Neonatologist

Version History

DATE	DOCUMENT NUMBER and TITLE	ACTION TAKEN
14-Nov-2019	C-06-07-604367 Neonatal Resuscitation Program (NRP) 7th Edition Updates	Approved at: Neonatal Leadership Committee
24-Jan-2022	C-06-07-60437 Neonatal Resuscitation Program (NRP) 8th Edition Updates	"

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