10. Charlie's lead level is 55 and he is admitted for chelation therpy. He weights 40 lbs. and is 128 cm tall. His order reads: "Calcium EDTA 1.2 g IV in 500 mL D51/2NS to run over 24 hours daily x 5 days". (Drug book recommended dose is stated as 500 mg/m^2 to 1.5 g/m^2/day over 8-24/h times 5 days for lead poisoning). Determine whether or not this dose is safe and calculate the IV rate.

Charlie's BSA: $0.8 m^2$

$$18 kg \times 128 cm = \sqrt{\frac{2304}{3600}} = \sqrt{0.64} = 0.8 m^2$$

Book recommended dose: $500 mg/m^2/day - 1500 mg/m^2/day$

Charlie's recommended Safety Range: $400 mg \cdot 1200 mg$

Is this dose safe? __Yes__

IV Rate: _____

11. You receive the following orders for Charlie: Hydrodiuril 19 mg po daily. The pharmacy sends up a bottle labeled 50 mg/5 mL. Is the dose safe and how much will you give?

Book recommended dose: $0.03 - 0.08 mg/kg/dose \ Q3 \cdot 4 hr$

Child's recommended dose: $0.24 mg - 0.32 mg$
$(0.54 - 1.44) \times 18 kg \div 3 = 0.18 - 0.48$

Is this dose safe? __NO__

Calculate dose: __1.9 mL/day__

$$\frac{19 mg}{50 mg} \times 5 mL$$