

2 Calculations

100/50/20 OR 4/2/1

Pick one and commite to memory. Test answers will be in ballpark of either formula!

Dr. Carrubba's protocol uses 100/50/20

100/50/20

- Formula for fluid requirements per 24 hour day
 - Needs to be divided by 24 for ml's/hr rate if question asked in that form.
- 100 ml for each of the child's first 10 kg of weight
- 50 ml for each of the child's second 10 kg of weight
- 20 ml for each additional kg of weight

100/50/20

Calculate the hourly maintenance fluid rate for a child who weighs 25kg

- (100mL x 10kg) + (50mL x 10kg) + (20mL x 5kg) = mL daily
- (1000mL) + (500mL) + (100mL) = 1600mL daily

Using this formula **the hourly fluid (1600 ÷ 24)** maintenance for this child is 67mL/hr



4/2/1

• Formula for fluid requirements per hour

 Needs to be multiplied by 24 for daily requirements if question asked in that form.

- 4 ml for each of the child's first 10 kg of weight
- 2 ml for each of the child's second 10 kg of weight
- 1 ml for each additional kg of weight

4/2/1

Calculate the hourly maintenance fluid rate for a child who weighs 25kg

- (4ml x 10kg) + (2ml x 10kg) + (1ml x 5kg) = hourly rate
- 40ml + 20ml + 5ml = 65ml/hr

Using the 4/2/1 method, this child's hourly maintenance fluid rate is 65mL/hr

Multiply hourly rate X 24 for daily