

Proficiency Test 3

Kaitlyn 2

8/23/23

1. A) $\frac{1 \text{ hr}}{150 \text{ mL}} \cdot 1000 \text{ mL} = 7 \text{ hr}$

B) $\frac{150}{60} \cdot 10 = 25 \text{ gtt/min}$ Macro

$\frac{150}{60} \cdot 60 = 150 \text{ gtt/min}$ Micro

C) Macro tubing

2. $\frac{60 \text{ gtt}}{1 \text{ mL}} \cdot \frac{100 \text{ mL}}{60 \text{ min}} = 100 \text{ gtt/min}$

B) Macro tubing

3. A) infuse volume of 150 mL

B) $\frac{150}{180} \cdot 15 = 13$ Macro

$\frac{150}{180} \cdot 60 = 50$ Micro

C) Micro tubing

4. $\frac{500 \text{ mL}}{24 \text{ hr}} = 21 \text{ mL/hr}$



5. A) 250ml D5W over 1 hour

$$B) \frac{10 \text{gtt}}{1 \text{mL}} \frac{250 \text{mL}}{1 \text{hr}} \frac{1 \text{hr}}{60 \text{min}} \frac{2500}{60} = 42 \text{gtt}/1 \text{min}$$

6. A) $\frac{10 \text{mL}}{1 \text{g}} \frac{1 \text{g}}{1000 \text{mg}} \frac{500 \text{mg}}{1} = 5 \text{mL} \rightarrow \underline{10 \text{mL needed}}$

B) $\frac{250 \text{mL}}{8 \text{hr}} = 31 \text{gtt}/\text{min}$

7. $2500 \text{mL} + 300 \text{mL} = 2800 \text{mL}$

8. $1000/90 = 11 \text{hrs}$

9. $0.5 \text{cc} \rightarrow 50 \text{mg}$

10. A) 75mL D5W 60 min

B) Set pump to appropriate rate & volume.

11. $112.5 \text{mL} - 150 \text{mL} = 37.5 \text{mL}$

12. $500 \text{mL} - 250 \text{mL} = 250 \text{mL}$

13. $400 \text{mL} - 100 \text{mL} = 300 \text{mL}$

14. 500mL isocal
0mL water

8/28/23

Self test

1. A) dose is correct
B) total 250ml 500ml/1hr
250ml per 30 minutes

2. A) dose is correct
B) 2-100mg tablets 3-10mg tablets

Proficiency Test 1

Kaitlyn D.

8/23/23

1. $\frac{15\text{ml}}{30\text{mg}} \frac{20\text{mg}}{1} = 10\text{ml}$

2. $\frac{7.5\text{ml}}{75\text{mg}} \frac{150\text{mg}}{1} = 15\text{ml}$

3. $\frac{10\text{ml}}{0.25\text{mg}} \frac{0.125\text{mg}}{1} = 5\text{ml}$

4. $\frac{5\text{ml}}{125\text{mg}} \frac{375\text{mg}}{1} = 15\text{ml}$

5. $\frac{2.5\text{ml}}{20\text{mg}} \frac{40\text{mg}}{1} = 5\text{ml}$

6. $\frac{1\text{tab}}{0.25\text{mg}} \frac{0.5\text{mg}}{1} = 2\text{ tabs}$

7. $\frac{1\text{cap}}{0.1\text{mg}} \frac{0.1\text{mg}}{1} = 1\text{ cap}$

8. $\frac{1\text{tab}}{100\text{mg}} \frac{250\text{mg}}{1} = 2.5\text{ tabs}$

$$9. \frac{1 \text{ cap}}{0.25\text{g}} \frac{0.5\text{g}}{=} 2 \text{ cap}$$

$$10. \frac{1 \text{ tab}}{0.3\text{mg}} \frac{0.3\text{mg}}{=} 1 \text{ tab}$$

Proficiency Test 2

Kaitlyn

8/23/23

1. $\frac{1\text{ml}}{15\text{mg}} \times 10\text{mg} = 0.7\text{ml}$

2. $\frac{3\text{ml}}{0.2\text{mg}} \times 0.1\text{g} = 1.5\text{ml}$

3. $\frac{1\text{ml}}{5000\text{mcg}} \times 1000\text{mcg} = 0.2\text{ml}$

4. $\frac{0.1}{25} = 2.5\text{ml}$

5. $\frac{1\text{ml}}{0.4\text{mg}} \times 0.5\text{mg} = 1.3\text{ml}$

6. $10\text{units} + 3\text{units} = 13\text{units}$

7. $\frac{1\text{ml}}{0.5\text{mcg}} \times 1.2\text{mcg} = 2.4\text{ml}$

8. $\frac{1000}{1} \times \frac{1\text{g}}{1000\text{mg}} \times \frac{1\text{mg}}{1000\text{mcg}} \times 500\text{mcg} = 0.5\text{ml}$



- 9.
- a) 2 mL
 - b) 1g / 2.6 mL
 - c) $\frac{2.6 \text{ mL}}{1 \text{ g}} = 2.6 \text{ mL}$
 - d) 2.6 mL
 - e) None
 - f) discard vial

- 10.
- a) 1.8 mL of distilled water
 - b) 250 mg / 1 mL
 - c) $\frac{1 \text{ mL}}{250 \text{ mg}} \times 300 \text{ mg} = 1.2 \text{ mL}$
 - d) 1.2 mL
 - e) Must be used within one hour after reconstitution.
 - f) Discard vial b/c only good for an 1 hour.