Suggestions for paediatric equipment

Exactly which items and which sizes you will need depends on the range of child sizes and on the range of illnesses that your hospital decides to manage in the ICU.

Not every general ICU will need all of the equipment items listed below. When you and your hospital have decided on the size/age of patient and what illnesses your ICU might manage, discuss your equipment needs with the RCH PICU liaison doctor for your hospital. Detailed information on exact sizes, brands and sources of equipment can be obtained from RCH PICU (technologists, nurse educators and medical consultants).

**Some extra child-related items are needed because of:**

Smaller body size (drug doses and fluid intake are body weight-related) and immature physiology

Child’s psychological immaturity, dependence, ability to cooperate

Care of child and family

**We have listed some items for which child sizes (in some cases, several child sizes) are needed. Many of these are items that your hospital’s paediatric ward or operating theatre stocks already:**

**Capital equipment:**

Beds and cots

Ventilators and ventilator circuits: flow meters disposable or non-disposable

High-flow and NIV equipment: flow generator and various sizes of prongs, masks and harnesses

Humidification and air/O2 blenders

Syringe pumps

Heating and cooling equipment

Feed pumps

Stethoscopes and vein finders

BP cuffs

Glidescope (or other) wand

Ultrasound probes

Defibrillation paddles and pads

BP cuffs

Consider separate paeds carts: IV/resuscitation; intubation; chest drain; MET/ICU resus/ward resus

**Disposables:**

ET tubes: cuffed and uncuffed

LMAs and face masks

IV cannulae

Central venous cannulae

Chest drains

Nasal prongs and NIV masks

Guedel and nasopharyngeal airways

Nasogastric tubes and urine catheters

Suction catheters and Yankauer suckers

Oximeter probes and fixation

Self-inflating bags and masks

Blood sampling tubes and capillary tubes and retractable lancet

ECG electrodes

Condenser humidifier

Aerosol mixing chamber/spacer

IV giving set

Bed linen

Clothing

Dummies

Nappies

Toothbrushes

Armboards

**Drugs and IV fluids:**

5% dextrose in Normal saline

10% dextrose in Normal saline

Liquid form of some drugs rather than tablet form