



PCP Autonomous IV Program

Medical Math Station

To the instructor:

This is a difficult subject for a lot of people. The main problem seems to be basic math. We have all learned it differently over the years. They should have been taught one way but as long as they can get to the correct answer every time any method is acceptable. The decision to allow calculators or charts present during the exam is a local one but remember that basic math is the best back up when calculators are forgotten or fail in the field.

Want =amount to administer
Have

Want: can be stated amount or be weight based & have calculations (dopamine)
Have: is concentration of drug or solution

Parkland Burn therapy: $(4\text{mls/kg} \times \% \text{ burn surface area}) = \text{amt given over 24hrs}$

1st half administered in the 1st 8hrs, 2nd half in the next 16hrs
Calculate the total amount and gtt/min

Conversion between units of measure (eg.grams-mg; lbs-kg; % solution)

Fluid bolus calculations of different solutions

Calculate the weight of a pediatric patient from lbs-kg then what dosage of Epi (1:1000), ventolin, and glucagon can be given.

Weight – $2 \times \text{age} + 8 = ? \text{ Kg}$

* Do as many practice questions as possible. Get feedback from the individual groups as to what they would like to practice. Anything goes from simple math to complicated Dopamine calculations.