

Formulas for calculators:

Fluids calculator:

INTRAVENOUS FLUIDS AND ELECTROLYTES

1. This guideline is applicable to pediatric patients older than 28 days.
2. Maintenance fluids per day should be calculated using the "100, 50, 20" rule (also known as the Holliday Segar rule). We sometimes use the "4, 2, 1" rule where the calculation is per hour rather than per day. Maximum fluid volume per day for larger children is 2500 ml.

100ml/kg/day for the 1 st 10kg	4ml/kg/hr for the 1 st 10kg
50ml/kg/day for the 2 nd 10kg	2ml/kg/hr for the 2 nd 10kg
20 ml/kg/day for every kg thereafter	1ml/kg/hr for every kg thereafter

Normal Urine Output

Neonates	>0.5 ml/kg/h
Infants and above	>1 ml/kg/h

Systolic BP

Expected Systolic Blood Pressure

<1month of age:	SBP >60 mmHg
1month to 1 year:	SBP >70 mmHg
1 to 10 years:	
SBP > 70 + (age in years × 2) mmHg	

Parkland Formula

Volume replacement (2nd/3rd degree burns):

In first 24 hours, total volume = 3–4 ml/kg per % BSA burn

Give half over first 8 hours after burn, half over the next 16 hours.