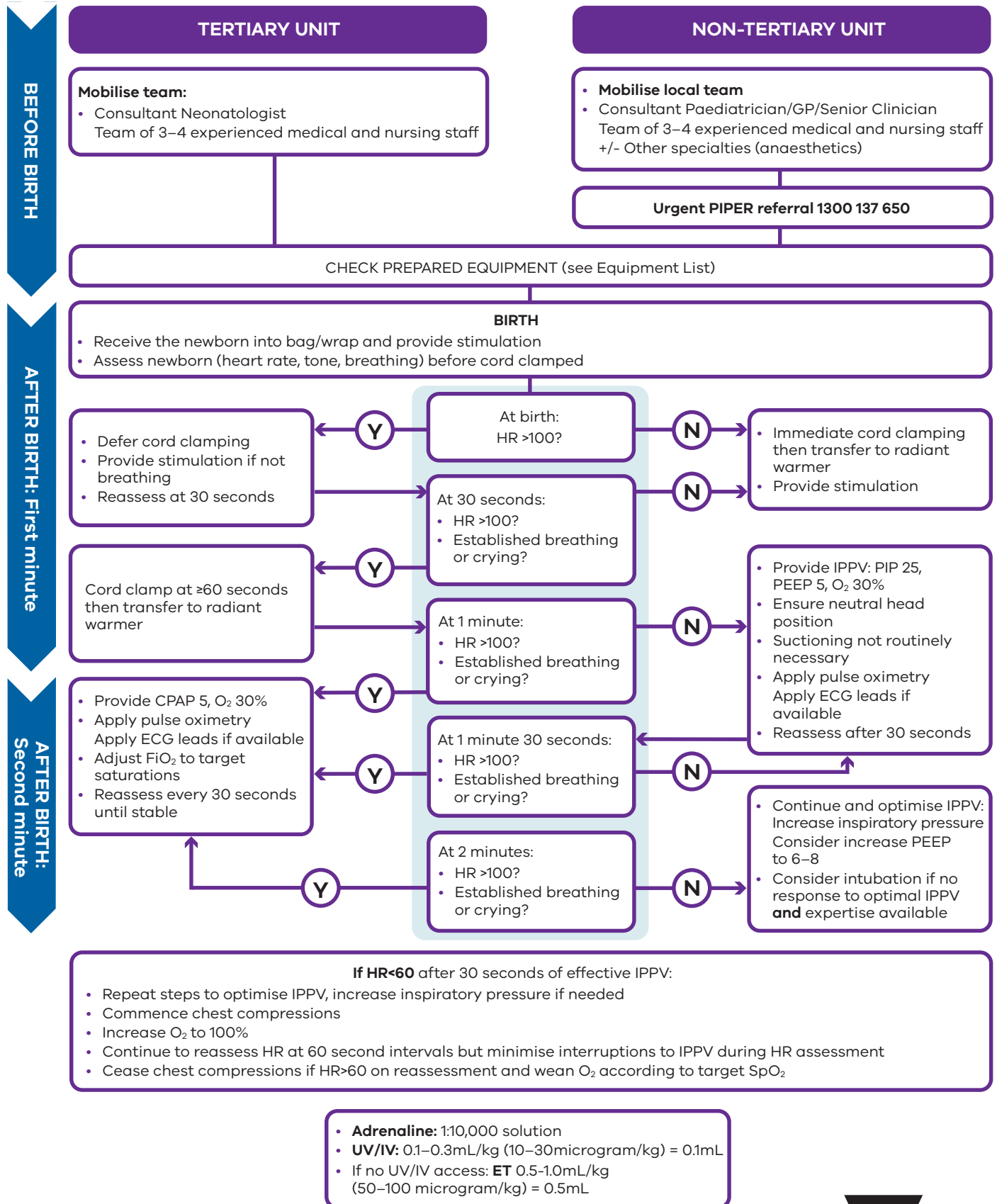


# Active management of the extremely preterm newborn (22<sup>+0</sup> to 24<sup>+6</sup> weeks' gestation)



## Ongoing care\*

- Temperature maintenance (incubator or radiant warmer)
- Continue CPAP or PPV
- Consider intubation if:
  - High FiO<sub>2</sub> requirement
  - Persistent apnoea
  - Circulatory compromise
- Surfactant for all intubated infants <26 weeks
- IV access
- Check blood glucose & administer IV dextrose
- Caffeine loading dose IV
- Blood culture, IV antibiotics

\*Non-tertiary Unit:

- Consult with PIPER at the earliest opportunity.
- PIPER will guide ongoing care if local equipment/expertise to provide the above measures is not available.

## Equipment list

<b>Temperature maintenance</b> <ul style="list-style-type: none"> <li>• Resuscitaire with inbuilt heater</li> <li>• Polyethylene bag or wrap (food grade, heat resistant)</li> <li>• Warm towels/wraps</li> <li>• Woollen hat</li> </ul>	<b>Equipment to clear the airway</b> <ul style="list-style-type: none"> <li>• Suction Catheters Fg 6, 8 &amp; 10</li> <li>• Suction tubing</li> <li>• Suction unit set to -100mmHg</li> </ul>
<b>Equipment to support breathing</b> <ul style="list-style-type: none"> <li>• T-piece device</li> <li>• Self-inflating bag 250mL</li> <li>• Face mask: 35mm ideal</li> <li>• Laerdal round mask size 50mm</li> </ul>	<b>Equipment for intubation</b> <ul style="list-style-type: none"> <li>• Laryngoscope with a straight blade size 00</li> <li>• Endotracheal tubes (ET): Uncuffed, sizes 2.0mm, 2.5mm &amp; 3.0mm</li> <li>• Endotracheal stylet/introducer (for oral intubation only)</li> <li>• Colorimetric end-tidal CO<sub>2</sub> detector (PediCap™ or similar)</li> </ul>
<b>Equipment for gastric decompression</b> <ul style="list-style-type: none"> <li>• Size Fg 8 feeding tube &amp; 10mL syringe for aspirating gastric contents</li> </ul>	<b>Equipment for umbilical and peripheral intravenous access</b> <ul style="list-style-type: none"> <li>• Umbilical venous catheter (UVC) size 3.5mm (or Fg5 feeding tube if not available)</li> <li>• Fg 24 intravenous catheter for peripheral access</li> <li>• Paediatric instrument set (for UVC insertion)</li> <li>• Three-way tap and extension tubing primed with 0.9% sodium chloride</li> </ul>
<b>Equipment for securing lines and tubes</b> <ul style="list-style-type: none"> <li>• Duo-Derm™ to protect the skin</li> <li>• Non-latex adhesive tape – Leukoplast™ and Elastoplast™</li> <li>• Cotton or silk ties (for ET) and scissors</li> </ul>	<b>Monitoring equipment</b> <ul style="list-style-type: none"> <li>• Stethoscope – neonatal size</li> <li>• Pulse oximeter with neonatal sensor</li> <li>• Posy to secure sensor</li> <li>• EGG with small ECG gel electrodes (desirable)</li> <li>• Clock with a second hand</li> </ul>
<b>Medical gases</b> <ul style="list-style-type: none"> <li>• A source of medical air (cylinder or reticulated)</li> <li>• A source of medical oxygen (cylinder or reticulated)</li> <li>• Air/oxygen blender (ideal)</li> <li>• Oxygen flow meter allowing flow up to 10L/min</li> <li>• Air flow meter allowing a flow up to 10L/min</li> <li>• Oxygen and air tubing (green argyle)</li> <li>• Y-connector if no air/oxygen blender is available</li> </ul>	<b>Equipment for fluid and drug administration</b> <ul style="list-style-type: none"> <li>• Syringes 2mL, 5mL, 10mL, 20mL</li> <li>• Needles 19g, 21g, 23g, 25g and blunt drawing up needles</li> <li>• 0.9% sodium chloride 10mL ampoules</li> <li>• 5% and 10% glucose solution</li> </ul>
<b>Drugs</b> <ul style="list-style-type: none"> <li>• Adrenaline 1:10,000</li> <li>• 0.9% sodium chloride</li> <li>• Access to O-Rh negative blood readily available</li> <li>• Sterile water for injection</li> </ul>	<b>Resuscitation record sheet</b>

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