

Numeracy Worksheet 1 (pre session work)

Well done on completing the diagnostic test. I have reviewed the statistics and below are four questions that students found challenging. Please attempt these and we will go through the answers and working in the workshop online in week 17.

Answer the following questions without the use of a calculator.

$$1g = 1000mg$$

- 1) A 6 month old child of body surface area of 0.4 m^2 has been admitted to the paediatric ward. He requires a drug which is prescribed as $450\text{mg}/\text{m}^2$ QDS for 7 days. It is available to you as a 0.5% w/v solution, which of the following is the minimum number of 100ml bottles you would need to supply to the ward?

$$\begin{aligned} 450\text{mg} &= 1\text{m}^2 \\ 180\text{mg} &= 0.4\text{m}^2 \\ 180\text{mg} \times 4 &= 720\text{mg} \\ 720\text{mg} \times 7 &= 5040\text{mg} \end{aligned}$$

$$\begin{aligned} 0.5g &\text{ in } 100\text{ml} \\ 500\text{mg} &\text{ in } 100\text{ml} \\ 5040\text{mg} &\text{ in } 1008\text{ml} \\ \frac{1008\text{ml}}{100\text{ml}} &= 10.08 \\ \therefore &\text{ Supply 11 bottles} \end{aligned}$$

- 2) A patient is prescribed an intravenous antibiotic. He weighs 75 kilograms. The antibiotic is given as a dose of 3g over 2 hours in 200ml of sodium chloride 0.9% . What is the administration rate in micrograms / kg /minute of the antibiotic?

$$\begin{aligned} 3g &/ 75\text{kg} / 2\text{hrs} \\ \frac{3}{75} &= 0.04g \end{aligned}$$

$$\begin{aligned} 0.04g &/ \text{kg} / 2\text{hrs} \\ \frac{0.04}{120} &= 3.33 \times 10^{-4} g \\ &\swarrow \\ \times 1000 &= 0.333\text{mg} \\ 4 \times 1000 &\Rightarrow 333.32\text{mcg} / \text{kg} / \text{min} \end{aligned}$$

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Ensheng Dong



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