

NURSING CALCULATIONS

Concentration, Flow Rate, Hourly Dosage

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| <p>1. Calculate the concentration in mg/mL if</p> <p>a The order is 300mg in 600mL normal saline</p> <p>b The order is 100mg in 400mL normal saline</p> <p>c The order is 200mg in 1L normal saline</p> <p>d The order is 900mg in 400mL normal saline</p> <p>e The order is 550mg in 440mL normal saline</p> | <p>2 d Hourly Dosage: 15mg/hr
Concentration: 60mg/200mL</p> <p>2 e Hourly Dosage: 20mg/hr
Concentration: 20mg/300mL</p> |
| <p>2 Calculate the Flow Rate (in mL/hr) if</p> <p>a Hourly Dosage: 3mg/hr
Concentration: 60mg/250mL</p> <p>b Hourly Dosage: 10mg/hr
Concentration: 30mg/600mL</p> <p>c Hourly Dosage: 5mg/hr
Concentration: 10mg/150mL</p> | <p>3 Calculate the hourly dosage in mg/hr if</p> <p>a Flow Rate: 200mL/hr
Concentration: 30mg/600mL</p> <p>b Flow Rate: 75mL/hr
Concentration: 10mg/150mL</p> <p>c Flow Rate: 50mL/hr
Concentration: 60mg/200mL</p> <p>d Flow Rate: 75mL/hr
Concentration: 50mg/150mL</p> <p>e Flow Rate: 100mL/hr
Concentration: 15mg/60mL</p> |

Answers

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| <p>1</p> <p>a 0.5mg/mL</p> <p>b 0.25mg/mL</p> <p>c 0.5mg/mL</p> <p>d 1.25mg/mL</p> <p>e 2.25mg/mL</p> | <p>3</p> <p>a 10mg/hr</p> <p>b 5mg/hr</p> <p>c 15mg/hr</p> <p>d 25mg/hr</p> <p>e 25mg/hr</p> |
| <p>2</p> <p>a 12.5mL/hr</p> <p>b 200mL/hr</p> <p>c 75mL/hr</p> <p>d 50mL/hr</p> | |