

Jessica Cuevas

2/24/21

1. 350mg ceftriaxone

in 25mL NS

rr = 10mg - 40mg per mL

$$350 \div 25 = 14 \text{ mg/mL}$$

yes

2. 18mg ranitidine

10 mL NS

$$18 \div 10 = \underline{1.8 \text{ mg/mL}}$$

3. dose 200mg - 300mg/kg/24hr

weight 30kg

$$200 \times 30 = 6,000 / 24 \text{ hr}$$

$$300 \times 30 = 9,000 / 24 \text{ hr}$$

$$4 \text{ hr} = 1000 - 1500$$

$$6 \text{ hr} = 1500 - 2250$$

B. 1200mg q 4hr

4. weight 20kg

med 1000mg ceftriaxone daily

range 50 - 75 mg/kg/24hr

1000 - 1500 recommended range

$$50 \times 20 = 1000$$

$$75 \times 20 = 1500$$

yes

5. weight 20kg med 700mg BID

dose 50 - 75 mg/kg/24hr

$$50 \times 20 = 1000$$

$$75 \times 20 = 1500$$

recommended 1000 - 1500 mg/kg/24hr

500 - 750 mg/kg/12hr yes

6. weight 30kg

dose 40mg/kg/24hrs

$$40 \times 30 = 1200 \text{ mg/kg/24hr}$$

$$6 \text{ hr} = 300 \text{ mg. } (1200 \div 4)$$

$$8 \text{ hr} = 400 \text{ mg } (1200 \div 3)$$

$$12 \text{ hr} = 600 \text{ mg } (1200 \div 2)$$

B. 400mg q 8hrs

7. 25mL NPB over 30min

$$\frac{25}{0.5} = \underline{50 \text{ mL/hr}}$$

1. 6.5kg 275mg q 12hrs

80 - 90 mg/kg/day

$$80 \times 6.5 = 520$$

$$90 \times 6.5 = 585$$

520 - 585 mg/kg/day

260 - 292.5 mg/kg/BID

$$\begin{array}{r} 250 \\ 5 \\ \hline \end{array} \quad \begin{array}{r} 275 \\ x \\ \hline \end{array}$$

$$250x = 1375$$

$$\underline{x = 5.5 \text{ mL}}$$

2. 15kg 1.1g q 12hr \rightarrow 1100mg

50 - 75 mg/kg/day

$$50 \times 15 = 750$$

$$75 \times 15 = 1125$$

750 - 1125 mg/day

375 - 562.5 mg/12hr

C. contact provider for exceeding dose

3. 16kg 640mg q 8hr

40mg/kg q 8hr

$$40 \times 16 = 640 \text{mg}$$

$$\frac{640 \text{mg}}{25 \text{mL}} = 25.6 \text{mg/mL}$$

$$\frac{25 \text{mL}}{0.5 \text{hr}} = \frac{A}{50 \text{mL/hr}}$$

4. 50mL x 60gtt = 3000gtt

$$3000 \text{gtt} \div 20 = 150$$

$$3000 \div 30 = 100 \text{gtt/min or } 100 \text{mL/hr}$$

C.