Accos[®] Burn Navigator[®] Quick Guide

Customer Support! 877.542.8025 support@ arcosmedical.com

For Burn Navigator Web Version 6.2.4

Room: demo Weight: 77kg 16:03 TBSA: 65% HPB: 11 I/O Table Volume III/O Graph Patient Notes Home Cumulative Infusion Volume 24,000 22,000 4 mL/kg/TBSA (20,020 mL) 20,000) mL/kg/24 Hours (19,250 mL) 18,000 16,000 200 mL/kg/24 Hours (15,400 mL) 14,000 (J12,000 emno,000 2 mL/kg/TBSA (10,010 mL) 8,000 6,000 4,000 Projected 24 hour volume 2,000 194 mL/kg 00:00 02:00 04:00 06:00 06:00 08:00 10:00 12:00 14:00 16:00 18:00 20:00 22:00 Time HPB 3 5 7 11 13 15 17 19 21 23 25 1 9

© Oct 2019 Arcos, Inc.

What is Burn Navigator? Burn Navigator is a <u>Clinical</u> <u>Decision Support</u> tool to help health care professionals manage IV fluid therapy for adult and pediatric severe burn patients

Who Developed It?

Burn nurses, doctors and engineers at the U.S. Army Burn Center (San Antonio) and Arcos, Inc. (Houston)

Clinical Data

Army's Initial Retrospective Study (n=70)¹

- 24 hour fluids given reduced from 6.5 to 4.2 mL/kg/TBSA
- 2.5 fewer ventilator days
- Decreased mortality between cohorts

Army Retrospective Review (n=207)²

- 24 hour fluids given were 3.5 mL/kg/TBSA
- Mean urine output for initial 24 hours was 55 mL/hr

UTMB Retrospective Review (n=154)³

- AKI incidence reduced from 15% to 6% in first five days (p=.089)
- 1 Salinas, J et al, Computerized decision support system improves fluid resuscitation following severe burns: An original study, Crit Care Med 2011, 39(9), 2031-8.
- 2 J Salinas et al, *Review of Patients Resuscitated Using a Computerized Decision Support System in A Burn Intensive Care Unit*. Crit Care Med 2012, 225: Abstract only.
- 3 Sheaffer J et al, *Incidence of Acute Kidney Injury in Computerized Decision Support System Guided Fluid Resuscitations*, American Burn Association Oral Presentation, 24 March 2017.



What Does It Show? I/O Graph

Primary Resus Fluid

What is titrated (blue bars)

Additional Fluids

E.g. albumin, FFP, ... (colored by category)

Urine Output

Green: In Target Yellow: Below Target Red: Above Target



What Does It Show? Alerts! Room: Training Weight: 20kg TBSA: 60% HPB: 6 18:34 Alert! "Non Responder" Urinary output is not responding to fluid therapy. Check Foley catheter for obstruction and check bladder

Alert

Urinary output is not responding to fluid therapy. Ch Foley catheter for obstruction and check bladder pressure. Patient may be a fluid "non-responder". Contact attending physician.



How to Get Started!!

Check Your Email!

From: "BurnNav.net" <<u>info@arcosmedical.com</u>> Subject: BurnNav Web Invitation

Burn Navigator[®]

You have been invited to use Burn Navigator.

Please click here to set your Burn Navigator password.

Thank you for using Burn Navigator[®].

If you have any questions or comments please feel free to contact us at info@arcosmedical.com. You can also provide feedback in the patient app by selecting the feedback icon in the upper right corner.

Please do not reply to this email. It was sent to you via an automated email system. All emails from Arcos Inc. or <u>burnnav.net</u> are strictly confidential.

Click the link to set your password

Log into Burn Nav Web

https://burnnav.net

Click "Login"

2

Enter email & password

Arcos Hospita	al					Welcome Chris -	
Active patients							
Room No.	TBSA	Weight	Protocol	Hours Post Burn	Report	Session Id	
training	65 %	80 kg	Adult predictive algorithm	HPB 1	PDF	training-100	
Training603	50 %	67 kg	Adult predictive algorithm	HPB 6	PDF	training-96	



Click "Training Mode"

Confounders

Room: 501	Weight:	80kg	TBSA: %	HPB:	09:14
Confounders					
Does the patient have					
Gross myoglobinuria?		Yes	No No	O Unknov	wn
High blood alcohol/Et	OH?	Yes	No No	O Unknov	wn
Hyperglycemia?		Yes	No No	O Unknov	wn
End stage renal disea	se?	Yes	No No	O Unknov	wn
Congestive heart failu	re?	Yes	No No	O Unknov	wn
Urinary catheter?		O Yes	No No		
			в	ack N	ext

Talk with provider about the appropriate UO target if there are confounders

Choose Protocol

Room: 501	Weight: 80kg	TBSA: %	HPB:					
Select the patient protocol:								
O Adult predictiv	e protocol							
Targets 30 - 50 Up to 15% chai Recommended	mL/hr nges each hour. for most adults w	ithout gross myc	oglobinuria.					
Custom protoc	ol							
Target: 0.5 Limited to 10% Recommended	to 1.0 mL/kg, changes each hou for pediatric patie	40 - 80 mL/hr ur. ents.	urine output.					
Monitor only								
No hourly recor Provides resus	nmendations. citation graphs and	d alerts.						
L. Adult predictive is common if there are no confounders								

- Custom lets you change the UO target, e.g., 75-100mL for myoglobinuria
- **3. Monitor Only** if UO is not a good resuscitation indicator, e.g., renal failure, diuretics

Starting Rate

Room: Training Weight: 80kg TBSA: 80% HPB: 9 09:4' Select primary resuscitation fluid: Lactated Ringer's • Select initial rate formula: • 3 mL/kg/TBSA • Recommended rate: Enter new rate: 600 mL/hr 600 mL/hr Back Next You can type any rate the provider wants					
Select primary resuscitation fluid: Lactated Ringer's • Select initial rate formula: 3 mL/kg/TBSA • Recommended rate: Enter new rate: 600 mL/hr 600 mL/hr Back Next State of the provider wants	Room: Training	Weight: 80kg	TBSA: 80%	HPB: 9	09:41
Lactated Ringer's • Select initial rate formula: 3 mL/kg/TBSA 3 mL/kg/TBSA • Recommended rate: Enter new rate: 600 mL/hr 600 mL/hr Back Next	Select primary re	suscitation fluid:			
Select initial rate formula: 3 mL/kg/TBSA Recommended rate: Enter new rate: 600 mL/hr Back Next You can type any rate the provider wants	Lactated Ringer's				•
3 mL/kg/TBSA • Recommended rate: Enter new rate: 600 mL/hr 600 mL/hr Back Next	Select initial rate	formula:			
Recommended rate: 600 mL/hr Back Next You can type any rate the provider wants	3 mL/kg/TBSA				•
600 mL/hr Back Next You can type any rate the provider wants	Recommended ra	ate:	Enter new rate:		
You can type any rate the provider wants	600	mL/hr	600	mL/hr	
You can type any rate the provider wants			7	Back	Next
	You can ty the provid	pe any ra er wants	te		

"Home" Screen

Room: Traini	ng	Weight: 80kg	TBSA: 80	% HP	B: 9	09:43		
Home	Patient	Notes	I/O Table	Volume	I/O	Graph		
Cu	Current primary fluid:			Next update due:				
Lactated Ringer's			17 minutes					
Cu	rrent infusion	rate:	Proje	ected 24 hou	ır volun	ıe		
	600	mL/hr		2.5 mL/kg/T	BSA			
 Adult pr Custom Monitor 	edictive proto protocol only Stop Burr Navigator	col 30 to 50 r 30 to Enter Notes	mL 50 mL Enter Checklist	Main Menu	Ne	ext late		
1. You nee 2. Pre ahe	u can c eded ess "Ne ead (tr	hange ext Upd aining	proto late" t mode	col if co zoo	m			

Fluid Updates

1 Urine Output + Current Rate

Room: Training	Weight: 80kg	TBSA: 80	% HPB: 10	10:00
Fluid Update: Urine D	ata			
Urine measurement ti	me			
From:09:42	To: 1	0:00	18 mins	
Urine output volume				
3	mL	0.	1 mL/kg/hr	
Urine output is r	not measured or	r unknown		
0			Back	Novt
			Back	Next
Room: Training	Weight: 80kg	TBSA: 80	% HPB: 10	10:01
Fluids Given	ning Weight: 80kg TBSA: 80% HPB: 10 10:00 pdate: Urine Data neasurement time From:09:42 To: 10:00 18 mins utput volume 3 mL 0.1 mL/kg/hr rine output is not measured or unknown Back Next ning Weight: 80kg TBSA: 80% HPB: 10 10:01 en m:09:42 To:10:00 18 mins id was: inger's • te: Infusion volume: 600 mL/hr 180 mL Back Next			
From:09:42	To:10	To:10:00 18 m		
Primary fluid was:				
Lactated Ringer's				T
Infusion rate:		Infusion volu	ume:	
600	mL/hr		180 mL	
			Back	Next

Α (dditio	nal Fluid	ls			
oom:	Training	Weight: 80kg	TBSA: 809	% HPB	3: 12	12:0
Additior	nal Fluids					
Flu	uid		Volum	ie		Repea
X All	bumin 5%			70	mL	
× Fre	esh Frozen Pla	asma		250	mL	\bigcirc
S	elect a fluid type		T			
		Total Additior	nal Fluids: 320 r	nL		
	Safety	Ouestio	ns (sor	netin	nes)	
Roo	om: Training	Weight: 80	kg TBSA: 80	% HPB	: 12	12:03
Safe	ety Questions					
	Is patier	nt hypotensive?	O Yes	No No		
	Is patient h	nyperglycemic?	Yes	O No		
	Is patier	nt on pressors?	Yes	O No		
	ls patie	nt on diuretics?	Yes	O No		
	Νο	w ratel				
Ro	oom: Training	Weight: 80kg	TBSA: 80%	HPB: 10	10:05	
	New Rate					
		Previous infusio	n rate: 600 mL/hr			
	Fluid type:	Lactated Ringer's			T	
	Recommended	rate:	New rate:			
	690	mL/hr	690) mL/hr		
	4	15 %		15 %		

Indications For Use (Detailed)

- The Burn Navigator is indicated for use in the care of <u>adult</u> patients with 20% or more Total Body Surface Area (TBSA) burned, or <u>pediatric</u> patients, 24 months old or older, weighing <u>at</u> <u>least 10 kg</u> with 15% or more TBSA burned, as a fluid resuscitation monitor and calculator for hourly fluid recommendations.
- The Burn Navigator is intended to be used for burn patients of <u>all ages, weights and co-</u> <u>morbidities as a fluid resuscitation monitor</u>.
- The Burn Navigator is intended to be <u>initiated</u> within 24 hours of the burn incident and to be used no longer than 72 hours post burn.

Keep in Mind!

Recommendations are only recommendations!

Understand the whole clinical picture, communicate with the attending physician, and do what's best for the patient

As a CDS tool, Burn Navigator is not intended to replace clinical decision judgement, rather it informs clinical decision making.

Users should always rely on their clinical judgment when making decision regarding patient care. The Burn Navigator recommendations are not a substitute for clinical judgment.

Super User Checklist

- Volume Graph examples
- Protocols in detail
- Additional Fluids red message
- I/O Table
- Notes
- Checklists
- Patient tab to edit patient values
- Editing Fluid Updates (10 min window)
- Admin/Clinical Settings
- Safety Rules
- PDF



