Fluid Resuscitation Calculation Sheet for the Adult Burn Patient > 30 kg

Burn Disaster Crisis Standards of Care

Fluid Resuscitation Formulas
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Body surface area calculation equals (m ²):
3600
Fluid resuscitation calculation
4 ml x weight (kg) x Burn Area (%TBSA)
Basal Fluid Requirement.
1500 ml / 24 hours x Body Surface Area
1. Fluid Resuscitation and Basal Requirement
Calculated fluid resuscitation and basal requirement
A. $(4ml x kg x %TBSA) + (1500 ml x m^2) = ml/ 24 hours$
B. Resuscitation Fluid for the First 24 Hours
Give half the calculated volume in the first 8 hours. Then the other half in the next 16 hours.
i. 1st 8 hours =ml =ml/hr
ii. 2 nd 8 hours =ml =ml/hr iii. 3 rd 8 hours =ml =ml/hr
The resuscitation fluid will be titrated hourly based on the patients urine output until the calculated
maintenance rate goal is reached. See fluid resuscitation order sheet for the burn patient >30 kg
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2. <u>Maintenance fluids = Basal Fluid Requirement and Evaporative Water Loss</u>
A. Basal Fluid Requirement = 1500ml xm ²
i. Total body surface aream²
ii. 24 hours =ml
iii. Hourly rate =ml/hr
B. Evaporative Water Loss
Burn Patient > $30 \text{kg} = (25 + \% \text{TBSA}) \text{ x}m^2 = \text{ml/hr}$
i. Calculated evaporative water loss
$(25 + \%TBSA) \times m^2 = ml/hr$
=ml/ 24 hrs
ii. Total maintenance fluids including basal requirement and evaporative water loss
1. 24 hours = ml
2. Hourly rate =ml/hr
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