IV Flow Rate Calculations

Questions:

1. The doctor orders 1000 mL of IV fluid to be infused over 8 hours. The drop factor is 20 gtt/mL. What is the IV flow rate in gtt/min?

2. Administer 500 mL of IV fluid over 4 hours with a drop factor of 15 gtt/mL. Calculate the IV flow rate in gtt/min.

3. A patient is to receive 1200 mL of IV fluid over 6 hours. The drop factor is 10 gtt/mL. What is the IV flow rate in gtt/min?

4. Infuse 1000 mL of fluid over 12 hours with a drop factor of 15 gtt/mL. Calculate the IV flow rate in gtt/min.

5. A doctor prescribes 250 mL of medication to be infused over 2 hours. The drop factor is 60 gtt/mL. What is the IV flow rate in gtt/min?

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Questions (Continued):

6. Administer 750 mL of IV fluid over 5 hours with a drop factor of 20 gtt/mL. Calculate the IV flow rate in gtt/min.

7. A patient needs 500 mL of IV fluid over 3 hours. The drop factor is 12 gtt/mL. What is the IV flow rate in gtt/min?

8. The order is for 1000 mL of IV fluid over 10 hours with a drop factor of 15 gtt/mL. Calculate the IV flow rate in gtt/min.

9. A patient is prescribed 1500 mL of IV fluid to be infused over 24 hours. The drop factor is 10 gtt/mL. What is the IV flow rate in gtt/min?

10. Administer 300 mL of IV medication over 2 hours with a drop factor of 20 gtt/mL. Calculate the IV flow rate in gtt/min.

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Answers:

1. 42 gtt/min. (1000 mL ÷ 8 hours = 125 mL/hour; (125 × 20) ÷ 60 = 42 gtt/min)

2. 31 gtt/min. (500 mL ÷ 4 hours = 125 mL/hour; (125 × 15) ÷ 60 = 31 gtt/min)

3. 33 gtt/min. (1200 mL ÷ 6 hours = 200 mL/hour; (200 × 10) ÷ 60 = 33 gtt/min)

4. 21 gtt/min. (1000 mL ÷ 12 hours = 83.33 mL/hour; (83.33 × 15) ÷ 60 = 21 gtt/min)

5. 125 gtt/min. (250 mL ÷ 2 hours = 125 mL/hour; (125 × 60) ÷ 60 = 125 gtt/min)

6. 50 gtt/min. (750 mL ÷ 5 hours = 150 mL/hour; (150 × 20) ÷ 60 = 50 gtt/min)

7. 33 gtt/min. (500 mL ÷ 3 hours = 166.67 mL/hour; (166.67 × 12) ÷ 60 = 33 gtt/min)

8. 25 gtt/min. (1000 mL ÷ 10 hours = 100 mL/hour; (100 × 15) ÷ 60 = 25 gtt/min)

9. 10 gtt/min. (1500 mL ÷ 24 hours = 62.5 mL/hour; (62.5 × 10) ÷ 60 = 10 gtt/min)

10. 50 gtt/min. (300 mL ÷ 2 hours = 150 mL/hour; (150 × 20) ÷ 60 = 50 gtt/min)