Pediatric Basic Life Support Algorithm for Healthcare Providers—2 or More Rescuers for Suspected or Confirmed COVID-19

Text in cascading boxes describes the actions that 2 or more rescuers should perform in sequence during cardiac arrest of a pediatric patient with suspected or confirmed COVID-19. Arrows guide the rescuers from one box to the next as they perform the actions. Some boxes have multiple arrows that lead outward, each to a different pathway depending on the outcome of the most recent action taken. Pathways are hyperlinked.

**Box 1**
There is an icon in this box that signifies the use of personal protective equipment appropriate for an aerosol-generating procedure (AGP): respirator (eg, N95), along with gown, gloves, and eye protection.
Verify scene safety. Proceed to **Box 2**.

**Box 2**
- Check for responsiveness.
- Shout for nearby help.
- First rescuer remains with the child. Second rescuer activates the emergency response system and retrieves the AED and emergency equipment.
Proceed to **Box 3**.

**Box 3**
Look for no breathing or only gasping and check pulse (simultaneously). Is pulse definitely felt within 10 seconds?
If there is normal breathing and a pulse is felt, proceed to **Box 3a**.
If there is no normal breathing but a pulse is felt, proceed to **Box 3b**.
If there is no breathing or there is only gasping and no pulse is felt, proceed to **Box 5**.

**Box 3a**
Monitor until emergency responders arrive.

**Box 3b**
There is an icon in this box that signifies the use of a high-efficiency particulate air (HEPA) filter.
- Provide rescue breathing, 1 breath every 2 to 3 seconds, or about 20 to 30 breaths per minute using a HEPA filter with bag-mask ventilation. (This step includes suspected AGP, on the basis of current studies.)
- Assess pulse rate for no more than 10 seconds.
Proceed to **Box 4**.

**Box 4**
Is heart rate less than 60 per minute with signs of poor perfusion?
If Yes, proceed to **Box 4a**.
If No, proceed to **Box 4b**.

**Box 4a**
Start CPR.

**Box 4b**
- Continue rescue breathing; check pulse about every 2 minutes.
- If no pulse, start CPR.

**Box 5**
Start CPR
There is an icon in this box that signifies the use of a HEPA filter.
- First rescuer performs cycles of 30 compressions and 2 breaths. (This step includes suspected AGP, on the basis of current studies.)
- When second rescuer returns, perform cycles of 15 compressions and 2 breaths.
- Use the AED as soon as it is available.
Proceed to Box 6.

**Box 6**
Check rhythm. Is it a shockable rhythm?
If Yes, it is shockable, proceed to Box 7.
If No, it is nonshockable, proceed to Box 8.

**Box 7**
- Give 1 shock. (This step includes suspected AGP, on the basis of current studies.) Resume CPR immediately for 2 minutes (until prompted by the AED to allow a rhythm check).
- Continue until advanced life support providers take over or the child starts to move. Return to Box 6, if necessary.

**Box 8**
- Resume CPR immediately for 2 minutes (until prompted by the AED to allow a rhythm check).
- Continue until advanced life support providers take over or the child starts to move. Return to Box 6, if necessary.