

Self test pg. 269

1. Order: heparin sodium 800 units/hour IV
Supply: infusion pump, standard solution of 25,000 units in 250ml D5W
A. What is the rate?
 - 8ml/hrB. How many hours will the IV run?
 - Approximately 31 hours
2. Order: acyclovir (Zovirax) 500mg in 100ml in D5W IV over 1 hour
Supply: infusion pump, acyclovir (Zovirax) 500mg in 100ml D5W
What is the rate?
 - 100ml/hr
3. Order: Aminocaproic acid (Amicar) 24g over 24 hour IV
Supply: infusion pump, aminocaproic acid (Amicar) 24g in 1000ml D5W
What is the rate?
 - 42ml/hour
4. Order: diltiazem (Cardizem) 10mg/hour IV
Supply: infusion pump, diltiazem (Cardizem) 125mg in 100ml D5W
What is the rate?
 - 8ml/hour
5. Order: Furosemide (Lasix) infuse 4 mg/hour
Supply: infusion pump, furosemide (Lasix) 100mg in 100ml D5W
What is the rate?
 - 4ml/hour
6. Order: regular insulin 15 units/hour IV
Supply: infusion pump, standard solution of 125 units in 250ml NS
A. What is the rate?
 - 30ml/hourB. How many hour will this IV run?
 - Approximately 8 hours
7. Order: nitroglycerin 50mg in 250ml D5W over 24 hour via infusion pump
What is the rate?
 - 10ml/hour
8. Order: heparin 1200 units/hour IV
Supply: infusion pump, standard solution of 25,000 units in 500ml D5W
A. What is the rate?
 - 24ml/hourB. How many hours will the IV run?
 - Approximately 21 hours
9. Order: regular insulin 23 units/hour IV
Supply: infusion pump, standard solution of 250 units in 250ml NS
A. What is the rate?
 - 23ml/hour

- B. How many hours will the IV run?**
 - Approximately 11 hours
- 10. Order: streptokinase (Streptase) solution 100,000 international units/hour for 24 hour IV**
Supply: infusion pump, standard solution of 750,000 international units in 250 ml NS
What is the rate?
 - 33ml/hour

Proficiency Test pg. 244

- 1. Order: 1000ml D5NS; Run 150ml/ hour IV**
Supply: IV bag of 1000ml D5NS
 - A. Approximately how many hours will the IV run?**
 - 6.6 hours or 7 if rounded up
 - B. How many drops per minute (macrodrop 10 gtt/ml or microdrop 60 gtt/ml)?**
 - 25 gtt/min macrodrop
 - 150 gtt/min microdrop
 - C. What size tubing will you use?**
 - Macrotubing
- 2. Order: 100ml LR 12 noon-6 pm IV**
 - A. What are the drops per minute (macrodrop 10 gtt/ml or microdrop 60 gtt/ml)?**
 - 16.6 or 17 gtt/min microdrop
 - 2.7 or 3 gtt/min macrodrop
 - B. What size tubing will you use?**
 - Microdrop
- 3. Order: 150ml NS IV over 3 hours**
Supply; bag of 250ml NS for IV and macrotubing, 15 gtt/ml; microtubing 60 gtt/ml
 - A. What would you do to obtain 150 ml NS?**
 - Allow for 100ml to run off and then set the infusion pumps volume to be infused at 150ml
 - B. What are the drops per minute?**
 - 12.5 or 13 gtt/min macrodrop
 - 50 gtt/minute microdrop
 - C. What size tubing would you use?**
 - Microdrop
- 4. 21 ml/hr**
- 5. A.. Reconstitute to add 100mg powder to 250ml D5W and give IVPB over 1 hour (60min)**
b. 42 gtt/minute
- 6. A. Add 5ml aminophylline to make 500mg in 250ml D5W**
B. 31 ml/hour microdrop
- 7. 2800 ml**
- 8. A. 90 ml/hour**
B. Approximately 11 hours
- 9. 50mg**

10. You need 75ml of D5W so you should remove 25ml from a 100ml bag of D5W and add 5ml Bactria. Time is 60 minutes. The order is 75ml/hour

B. For 60 minutes; secondary volume 75ml, secondary rate; 75ml/hr

For 90 minutes; secondary volume 75ml, secondary rate; 50ml/hr

11. 112.5 ml Isocal, 37.5 ml water

12. 250 ml Vivonex, 250ml water

13. 100ml osmolite, 300ml water

14. 500 ml Isocal, 0ml water