

NICU COVID-19 Admission/Resuscitation Team Protocol

April 6, 2020

Admitting team to confirm at huddle suspected case has been swabbed prior to delivery

Role assignment and attendance at delivery to be reviewed at huddle each shift. Goal is to review/refresh staff on the protocol, clearly define role and who is attending the delivery and resuscitation of baby born to COVID-19 suspect or positive mother and to limit exposure of NICU staff. Team assigned to COVID-19 response and NERT should check N95 masks in NICU PPE box to ensure their size is in the box. Admission RN and RRT will be responsible for restocking the box after use.

VAGINAL Deliveries for suspected/confirmed COVID-19 cases greater than 35+6 weeks with fetal or maternal indication for NICU attendance at delivery:

- Delivery in **Room B4-228** (OBCU – Negative Pressure) Rooms 226 and 230 as alternates
 - Admissions RN to ensure Joey bed available outside B4-228
 - Admissions RN to bring NICU PPE box to ante-room of B4-228
 - Panda warmer in room, checked daily by Admissions RN/RRT team
 - Don and doff **Enhanced PPE** in ante-room of B4-228, as any resuscitation is considered an Aerosol Generating Medical Procedure (AGMP) including intubation, suctioning, non-invasive positive pressure ventilation and cardiac compressions.
 - **Enhanced PPE:**
 - Level 3 gown (blue cytotoxic gown)
 - If no Level 3 gown, a Level 4 gown (green surgical gown)
 - Extended cuff nitrile gloves or sterile gloves which cover wrists (Gown tucked into glove)
 - N95 mask + full face shield
 - Blue hair bouffant
 - If **baby is stable, and mom is stable** – Place baby on the Panda or hand over to the masked family member or guardian following hand hygiene and donning of clean patient gown, NICU team to exit room and doff enhanced PPE in the specified area in ante-room
 - If **baby is stable, and mom requires an AGMP**– NICU team to exit room with baby and place baby on the Joey bed outside of ante-room. OBCU Charge RN to arrange OBCU RN and/or family member or guardian to watch over stable baby. (see postpartum flow diagram)
 - If **baby is unstable and requires resuscitation**, team to push code blue button. NERT RRT to wait outside the room, remainder of the NERT team to don enhanced PPE in the B4-228 ante-room. NICU Charge RN will bring NICU code cart located on OBCU closest to Nursing Station. Code cart will be brought into the room. Post-resuscitation, the baby should be transferred to an isolette/Omni Bed outside the door of B4-228 by the Admission Team RN. Baby is transferred to the NICU in the clean isolette/Omni Bed with the shuttle by a team member(s) in clean PPE (standard droplet and contact precaution PPE).

- **Alternate Resuscitation Areas for Vaginal Deliveries Occurring in OBCU B4-228**
 - Room B4-230
 - Currently held for COVID-19 deliveries by OBCU as 3rd alternate space, may be needed as volumes increase
 - May be considered when we expect prolonged, complex or twin resuscitation
 - Plan for use and set-up should be discussed with OBCU Charge RN on case by case basis
 - If baby to be transferred to B4-230, use Joey bed with plastic cover to minimize spread
 - Room B4-260, NICU Procedure Room, will be used primarily for resuscitation of neonates from OR7
 - Has a Panda and resuscitation set-up
 - If baby is to be transferred to B4-260, Procedure Room, use Joey bed with plastic cover to minimize spread
- COVID 19 – Resuscitation Equipment Cart is available with extra supplies if needed in the NICU Procedure room
 - Intubation equipment also on cart
 - Limit supplies brought into these resuscitation rooms – everything is to be thrown out after the case

Baby is to be treated on Droplet + Contact Precautions while in hospital. If an AGMP is required on the baby or if non-invasive ventilation is used, enhanced PPE is required.

CAESAREAN SECTION or Preterm (less than 35+6 weeks) DELIVERIES – suspected/confirmed cases

- OR #7 (B4-257) designated – is locked and taped from NICU resuscitation side
 - Admissions Team RN to don **Enhanced PPE** outside OR Scrub corridor, any resuscitation is considered an Aerosol Generating Medical Procedure (AGMP) including intubation, suctioning, no-invasive positive pressure ventilation and cardiac compressions).
 - PPE (including N95 mask) will be placed in the red designated square outside the OR by the OBCU during the case
 - **Enhanced PPE:**
 - Level 3 gown (blue cytotoxic gown)
 - If no Level 3 gown, a Level 4 gown (green surgical gown)
 - Extended cuff nitrile gloves or sterile gloves which cover wrists (Gown tucked into glove)
 - N95 mask + full face shield
 - Blue hair bouffant
 - Obstetrical Care provider to place baby in the sterile draped Joey bed and the circulating RN will pass the bed out into the OR corridor to the waiting NICU Admissions RN
 - Admissions Team RN (in enhanced PPE) will receive baby in the Joey bed in the OR corridor
 - Admissions Team RN will cover the bed with the plastic cover and transfer to the NICU Procedure Room (B4-260) for resuscitation

- Remainder of NICU Resuscitation Team to don **enhanced PPE** within the NICU Procedure Room and await the arrival of newborn from OR7
- Recommended COVID-19 NICU resuscitation team is: Admissions Team RN, RRT, 1 medical team member (Senior Fellow, NP, Neonatologist).
- PPE (with the exception of the N95 mask) is currently located in the PPE cart in the NICU procedure room
 - N95 masks are located in the middle, locked cabinet in the procedure room, NICU Charge RN has the key
 - **Enhanced PPE:**
 - Level 3 gown (blue cytotoxic gown)
 - If no Level 3 gown, a Level 4 gown (green surgical gown)
 - Extended cuff nitrile gloves or sterile gloves which cover wrists (Gown tucked into glove)
 - N95 mask + full face shield
 - Blue hair bouffant
- Additional staff can be accessed by pushing the code blue button on the head wall. NERT RRT to wait outside the room, remainder of the team to don **Enhanced PPE** prior to entering the Procedure Room. PPE can be obtained from the NICU PPE box at the main NICU desk. NICU Charge RN will bring NICU Pod B code cart around to the door exiting Procedure room into the OR hallway. Code cart will be brought into the room at direction of the NRP lead if additional equipment is needed.
- A Hamilton ventilator will be moved into the Procedure Room for use.
- Post resuscitation, the baby should be transferred to an isolette/Omni Bed outside the Procedure Room door by the Admission Team RN. Baby is transferred to the NICU isolation room in the clean isolette/Omni Bed with the shuttle by a team member(s) in clean PPE (standard droplet and contact precaution PPE) using back hallway and exterior door outside the isolation rooms.
- Doff enhanced PPE outside of Procedure room
- The Procedure Room will be cleaned immediately by PSWs using recommended airborne, droplet and contact cleaning procedures for COVID-19 cases.

Baby is to be treated on Droplet and Contact Precautions while in the NICU. If an AGMP is required on the baby or if non-invasive ventilation is used, enhanced PPE is required.

Supply List – NICU PPE Box

- N95 masks – limited
- Level 3 gown – blue cytotoxic gown (7)
- Extended cuff nitrile gloves – size large (4)
- Extended cuff nitrile gloves – size medium (box)
- Face shield (3)
- Eye protection goggles (4)
- Blue hair bouffant (7)

Supply List – Panda Warmer in COVID-19 Resuscitation Area

- ECG leads term (1) and preterm (1)
- Stethoscope (1)
- Saturation probe (2)
- Scissors (1)
- Blue tape (1)
- ISC probe (1)
- ISC probe cover (2)
- Cavilon (1)
- Cord clamp (1)
- Scalpel blade (1)
- PIV kit (1)
- 10 ml Sodium Chloride Pre-filled syringe (1)
- Diaper (1)
- #6.5 Fr Feeding Tube (1)
- 12 ml enteral feed syringe (1)
- Pre-cut white woven tape (1)
- Pneumo kit (1)
- Emergency UVC kit (1)
- Hat (1 pink 1 blue)

Supply List – COVID-19 Cart

- ECG leads term (2)
- ECG leads preterm (2)
- ISC probe + cover (2)
- Saturation probe (2)
- PIV Kit (1)
- Cord clamp (2)
- Scalpel blade (2)
- 12 ml enteral feed syringe (2)
- #6.5 Fr Feeding Tube (2)
- Pre-cut white woven tape (2)
- 10 ml NaCl Pre-filled syringe (2)
- 5 ml NaCl Pre-filled syringe (1)
- Cavilon (2)
- Blue tape (2)
- Temperature probes 4-pack (1)
- Tape measure (2)
- Plastic Bag (2)
- Newborn size diaper (2)
- ELGA kit (1)
- Tape measure (2)
- Emergency UVC kit (1)
- Pneumo Kit (1)
- Sterile 10 ml Sodium Chloride Pre-filled syringe (2)
- White diaper cloth (4)
- Pink/blue blanket (4)
- #6.5 Fr Suction Catheter (2)
- #8 Fr Suction Catheter (2)
- #10 Fr Suction Catheter (2)