

Exhibit

The nurse is caring for a pediatric client who is prescribed IV naloxone for opioid-related pruritis. At what rate in milliliters per hour (mL/hr) should the nurse initiate the diluted naloxone solution? **Click the exhibit button for additional information. Record your answer using one decimal place.**



Answer: (mL/hr)

CorrectCorrect answer
13.2

36%

Answered correctly



4 min 15 sec

Time Spent



12/12/2020

Last Updated

[Explanation](#)[Alternate Method](#)

Using dimensional analysis, perform the following steps to calculate the infusion rate in milliliters per hour of naloxone (NAL) diluted in normal saline (NS):

1. **Identify** the prescribed, available, and required medication information

$$\text{Prescribed: } \frac{2 \text{ mcg NAL}}{\text{kg/hr}} \quad \text{Available: } \frac{2 \text{ mg NAL}}{2 \text{ mL}} \quad \text{Required: } \frac{\text{mL NAL}}{\text{hr}}$$

2. **Identify** the final diluted medication volume

Dilution instructions : infusion bag – medication volume + medication

OR

$$500 \text{ mL NS} - 2 \text{ mL NS} + 2 \text{ mL NAL} = 500 \text{ mL diluted NAL or } \frac{2 \text{ mg NAL}}{500 \text{ mL}}$$

3. **Convert** the prescription to the infusion rate of NAL in milliliters per hour

$$\text{Prescription} \times \text{diluted medication} = \frac{\text{mL NAL}}{\text{hr}}$$

OR

$$\left(\frac{\text{mcg NAL}}{\text{kg/hr}} \right) \left(\frac{\text{kg}}{\text{lb}} \right) \left(\frac{\text{lb}}{\text{mg}} \right) \left(\frac{\text{mg}}{\text{mL}} \right) \left(\frac{\text{mL}}{\text{mg NAL}} \right) = \frac{\text{mL NAL}}{\text{hr}}$$

OR

$$\left(\frac{2 \text{ mcg NAL}}{\text{kg/hr}} \right) \left(\frac{\text{kg}}{2.2 \text{ lb}} \right) \left(\frac{58 \text{ lb}}{\text{mg}} \right) \left(\frac{\text{mg}}{1000 \text{ mcg}} \right) \left(\frac{500 \text{ mL}}{2 \text{ mg NAL}} \right) = \frac{13.1818 \text{ mL NAL}}{\text{hr}}$$

4. **Round** to one decimal place

$$\frac{13.1818 \text{ mL NAL}}{\text{hr}} \approx \frac{13.2 \text{ mL NAL}}{\text{hr}}$$

Educational objective:

To calculate the infusion rate of naloxone diluted in normal saline, the nurse should first identify the prescribed dose (eg, 2 mcg/kg/hr), available medication (eg, 2 mg/2 mL), and diluted volume (eg, 2 mg/500 mL) and then convert to milliliters per hour (eg, 13.2 mL/hr).

Math Practice Problems Medical Assistants

Minjie Lin



Math Practice Problems Medical Assistants:

The Enigmatic Realm of **Math Practice Problems Medical Assistants**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Math Practice Problems Medical Assistants** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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