

# **Parkland Formula**



**PLAY PICMONIC** 

### **Burn victims**

Burned victims

The Parkland Formula is used to calculate the amount of fluid given to burn victims.

### 24 hours

24 hour clock

This formula is used to calculate the amount of fluid given in the first 24 hours.

# TBSA% x Weight x 4 = Fluids

## TBSA %

TBSA Agent

TBSA %, or total body surface area % burned, is approximated using the rule of 9's. This approximate percentage is then used in the Parkland formula.

### x Weight (kg)

Kg Scale

The TBSA % is then multiplied against the patient's weight in kg.

### x 4

(4) Fork

The patient's TBSA% x the patient weight in kg is then multiplied by 4.

## = Fluid Requirement (in first 24 hrs)

Saline fluid

By multiplying the TBSA % x weight in kg x 4, we are able to calculate the burn victim's fluid requirement in the first 24 hours.

# Fluids in first 8 hours

## 1/2 of fluid given in first 8 hours

Half of fluid drained from 8-bag

Of the total fluid which is calculated, the first ½ of the calculated fluid requirement is administered in the first 8 hours. The next ½ is then given over the period of 16 hours.