

Med Math Assignment #1

▷ Chapter 4: self-test #1

$$1: 1.5 \text{ mg} \frac{1 \text{ tab}}{0.75 \text{ mg}} = 2 \text{ tab}$$

$$2: 0.25 \text{ mg} \frac{1 \text{ tab}}{0.5 \text{ mg}} = 0.5 \text{ tab}$$

$$3: 0.5 \text{ g} \rightarrow 500 \text{ mg} \frac{1 \text{ tab}}{250 \text{ mg}} = 2 \text{ tab}$$

$$4: 10 \text{ mg} \frac{1 \text{ tab}}{2.5 \text{ mg}} = 4 \text{ tab}$$

$$5: 650 \text{ mg} \frac{1 \text{ tab}}{325 \text{ mg}} = 2 \text{ tab}$$

$$6: 20 \text{ mg} \frac{1 \text{ tab}}{10 \text{ mg}} = 2 \text{ tab}$$

$$7: 10 \text{ mg} \frac{1 \text{ tab}}{2.5 \text{ mg}} = 4 \text{ tab}$$

$$8: 200,000 \text{ u} \frac{1 \text{ tab}}{400,000} = 0.5 \text{ tab}$$

$$9: 0.5 \text{ mg} \frac{1 \text{ tab}}{0.25 \text{ mg}} = 2 \text{ tab}$$

$$10: 18.75 \text{ mg} \frac{1 \text{ tab}}{12.5 \text{ mg}} = 1.5 \text{ tab}$$

$$11: 300\text{mg} \frac{1\text{tab}}{200\text{mg}} = 1.5\text{ tab}$$

$$12: 0.3\text{mg} \frac{1\text{tab}}{0.1\text{mg}} = 3\text{tab}$$

$$13: 6.25\text{mg} \frac{1\text{tab}}{25\text{mg}} = 0.25\text{ tab}$$

$$14: \underline{400}\text{mg} \rightarrow 0.4\text{mg} \frac{1\text{tab}}{0.2\text{mg}} = 2\text{tab}$$

$$15: 7.5\text{mg} \frac{1\text{tab}}{5\text{mg}} = 1.5\text{ tab}$$

$$16: 0.625\text{mg} \frac{1\text{tab}}{1.25\text{mg}} = 0.5\text{ tab}$$

$$17: 500\text{mg} \frac{1}{250\text{mg}} = 2\text{tab}$$

$$18: 37.5\text{mg} \frac{1\text{tab}}{25\text{mg}} = 1.5\text{ tab}$$

$$19: 1000\text{mg} \frac{1\text{tab}}{500\text{mg}} = 2\text{ tab}$$

$$20: 25\text{mg} \frac{1\text{tab}}{10\text{mg}} = 2.5\text{ tab}$$

Chap. 5

▷ Proficiency Test #1

$$1: 0.1g \rightarrow 100mg \frac{3mL}{200mg} = 1.5mL$$

$$2: 5mg \frac{1mL}{15mg} = 0.3mL$$

$$3: 25mg \frac{2mL}{50mg} = 1mL$$

$$4: (20U) \frac{1mL}{1000}$$

$$5: 20mEq \frac{20mL}{40mEq} = 10mL$$

$$6: 0.6mg \frac{1mL}{0.4mg} = 1.5mL$$

$$7: 0.8mg \frac{1mL}{0.4mg} = 2mL$$

$$8: 0.5g \rightarrow 500mg \frac{1mL}{250mg} = 2mL$$

$$9: 200mg \frac{2mL}{500mg} = 0.8mL$$

$$10: 7.5mg \frac{100mL}{1000mg} = 0.75mL$$

$$11: 10mg \frac{1mL}{5mg} = 2mL$$

$$12: 25mg \frac{2mL}{100mg} = 0.5mL$$

$$13: 50mg \frac{1mL}{25mg} = 2mL$$

$$14: 0.5mg \frac{1mL}{2mg} = 0.25mL$$

$$15: 0.2g \rightarrow 200mg \frac{2mL}{200mg} = 2mL$$

Chap. 8

Self-test 2

1: $2016 \rightarrow 9.09 \times 20mg = 181.8 mg/day$
 $\quad \quad \quad \times 40mg = 363.6 mg/day$ (safe)
 $60mg \times 3 = 180 mg/day$ $60 \frac{5ml}{125} = 2.4ml$

2: $13.18 kg$ $527 mg/day$ $175 \times 3 = 525 mg/day$ safe
 $175mg \frac{5ml}{125mg} = 7ml$

3: $30 kg \rightarrow 600mg/day$ $200mg \frac{5ml}{125mg} = 8ml$
 $200 \times 3 = 600mg$

4: $5 \times 4 = 20 \text{ tab/day}$ $80mg \frac{1 \text{ tab}}{80mg} = 1 \text{ tab}$
 (needs more)

5: $1mg \frac{1ml}{5mg} =$ too many doses
 $0.2ml$

6: $0.7mg/day$ or $2.8mg/day$ 3-4hr 6-8times
 $9mc \frac{1ml}{2mg} = 11ml$ 12-16times

7: $2mg$ or $6mg/day$ so $5mg$ is safe
 $9mc \frac{5ml}{5mg}$

8: $21.82 kg \times 100 + \times 200mg = 1282mg + 4364mg$
 $1282/4 = 320.5mg \text{ per dose}$ too low
 $4364/4 = 1091mg \text{ per dose}$

9: $30 \times 10 = 300 mg/kg$ safe $300mg \frac{5ml}{100mg} = 15ml$

10: $5.68 kg$ $22.72mg$ or $45.44mg/day$
 dose is $60mg$ - too high