

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 and equipment check

Note that Boxes 2 through 9 should take 1 minute.

Box 2

Birth

Box 3

How is the term gestation?

Is there good tone?

Is there breathing or crying?

If No, proceed to [Box 5](#).

If Yes, proceed to [Box 4](#).

Box 4

Infant stays with the mother for routine care: keep the infant warm and maintain normal temperature, position airway, clear secretions if needed, dry.

There is ongoing evaluation.

Box 5

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

Box 6

Is there apnea or gasping?

Is the heart rate below 100 per minute?

If No, proceed to [Box 7](#).

If Yes, proceed to [Box 10](#).

Box 7

Is there labored breathing or persistent cyanosis?

If Yes, proceed to [Box 8](#).

Box 8

Position and clear the airway

SpO₂ monitor

Supplementary oxygen as needed

Consider CPAP

Box 9

Postresuscitation care

Team debriefing

Box 10

PPV

SpO₂ monitor

Consider ECG monitor

Box 11

Is the heart rate below 100 per minute?

If No, proceed to [Box 9](#).

If Yes, proceed to [Box 12](#).

Box 12

Check chest movement

Ventilation corrective steps if needed

ETT or laryngeal mask if needed

Box 13

Is the heart rate below 60 per minute?

If No, return to [Box 11](#).

If Yes, proceed to [Box 14](#).

Box 14

Intubate if not already done.

Chest compressions.

Coordinate with PPV

100% oxygen

ECG monitor

Consider emergency UVC

Box 15

Is the heart rate below 60 per minute?

If Yes, proceed to [Box 16](#).

Box 16

IV epinephrine

If HR is persistently below 60 per minute

Consider hypovolemia

Consider pneumothorax

Sidebar

Targeted Preductal SpO₂ After Birth

- 1 minute is 60% to 65%
- 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%