

Pediatric Vital Signs by Age - Tool

Age	Respiratory Rate / Minute	Pulse Beats / Minute	Blood Pressure (Systolic) (mmHg)
Birth to 1 week	40-60	90-170	52-92; 60mmHg is the lower limit of normal
1-6 weeks	30-50	110-180	60-104
6 month	25-35	110-180	65-125
1 year	20-30	80-160	70-118
3 years	20-30	80-120	73-117
6 years	18-24	75-115	76-116
10 years	16-20	70-110	82-122

Formula used to approximate the lowest acceptable limit of systolic blood pressure by age in children >2 years of age

$$70 + (2 \times \text{age in years})$$

Fluid resuscitation for pediatric patients with evidence of inadequate tissue perfusion:

20mL/kg fluid bolus of a warmed crystalloid solution over 5-20 minutes

Maintenance of Intravenous fluids (D5 ½ NS) after circulating volume is restored:

4 mL/kg/hr for the first 10 kg of body weight
 +2 mL/kg/hr for the second 10 kg of body weight
 +1 mL/kg/hr for each additional kg of body weight over 20 kg

Example:

For 15 kg child:

4mL x 10 kg = 40 mL /hr
+2mL x 5 kg = 10 mL /hr
 15 kg = 50 mL /hr

For 25 kg child:

4mL x 10 kg = 40 mL /hr
 +2mL x 10 kg = 20 mL /hr
+1mL x 5 kg = 5 mL /hr
 25 kg = 65 mL /hr