



Magnesium Sulfate

Dosage Calculations

by Nurse Sarah



Practice Problem 1:

A patient with eclampsia has been ordered IV magnesium sulfate. The healthcare provider orders a 4 g loading dose to be infused over 20 minutes. You're supplied with a 4 g/100 mL bag. What is the infusion rate (mL/hr) of the ordered loading dose?

Ordered: 4 g loading dose over 20 minutes
Supplied: 4 g/100 mL bag

✓ solving: mL/hr

Workbox:

ANSWER: _____

Practice Problem 2:

A patient is 29 weeks pregnant has eclampsia. The patient has received a 6 g loading dose. Now, the healthcare provider orders a 1 g/hr maintenance infusion of IV Magnesium Sulfate. You're supplied with a 20 g/500 mL IV bag of this medication. What is the rate of infusion for the maintenance order?

Ordered: 1 g/hr
Supplied: 20 g/500 mL bag

✓ solving: mL/hr

Workbox:

ANSWER: _____

Practice Problem 3:

A patient with eclampsia is ordered magnesium sulfate. The healthcare provider wants the patient to have a loading dose of 6 g over 20 minutes. You're supplied with a 4 g/100 mL bag. Then a maintenance infusion of 2 g/hr, and you're supplied with a 10g/250 mL bag. Determine the flow rates of the loading dose and maintenance dose (mL/hr).

Loading Dose
Ordered: 6 g loading dose over 20 minutes
Supplied: 4 g/100 mL bag ✓ solving: mL/hr

Maintenance Dose
Ordered: 2 g/hr
Supplied: 10 g/250 mL bag ✓ solving: mL/hr

Workbox:



Metric Table

1 g = 1000 mg	1 L = 1000 mL
1 mg = 1000 mcg	1 tsp = 5 mL
1 kg = 1000 g	1 Tbsp = 15 mL
1 kg = 2.2 lbs	1 Tbsp = 3 tsp
1 oz = 30 mL	1 oz = 2 Tbsp

ANSWERS: Loading: _____ Maintenance: _____



This worksheet corresponds with the video titled "Magnesium Sulfate Nursing Dosage Calculations" on YouTube Channel RegisteredNurseRN.



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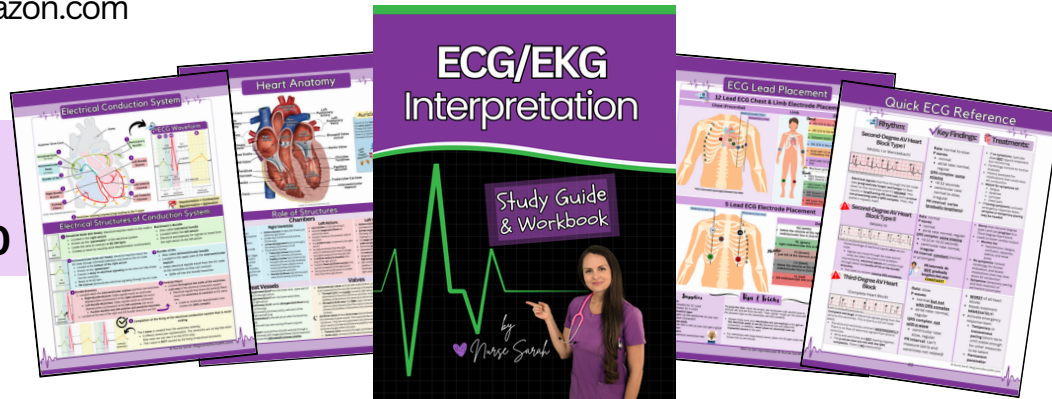
Answers:
Problem 1: 300 mL/hr
Problem 2: 25 mL/hr
Problem 3: loading: 450 mL/hr maintenance: 50 mL/hr

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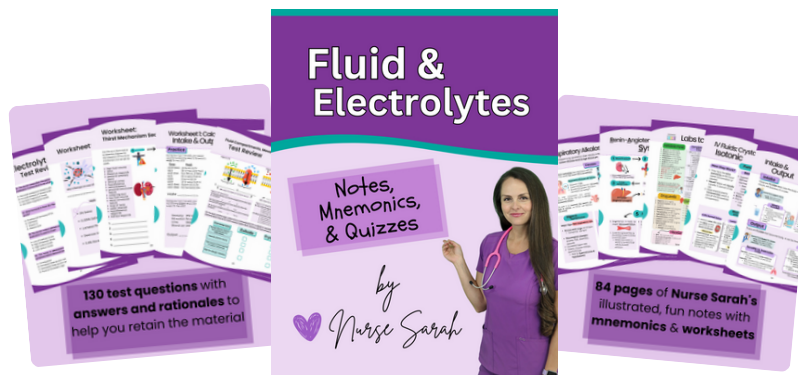


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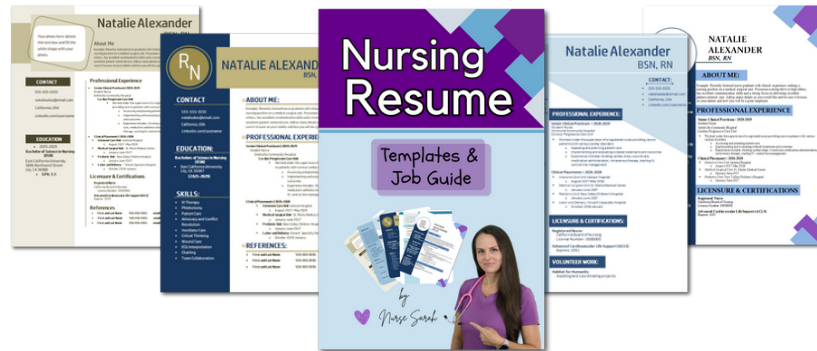
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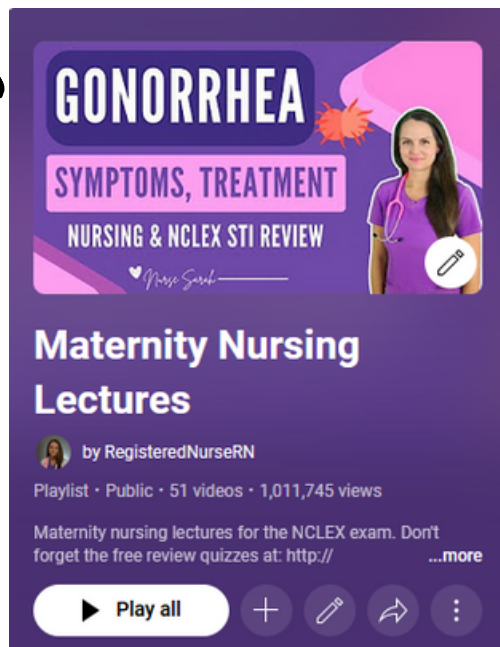


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