

**PRESCRIBER'S ORDERS  
INTENSIVE CARE UNIT  
SEVERE BURN PATIENTS (greater 25%TBSA)**

DATE \_\_\_/\_\_\_/\_\_\_ TIME \_\_\_:\_\_\_ HOURS  
DD MM YYYY

WEIGHT \_\_\_\_\_ kilograms      HEIGHT \_\_\_\_\_ centimetres       ALLERGY CAUTION SHEET REVIEWED

Pharmacy Use Only      WRITE FIRMLY WITH A BALLPOINT PEN      Noted by RN/UC

**ATTENDING PHYSICIANS**

**Intensivist** \_\_\_\_\_      **Plastic Surgeon** \_\_\_\_\_

Plastic Surgeon on call notified at time \_\_\_ : \_\_\_ hours (hr)

**INJURY INFORMATION**

% Total Body Surface Area (TBSA) burn \_\_\_\_\_

Type of burn \_\_\_\_\_

Injury time \_\_\_:\_\_\_ hr

Prehospital resuscitation fluid volume \_\_\_\_\_ millilitres (mL)

**MAINTENANCE FLUIDS**

Maintenance fluid rate \_\_\_\_\_ mL/hr (75% maintenance)

D10W / 0.9% NaCl for weight less than 5 kilograms (kg)

D5W / 0.9% NaCl for weight at or above 5 kg

**MONITORING PARAMETERS AND OXYGEN THERAPY**

Heart rate less than 170 (see Age Related Vital Signs for range)

Mean arterial pressure greater than 55 mmHg (see Recommendations for Hypotension prior to treatment)

Oxygen saturation greater than 92%

Target urine output 0.5 – 1 mL/kg/hr

Patient temperature 37.5 – 38.5 °Celsius

**CENTRAL VENOUS MONITORING LINES**

Add Heparin 2 units/mL to central line fluid if no other fluids running through lumen

0.9% NaCl at 1 mL/hr for weight less than 20 kg

0.9% NaCl at 2 mL/hr for weight at or above 20 kg

**ARTERIAL MONITORING LINES**

0.9% NaCl with Heparin 2 units/mL at 1 mL/hr for weight less than 20 kg

0.9% NaCl with Heparin 2 units/mL at 2 mL/hr for weight at or above 20 kg

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**INITIAL RESUSCITATION FLUID CALCULATIONS (TIME ZERO IS TIME OF INJURY)**

- (Patient weight) x (% TBSA) x (3 mL/kg/%TBSA) = Total resuscitation fluid volume in first 24 hours after injury:  
\_\_\_\_\_ kg x \_\_\_\_\_ % x 3 mL/kg/%TBSA = \_\_\_\_\_ mL resuscitation fluid in first 24 hours after injury
- 50% of total resuscitation volume given in first 8 hours after injury:  
\_\_\_\_\_ mL in 24 hours / 2 = \_\_\_\_\_ mL in first 8 hours after injury
- Adjust for pre-calculation fluid administration:  
\_\_\_\_\_ mL in first 8 hours - \_\_\_\_\_ mL resuscitation fluid already administered = \_\_\_\_\_ mL remaining for first 8 hours after injury
- Volume remaining / time remaining in first 8 hours = Initial BCCH resuscitation fluid rate:  
\_\_\_\_\_ mL/(8 - \_\_\_\_\_ hours since burn) = \_\_\_\_\_ mL/hr continuous intravenous infusion of Lactated Ringer's
- Adjust rate per Pediatric Burn Resuscitation Protocol guidelines

**BURN SPECIFIC MEDICATIONS**

- Ascorbic acid 66 mg/kg/hr continuous intravenous infusion (reconstituted in Lactated Ringer's) for 24 hours post injury then discontinue
- Account for ascorbic acid infusion rate as part of the total resuscitation fluid rate calculated above
- Hydroxocobalamin \_\_\_\_\_ mg (70 mg/kg/dose, maximum dose 5 grams) IV single dose (for all patients with documented or suspected inhalational injury)

**ANALGESIA AND SEDATION**

- Acetaminophen \_\_\_\_\_ mg (15 mg/kg/dose) PO/PR/NG/NJ Q6H as needed for comfort
- Morphine 0-20 mcg/kg/hr continuous IV infusion, titrated to maintain MAPS 0
- Morphine bolus \_\_\_\_\_ mg (0.05 mg/kg/dose) IV Q1H as needed to maintain MAPS 0
- Dexmedetomidine 0 – 0.7 mcg/kg/hr continuous IV infusion, titrated to maintain SBS -1 to 0 and MAPS 0
- Midazolam 0-120 mcg/kg/hour continuous IV infusion, titrated to maintain SBS -1 to 0
- Midazolam bolus \_\_\_\_\_ mg (0.05 mg/kg/dose) IV Q1H as needed to maintain SBS -1 to 0
- Pain and sedation management per ICU Burn Protocol

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**PATIENT CARE**

- Enteral feeds with \_\_\_\_\_ formula at 5 ml/hour via nasogastric tube (start immediately at admission)
- Increase feeds to goal rate \_\_\_\_\_ ml/hour as tolerated
- Insert nasojejunal tube for continuous feeding within first 24 hours after injury
- Blood product transfusions only after consultation with Plastic surgery and Intensive Care attending physicians
- Burn dressings per plastic surgery
- Elevate burned areas if possible
- Room temperature 25 °Celsius
- Measure and record bladder pressure Q6H – notify physician if rising or greater than 12 millimetres mercury (consider if increasing ventilatory pressures, decreasing urine output or increasing abdominal distension)

**INVESTIGATIONS AND BLOODWORK**

- Chest xray on admission
- Arterial blood gas, Complete blood count, Sodium, Potassium, Chloride, BUN, Creatinine Q8H for the first 24 hours
- Arterial blood gas, Complete blood count, Sodium, Potassium, Chloride, BUN, Creatinine q12h for the second 24 hours
- Arterial blood gas, Complete blood count, Sodium, Potassium, Chloride, BUN, Creatinine once daily at 0600 subsequently
- Arterial blood gas as needed subsequently

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## LEGEND

ABBREVIATION	EXPLANATION	ABBREVIATION	EXPLANATION
cm	Centimeters	min	Minute
CXR	Chest xray	MAP	Mean arterial pressure
CVP	Central venous pressure	NG	Nasogastric
ECG	Electrocardiogram	NJ	Nasojejunal
HR	Heart rate	NPO	Nothing by mouth
IV	Intravenously	PO	Orally
kg	Kilogram	PR	Rectally
mL	Millilitre	SBS	State behavioural scale
MAPS	Multidimensional assessment of pain score	SpO2	Oxygen saturation
mcg	Microgram	ScvO2	Central venous oxygenation
mg	Milligram	TBSA	Total body surface area

## AGE APPROPRIATE VITAL SIGN RANGES

Suggested Range of Normal Values					
Age Group	0 days– 3 months	3-12 months	1-4 years	4 yrs – 12 yrs	>12 years
<b>HR</b>	110-150	100-150	90-120	70-110	60-100
<b>RR</b>	30-60	25-50	20-40	20-30	12-16
<b>Systolic</b>	60-80	80-100	90-110	90-120	100-130
<b>MAP</b>	55	60	65	65	65