University Health System

Pediatric Code Blue Enhanced Isolation Guidelines-COVID-19 Pediatric Patients (Confirmed or PUI)

Date: 5/22/2020

Background:

- The safety of the healthcare workers providing cardiopulmonary resuscitation (CPR) should be the top priority.
 - No healthcare workers should be inside a code blue room without appropriate personal protective equipment (PPE).
- Unless explicitly stated in the document, patients with suspected or confirmed COVID-19 should be treated by previously established, standard protocols

Institutional Modification

- At the beginning of each shift, the pediatric PCC, PICU/PCCU Charge nurse, supervising pediatric RT, PICU/PCCU and COVID faculty must review the number of admitted pediatric patients with confirmed or suspected COVID, and review who among them may deteriorate clinically
- The goal is to intubate early and electively, and avoid as many code blues and emergencies as possible
- Pediatric code blue will be called overhead as standard procedure.

Patient selection

- The following represents a general guideline and all decisions should be made on a case to case basis
- For unintubated confirmed or suspected COVID pediatric patients (without significant medical comorbidities and the deterioration is unexpected) – CPR should be provided
- For intubated confirmed or suspected COVID pediatric patients
 Code status discussion should be carried out soon after intubation with the
 parents/ caregivers of patients confirmed to have COVID regarding prognosis
 and the utility of CPR

Equipment to brought to COVID area:

- COVID Intubation PPE Bag (In PICU Attending Office or PCCU airway cart; To be brought by PICU Attending):
- COVID Pediatric Code Cart (IMC code cart with 2 two-way radios)

PEDIATRIC ISOLATION CODE BLUE BAG

-10 face shields *ETT* (*Size 3.0, 4.0, 5.0,6.0, 7.0*)

-10 N95 masks (7 regular & 3 small) - Stylets (Regular, Glidescope)

-10 surgical masks - End Tidal CO2 colorimeter

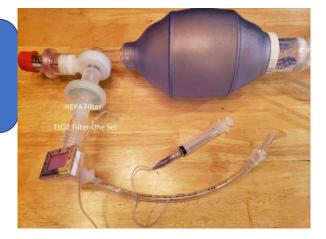
-10 gowns - KY Jelly x2 -10 regular gloves in each size - Bougie x1

-10 pairs of size 7.5 surgical gloves

- Pediatric Airway Cart (Brought from Peds RT)
- COVID Airway Bag (To be carried by Anesthesia Team):

ISOLATION CODE MED PACK (in Crash Cart Med Tray)

Epinephrine 1 mg Inj X 3 Sodium bicarbonate 50 mEq Inj X 2 Atropine 1 mg Inj X 1 Dextrose 50% 50 mL Inj X 1 Calcium chloride 1 g Inj X 1 Lidocaine 100 mg Inj X 1 Flushes



Code Team:

	Role	Responsibility	
Inside	Physician 1- PICU	- Code Leader - Bring Intubation PPE bag	PPE in
		- Communicator with Recorder*	accordance
	Physician 2- Anesthesia	- Airway Management - Bring COVID Airway bag	with current hospital
	Respiratory Therapist 1	- Compressions if No airway - Assist with airway - Vent setup/ maintenance	guidelines – See UHS Personal
	Nurse 1 (Bedside Nurse)	- Start compressions - IV Access, lab draws, Med Administration	Personal Protective Equipment (PPE) Toolkit
	Nurse 2	- Nurse assistance, Compressions; - Brings defibrillator, meds, 2-way radio	
Outside	Nurse 3	- Hands equip/meds to Nurse 2 - Brings Iso code med pack and RSI kit - Communicate with Nurse 3	
	Nurse 4	- Med drawing	
	Nurse 5	- Recorder*	
	Respiratory Therapist 2	- Equip support/ airway supply - Bring Glidescope	
	Pharmacist	- Medication supply	
	PICU APP/fellow	- Facilitate med orders	
	UH3 Peds Resident	- Alerting specialists	
	Tech 1	- Supply runner/ Compressions	
	Childlife/Chaplain/SW	- Family/staff support	
	Tech 2	- Crowd control	

When a Code Blue is Called

- Call code blue while OUTSIDE the room whenever possible
- All members must wear appropriate PPE, supplies available in the PEDIATRIC ISOLATION CODE BLUE BAG
- Don appropriate PPE before entering the room-

NO PPE, NO RESUCITATION

- o If patient has no pulse:
 - Begin Chest Compressions
 - If bag mask ventilated, ensure tight seal with HEPA filter applied
 - After ensuring O2 supplementation in place, cover the patient's face with a mask or towel to minimize droplets aerosolization and secretions contamination while performing chest compressions
 - Wait for code team to arrive
- o If patient has a pulse:
 - Provide up to 15L via Oxy-mask
 - Wait for code team to arrive

When the Code Team Arrives and During the Code

- Physician team leader should don PPE and enter the room first
- Code cart remains outside the room
- Bring defibrillator, pads and backboard into the room
- Chest compressions may be paused while intubating to allow for increased first-pass success
- If intubation is unsuccessful, convert to LMA early instead of multiple attempts
- For further details on intubating a COVID patient, refer to the "UHS COVID PCCM intubation procedure"
- If the patient is already intubated, consider leaving the patient on the ventilator to maintain a closed circuit if there is no evidence of airway obstruction; if patient is on volume control, consider changing to pressure control due to chest compressions
- Any staff member who is unwell, has had equipment failure, or likely selfcontaminated should be first to doff and exit the patient room
- Weight based code sheets copies will lie in patient room and in green folder outside of room

Intubation Procedure

- Bag Valve Mask (BVM) Ventilation with HEPA Filter and ensuring a tight seal
- PICU faculty will be the designated person to intubate to maximize first-pass success
- Rapid sequence intubation must be used to minimize chance of coughing
- **Videolaryngoscope (Glidescope)** would be preferred 1st choice
- Place clear, sterile drape/ plastic bag in preparation for intubation
- Provide appropriate preoxygenation via BVM
- Inflate cuff of endotracheal tube(ETT) prior to placing CO2 Colorimetry or End-Tidal
- Connect ETT directly to ventilator after intubation if possible

After the Code

- All non-disposable equipment (e.g. videolaryngoscope) must be wiped with hospital approved disinfectant wipes at least TWICE THOROUGHLY.
- All equipment should be cleaned in the room, and again once leaving the room
- As a general rule, ALL EXPOSED DISPOSABLE EQUIPMENT inside the code blue room must be DISCARDED EVEN IF UNOPENED
- Due to potential aerosolization, wait for 20 min before performing postintubation chest radiography.
- Any staff member who is unwell, has had equipment failure, or likely selfcontaminated should be first to doff and exit the patient room
- Doff PPE ONE AT A TIME-

• Doff PPE slowly and carefully according to pre-existing protocol- Coached and monitored by designated hall monitor

UHS guidelines references in this document can be found at https://www.universityhealthsystem.com/coronavirus-covid19/healthcare-protocols-and-guidelines?web=1