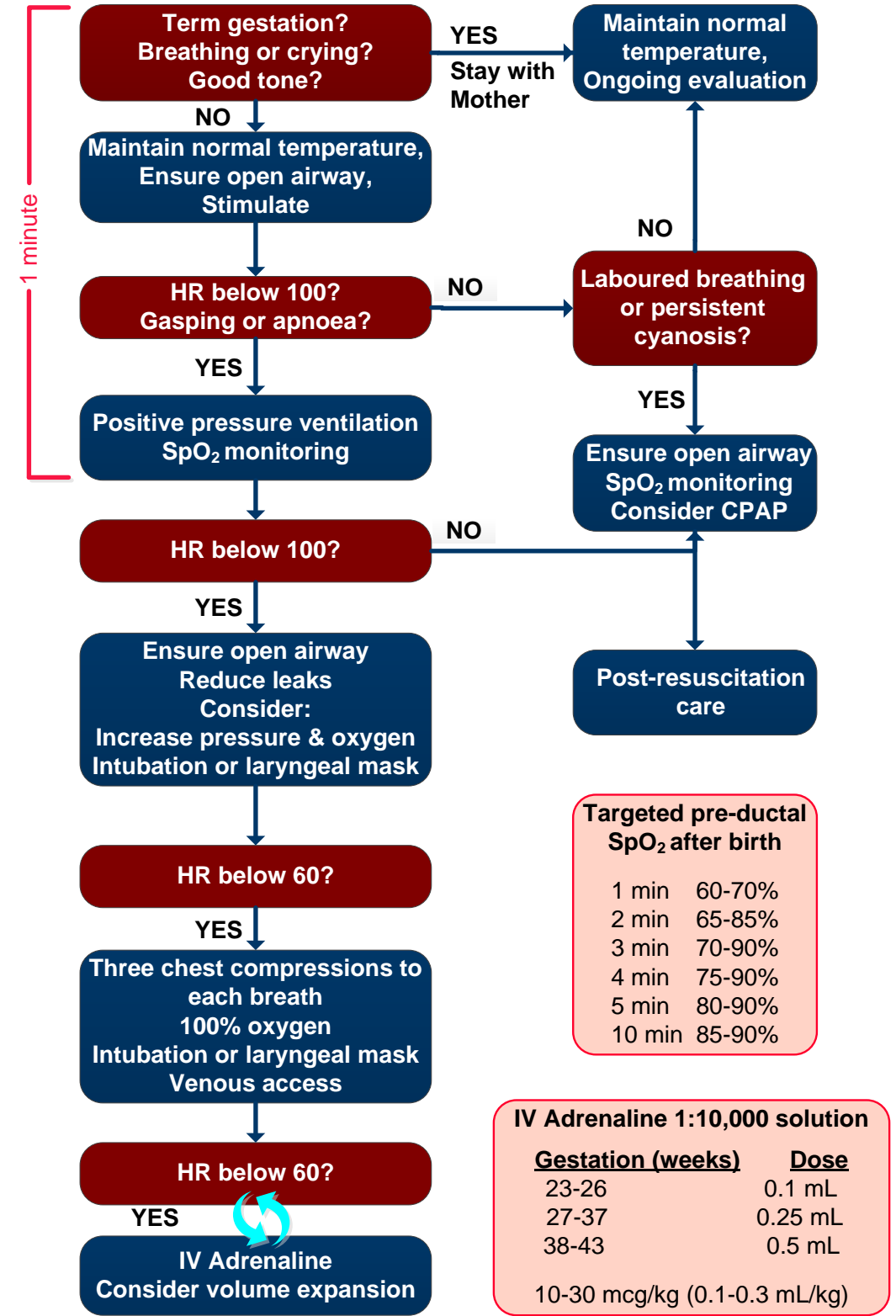


Neonatal resuscitation reference chart

Newborn Life Support

At all stages ask: do you need help?



Targeted pre-ductal SpO₂ after birth

1 min	60-70%
2 min	65-85%
3 min	70-90%
4 min	75-90%
5 min	80-90%
10 min	85-90%

IV Adrenaline 1:10,000 solution

Gestation (weeks)	Dose
23-26	0.1 mL
27-37	0.25 mL
38-43	0.5 mL

10-30 mcg/kg (0.1-0.3 mL/kg)

- Airway**
- Effective ventilation is the key to successful neonatal resuscitation
 - Routine suctioning NOT required
 - Suction ONLY when obvious obstruction
- Positive pressure ventilation**
- If heart rate less than 100 bpm and inadequate ventilation commence PPV:
 - 40–60 breaths per minute
 - Pressures* 30/5 cm H₂O (term baby) or 20–25/5 cm H₂O (preterm baby)
 - Initially use air (term baby) or up to 30% (preterm baby)
 - Titrate O₂ concentration with reference to SpO₂ and pressures as indicated
- * Pressures refers to positive inspiratory pressure (PIP) and positive end expiratory pressure (PEEP)
- Cardiac compressions**
- Use 2 thumb technique compress 1/3 diameter of chest over lower 1/3 of sternum
 - Give 3 compressions to each breath
 - Insert vascular access
 - Administer 100% oxygen

Suggested oxygen/air mix 10 L/min

O ₂ %	O ₂ L/min	Air L/min
21	0	10
30	1	9
40	2	8
50	4	6
60	5	5
70	6	4
80	7.5	2.5
90	9	1
100	10	0

Suggested oxygen/air mix 8 L/min

O ₂ %	O ₂ L/min	Air L/min
21	0	8
30	1	7
40	2	6
50	3	5
60	4	4
70	5	3
80	6	2
90	7	1
100	8	0

Endotracheal intubation

Corrected age (weeks)	Actual weight (kg)	ETT internal diameter (mm)	ETT mark at upper lip (cm)	ETT suction catheter size (F)
23–24	0.5–0.6	2.5	5.5	5–6
25–26	0.7–0.8		6.0	
27–29	0.9–1.0		6.5	
30–32	1.1–1.4	3.0	7.0	5–6
33–34	1.5–1.8		7.5	
35–37	1.9–2.4	3.5	8.0	6–8
38–40	2.5–3.1		8.5	
41–43	3.2–4.2	3.5–4.0	9.0	6–8

ETT size ~ Corrected age (weeks) ÷ 10 ETT length ~ Weight (kg) + 6 cm

Volume expanders

0.9 % sodium chloride or O RhD negative blood	10 mL/kg	Draw into large syringe for UVC administration	Administer over several minutes and repeat as required
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Refer to critical blood loss protocol for neonates*

*National Blood Authority (Australia), Patient Blood Management Guidelines: Module 6–Neonatal and Paediatrics Available at <https://www.blood.gov.au>

Abbreviations: CPAP Continuous positive airway pressure; ETT Endotracheal tube; HR Heart rate; SpO₂ Oxygen saturation; UVC Umbilical vein catheter

