



VA: VGH / UBCH / GFS  
VC: BP / Purdy / GPC

**ORDERS**

ADDRESSOGRAPH

**COMPLETE OR REVIEW ALLERGY STATUS PRIOR TO WRITING ORDERS**

**Major Burn - Initial 24 hours Fluid Resuscitation Orders for Adults (REGIONAL)**

(items with check boxes must be selected to be ordered)

**(Page 1 of 3)**

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Time Processed  
RN/LPN Initials  
Comments

**ADMISSION INSTRUCTIONS:**

Complete BTHA - Burn Injured Patient Admission Orders (VCH.VA.PPO.200) **\*\*OR\*\*** ICU Burn Injured Patient Admission Wound Care Orders (VCH.VA.PPO.779)

**FLUID RESUSCITATION GUIDELINES:**

**Initiate fluid resuscitation orders for:**

- Patients 65 years of age or older and with burns greater than or equal to 10% TBSA
- Patients younger than 65 years of age and with burns greater than or equal to 20% TBSA

Fluid resuscitation estimates are based on the patient's body weight and the total body surface area burned, calculate using the Lund-Browder Chart

Fluid resuscitation, regardless of estimated needs, should be titrated to maintain urine output goals. Administer the least amount of fluid necessary to maintain adequate organ perfusion.

Automated infusion devices for IV fluids are recommended. Avoid IV boluses.

Increased volume requirements can be anticipated in patients with full thickness injuries, inhalation injury or a delay in resuscitation

For delayed resuscitations, use clinical judgement to calculate the initial IV rate and titrate according to urine output

Date of Burn: \_\_\_\_\_ Time of Burn Injury: \_\_\_\_\_ hr  
 Patient's Weight: \_\_\_\_\_ kg Time Elapsed since Time of Burn: \_\_\_\_\_ hr (s)  
 Fluids administered pre-hospital: \_\_\_\_\_ mL  
 Percentage of Total Body Surface Area (TBSA) Burned: \_\_\_\_\_ %

Calculate TBSA using the TBSA Burn Estimation chart:

[http://www.phsa.ca/our-services-site/Documents/TBSA\\_Burn\\_Estimation\\_Chart.pdf](http://www.phsa.ca/our-services-site/Documents/TBSA_Burn_Estimation_Chart.pdf)

For VGH; use Burn Estimation chart (TBSA), BCHA.0014

<https://v2.printsys.net/References/VCHHealth/VCHGroup/Static-Forms/BCHA.0014.pdf>

**INTRAVENOUS SOLUTION:**

- Lactate Ringers
- Other: \_\_\_\_\_

\_\_\_\_\_  
Prescriber's Signature

\_\_\_\_\_  
Printed Name  
VCH.VA.PPO.1005 I Rev.JUL.2018

\_\_\_\_\_  
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**RESUSCITATION FLUID CALCULATION**

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Administer half of the 24-hour total in the first 8 hours post burn injury and the remaining half in the next 16 hours.

The first 8 hour IV rate must take into consideration the fluid already administered and the hours that have elapsed from time of injury to time of resuscitation.

**Estimated 24 Hour total IV Fluids:**

$$A = 3 \text{ mL} \times \frac{\text{Patient's weight}}{\text{kg}} \times \frac{\text{\% TBSA Burned}}{\text{\%}} =$$

**24 Hour Fluid Total:**  
A = \_\_\_\_\_ mL/24 h

**Estimated first 8 hours IV rate:**

Half of the 24 hour estimated fluids minus fluids already administered and divide by the remaining hours of the first 8 hours since the time of burn

B = Half of the estimated 24 hour total fluids =  $A \div 2 =$  \_\_\_\_\_ mL

C = Amount of fluids already administered = \_\_\_\_\_ mL

D = 8 hours minus time elapsed since time of burn injury = \_\_\_\_\_ h

**First 8 Hour IV Rate:**  
 $(B - C) \div D =$  \_\_\_\_\_ mL/h  
 $(\frac{\text{ } \text{mL}}{B} - \frac{\text{ } \text{mL}}{C}) \div \frac{\text{ } \text{h}}{D} =$  \_\_\_\_\_ mL/h

**Estimated second 16 hours IV rate :**

Half of estimated 24 hour IV fluids divided by 16 hours

**Second 16 Hour IV Rate:**  
 $B \div 16 =$  \_\_\_\_\_ mL/h  
 $\frac{\text{ } \text{mL}}{B} \div 16 =$  \_\_\_\_\_ mL/h

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**MONITORING**

**Fluid Resuscitation Titration:**

Monitor urine output hourly. Volume to be administered should be continually titrated to avoid both under and over-resuscitation

Document on the Major Burn Fluid Resuscitation Flowsheet (BCHA.0022)  
<https://v2.printsys.net/References/VCHHealth/VCHGroup/Static-Forms/BCHA.0022.pdf>

**In the first 8 hours:**

Call the physician if IV rate is titrated 3 times or more

At 8 hours, if the IV rate is lower than the estimated 16 hour rate, continue with the lower rate

Urine output goal: 30 to 50 mL/hour

If urine output is less than 30 mL/h X 2 consecutive hours: increase IV rate by 20%. Avoid IV boluses.

If urine output is greater than 50 mL/h x 2 consecutive hours: decrease IV rate by 20%

Electrical burns\* urine output goal: 50 to 100 mL/hour

\* Injury is a result of direct contact with high voltage, NOT burns sustained from electrical arc (flash) without direct contact.

If urine output is less than 50 mL/h X 2 consecutive hours: increase IV rate by 20%. Avoid IV boluses.

If urine output is greater than 100mL/h X 2 consecutive: decrease IV rate by 20%

**8 Hour Post-Burn Fluid Resuscitation Re-assessment:**

RN will complete the 8 Hour re-assessment calculations on the Major Burn Fluid Resuscitation Flowsheet (BCHA.0022) and contact the physician if indicated.

At the end of the 24 hour fluid resuscitation, contact the physician for a maintenance IV rate

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