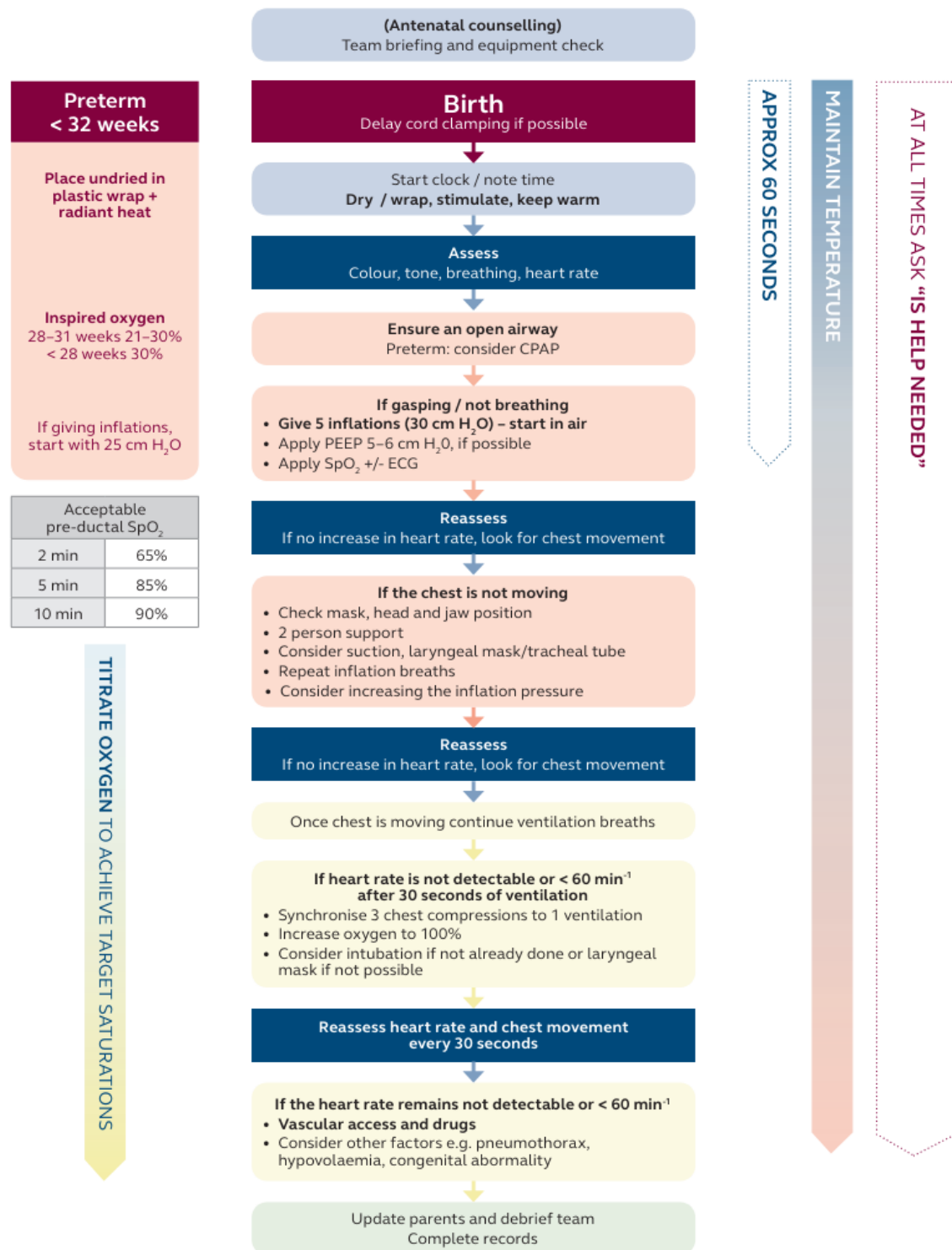


Newborn life support



Difficult Intubation?

- Video laryngoscopy
- LMA/ i-gel
- Guedel

Tube Placement

- Chest rise ✓
- Auscultation ✓
- Capnography +ve ✓
(Neo-StatCO₂ or Pedi-Cap):

GOLD is GOOD

False -ve

Low cardiac output

False +ve

contamination - gastric content/
adrenaline

Delivery of surfactant via ET

2.0 = 17 cm
2.5 = 18 cm
3.0 = 19 cm
3.5 = 20 cm

SURFACTANT TREATMENT

On Delivery Suite: 1x 120mg vial Curosurf® ventilated preterms, FiO₂ >0.6 at 10 mins
Early Rescue / Rescue: 200mg/kg Curosurf®

Emergency access: UVC length in cm = (weight x 1.5) + 5.5, use 3.5F (<1.5kg) or 5F
If unable to obtain access via UVC consider intraosseous insertion

Baby's weight	Adrenaline* 1:10,000	Sodium Bicarbonate 4.2%	Glucose 10%	Volume** Blood or N/Saline 0.9%
	20 mcg/kg	1-2mmol/kg	2.5 ml/kg	10ml/kg
1kg	0.2 ml	2-4 ml	2.5 ml	10 ml
2kg	0.4 ml	4-8 ml	5 ml	20ml
3kg	0.6 ml	6-12 ml	7.5 ml	30ml
4kg	0.8 ml	8-16 ml	10 ml	40ml

*If no vascular access Adrenaline can be given via ETT. ETT dose 100 mcg/kg (1 ml/kg). Repeat Adrenaline every 3-5 minutes if HR < 60 bpm. ETT adrenaline **if required, repeat volume dose

Airway Equipment and Initial Respiratory Support Settings

Individual babies vary and clinical assessment and further tests should be used to confirm suitability.

Airway Equipment Size	Gestation (wks)	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41+	
	Face Mask Size (mm)	35mm					35mm/42mm			42mm			42/50mm		50mm							
	Laryngeal mask size	Not recommended			Consider in extremis		Consider Size 1 igel or size 0.5/00 LMA							Size 1 Laryngeal mask (igel or LMA)								
	Laryngoscope Blade (Miller straight)	size 00								size 0						size 1						
	ET Tube size (mm)	2.0-2.5		2.5				3						3.5								
	Oral ET depth of insertion at lips (cm)	5	5.5		6		6.5			7			7.5		8		8.5			9		
	Initial Respiratory support & Ventilation settings at Delivery	CPAP/HFT	CPAP 6-8 cm H ₂ O OR 6-8L/min nHFT																			
PIP		20-25cm H ₂ O											30cm H ₂ O									
PEEP		5-6 cm H ₂ O																				
FiO2		0.3						0.21-0.30					0.21									
Weight (kg)		0.5	0.6	0.7	0.8	0.9	1	1.1	1.25	1.4	1.55	1.75	1.95	2.15	2.45	2.65	2.9	3.1	3.3	3.5	3.6	

Preductal SpO₂ Targets

2 mins 65%
5 mins 85%
10 mins 90%

Tube Placement Check

✓ Chest Rise
✓ Auscultation
✓ CO₂ Detection

Colorimetric ET CO₂ detectors

(Neo-StatCO₂ or Pedi-Cap)
GOLD IS GOOD
False -ve: low cardiac output

Capnography Traces

GOOD



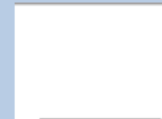
OBSTRUCTION/
BRONCHOSPASM



BIG LEAK



OESOPHAGEAL
INTUBATION



Surfactant

Initial Dose 200mg/kg Curosurf®
ET surfactant: ensure insertion length of catheter is shorter than ET
Surfcath: ensure 0.5cm black tip is still visible above glottis for babies <27 weeks.