DILUTION AND STRENGTHS OF SOLUTIONS

A drug when dissolved in a solution and the strength of the solution may be expressed as:

- > grams per liter
- > mg/ml
- > ratio strength
- > percentage

Ratio

1) How many ml of a 1:1000 solution of adrenaline is required to administer 0.5mg of adrenaline to a client with anaphylactic shock?

Therefore, 0.5 mg in 0.5 ml Ans = 0.5 ml

Percentage

2) The physician has ordered to administer 180mg of 2% drug. How much is to be given in ml?

Sol: 1% is 1 gram in 100 ml solution

$$180 \text{ mg} \times 100 \text{ ml} = 180 \text{ mg} \times 100 \text{ ml}$$
 Ans = 9 ml
2 gram 2000mg