Burns Resources

Fluid Formula

Formula for Fluid Resuscitation of the Burn Patient (Also known as the Parkland Formula)

\[ \text{Pts Wt} \times \% \text{TBSA} \times 4.0 \text{cc LR infused over 24 hours with half given in the first 8 hours.} \]

(For the equation, the abbreviations are: \( \text{PW} \times \text{TBSA} \times 4.0 \text{cc} \))

EMS focuses on the care given during the 1st hour or several hours following the event. Thus the formula as adapted for EMS and the first 8 hours is:

\[ \text{PW} \times \text{TBSA} \times 4.0 \text{cc}, \text{divide by 2} \]

to take this to the hourly rate, divide that solution by 8 and the equation becomes:

\[ \text{PW} \times \text{TBSA} \times 0.25 \text{cc} = \text{total to be infused for each hour of the first 8 hours.} \]

Another way to state the equation is to use:

\[ \text{PW} \times \text{TBSA} \times 0.25 \text{cc} = \text{total to be infused for each hour of the first 8 hours.} \]

Example, 80 kg patient with 50% TBSA x 0.25 cc = 1000 cc/hr.

Remember:

Patient’s Weight in kg (2.2 lbs = 1.0 kg) example: 220 lbs adult = 100 kg

\% TSBA = Rule of Nine Total Body Surface Area

Factor for the 1st hr. and each hr. for the 1st 8 hrs. = 0.25

(Reminder, if two IV’s are running, divide total amount to be infused each hr. by 2)