

Neonatal Resuscitation Algorithm

Text in cascading boxes describes the actions that providers should perform in sequence when giving neonatal resuscitation. Arrows guide the provider from one box to the next as the provider performs the actions. Some boxes have 2 arrows that lead outward, each to a different pathway depending on the outcome of the most recent action taken. Pathways are hyperlinked.

Box 1

Antenatal counseling
Team briefing
Equipment check

Box 2

Birth

Note that Boxes 3 through 11 should take 1 minute.

Box 3

Initiate cord management plan

Box 4

How is the term gestation?
Is there good tone?
Is there breathing or crying?
If No, proceed to [Box 6](#).
If Yes, proceed to [Box 5](#).

Box 5

Infant stays skin to skin with parent, and routine care is provided. Maintain normal temperature and perform ongoing evaluation.

Box 6

Keep the infant warm and maintain normal temperature, dry, position, stimulate and clear airway if needed.

Box 7

Is there apnea or gasping?
Is the heart rate below 100 per minute?
If No, proceed to [Box 8](#).
If Yes, proceed to [Box 11](#).

Box 8

Is there labored breathing or persistent cyanosis?
If Yes, proceed to [Box 9](#).

Box 9

Pulse oximeter
Supplementary oxygen if needed
Consider CPAP

Box 10

Postresuscitation care
Communicate with family
Team debriefing

Box 11

Ventilate

Pulse oximeter

Consider cardiac monitor

Box 12

Is the heart rate below 100 per minute?

If No, proceed to [Box 10](#).

If Yes, proceed to [Box 13](#).

Box 13

Ventilation corrective steps

Consider intubation or laryngeal mask

Cardiac monitor

Box 14

Is the heart rate below 60 per minute?

If No, return to [Box 12](#).

If Yes, proceed to [Box 15](#).

Box 15

Intubate or laryngeal mask

Chest compressions

Coordinate 3:1 with ventilation

100% oxygen

UVC or IO

Box 16

Is the heart rate below 60 per minute?

If Yes, proceed to [Box 17](#).

If No, return to [Box 14](#).

Box 17

UVC or IO epinephrine every 3 to 5 minutes

If heart rate remains below 60 per minute:

- Consider hypovolemia
- Consider pneumothorax

Return to [Box 16](#).

Sidebar: Targeted Oxygen Saturation Table

- 2 minutes is 65% to 70%
- 3 minutes is 70% to 75%
- 4 minutes is 75% to 80%
- 5 minutes is 80% to 85%
- 10 minutes is 85% to 95%