# PFC Vitals Chart Chart vitals here first then trend on the PFC FLowsheet

Time	Resp Rate	Pulse Ox	Heart Rate	Blood Pres	MAP= Sys+2Dia	Shock Index=	EtCO2	Temp
	Nate	Ox.	Nate	FIES	3	HR/SBP		

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	Nate	Ox.	Nate	FIES	3	HR/SBP		

										Prolon	ged Field Ca	are Casualty C					
Name:						Date:			Time			eight kg:		Body Weight:	Blood type:		Triage Category:
ID Number:									Time	Zone:	We	ight lbs:	Height		Titer:		EVAC Category:
Signs/symptoms:													M.I.S.T. Report Tim	ne:			
Allergies:															Stable	or Unstable	
Allergies.													Injuries / Illness / P		Stubic	Treatments - Plans	
									$\{3^{\frac{1}{2}}\}$		$\{3^{\frac{1}{2}}\}$						
											111						
									$\mathcal{M}$								
										/	_						
Medications:									/\	^	\ /						
									10	1,	/0						
								2	13 2	/2	2) 13 (2						
								N	1 M	L	/	$\lambda$					
								11:1	1 11	/11	11	11					
								1 7	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1.7	1	2					
Past Pertinent Hx:							/	Y	1114	$\sim$	1, 1	17				1	
							4	1/ [	11 / 1/1	41	$(2\frac{1}{2}   2\frac{1}{2})$	(1,)	1				<del></del>
							W	/	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	W/	1	MIL					
									$A_{4}^{3}$ $A_{4}^{3}$		\ \ /						
									\		$(4\frac{3}{4}) (4\frac{3}{4})$						
									1 11 1		\ Y /						
									MM		1						
Last Oral Intake:									$3\frac{1}{2}$ $3\frac{1}{2}$		$3\frac{1}{2}$ $3\frac{1}{2}$						
									1111		02 102						
									1717		MW						
									13 (3		/3) G3						
											14 14						
									and min		West Car						
Events Leading Up To I	Illness/Injury:																
TQ 1 time on:				_	TQ 2 tin	ne on:			_	TQ 3 time on:			TQ 4 time on:			2g TXA slow push time on:	
TO 4 Comments do					TO 2 C-					TO 2 Comments do			TO 4.6			1g Calcium given at:	Chloride (or) 30cc Ca Gluconate)
Time	Art	Ven	: 1	$\overline{}$	TQ 2 Co	inverte:	:	:	Notes, Telemedicine Rec	TQ 3 Converted:	flags and Standing	Orders	TQ 4 Converted:			(1g of elemental ca - 1occ ca	chloride (or) socc ca diaconate)
pH	7.38-7.44	.3241					Ė	Ė	ivotes, retemedicine nee	ommendations, red	nags and standing	Oracis.					
pCO2 (mmHg)	38-42	42-53															
TQ 1 Converted: Time pH pCO2 (mmHg) pO2 (mmHg) HCO3 (mEq/L)	75-100	35-42															
HCO3 (mEq/L)	23-26	24-28															
502 % Base D /F /mFm /1)	>95 (acid) -2 to	70-75					<u> </u>										
NA+ (mFq/L)	136-14																
K+ (mEa/L)	3.5-5.0						<u> </u>										
Ca++ (mg/dL)	8.6-10																
CI- (mEq/L)	98-10																
BUN (mg/dL)	8-20																
HCO3 (mEq/L) SO2 % Base D/E (mEq/L) NA+ (mEq/L) K+ (mEq/L) Ca++ (mg/dL) CI- (mEq/L) BUN (mg/dL) Creat (mg/dL)	m: 0.7-1.3/f:				$\vdash$		<u> </u>	<u> </u>									
Gluc (mg/dL)	70-99 3,200-9,				$\vdash$		$\vdash$	$\vdash$									
Creat (mg/dL) Gluc (mg/dL) WBC (mm3) PLT (mm3) HCT % CHgb (g/dL) Agap (mEq/L) PT (seconds)	150-45		-	-	$\dashv$		$\vdash$	$\vdash$									
HCT %	M:42-50/F:		-+	$\dashv$	$\dashv$		<del>                                     </del>										
cHgb (g/dL)	M:14-18/F:				-		t										
Agap (mEq/L)	7-13						Ī										
PT (seconds)	11-13																
INK	0.8-1.	_			$\Box$												
Lact (mEq/L)	0.4-2.	3					<u> </u>				Manuack!	ailahla at!	Ifialdaara				
										1	vewest version av	ailable at prolonged	itieidcare.org				

													Pro	long	ed F	ield	Care	Cas	ualt	y Cai	rd v2	<b>4</b> (3AP	R2022)										
	Day																															DAY	
	Hour																															HOUR	Treatment / Prompts - Checklist
Charting Karr	Minute		_	_	_	_																_	_			_						MIN	Send MIST Report
Charting Key:	Other 140																															Other 140	Stop Massive Bleeding Pelvic/foot Binder
Use either the letter or	135																															135	Convert TQ <4hrs
symbol consistently	130																															130	Open Airway
	125																					_										125	Needle-D / Finger-T / Thoracostomy
BP	120		-	+		+-	-	_	$\vdash$	$\rightarrow$	$\rightarrow$		$\rightarrow$		$\rightarrow$	$\rightarrow$	$\rightarrow$			$\rightarrow$	$\rightarrow$	_	$\rightarrow$			+	-	$\vdash$	$\rightarrow$			120	Initiate Blood Transfusion
(s) Systolic V	115					_	_		-	$\rightarrow$					-							$\rightarrow$	_		_		_	$\vdash$	$\rightarrow$		-	115	TXA 2g Slow Push (within 3 Hrs)
l .	110		-	+-	+	+-	+		$\vdash$	$\rightarrow$	-				$\rightarrow$	-	$\rightarrow$	-		$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	_	_	_	-	$\vdash$	$\rightarrow$		<b>—</b> ∣	110	Calcium
(d)Diastolic ^	105	$\vdash$	-	+-	+-	+-	+	_	$\vdash$	$\overline{}$	$\overline{}$	-	-	$\overline{}$	$\overline{}$	$\overline{}$	$\rightarrow$	$\overline{}$	$\overline{}$	$\rightarrow$	$\overline{}$	$\rightarrow$	-+	-	_	+-	_	$\vdash$	$\rightarrow$			105	2nd IV/IO
	100																														-	100	Peripheral Pulses
	99		-	+-	+-	+-	+		$\vdash$				$\overline{}$	_	$\overline{}$	$\overline{}$	$\overline{}$	_		$\overline{}$	$\overline{}$	_	$\overline{}$	-	_	+			$\overline{}$		-	99	Hypothermia Treatment / Prevention
(t) F-Temp X	98			-	_	+			$\overline{}$							-	-				-	$\overline{}$	-			_			-		-	98	Analgesia Management
	97		-	+		+-			$\vdash$				$\overline{}$		$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$		$\overline{}$	$\overline{}$	-	$\overline{}$	-		+-			$\overline{}$		-	97	Procedural Sedation
(2) (20)	96			$\neg$		_																	-						$\overline{}$		$\neg$	96	Antibiotics / War Wound Therapy
(2) SPO2 ◊	95																															95	Irrigate / Debride / Dress Wounds
	94																															94 93	Tetanus Status Reduce / Pad / Splint Fracture
	92																															92	Position / Pad Patient
	91																															91	DVT Prophylaxis
(p) Pulse ●	90																															90	Fasciotomy
(p) raise •	85																															85	Confirm TBSA & Fluids for Burn
	80	$\vdash$	$\perp$		+	_	1	$\vdash$														$\rightarrow$		$\perp$		+	_	$\sqcup$				80	Escharotomy
	75			-																				_		_						75	Teleconsult Prep & Call
(m) MAP Δ	70																						_									70	Expose Patient
	65																															65	Reassess All Treatments
	60	$\vdash$	+	+	+	+	+	$\vdash$	$\vdash$		$\rightarrow$		-	-	-	-	-	-		$\rightarrow$	+	+	+	+	_	+	+	$\vdash$	$\rightarrow$			60	Ultrasound EFAST, RUSH, ONDS
	55	$\vdash$	+	+	+	+	+		$\vdash$	-				_	$\rightarrow$	$\rightarrow$	$\rightarrow$	-	_	-	$\rightarrow$	-	-	_	_	+	_	$\vdash$	$\rightarrow$	_	-	55	Detailed Exam
	50	$\vdash$	_	+	+	+-	+		$\vdash$				$\overline{}$		$\rightarrow$	$\rightarrow$	$\rightarrow$	_		$\rightarrow$	$\overline{}$	$\rightarrow$	-	_	_	_	_	$\vdash$	$\rightarrow$			50	Attach Monitors
(e) ETCO2 •	45																														=	45	GCS/Neuro/MACE
(0) 2.002	40		_	-	_	+-	_		$\vdash$		-		-		-	-	$\overline{}$		-	-	-	-	-	-		_	_		$\overline{}$		-	40	NG/OG Tube
	38					+																-	_			+					$\neg$	38	Upgrade / Secure Airway
(t) C-Temp X	37			-		$\overline{}$										$\overline{}$	$\neg$				-		-			_			$\overline{}$			37	Awake / Post-Cric Checklist
	36																															36	BVM or Vent w/ PEEP
	35 30																															35 30	Pressors for Distributive Shock? Foley / Bladder Tap
	25																															25	UA Dipstick
	20																															20	Labs (if available)
(r) Resp o	15																															15	Adjust Ventilator Settings (ABG?)
(1 / Nesp o	10																															10	X-Ray / Imaging
	5	$\vdash$	-	-		+-	-	_	$\vdash$	$\rightarrow$	$\overline{}$		$\rightarrow$		$\rightarrow$	$\rightarrow$	$\rightarrow$			$\rightarrow$	$\rightarrow$	_	$\rightarrow$			+	-	$\vdash$	$\rightarrow$			5	PreOp Eval
	Null		_	_	_	-			$\overline{}$							_	_				_	_	_			_			_		-	Null	Amputation
Urine Outpu																																	Shunt
Fluid Input																																	Preperitoneal Pelvic Packing
RASS/ Pain Sc																																	Clear C-Spine
AVPU/Neuro/M						_			$\sqcup$						$\rightarrow$		$\rightarrow$					_							$\rightarrow$				
Eye response	4	-		+		+	-		$\vdash$		$\rightarrow$		$\rightarrow$		$\rightarrow$	$\rightarrow$	$\rightarrow$		$\overline{}$	$\rightarrow$	$\rightarrow$	_	$\rightarrow$			_		$\longrightarrow$	$\rightarrow$				Nursing Care Reminders
Oral Response	5					+	_		$\vdash$	$\longrightarrow$							$\rightarrow$					-							$\rightarrow$				VITALS (as often as needed)
Motor Response	6		-	+	+	+-	-		$\vdash$	$\overline{}$	$\overline{}$		$\rightarrow$		$\rightarrow$	$\rightarrow$	$\rightarrow$		-	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	_	_	+	-	$\vdash$	$\rightarrow$				T, P, R, BP, SPO2, ETCO2
GCS Total	15			_	+	1																				_			-				INS/OUTS
Drug/Intervention:			- 1		1	1				- 1						- 1	- 1	- 1								1							IV/IO/NGT/OGT/Foley/Stool Pain/Sedation
Drug/Intervention:		$\vdash$	+	+	+	+		$\vdash$	$\vdash$	_	_	_	_	_	_	$\rightarrow$	_	$\rightarrow$	_	_	$\overline{}$	$\dashv$	$\dashv$	+	+	+	$\vdash$	$\vdash$	$\rightarrow$				Maintenace & Procedural Bumps
- Jay men vention.			- 1		1	1				- 1						- 1	- 1	- 1								1							Drips (Pain or TIVA/Sedation)
Drug/Intervention:			$\top$	$\top$	$\top$	T	T	П	$\vdash$	$\neg$		$\neg$	$\neg$	$\neg$	$\neg$	$\neg$	$\neg$	$\dashv$	$\neg$	$\neg$	$\neg$	$\neg$	$\neg$	$\neg$	$\top$	$\overline{}$	$\Box$	$\vdash$	$\dashv$				HEENT
		I	$\perp$		$\perp$			L	L l							1						[	[		$\perp$	$\perp$	L	L_I	l				Suction/Clean/Moisten
Drug/Intervention:																$\neg$		$\neg$								$\top$							Eye/Nose/Mouth/Ears
		$oxedsymbol{oxed}$						oxdot	╚	I		I															$\perp$						Respiratory
Drug/Intervention:			Т	T						$\neg$						$\neg$		$\neg$							T	$T^{-}$							Look/Listen/Feel
			$\bot$																									╙					BVM/Vent/Oxygen
Drug/Intervention:									T														T										Integumentary
			$\bot$	$\bot$	$\bot$	4	$\leftarrow$	ш	ш		$\perp$												$\perp$		$\perp$	$\bot$	$\vdash$	ш					Look/Touch/Smell
Ventilator Mo	ode									I																		L_I					Position/Padding/Move/Massage
Flow Rate	IFR/LPM																																Clean/Dry/Dress/Drain/Cover
Tidal Volume	Vt																																Gastrointestinal
Vent Rate	RR																																Look/Listen/Touch/Tap
Percent O2	FiO2									T																							Nausea/PPI/Nutritian
PEEP	PEEP		$\perp$			_	$\vdash$	$\Box$	ш														$\perp$	$\perp$			$\Box$	$\Box$	$\Box$				Extra
Plateau Pressure	Pplat		$\perp$																														Battery/Power
Drive Pressure	ΔP=Pplat-PEEP		$\perp$	_		1	1	ш	oxdot																			$\sqcup$					Stock/Resupply/Buy
	Ppeak				+	+	1		$\vdash$												$\longrightarrow$	$\perp$		$\perp$	-	+	-	$\sqcup$	$\rightarrow$				
Peak Pressure																																	
Peak Pressure In to Out Ratio	I:E																	11.		16	ldcare.												

## **Prolonged Casualty Care Principles** ☐ Perform initial lifesaving care using TCCC guidelines and continue resuscitation -The foundation of good PFC is mastery of TCCC and a strong foundation in clinical medicine. ☐ Delineate roles and responsibilities including naming a team leader -A leader should be appointed who will be responsible to look at the larger clinical picture while assistants focus on attention intensive tasks. Perform comprehensive physical exam and detailed history with problem list and care plan -After the initial care and stabilization of a trauma or medical patient, a detailed physical exam and history should be performed for the purpose of completing a comprehensive problem list and corresponding care plan. ☐ Record and trend vital signs Vital signs trending should be done with the earliest set of vital signs taken and continued at regular intervals so that the baseline values can be compared to current reality on a dedicated trending chart. ☐ Perform a telemedical consult -As soon as is feasible, the medic should prepare a telemedical consultation by either filling out a preformatted script or by writing down his concerns along with the latest patient information. ☐ Create a nursing care plan -Nursing care and environmental considerations should be addressed early so as to limit any provider induced iatrogenic injury. ☐ Implement team wake, rest, chow plan -The medic and each of his helpers should make all efforts to take care of each other by insisting on short breaks for rest, food and mental decompression. ☐ Anticipate resupply and electrical issues ☐ Perform periodic mini rounds assessments -Stepping back from the immediate care of the patient periodically and reengaging with a mini patient round and review of systems can allow the medic to recognize changes in the condition of the patient and reprioritize interventions. • Is the patient stable or unstable? Is the patient sick or not sick? Is the patient getting better or getting worse? How is this assessment different from the last assessment? ■ Obtain and interpret lab studies -When available, labs may be used to augment these trends and physical exam findings in order to confirm or rule out probable diagnoses. ☐ Perform necessary surgical procedures -The decision to perform invasive and surgical interventions should consider both risks and benefit to the patient's overall outcome and not merely the immediate goal.

drugs, fluids, supplies and be ready for all contingencies in flight
 Prepare documentation for patient handover
 -The preparation for evacuation care should begin immediately upon assuming care for the patient and should include hasty and detailed evacuation requests up both the medical and operational channels with the goal of getting the patient to

-If the medic is caring for the patient over a long strategic evacuation off continent, they should be prepared with ample

☐ Prepare for evacuation care

the proper role of care as soon as possible.

# Obtain a GCS BEFORE sedating the patient

Category		Best Response								
Eye opening										
Spontaneous		4								
To speech		3								
To pain		2								
None		1								
Verbal	(Modified for Infants)									
Oriented	Babbles	5								
Confused	Irritable	4								
Inappropriate wo	rds Cries to pain	3 2								
Moans	Moans	2								
None	None	1								
Motor	*									
Follows comman	ds	6								
Localizes to pain		5								
Withdraws to pair	า	4								
Abnormal flexion		3 2								
Abnormal extens	ion	2								
None		1								
Glasgow Coma Scale										
Best possible sco	ore	15								
Worst possible so	core	3								
	racheally intubated then verbal designated with "T"									
	ore while intubated	10T								
	core while intubated	2T								

# Once the patient has analgesia and/or sedation medications, use the RASS

	R	ichmond Agitation-Sedation Scale (RASS)
RASS Score	Term	Description
4+	Combative	Combative, violent, immediate danger to staff
3+	Very agitated	Pulls or removes tubes or catheters, aggressive
2+	Agitated	Frequent nonpurposeful movement, fights ventilator
1+	Restless	Anxious but movements not agressively vigerous
0	Alert and Calm	
-1	Drowsy	Not fully alert but has sustained eye opening/contact 10 sec or more to voice
-2	Light Sedation	Briefly awakens to voice with eye contact less than 10 sec
-3	Moderate Sedation	Movement or eye opening to voice (no eye contact)
-4	Deep Sedation	No response to voice but movement or eye opening to physical stimuli
-5	Unarousable	No response tovoice or physical stimuli

### **Telemedical Consultation Guide**

### To be used with Prolonged Field Care Card

- 1. Before calling, E-mail image of the casualty (wounds, environment, etc.), "capabilities" (back of page), & vital signs trends to the remote consultant.
- 2. If call not answered: a) call next number on PACE or call back in 5 10 min.
- 3. If unable to provide information due to operational security, state so.

P: A: C:
E:
This is I am a (job/ position)
My best contact info is:
YOUR best contact info is (Consultant's number):Alternate e-mail:
*** PAUSE POINT to CONFIRM CONTACT INFO***
I have a year-old(sex) (active duty/foreign national/OGA,etc.), who has the following:
Mechanism of Injury or known diagnosis(es)
The injury/start of care occurred hours ago. Anticipated evacuation time is (hours from now):
Injuries/Problems/Symptoms:
Treatments:
He/she is currently (circle) stable/ unstable, getting better/ getting worse/ getting worse rapidly
Known Medication Allergies/Past medical/Surgical history is:
I need help with (be specific if possible, i.e. "I need help reading this ECG," or "I need help stabilizing this patient," etc.)
Other Consultants have recommended:
*** PAUSE POINT for Remote Consultant to ask clarification questions ***
VITALS (current & trend as of ): HR BP RR SpO2 EtCO <sub>2</sub> Temp
UOP(ml/hr) over (# hours) Mental Status (GCS/ AVPU)
EXAM: Neuro Ext/ MSK
Heart Pulses
Lungs Skin/ Wounds
Abd
LABS: ABG: Lactate: Other:  *** PALISE POINT for Pamote Consultant to ask clarification questions ***

Plans/Recomi	mendatio	ns										
	M/PROBLEM			COMMENI	DATION							
Neu	ro or prob	olem #:	1									
CV c	or problem	า #2										
Puln	n or probl	em #3										
GI o	r problem	#4										
Ren	al or prob	lem #5										
End	ocrine or p	oroble	m #6									
MSk	(/ Wound	or pro	blem #7	7								
	es, lines, c	Irains (	or probl	em								
#8												
Prop prob	ohylaxis/p	revent	ion or									
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Oth												
TO-DO/ FOLLO	W-UP/TO	-STOP				NOTES						
1.												
2.												
3.												
4.												
5.												
6.												
	*** PAUSI	E POIN	T, for <mark>N</mark>	1edic/L	ocal Care	giver to	ask clari	fication	questio	ns/ <mark>READBA</mark>	CK***	
Availa	ble "kit" (su	pplies, e	<u>equipme</u>	nt, medica	ations) !! IF	POSSIBLE	PHOTOGI	RAPH AND	SEND VI	A EMAIL BEFO	RE CALLING !!	
Commo:	Tempus i2i	ID:				_SAT#/Lo	cal Cell#					
	Other (Fac	eTime, \	/See, Sky	pe, Whats	App ,etc.):							
IV access:	IV		Central	line	IO (locati	on)						
Monitor:	Propaq		Tempus		Foley		Graduate	ed urinal		PulseOx only	Exam On	ly
	Other:											
IV Fluids:	Plasma-Lyt	е	LR		Normal S	Saline	3% saline	!	Other: _			
Colloids:	Hetastarch		Albumir	l	Other: _							
Blood products:	Whole bloo	bd	PRBC		Plasma		FDP	Platelets		Other:		
Medications:	Antibiotics	: name/	route/do	se								
	Morphine Fentanyl IV Midazolam	// PO (po	op)		Other op	Ketamine						
	TXA					Other(s):	:					_
Airway/Breathing: Miscellaneous:	ETT C	Cric kit	LMA	BVM	02	Suction (	type):		Ventilato	or(model):		

	Name/ I.D.	Triage Cat Location	CC/ Injury	LOC AVPU	Vitals Stable	Airway	Breathing Occlusive	Pulses	TQ In Place	Fluids Given	ARY/TD	Pain Meds	Burn Percent	Evac Cat	Destination
1	1.5.	Location	iiijai y	AVIO	Otable	Aujunot	Occidence	Tresent	III I Idoc	Olven	ABATE	T ani meas	1 Crocin	Out	Destination
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	Name/ I.D.	Triage Cat Location	CC/ Injury	LOC AVPU	Vitals Stable	Airway	Breathing Occlusive	Pulses	TQ In Place	Fluids Given	ARY/TD	Pain Meds	Burn Percent	Evac Cat	Destination
1	1.5.	Location	iiijai y	AVIO	Otable	Aujunot	Occidence	Tresent	III I Idoc	Olven	ABATE	T ani meas	1 Crocin	Out	Destination
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Check Principles (1)   Check			
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Check United Colors (Color) Ch	<u></u>	<u>-</u>	
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Check Disp Plates (Fluids in (1218)		<del>i</del>	<del>i-</del>
Deck Originates/Fields in (0.11)	<u></u>	<del>-</del>	<del> -</del> -
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Deach Unite Displated (CDH)	<u> </u>	ļ	<u>L</u> -
Deach Unite Displated (CDH)	<u></u>	i	<b>i</b>
Dec   Control	, , , , , , , , , , , , , , , , , , ,		
Perform No/Co Tube Care (2019)	1 1		_ !
Check Ventilator Setting (Q1H)			
Check Ventilator Setting (Q1H)	<u> </u>	<u>-</u> -[	<u> </u>
Check GCS/RASS/PAIN (C111)   Control of Co			· ·
Check GCS/RASS/FAIN (C114)  Give Pain RS (per Ro  Ferform Data Suctioning (PRII)  Perform Out Suctioning (PRII)  Apply the Datin (C114)  Apply the Datin (C114)  Change All Tape (C214)  Change All Tape (C214)  Change All Tape (C214)  To Change All Tape (C214)  To Change Companionat Syndrome (C214)  English Companionat Syndrome (C214)  English Companionat Syndrome (C214)  English Companionat Syndrome (C214)  For One E Massage (C214)  For One E	<u> </u>	<u>-</u>	
Secretary (Comparison of Carlot)  Check Sys Compartment Syndrome (C3H)  Reportion IL Massage (C2H)  Check Post Daring (C3H)  Reportion IL Massage (C2H)  For Daring IL Massage (C	<b>⊢</b>		
Secretary (Comparison of Carlot)  Check Sys Compartment Syndrome (C3H)  Reportion IL Massage (C2H)  Check Post Daring (C3H)  Reportion IL Massage (C2H)  For Daring IL Massage (C	H	<del>-</del>	
Secretary (Comparison of Carlot)  Check Sys Compartment Syndrome (C3H)  Reportion IL Massage (C2H)  Check Post Daring (C3H)  Reportion IL Massage (C2H)  For Daring IL Massage (C	<u></u>	<del>-</del>	<del>-</del>
Secretary (Comparison (Compari	<u></u>	<u>+</u>	
Perform Tube Suctioning (PRN) Perform Oral Suctioning (PRN) Perform Oral Suctioning (PRN) Perform Resal Care/Moisten (Q4H) Perform Nasal Care/Moisten (Q4H) Perform Oral Gar/Moisten (Q12H) Change All Tape (Q12H) Change All Tape (Q12H) Check Ventilator Settings (Q1H) Perform It Manage (Q1H) Check Description (Q2H) Reposition (Q2H) Reposition (Q2H) Perform It Massage (Q2H) Perform It Massage (Q2H) Perform It Massage (Q2H) Perform It Massage (Q2H) Do A/P Lim Rasage (Q2H) Perform It Massage (Q2H) Perform It Massage (Q2H) Check Dressings (Q4H) Do A/P Lim Rasage (Q2H) Check Dressings (Q4H) Check Dressings (Q4H) Device Monoto (Q2H) Perform Oral Rasage (Q2H) Check Dressings (Q4H) Check Orasings	<u> </u>		
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Perform Tube Suctioning (PRN) Perform Nasia Care/Molsten (QsH) Per	<u></u>		
Perform Carla Suctioning (PRN)   Perform Carla Carle Moisten (Q4H)   Perform Carla (Q1H)   Perfo	, , , , , , , , , , , , , , , , , , ,	:	
Perform Caral Suctioning (PRN)		<u>-</u>	
Perform Nasal Care/Moisten (04H)   Perform Data (Care/Moisten (04H)   Perform Care/Moisten (04H)   Perform Data (Care/Moisten (04H)   Perform Data (Care/Moisten (02H)   Perform Data (02H)		<u>-</u>	<u> </u>
Perform Oral Care/Moisten (04H)		<u>-</u>	·
Example   Papel   Pa	<del></del>		
Brush Tech (0.214)	<u> </u>		
Check Ventilator Settings (Q1H)   Check Ventilator Settings (Q1H)   Check Ventilator Settings (Q1H)   Check Ventilator Settings (Q1H)   Check Chest Drainage (Q1H)   Check Padding (Q2H)   Check Padding (Q2H)   Check Practings (Q2H)   Check Drainage (Q1H)   Check Drainage (	H	+	
Change All Tape (Q24H)	<u></u>	<del>-</del>	
Check Ventilator Settings (Q1H)	<u></u>		
Check Chest Drainage (Q2H)   Check Chest Drainage (Q2H)   Check Padding (Q2H)   Check Padding (Q2H)   Check Padding (Q2H)   Perform LE Massage (Q2H)   Check Prosinge (Q2H)   Check Prosinge (Q2H)   Check Drainage (Q2H)   Check D	<u> </u>		
Check Chest Drainage (Q1H)	LL	Ĺ	Ĺ
Check Chest Drainage (Q1H)	<u> </u>		
Turn, Cough, Deep Breathe (Q1H)			į
Turn, Cough, Deep Breathe (Q1H)			[
Check Chest Drainage (Q1H)	LL		·- [
Check S/S Compartment Syndrome (Q2H)			· ·
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Reposition (Q2H)   Check Padding (Q2H)   Check Padding (Q2H)   Check Padding (Q2H)   Check Padding (Q2H)   Check Dressings (Q4H)   Check Dressings (Q4H)   Check Dressings (Q4H)   Check Dressings (Q4H)   Check Dressings (Q2H)   Check Dressings (Q2H)   Check Q2 Supply   Check Dressings (Q2H)   Check Q2 Supply   Check	<u> </u>	<u>-</u> +	
Reposition (Q2H)   Check Padding (Q2H)   Check Padding (Q2H)   Check Padding (Q2H)   Check Dressings (Q4H)   Check Dressings (Q4H)   Check Dressings (Q4H)   Check Dressings (Q4H)   Check Dressings (Q2H)   Check Dressings	H		
Check Padding (Q2H)		<del>i</del>	
Perform LE Massage (Q2H)   Check Dressings (Q4H)   De A/P Limb ROM (Q8H)   Wash and Dry Skin (Q24H)   Perform Burn Skin Care	<u></u>	<u>-</u>	<del> -</del> -
Check Dressings (Q4H)	<del></del>		
Do A/P Limb ROM (Q8H)   Wash and Dry Skin (Q24H)   Perform Burn Skin Care (Q24H)	ĻĻ	ļ	_ <u>_</u>
Wash and Dry Skin (Q24H) Perform Burn Skin Care (Q24H) Irrigate Wounds (Q24H) Debride Wounds (Q24H) Give Antibiotics Rx (Q24H)  Give Antibiotics Rx (Q24H)  Give Antibiotics Rx (Q24H)  Give Antibiotics Rx (Q24H)  Give Antibiotics Rx (Q24H)  Give Antibiotics Rx (Q24H)  Give Antibiotics Rx (Q24H)  Give Antibiotics Rx (Q24H)  Give Antibiotics Rx (Q24H)  Give FPI Rx if Indicated (per Rx)  Give PPI Rx if Indicated (per Rx)  Give PPI Rx if Indicated (per Rx)  Give FPI Rx if Indicated (per Rx)  Give Antibiotics Rx (Q24H)  Change Dressings (Q24H)  C	<u></u>	i	
Perform Burn Skin Care (Q24H)	, , , , , , , , , , , , , , , , , , ,		
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Change Dressings (Q24H)  Give Antibiotics Rx (Q24H)  Give PPI Rx if Indicated (per Rx)  Give PPI Rx if Indicated (per Rx)  Give Antiemetic Rx (per Rx)  Auscultate Abdomen (Q2H)  Give Food/Nutrition (Q8H)  Give Food/Nutrition (Q8H)  Check Q2 Supply			
Give Antibiotics Rx (Q24H)  Give PPI Rx if Indicated (per Rx)  Give Antiemetic Rx (per Rx)  Auscultate Abdomen (Q2H)  Palpate Abdomen (Q2H)  Give Food/Nutrition (Q8H)  Check O2 Supply			·
Give PPI Rx if Indicated (per Rx)  Give Antiemetic Rx (per Rx)  Auscultate Abdomen (Q2H)  Palpate Abdomen (Q2H)  Give Food/Nutrition (Q8H)  Check O2 Supply	<u> </u>		
Give Antiemetic Rx (per Rx)  Auscultate Abdomen (Q2H)  Palpate Abdomen (Q2H)  Give Food/Nutrition (Q8H)  Check O2 Supply	H	<del>-</del>	<del> -</del>
Give Antiemetic Rx (per Rx)  Auscultate Abdomen (Q2H)  Palpate Abdomen (Q2H)  Give Food/Nutrition (Q8H)  Check O2 Supply	<u></u>	<del>-</del>	<del></del> -
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Give Food/Nutrition (Q8H)  Check O2 Supply	<u> </u>		
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Check O2 Supply		<u>-</u>	Ţ <u>.</u>
Check O2 Supply	<u>-</u>	t	·-
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Check/change batteries Compression Socks/Stockings Check/change batteries	<del></del>	<del>i</del>	<del>i</del>
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	<u> </u>		

## 24 Hour Care Plan

Patie	nt ID:		Time	T+1hr	T+2hr	T+3hr	T+4hr	T+5hr	T+6hr	T+7hr	T+8hr	T+9hr	T+10hr	T+11hr	T+12hr	T+13hr	T+14hr	T+15hr	T+16hr	T+17hr	T+18hr	T+19hr	T+20hr	T+21hr	T+22hr	T+23hr	T+24hr
		Interval																			1 1 20111						
	Check BP/HR/RR/T/SPO2/ETCO2 (Q1H)				] ] ]	Ī	I							1	1	<del> </del>	]	]	] ] ]			] ]	<del> </del>	] [			
	Check Peripheral Pulses (Q1H)				<u> </u> - — - →					<u> </u>	├- <b></b>			<del> </del>	<del> </del>	<del>-</del>	<u> </u>	<u> </u>	<u> </u>		<u></u>	<u></u>	<del>-</del>	<u> </u>	<del>-</del> <del> </del>	<del></del> -	
7	Check Skin Temp and Color (Q1H)				<u> -                                    </u>						·			<del>!</del> - —	<del>!</del> - —	<del> </del> -	<u>-</u>	<del> </del>	<del> </del> +		<u> </u>	<del> </del>	<del> </del>	<del> </del>	<u> </u>	<u></u>	<u></u>
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ξ	Check Lactate (Q4H)				:i						├ <del>-</del>	- — - <del>- i</del>		<del> </del>	<del> </del>	<del> </del>	<u>.</u> 	<u>.</u> 	<u>-</u> <del>-</del>			<u>.</u> 	<del> </del> -	<u>-</u>	<del>-</del> <del>-</del>	<del> </del>	<u></u>
9	Check Blood Glucose (Q8H)			<b> </b>	  -			  -	 	 				<u> </u> +	! +	<u> </u>	! <b></b>	 <b></b>	 <del> </del> <del> </del>	 	 	! <b></b> - ·	<u> </u> <del> </del> -	! 	<u> </u>		<u>.                                    </u>
L					<u> -                                    </u>						<u>                                </u>			<u> </u>	<u> </u>	<u> </u>	<u> </u> 	<u> </u> 	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u></u> !	<u>.</u>
					ii				. — - —	i		i		i	i 	<u>i</u> -	L	L	L 4		L	L	<u>i</u>	L		<b>⊢-</b> —-İ	<b>∟</b> -
	Check Drip Rates/Fluids In (Q1H)				-			  - — - —			·			<del> </del>	<del> </del>	<del> </del>	├	, ├	├	 		├ :	<u>.</u> 	<del> </del>		<u>.</u> ;	<u>.</u>
	Check Urine Output (Q1H)				: :- — - —			 	¦		:			<u> </u>	<u> </u>	<u> </u>	: : <del>-</del>	: : <del>-</del>				! <del></del>	<u> </u>	<del>.</del>		<u>.                                    </u>	<u>.                                    </u>
<u>κ</u> (	Check Urine Dipstick (Q1H)			<u> </u>	 '	ا ك ـ ـ ـ ـ ـ	ا ك ـ ـ ـ ـ ـ ـ	  -	 	 				! <del>-</del>	! ┺╶┈╶-	 <u> </u>	 └-	 └-	▎    ┃ └╴╴──╶┹	  -	  -	 └-	 <del> </del>	 └	 	,   <b>L</b> /	<b>L</b>
	Perform NG/OG Tube Care (Q2H)				<u>                                     </u>					<u> </u>				<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>                                     </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>.                                     </u>	<u>.                                    </u>
lns/	Perform Foley Care (Q24H)									i i	i	i		i	i	<u>i</u>	L	L	L l		L	L	<u>i                                </u>	<u>.</u> L		L j	L
	Flush PRN Locks (Q8H)				. — - — !	<u>-</u>	 ¦					<u>-</u>		 	<del></del>		 !	 I				 I		<u> </u>			
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⊆ (	Check GCS/RASS/PAIN (Q1H)				i						i <del>-  </del>	<del>-</del> -		Ť - —	Ť - —	† - —	<u> </u>	<u> </u>	Γ-—- <u>Τ</u>			T	<u>†</u> - –	Ť -		Г-—-j	Γ
텵	Give Pain Rx (per Rx)			<u> </u>	'- — - — 			 	 	' 	<del> </del>			<u> </u>	<u> </u>	<u>+</u> - —	<u>-</u>	<u>-</u> 	 	<u>_</u>	 	느 	<u></u> -	<u></u>	<u> </u>	;	<u></u>
	Give Sedation Rx (per Rx)			<u> </u>	;- <i>-</i> ¦			<del>-</del>		i				<del></del>	<del>;</del>	<del></del>			<del>;</del>				<del>:-</del>	<del> </del>			
S/	and the same of the same			<u> </u>	<u> -                                    </u>						+			<del> </del>	<del> </del>	<del> </del> -	<u> </u>	<del> </del> -	├ - — - ┤		<u> </u>	<del> </del>	<del> </del>	<del> </del> -		<u></u>	
Pain				<b> </b> -	<u> </u>						+	+		<del>!</del> - —	<del>+</del> - —	<del> </del> -	<del> </del>	<b></b> -	<del> </del> +			<b>├ -                                   </b>	<del> </del> ·	<del> </del> -		<u></u> +	<u></u>
	Porform Tubo Suctioning (DDN)			<b> -                                    </b>	ii			i <del>-</del> -	i	j - —	i <del>-i</del>			<del>i</del> - —	<del></del>	<del>;</del> - —	<del>.</del> - —		; <del>-</del>		<u></u>		<del></del> -			i	<del></del>
	Perform Tube Suctioning (PRN)			<b> -</b>	¦- — - —			<del> </del>			├ <del>-</del>	- — - <del>-</del> i		<del>†</del> - —	<del> </del> -	<del> </del> -	<u>-</u>	<u> </u>	<del> </del>	<u></u>	<u>-</u>	<u>-</u> ·	<del> </del>	<del> </del>	<u></u>	<del></del> ;	<u></u> -
	Perform Oral Suctioning (PRN)			<b> -                                    </b>	 			 	¦					<del>!</del> - —	<del>!</del> - —	<del>!</del>	<u> </u> 	<u>-</u>	<u> </u>	 	 	<u>.</u> - — - :	<u>!</u>	<u> </u> <del> </del>		<u></u>	<del></del> -
_	Perform Nasal Care/Moisten (Q4H)			<b> -</b>	<u> </u>									<u> </u>	<u> </u>	<u> </u>	<u> </u> 	<u> </u> 	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u></u>
	Perform Oral Care/Moisten (Q4H)				I- — - —				  - — - —	l - — - I				<del> </del> -	·	ļ - —	<b> </b>	<u> </u>	<b></b> -	L <del>-</del>	L	<b></b>	<u> </u>	<b></b> -	L i	<b>⊢-</b> Ì	<b>⊢</b> -
	Apply Lip Balm (Q1H)				'  - — - —			 	 	 				+	+	' <del> </del>	ı ├	ı ├	ı ı ├			ı ├ ·	<del> </del> :	ı ├	 		
	Apply Eye Ointment/Drops (per Rx)				: :- — - —:			 	  - — - —			:		<del> </del>	<del> </del> <del>-</del> - —	<u> </u>	, , <del>,</del>	, , <del>,</del>	, , , , , , , , , , , , , , , , , , , ,			! <del> </del>	<del> </del>	! <del></del>		<del></del> :	
E	Brush Teeth (Q12H)			<u></u>	 '		ا ــــــــــــــــــــــــــــــــــــ	 	 	 				! <del>-</del>	 <u>+</u>	 <u> </u>	 <u>-</u>	 <u></u>	┃   ┃ ┗╶┈┈╶┵	  -	 	 <u></u>	 <del> </del>	 └─	 	,   	ı <b>L</b>
(	Change All Tape <mark>(Q24H)</mark>				<u>                                     </u>						<u> </u>			<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
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(	Check Ventilator Settings (Q1H)				-				!					 !	 !	 !	 !	 !					 !			;	 :
	Auscultate Lungs (Q1H)			I										† - <del></del>	†	† - <del></del>	<del> </del>		<del> </del>				<del> </del>				
	Turn, Cough, Deep Breathe (Q1H)			<b></b>	ı <sup></sup>					I	ГТ			T	Τ	T	Γ	Γ	ΓΞΞΤ		<b></b> -	Γ	Τ	Γ		[ <u>-</u>	Γ
	Check Chest Drainage (Q1H)			- — - —	-					-				<u>+</u> - —	<u>+</u>	<u>+</u> - —	 	 	 		 	· 	<del></del>	<u></u>		;	 1
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	Check S/S Compartment Syndrome (Q2H)										·			<del>!</del> - —	<del>!</del> - —	+	├ ·	<b>├</b>	<b>├ ┤</b>			<b>├</b>	<del> </del> ·	<del></del> -	<del></del>	<u></u>	<u></u> -
	Reposition (Q2H)				ii	i	j		i	i - — - –	i	<del>i</del>		<del> </del> -	<del> </del>	<del> </del>	<del> </del>	<del></del> -	ii			<del> </del>	<del> </del> -	<del></del> -	<del></del> -	┌-—-j	<b></b> -
_	Check Padding (Q2H)			<b> </b>	'- — - —'					! <del>-</del>	<del>   </del>			<del> </del>	<u>+</u>	<del> </del> -	<u>-</u> 	<u>-</u> 	<u>'-                                    </u>		<u></u>	<u></u>	<del> </del>	<u>-</u>	<u> </u>	<u></u> ;	i
	Perform LE Massage (Q2H)				¦- — - — ¦				¦ - — - —					<del>;</del>	<del> </del>	<del></del>	<u>-</u> 	<u>,</u>  '				<u>.</u> ·	<del> </del> -		;		
	Check Dressings (Q4H)				¦-					<u>ا ۔ ۔ ۔ ۔ ۔ ا</u>	├- <b></b>			<del> </del>	<del> </del>	┼	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<del> </del>	<u> </u>	<u> </u>	<del> </del> -	<del></del> -
	Do A/P Limb ROM (Q8H)				<u> -                                    </u>				<u> </u>	<u> </u> - — - –	├- <b></b> -			<del>!</del> - —	<del>!</del> - —	<del>!</del> - —	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<del>-</del>	<del> </del>	<u> </u>	<u></u>	<u></u>
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	Wash and Dry Skin (Q24H)			<b> -</b>	¦- — - —			<del>-</del>		¦	·	- — - <del>'</del>		<del></del>	<del></del>	<del></del>	<u>-</u>	<u>-</u>	<u>-</u>		<u>-</u> <del>-</del>	<u>-</u>	<del></del> -	<del>├</del> - — - <del>┆</del>	<u> </u>	<del>;</del>	<i>-</i>
<u></u>	Perform Burn Skin Care (Q24H)			<b> -</b>	: <u>-</u>				i		<del>-</del>			<u> </u>	<u> </u>	<u> </u>							<u>:</u>			<u></u> ;	<u></u> -
⊆ L	rrigate Wounds (Q24H)			<b> -</b>	!- — - — <u> </u>					 				<del>-</del>	<del> </del>	<del></del>	<u> </u> 	<u> </u> 	 		<u> </u>	<u> </u> <del> </del>	<del> </del>	<del> </del>	<u> </u>	<b>;</b> ¦	<b></b> -
	Debride Wounds (Q24H)			<u> </u>	<u> -                                    </u>					<u>ا ـ ـ ـ ـ ـ</u>	<u>  </u>			<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		L	<u>L</u> .	<u> </u>	<u>L </u>		<u> </u>	<u> </u>
	Change Dressings (Q24H)								i - — - —	- — - —	·			<del> </del>	<del> </del> - —	<u>.</u> 							<del>.</del>			⊢-—-i	<del></del>
9	Give Antibiotics Rx (Q24H)				'  - — - —			 	  - — - —					<u> </u>	<u> </u>	<u> </u>	, <del> -</del>	ı <del> -</del>	, , <del> </del>	 	ı 	<del> </del>	<u>.</u> <del> -</del> :	<del> </del>	 	<u> </u>	<del></del> -
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	Give PPI Rx if Indicated (per Rx)			<u>                                      </u>	<u> </u> أ			<u>_</u>		<u> </u>		<u>_</u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u>L </u>	<u>L </u>	<u>L</u>	<u>L ]</u>		<u>L j</u>	<u>L</u>
	Give Antiemetic Rx (per Rx)			<u>                                      </u>	,	ل	ل	   <u></u> _	 			<u>_</u>		<u>.</u> 	- 	_ <b>_</b>	<b>L</b> = =	<b>L</b> = =	, <del>,</del> <u>                                      </u>		L = ∃	<b>L</b>	_ <b>L</b> =	<b>L</b> ]	]	L !	L
esti	Auscultate Abdomen (Q2H)			<u></u>	. —, , , , , , , , , , , , , , , , , , ,									 L	 <b>L</b>	     <b>L</b>		 , <b>L</b>	<del>.</del> .	   		! <b>L</b>				_ <del></del>	, <b>L</b> =
į į	Palpate Abdomen (Q2H)			<u> </u>	 ! <u>-</u>							<del>-</del>		<u> </u>	. · <u>-</u>	<u> </u>			, · <del></del> -			· 	<u> </u>	<del></del> 1 <u></u>	- <del></del> -   	<sub> </sub>	
ig o	Give Food/Nutrition (Q8H)				ļ — <b>—</b> —								- <b></b>	T - <b></b>	T - <del></del> -	<u> </u>	<b></b>		-				<u> </u>	<u> </u>		r	   
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-	Check O2 Supply			<u> </u>	¦ !	ـــــــــــــــــــــــــــــــــــــ					<u>-</u>			<u>+</u>	<u>+</u>	<u>+</u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u></u> ! !	<del>-</del>			<u> </u>	
Extra Stuff	Check/change batteries			<u> </u>	<u> -                                    </u>						·			<del> </del>	<del> </del>	+	<del> </del>	<del> -</del>	<b>├</b> ┤	<b></b>	<del> </del>	⊢ - — - · '	<del> </del> ·	<del> </del>	<u> </u>	<u></u>	
ş ,	Check/change batteries Compression Socks/Stockings			[- — - —	-	<del>-</del> i	<del>-</del> i	<del> </del>		I - — - 🚽		<del>-</del>		t - —	<del> </del>	+	<del> </del> -	<del> </del>	<del> </del>		<b></b>	<del> </del> -	<del> </del>	<del> </del>	<del></del>	ı– -	<b></b> -
gra L	בפווואו בפפוטוו סטנתפין פנטנתוווצפ			<b> </b>	¦- — - —¦			<del>-</del>		ii	<del>-</del>	<del>-</del>		<del>†</del> - —	<del></del> -	╁	<u>-</u>	<u>-</u>	<del>-</del>		<del> </del> <del> </del>	<u>-</u>	<del> </del> -	<del>├</del> - — - <del> </del>		<del>;</del>	·
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DISCLAIMER! This nursing care guide is designed to be a tool for the medic to consider as many tasks as possible that
MAY be necessary for any particular patient. It is not all encompassing! Some patients may only need a few of the tasks to be performed, some may need every task to be performed. This guide is not a substitution for adequate cross training.
It should emphasize the REQUIREMENT for medical cross training to properly provide long term care for a patient. There
are some tasks that only a medic SHOULD do (ascultate lungs or administer certain medications for example) however, it may not be tactically or practically feasible for the medic to be present to accomplish these tasks, hence the importance
of thorough cross training. Reference the individual sections for more detailed information about the listed nursing care
tasks.

Patie	nt ID: JD7837 "John" (#1)		Time	T+1hr	T+2hr	T+3hr	T+4hr	T+5hr	T+6hr	T+7hr	T+8hr	T+9hr	T+10hr	T+11hr	T+12hr	T+13hr	T+14hr	T+15hr	T+16hr	T+17hr	T+18hr	T+19hr	T+20hr	T+21hr	T+22hr	T+23hr	T+24h
	Action (suggested interval)	Interval	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130	1230	1330	1430	1530	1630	1730	1830								
	Check BP/HR/RR/T/SPO2/ETCO2 (Q1H)	1	СС	DJ	DJ	DJ	DJ	PL	PL	PL	СС	СС															
-	Check Peripheral Pulses (Q1H)					I I	1	I	] 	! !	1	!	I	!	I I	!	! !	!	! :	I .		!	!	l I	!	] 	
	Check Skin Temp and Color (Q1H)			1	<u> </u>	<del> </del>				<u> </u>	<del> </del>	<del> </del> - — - –	<del> </del>	<del> </del>	<del> </del>	+	<del> </del>	├ '	<del> </del>		<del> </del>	<del> </del> -	<del></del>	<del> -</del>		<del> </del> -	<del> </del>
_	Check Lactate (Q4H)	8	СС	1	1- — - —	1	1	1	1	t - —	CC	t	t - —	t - —	†	† - <del></del>	t - <del></del>	t - —		<b> </b>		<del> </del> -	<b>†</b>	<del> </del>	<b> </b> -	<del> </del> -	
ξ	Check Blood Glucose (Q8H)	8	СС	1	i- — - —	i- — - —	i	:	! - — - — 	i - — - –	СС	f	<u> </u>	† - —	† - —	†	† - —	├ - —			<del> </del>	<u> </u>	<b>╁</b>	<del> </del> -	<u>'</u>	<u>-</u>	
-	Charles Charles (Qon)			<u> </u>		i- — - —	i	i I	i - — - — I	<del>.</del> - — - —		4 - — - — !	+ I	<del>-</del> - —	<del>-</del> - —	÷	<del>-</del>	<del>-</del>	<u> </u>		<u></u>	 I	<del></del>	<del></del>			
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一十	Check Drip Rates/Fluids In (Q1H)	1	СС	DJ	DJ	DJ	DJ	PL	PL	PL	СС	СС															
		+ -		D,	DJ	, D)	, Di	r L	, re	, FL	CC	CC					Ī	i									
	Check Urine Output (Q1H)			<del> </del>	<del> </del>	i	<del> </del>	¦	¦	i	╁	<del></del>	<u>-</u>	<del>-</del>	╁	╁	<del>-</del> - —	<del>-</del> - —	<del>-</del>	<u></u>	<del>-</del>	<u>-</u>	<del></del>	<del>-</del>	<u>-</u>	<u></u> -	<u> </u>
	Check Urine Dipstick (Q1H)	-		<del> </del>	<u>-</u>	<u> </u>	{			i	<del> </del>	<del> </del>	L	<u> </u>	<del> </del>	<del>-</del>	<u>-</u>	<u>.</u> 	<u>-</u>		<u> </u>		<del></del>	<del> </del>	 I		<u></u>
٥ľ	Perform NG/OG Tube Care (Q2H)			<b></b>	!	<u> </u> -	ļ- — - —	! !	! ! - — - —	! ! - — - —	<u> </u>	<u> </u>	! 	<u> </u>	<del> </del>	<u> </u>	! <del>-</del>	! 	<u> </u> 	 		<u> </u> 	<del></del>	<u> </u>	! 	! 	<u> </u>
	Perform Foley Care (Q24H)	+ -		<del> </del>	<u> </u>	ļ-	ļ-	ļ	ļ - — - —	ļ - —		┪	<u> </u>	ļ - —	<u> </u>	<u> </u>	<u> </u>	<u> </u>			<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
ľ	Flush PRN Locks <mark>(Q8H)</mark>	8	CC	<b>-</b>	Í- — - —	<del></del>	ļ- — - —	l-—-—	l - — - —	i	CC	<b> </b>	<del> </del> -	<del>-</del>	<del> </del> - —	<del>-</del>	<del>-</del>	<del> </del>		L - —	<u> </u>	<b></b>	<del>+</del>	<u> </u>	<b></b>	⊢	
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	Check GCS/RASS/PAIN (Q1H)	1	СС	DJ	DJ	DJ	DJ	PL	PL	PL	CC	CC															
dat	Give Pain Rx (per Rx)			<u> </u>	<u>!</u> _	<u> </u> _	<u> </u> 	 ;	 ; - — - —	<u> </u>	<u> </u>	<u> </u>	<u> </u> 	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u> 	<u> </u> 	<u> </u> 	<u> </u>	<u> </u>	<u> </u> 	<u> </u> 	<u> </u>
Şec	Give Sedation Rx (per Rx)			<u> </u>	i_	i	i	i	i	i	i	i	<u>i</u>	i	i -	<u>i</u>	<u> </u>	<u>.</u>	<u> </u>	<u>.</u> i	Ĺ	<u>.</u>	<u>i</u>	<u>i</u>	<u>.</u>	<u> </u>	<u> </u>
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1	Perform Tube Suctioning (PRN)				]	1	]	]	]	Ţ	]	T	[	Ţ	 	T	T	 		] I	i		Ţ	 	]		
_	Perform Oral Suctioning (PRN)			<u> </u>	<u> </u>	<u> </u>		_ <b></b>	<b></b>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u>_</u>	<u> </u>	<u> </u>		
	Perform Nasal Care/Moisten (Q4H)			<u> </u>	,- — - — 	 	 	, - — - — 	, - — - — 	, - — 	 	— I	 	<del>,</del> 	— 	<del></del> -	— 	 	— İ	 		 	<del></del>	<del></del> · 	,_	 	
	Perform Oral Care/Moisten (Q4H)			<u> </u>	; 	<del></del>	-i 	i — — — i	i I	<del>:</del> :	<del>1</del> I	<del>†</del> - — - — I	<del>.</del> ī I	<del>†</del> I	<del>†</del> - —	<del></del>	<del>†</del> - — I	<del> </del> 	<del>-</del>	<del></del> - <del>-</del> 	<del>-</del> i l	<del></del>	<del></del>	<del></del>	<u></u>	<del></del> 	<del></del>
	Apply Lip Balm (Q1H)			<u> </u>	¦- — - —	!	<del> </del>	!	!	<u> </u>	<del> </del>	<del> </del>	<del> </del>	<del> </del>	<del> </del>	+	<del> </del>	<del> </del>	<del></del> -	<del> </del>	<del> </del>	<del> </del> -	<del>+</del>	<del> </del> -	<del> </del>	<del> </del> -	<del></del>
	Apply Eye Ointment/Drops (per Rx)			1	<u> -                                    </u>	<del> </del>	<del> </del>	!	!	<u> </u>	<del> </del> -	<u> </u>	<del> </del>	<u> </u>	<del> </del> -	+	<u>+</u> - —	<del> </del> -	<del> </del> -	<del> </del>	<u> </u>	<del> </del>	<u>+</u>	<del> </del> -	<del> </del> -	<b>⊢-</b>	<u> </u>
	Brush Teeth (Q12H)			1	i- — - —	i	i	i - — - —	i	i	i - —	<del> </del> -		<del> </del> -	<del> </del> -	†	<del> </del> -	<del>.</del> - —	<del></del> -	<u>-</u>	<del>-</del>		<del></del>	<del> </del> -	<u>.</u> - — - :	<del></del> -	<del> </del>
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	Change All Tape <mark>(Q24H)</mark> Check Pupils - PERRL	1	СС	-	DJ	DJ	DI	DI	DI	DI.		CC		<u> </u>	<u> </u>							l				l	
ŀ	CHECK PUPIIS - PERKL	+ -	CC	DJ	נט	נט	DJ	PL	PL	PL	CC	СС	<u> </u>	<u> </u>	<u> </u>	1	<u> </u>	<u> </u>	<u> </u>			<u> </u>	1	<u> </u>	<u> </u>	<u> </u> 	<u> </u>
-	Charle Vantilatou Cattings (0111)	-		<del> </del>	<u> </u>	<del> </del>	<u> </u>	<u> </u>	<u> </u>	ļ - —	<del> </del>	<del>!</del> - — - –	<del> </del>	<del> </del>	<del> </del>	<del>+</del>	<u> </u>	<del> </del>	<del> </del>	<del> </del>	<del> </del>	<u> </u>	<del>+</del>	<del> </del>	<del> </del>	<u> </u>	<u> </u>
	Check Ventilator Settings (Q1H)			<del> </del>	i- — - —	¦- — - —	<del>-</del>	¦	¦	i	<del></del>	<del> </del>	¦ 	<del>-</del>	<u> </u>	╅	<u>.</u> 	<u>.</u> 	<u> </u>	<u>-</u>	<del>-</del>	<u>-</u>	<del></del>	<del> </del>	<u>.</u> 	<u>.</u> 	<u> </u>
0 -	Auscultate Lungs (Q1H)	4	CC	<b>-</b>	i- — - —	i	DJ	- <i>-</i>	i 	i i - — - –	CC	<b> </b> -	<u>;</u> 	<del> </del>		<b>-</b>	<u>-</u>	<u>:</u> 		<b></b> -	<u>-</u>	<u>:</u> 	-	<b>L</b> - — - :	<u>:</u> 	<u>:</u> 	
.= -	Turn, Cough, Deep Breathe (Q1H)			<b>!</b>	! 	<del>!</del>	¦	! 	! - — - —	<del>!</del> - — - –	<del> </del>	<del>!</del> - — - –	! +	<del>!</del>	<del>!</del>	<del>!</del>	<u> </u>	! 	<u> </u>	l 	<u> </u> 	<u> </u> 	<del>-</del>	<del>!</del> - — - :	! 	<u> </u>	<u> </u>
ids	Check Chest Drainage (Q1H)			<u> </u>	<u>!</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>  -	<u> </u>	<u> </u>	<u> </u>	<u> </u> -	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u> 	<u> </u>	<u> </u>	<u>Ļ</u>	<u> </u>	<u> </u> 	<u>L</u>	<u> </u>
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(	Check S/S Compartment Syndrome (Q2H)			<b>_</b>	i i	<u> </u> 	i i	! ! <b>!</b>	l Î	! ! <b>-</b>	i i	! ! <b>:</b> - — - —	l Î	<u> </u> 	! !	: 	! !	! ! <b></b>	! !	! ! == = == = = =		! ! <b></b>	i	<u> </u> <del> </del>	l Ī	! ! <b>!</b>	
1	Reposition (Q2H)	2	CC	<u> </u>	DJ	]	DJ		PL	l	CC	l		<u>l</u>										L			
1	Check Padding (Q2H)	2	CC		DJ		DJ		PL		CC																
1	Perform LE Massage (Q2H)				Ī	<u>,                                     </u>	Ì	,	ĺ	,	ĺ	,	ĺ	Ī	Ī	Ī	Ī	İ	Ī	]			Ī	<u></u>	ĺ	j	Ī
	Check Dressings (Q4H)				; !	;		[		<del>1</del> - — - —	<del></del>	<del>†</del>	<del></del> I	<del>†</del> – – – – – I	<del></del>	<del></del>	<del> </del>	<del></del> I	<del> </del>	i		<del>                                     </del>	<del></del>	<del></del>	i	<del>                                     </del>	
-	Do A/P Limb ROM (Q8H)	8	СС	I		1- — - — !	┨- — - — !	! !	! !	† - — - – !	СС	†	+ !	+ !	+ !	+ !	+ !	+ !			 	<del></del> -	<del></del>	<del> </del>	<del> </del>	<del></del> -	
_	Wash and Dry Skin (Q24H)			<u> </u>	<u> -                                    </u>	1	<u> </u>	- — - — 		ţ	Ţ	ţ	† - <del></del>	<u>†</u> - —	<u>†</u> - —	<del> </del>	<u>†</u> - —	<u> </u>	T I	<del> </del>	<del> </del>	<del> </del>	<del></del>	<del> </del>	  -	<del> </del> -	
	Perform Burn Skin Care (Q24H)		Ī	1	1	ו	ו	1	1	7	T - —	т	T	T	T	Т	T - —	Γ	Γ	r - — - i	Γ	Γ	Τ	Π	Γ	Γ	Γ
<u></u>	Irrigate Wounds (Q24H)		T .	<u> </u>	'- — - — İ	<u> </u>	- — - — 1	/	'	:	<u>-</u>	† - — - –	<u></u> 	<del> </del> - —	<u> </u>	<del>†</del>	<u>-</u> İ	<u>-</u> 	<u>-</u>	<u></u> 	∟ - — 	<u></u> 	<del></del>	<del> </del> -	<u></u> . 	<u></u> 	<u> </u>
	Debride Wounds (Q24H)	1		1	;- — - —	<del></del>	i	i - — - —	; - — - — !	i - — - –	<del> </del>	<del> </del> -	r I	<del>-</del>	<del>-</del>	<del>-</del>	<del>-</del> - —	<del>-</del>	<del>-</del> - —		<del>-</del>	 !	<del></del>	<del></del> -	<del> </del>		<del></del>
	Change Dressings (Q24H)	1	1	<del> </del>	<del> </del> -	ļ- — - —	<del> </del>	!	¦ -	<del> </del>	ֈ	<del> </del> -	<u> </u>	<u> </u>	<del>-</del>	<del> </del>	<u> </u>	<u> </u>	<u> </u>	<u></u>	<u>-</u>	<u> </u>	<del>-</del>	<del> </del>	<u>-</u>	<u> </u>	<u> </u>
	Give Antibiotics Rx (Q24H)	24	СС	<del> </del>	<u> -                                    </u>	<del> </del>	<b></b>			ļ-—	<del> </del>	<del> </del> -	<del> </del> -	<del> </del> -	<del> </del>	<del>+</del>	<del> </del>	<del> </del>	<del>-</del>	<b> </b>	<b> </b>	<u> </u>	<del>+</del>	<del> </del> -	<b> </b> -	<del> </del>	
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_	Give PPI Rx if Indicated (per Rx)		-	<b> -</b>	<u> </u> -	<u> </u>			<del> </del>	<del> </del>		<b></b>	<del> </del>	<u> </u>		<b>-</b>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	1	<b>-</b>	<u> </u>	<u> </u>	
	Give Antiemetic Rx (per Rx)	4	CC	<b> -                                    </b>	l- — - —	<b></b>	DJ	I	I- <i>-</i>	<del> </del>	CC	J - —	<b></b> -	<b>+</b> - —	<u> </u>	<b>4</b> - —	<b></b>	L - —		L i	L	L	<u></u>	<b>↓</b>	<b>∟</b>	<b>∟</b>	<u> </u>
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_	Palpate Abdomen <mark>(Q2H)</mark>			<u> </u>	<u>:</u>	<u>:</u>	; 	: 	! 1	; - — - –	; - — - –	: 	! <del> </del>	<u>:</u> <del>-</del>	: <del>-</del>	<u>:</u>	: <del>-</del>	- 	<u>:</u> <del>-</del>	! <del> -</del>	! <del> </del>	! <del> -</del>	<del>-</del>	<u>.</u>	! <del> </del>	! <del> </del>	<u></u>
ĭ	Give Food/Nutrition (Q8H)			<u> </u>	 .'-	 	] J	 !	 	l 4	 	! ⁴	l ⊾	I <del>L</del>	│ <del>└</del>	I <del>⊥</del> =	I <del>└</del>	I └ = -	I ┺ <b></b>	 	 <b> -                                   </b>	 <u> -                                   </u>	<u> </u>	 <b> -</b>	 	 <u> </u> -	<u> </u>
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Gas	Check O2 Supply Check/change batteries			<del></del>	;- — - —  - — - —	 			¦	¦	<u> </u>	¦		<del> </del>		<del> </del> -		<del> </del>		 	 		<del></del>		' 		<u> </u>
Gas	Check O2 Supply Check/change batteries Compression Socks/Stockings				;- — - —  - — - —  - — - —	  	 	 	 	   	- 		   		- - - -	+	<del> </del> - —	   	'   	 	   	   	<u>+</u>	-  	   	   	<u> </u>
a Stuff Gas	Check O2 Supply Check/change batteries Compression Socks/Stockings Assisted patient ambulation	8	CC	 	;   	;   	  	   	   	;   		 	; } - — <del> </del> - —	; ; - — ; - —	+ - — † - —		+ - — † - —	 	-  	 	 	 	∔ + †	-  	   	 	

### APPENDIX E: MANAGEMENT OF TRAUMATIC BRAIN INJURY SUMMARY TABLE

GOAL	MINIMUM	BETTER	BEST
	MINIMON	DETTER	DEST
Neurological Assessment	Contract of the state of the st	I 6	I 6
Goal: Rapidly identify TBI and associated injuries; assess TBI severity.	Consider: If patient is unconscious, measure a baseline optic nerve sheath diameter with ultrasound using a 10(–5)MHz linear probe.	Secondary survey: Evaluate for TBI red flags. Perform detailed neurologic examination.	Primary survey: Perform rapid trauma survey to assess all injuries. Determine and record Glasgow Coma Score. Assess pupils and motor function in all four extremities. Recognize Cushing's triad.
·	d on any patient with an open globe injury to t widened pulse pressure, bradycardia, irregula	•	
Monitoring			
Prevent secondary brain injury, maintain adequate oxygenation and ventilation, avoid hypotension, detect	Blood pressure cuff, stethoscope, pulse oximeter, method to monitor urine output. If advanced airway is in place, monitor EtCO <sub>2</sub> with capnometer. Check pupils and		Portable monitor with continuous vital- signs display, Foley catheter to monitor urine output. If advanced airway in place, monitor end-tidal CO <sub>2</sub> (EtCO <sub>2</sub> ) with
	GCS hourly or as often as possible. tal-sign trends are essential to identifying a de		capnography. Check pupils and GCS hourly
	severe TBI patients. Bring the correct equipme	ent whenever possible.	
Management Hemodynamic Co	1		
Maintain systolic pressure >110mmHg	Stop all external bleeding. Manage internal bleeding to the extent possible with available resources. Administer TXA per TCCC guidelines. Avoid medications that may lower the blood pressure.	If there is evidence of bleeding and no blood products are available, 0.9% sodium chloride 1L. Target SBP: >110mmHg	If evidence of bleeding, transfuse whole blood or, if not available, transfuse blood products per TCCC guidelines. Target SBP: >110mmHg
Telemedicine consultation is str Do not neglect scalp bleeding. I	nemorrhagic shock requires balancing hemorrh congly encouraged. Fake care to inspect for skull fractures. DO NO ated Ringer's) should be avoided whenever po	T tightly pack an open head wound.	
Management: Airway, Oxygen	ation/Ventilation		
Maintain or secure airway. If GCS score ≤8 or there is facial trauma or other airway compromise, consider definitive airway placement.	Nasopharyngeal airway and bag-valve-mask with PEEP. Supplemental oxygen, if available. Maintain $SpO_2 > 90\%$ .	Perform cricothyroidotomy/ETT or place supraglottic airway followed by continuous sedation, supplemental O <sub>2</sub> , portable ventilator. Target SpO <sub>2</sub> : >95%, EtCO <sub>2</sub> : 35–40mmHg.	Perform cricothyroidotomy/ETT followed by continuous sedation, supplemental $O_2$ , portable ventilator. Target $SpO_2 > 95\%$ , $EtCO_2 35-40$ . Check arterial blood gas values. PEEP: $5cmH_2O$ (increase up to $15cmH_2O$ if needed).
Avoid hyperventilation except i	n extreme cases where imminent cerebral her	niation is suspected.	
Management ICP			
Suspect high ICP in any head injury patient with GCS score ≤8 or declining findings on neurologic examination. Minimize factors that could	<ul> <li>Elevate HOB 30–45°</li> <li>Neck midline, loosen collar</li> <li>SBP &gt;110mmHg (or at least &gt; 100mmHg)</li> <li>SpO<sub>2</sub> &gt;90% or 95% on ventilator</li> <li>EtCO<sub>2</sub> 35–40mmHg</li> <li>Core temp 96–99.5°F</li> <li>Prevent/treat seizure</li> </ul>	In addition to minimum steps, ensure adequate sedation and analgesia.  If SBP >160mmHg or agitated:  Ketamine 20mg IV/IO  Hydromorphone 0.5–2mg IV/IO  Fentanyl 25–50µg IV/IO  Midazolam 1–2mg IV/IO	In addition to minimum and better steps, give osmotic therapy IV/IO:  HTS 3% 250mL over 20 minutes. Repeat every 3 hours if needed.  Mannitol (If no bleeding and SBP >110mmHg) 1g/kg IV/IO over 20 minutes repeat 0.5g/kg every 3 hours, if needed.
contribute to elevated ICP, such as pain, anxiety, and fever.	<ul> <li>Last choice if sign of herniation: hyperventilate to EtCO<sub>2</sub> 30mmHg × 20 minutes.</li> </ul>	Wilduzolam 1 Zing W/IO	
such as pain, anxiety, and fever.	hyperventilate to EtCO <sub>2</sub> 30mmHg × 20	Wildatolani T Zing W/IO	
such as pain, anxiety, and fever.	hyperventilate to EtCO <sub>2</sub> 30mmHg × 20 minutes.  y and often in the patient with elevated ICP.	Windatolain 1 Zing W/IO	

If recommended antibiotics are not available or significant drug allergies are present, obtain teleconsultation to discuss alternative medications.

GOAL	MINIMUM	BETTER	BEST
Management: Seizures			
Rapidly identify and manage seizures.	For a witnessed or suspected seizure, ensure safety and airway is clear. Treat with rapid-acting benzodiazepine:  • Midazolam 5mg IV/IO/IM every 5 minutes until seizure stops		Levetiracetam 2,000mg IV/IO loading dose over 15 minutes + 500mg every 12 hours. Alternate therapy: Phenytoin 1.5g IV/IO load + 100mg IV/IO every 8 hours Phenobarbital 1.5g IV/IO load + 100mg IV/IO daily.
	s in any TBI patient with GCS score ≤8 who is r definitive airway in any patient who experier		
Management: Fever Control			
Maintain core temperature between 96°F and 99.5°F. Treat fever aggressively.	Remove patient from heat or sun. Remove clothing. Use surface cooling measures with misting and fan cooling	Apply cold packs to axillary, posterior cervical, and groin regions.	Acetaminophen 650mg every 4 hours PO or rectally for rectal temperature >99.5°F. Cold saline IV bolus if available.
Avoid NSAIDs, such as ibuprofer	n, naproxen, and ketorolac, because these age	ents may increase intracranial hen	norrhage, if present.
Management: Sodium Control			
Avoid hyponatremia. Mild hypernatremia optimal. Target sodium level: 145– 160mmol/L.	Avoid administration of free water or hypotonic fluids.		Monitor serum sodium via laboratory blood samples. If patient is stable, check levels every 6 hours. In an unstable patient or one receiving HTS, check sodium level every 3 hours and adjust fluids as needed.
Numerous conditions can rapidl	y affect sodium levels in TBI patients. Monitor	r sodium and urine output whene	ver possible.
Management: Blood Glucose Co	ontrol		
Avoid both hypo- and hyperglycemia. Target blood glucose 100–180mg/dL.	Monitor for signs and symptoms of hypoglycemia. Allow patient to eat as long as they are able.		Check blood glucose every 6 hours with handheld glucometer. If <100mg/dL, give 25g (50mL) dextrose 50% (D50) IV/IO or 5tsp sugar/4tsp honey PO/NG.
Transportation			
	Dose sedative/analgesic medications, osmotic therapies, and/or benzodiazepines before any significant ground or air transport if possible.		Provide a detailed brief to the transport assets specifically highlighting any neurologic deficits and treatments and/or accommodations required during transport.

Most patients should be transported in the supine position with the HOB elevated at least 30°.

<sup>\*\*</sup>For fixed-wing aircrafts: load patient with head to the front of the aircraft to minimize G-forces transmitted to the brain.

\*\*For altitudes >8000 ft, TBI patients are at risk of hypobaric hypoxia and high-altitude cerebral edema (HACE), which can worsen brain injuries.

## APPENDIX F: SUMMARY TABLE

Airway									
Best	Rapid Sequence Intubation								
Dest	Continuous sedation + airway maintenance and suctioning								
	• O <sub>2</sub> and portable ventilator								
Better	Cricothyroidotomy								
Detter	Continuous sedation + airway suctioning								
	• O <sub>2</sub> concentrator and portable ventilator								
Minimum	Cricothyroidotomy								
	Ketamine								
	Bag-valve-mask with PEEP valve								
Assess Burn S									
Best	For initial estimate: Rule of 9s								
	After wounds are cleaned/debrided: re-calculate burn size using Lund-Browder chart								
Better	Same as minimum								
Minimum	For large burns: Rule of 9s								
	• For small burns: Use patient's hand = 1% TBSA								
Fluid Resuscit									
Best	Use isotonic crystalloid: Lactated Ringer's (LR) or Plasma-Lyte								
	• Starting fluid rate is rule of 10s (TBSA x 10; +100 ml/hr for each 10 kg over 80 kg)								
Better	Oral resuscitation with electrolyte solution (avoid plain water)								
	Possible for up to 30% TBSA burns								
	"Coached" drinking on a schedule to meet target fluid rate								
Minimum	Rectal infusion of electrolyte solution								
	Can infuse up to 500 ml/hr								
	May use to supplement oral hydration								
Teleconsultat	ion								
<ul> <li>Establis</li> </ul>	sh contact early • Burn > 20% TBSA								
	tor management • Electrical burn								
	ring burn size • Escharotomy needed								
Hemore	ragic shock + burns • Infection								
Monitoring									
Vital Signs									
Best	Portable monitor								
	Capnography								
	Document vital signs (VS) and I/O on flow sheet								
Better	BP cuff, stethoscope								
	Pulse oximetry, Capnography								
	Document VS and I/O on flow sheet								
Minimum	Blood Pressure (BP) cuff, stethoscope								
	Pulse oximetry								
	Document VS on flow sheet								
Urine Output									
Best	Foley catheter, titrate fluids to keep urine output (UO) 30-50 ml/hr								
5	Increase or decrease fluid rate by 25% each hour if UO not at goal								
Better	Collect urine in graduated container     Name of the president of the								
N. Alimina	• >180 ml every 6 hours is adequate								
Minimum	If unable to measure UOP, adjust fluids to maintain HR <140, good capillary refill, intact     montal status.								
	<ul> <li>mental status</li> <li>Treat hypotension if needed, but this is a late sign of hypovolemia</li> </ul>								
	Treat hypotension in needed, but this is a late sign of hypovoleinia								

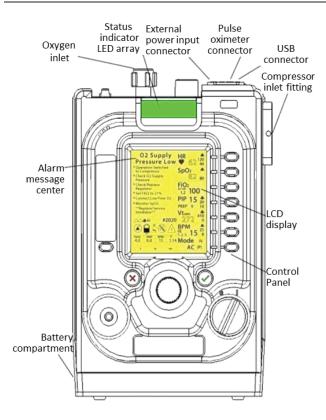
F	
Extremity Bu	
Best	Elevate, Exercise
	Monitor pulses hourly, Doppler flow meter
	Escharotomy if circumferential 3rd degree burn
Better	Elevate, Exercise
	Monitor pulses hourly
	Escharotomy only if unable to palpate distal pulses and evacuation delayed
Minimum	Elevate, Exercise
	Monitor pulses hourly
Pain Manage	ment
Best	Ketamine infusion
	Supplement with IV opioids and midazolam (e.g., Versed), frequent small doses
Better	Ketamine IV
	Supplement with IV opioids and midazolam, frequent small doses
Minimum	Fentanyl Lozenge
	Oral acetaminophen/oxycodone (e.g. Percocet, Endo Pharmaceuticals,
	http://www.endo.com/)
Infection	
Prevent Infe	ction
Best	Clean wound and debride loose dead skin using gauze and Hibiclens in clean water
	Apply antimicrobial cream (Silvadene or Sulfamylon), cover with gauze.
	Alternative: Apply Silverlon dressings to clean wounds, cover with gauze
Better	Clean wound and debride loose dead skin using any antibacterial soap in clean water
	Apply any available dressing
	Optimize wound care and hygiene to extent possible
Minimum	Cover with clean sheet or dry gauze
	Leave blisters intact
Treat Infection	on
Best	If cellulitis (spreading erythema around edge of burn) treat with IV antibiotics (e.g., cefazolin
	or clindamycin)
	• If invasive infection with sepsis, foul smell, or burn wound color change, cover gram-positive
	and gram-negative and Pseudomonas bacteria (e.g. ertapenem + ciprofloxacin)
Better	Same as minimum
Minimum	If cellulitis (spreading erythema around edge of burn) or invasive infection, treat with
	antibiotics.
	Any available antibiotic

### APPENDIX B: CRUSH INJURY, MONITORING AND MANAGEMENT CONSIDERATIONS

			Phase 1 Entrapment	Phase 2 Extrication	Phase 3 Immediately Following Extrication	<b>Phase</b> 4 Prolonged Field Care
FLUIDS						
	Best	IV or IO crystalloids	Initial bolus: 2L, continue 1L/h	Continue 1L/h	Titrate to UOP 100– 200mL/h	Titrate to UOP 100– 200mL/h
	Better	Oral electrolyte solution	Continue	Continue	Continue. Goal UOP 100–200mL/h	Continue. Goal UOP 100–200mL/h
	Minimum	Rectal electrolyte solution	Continue	Continue	Continue. Goal UOP 100–200mL/h	Continue. Goal UOP 100–200mL/h
Telemedicine: Consult on ma	nagement					
Monitoring: 15-minute to ho	urly vital signs, ex	ramination, urine output documented on flowsheet				
VITAL SIGNS						
	Best	Portable monitor with ECG	Record every 15 minutes	Record every 15 minutes	Record every 15 minutes	Record every 1 hour
	Better	Check intermittent vital signs	Every 15 minutes	Every 15 minutes	Every 15 minutes	Record every 1 hour
	Minimum	Monitor pulse and mental status	Every 15 minutes	Every 15 minutes	Every 15 minutes	Record every 1 hour
UOP	Best	Place Foley catheter	N/A	N/A	Record UOP every 1	Record UOP every 2
	Minimum	Capture urine in premade or improvised graduated cylinder			hour	hours
Urine myoglobinuria	Best	Laboratory monitoring	N/A	N/A	N/A	Every 6 hours
	Better	Assess urine color (red, brown, or even black)	]			
	Minimum	Dark urine (red, brown, or even black)				
Potassium and cardiac	Best	Laboratory monitoring of potassium levels	N/A	N/A	Check	Every 4-6 hours
arrhythmia		12-lead ECG	N/A	N/A	Check	Every 4-6 hours
	Better	Laboratory monitoring of potassium levels	N/A	N/A	Check	Every 4-6 hours
		3–5 lead ECG	Initiate	Continue	Continue	Continue
	Minimum	Close monitoring of vitals and circulatory examination	Initiate	Continue	Continue	Continue
Treatments for Hyperkalemi	ia (>5.5mEq/L) or	Cardiac Arrhythmia				
Calcium gluconate (10%)	Best	10mL IV over 2–3 minutes	N/A	N/A	Monitor; repeat as req	uired
Insulin (regular) and D50	1	10 units IV push + 50mL D50	N/A	N/A	]	
Albuterol (2.5mg/3mL vial)		10mg (4 vials) in nebulizer	N/A	N/A		
Sodium polystyrene sulfonate (Kayexalate)		15–30g suspended in 50– 100mL liquid, oral or rectal	N/A	N/A		

			Phase 1 Entrapment	Phase 2 Extrication	Phase 3 Immediately Following Extrication	<b>Phase</b> 4 Prolonged Field Care
Calcium gluconate 10% Alternate: calcium chloride 10%	Better	10mL IV over 10 minutes				
Insulin (regular) and D50		10 units IV push + 50mL D50	N/A	N/A	Monitor; repeat as requ	uired
Any individual or combination of above, as available	Minimum	See above	N/A	N/A		
Management of Injured Extr	emity					
Extremity compartment syndrome	Best	Clinical assessment  • 6 Ps*  • Rigid compartment			Fasciotomy: only if qua or teleconsultation avai	lified medical personnel ilable
	Minimum				Cool limb (evaporative cooling, no ice/snow)	or environmental
Tourniquet (for crush management)	Best	If adequate fluids are unavailable, or arrhythmia cannot be managed during entrapment and extrication	If entrapment time >2 hours, consider tourniquet. Place two tourniquets side by side and proximal to the injury		criteria for tourniquet con initiate crush injury proto	nversion or removal, and col before loosening
Tourniquet (for irreversible injury)		A limb that is cool, insensate, tensely swollen, and pulseless is likely dead. Patient may develop shock and kidney damage, and may die.				Consider fasciotomy. If no improvement, place two tourniquets side by side and proximal to the injury. Amputation anticipated
Pain						
			Per TCCC	Per TCCC	Per TCCC	Pain/sedation CPG
Infection Control						
Antibiotics	Best	Portable monitor with ECG	Ertapenem, 1g IV/day	/ (1g, 10mL saline or st	erile water)	
	Better	Check intermittent vital signs			ycin (300–450mg by mout 00mg/day; IV or by mout	
	Minimum	Monitor pulse and mental status			Ensure wounds cleaned hygiene of wounds and extent possible given en	patient optimized to the
N/A, not applicable; UOP, urine of	output. *6 Ps: Pain pe	ersisting despite adequate analgesia is most important symp	tom, followed by paresthe	esia, pallor, paralysis, poik	cilothermia, pulselessness	

### APPENDIX C: ZOLL EMV+ (731 SERIES)



- 1. Turn on the ventilator and ensure that the machine is functional and the battery is charged.
- 2. Attach the ventilator tubing and O2 tubing to the machine.
- 3. If the patient is a transfer on a vent, maintain ventilator settings from the medical treatment facility.
- 4. If the patient is "newly" on the ventilator, initial settings should include:

a. MODE: AC

b. BPM/RRate: 14BPM (10-30 range)

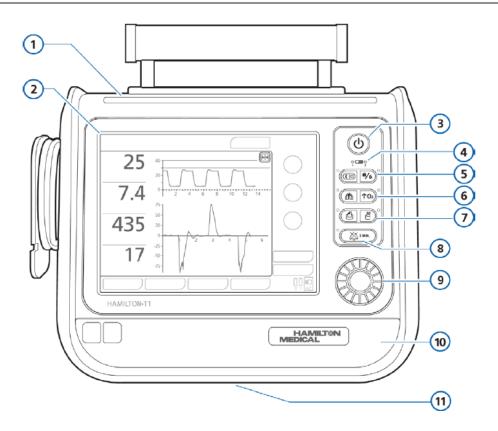
c. TIDAL VOLUME: 6ml/kg IBW (4-8ml/kg IBW range)

QUICK REFERENCE (Male): (Detailed quick reference in Appendix A)

66" = ~380cc [min: 255 / max: 510] 69" = ~420cc [min: 283 / max: 566] 72" = ~465cc [min: 310 / max: 621] 75" = ~505cc [min: 338 / max: 676]

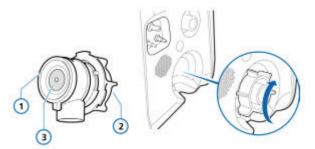
- d.  $FiO_2$ : 21 100% (0.21-1.0) (low flow O2 @ 3 LPM = ~ 40%  $FiO_2$  [flowrate on Saros oxygen concentrator])
- e. I:E Ratio: 1:2
- f. PEEP: 5 [Range 5-20]
- 5. Monitor waveform on the machine and visually inspect the patient to ensure no "breath stacking." If this occurs, a high-pressure alarm may sound. However, if breath stacking is suspected even in the absence of alarm disconnect tubing and allow exhalation and decrease the I:E if possible from 1:2 to 1:4.

#### APPENDIX D: HAMILTON T1



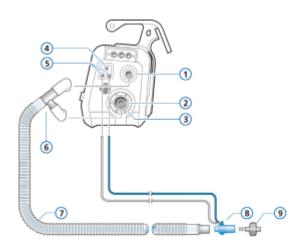
- 1 Alarm lamp. Red = high-priority alarm, yellow = medium- or low-priority alarm.
- 2 Touch screen. Provides access to measurements and controls.
- 3 Power/Standby key. Turns the ventilator on and off and accesses standby.
- 4 Battery charge indicator. Lit = battery is fully charged. Flashing = battery is charging.
- 5 Day/Night key. Switches between the Day and Night display brightness setting.
- 5 Screen lock/unlock key. Prevents inadvertent change of settings.
- Manual breath/inspiratory hold key. Triggers a mandatory breath when pressed and released during exhalation. Triggers an inspiratory hold when held down during any breath phase. When active, the green indicator is lit.
- 6 **O2 enrichment key.** Delivers 100% oxygen for 2 min. Press the key a second time to cancel. Press **O2** key and disconnect patient to start a suctioning maneuver.
- 7 Print screen key. Save a JPG file of the current ventilator screen to a USB memory drive.
- Nebulizer on/off key. Activates pneumatic nebulizer for 30 minutes or until pressed again during the inspiration phase if high-pressure oxygen (HPO) is connected.
- **8** Alarm silence key. Silences the main ventilator audible alarm for 2 min. Press the key a second time to cancel the alarm silence.
- 9 Press-and-turn (P&T) knob. Use to select and adjust ventilator settings.
- 10 Front cover and battery. The backup batteries are located inside the front cover.
- 11 Underside of ventilator. Expiratory valve bleed port. Do not obstruct.

- 1. Set up the ventilator.
  - a. Install expiratory valve.



- Expiratory valve membrane
- 2 Expiratory valve housing
- 3 Metal plate facing the ventilator

b. Connect coaxial breathing circuit



- To patient (inspiratory port)
- 2 From patient (expiratory port)
- 3 Adult/pediatric expiratory valve set
- 4 Nebulizer outlet
- 5 Flow sensor connectors
- 6 Limb connector
- Coaxial inspiratory/expiratory limb
- 8 Flow sensor
- 9 HMEF

Connect the breathing circuit to the inspiratory and expiratory ports (1, 2) and the flow sensor tubes to the flow sensor connectors (5).

- c. Enable Hamilton T1, EtCO2, or Spo2 add ons if capable.
- 2. Perform pre-operational checks.
  - a. Click PreOp Checks on main page.
  - b. Conduct Tightness Test.
  - c. Conduct Flow Sensor Test.
  - \*\*Do not attach a patient to the ventilator without conducting both tests.\*\*
- 3. Select modes
  - a. Input patient Gender and Height (this calculates all alarm values and "normal" ranges.

    \*\*Do not bypass this step\*\*)
  - b. Touch **Modes** to change ventilator mode.
  - c. Select ASV.
- 4. Select settings
  - a. Set Tidal Volume (4-8 ml/kg IBW) or Pressure Support (not to exceed 30 mmHg).

**NOTE**: This ventilator is "PEEP Compensated" which means when in Pressure Support mode if your Pressure Support is 20 and your PEEP is 10, your settings are actually 30 over 10. If you want 20 over 10, you need to see the Pressure Support at 10 and the PEEP at 10.

- \*\*This can get confusing, seek direction from medical control if necessary.\*\*
- b. Set appropriate rate for age group.
- c. Set Fi02 (21 to 100%).
- d. Set PEEP (5 to 20).
- e. Adjust I:E Ratio as necessary.
- 5. Set Flow Trigger (0.5 to 5). Press the start ventilation button prior to connecting patient.
- 6. Once the patient is on the ventilator, you may have to adjust alarm parameters

# SAVE2 Vent Setup, Troubleshooting and Management

**Initial Vent Setup** 

# **Airway Nursing Care**

Hook up tubing and circuit to ventilator

Add any adjuncts such as HME and Emma

Calculate patient height/ideal body weight

Calculate patient height/ideal body weight

Calculate patient height/ideal body weight

Record baseline settings and vitals below

Assess patient using the MOVE pneumonic

Optimize PEEP using (pPlat(PiP) -PEEP = <18)

Keep PiP below 30 (Reduce volume and increase rate if needed)

Count patient respiratory rate Monitor for signs of pneumothorax

Turn on and adjust ventilator

Remove patient from BVM and plave on working vent

Suction airway as needed
Oral hygeine Q8 Hours

# **DOPERS Troubleshooting**

Displacement/Dysynchrony

Obstruction Pneumothorax Equipment

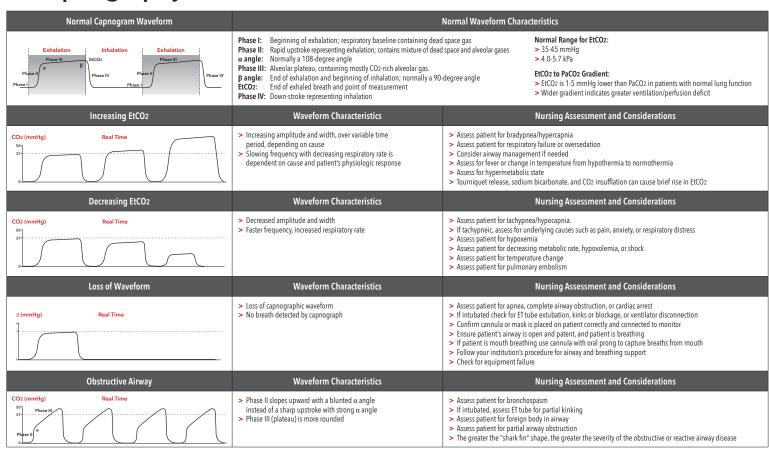
Rigidity(due to fentanyl)

Stacked Breaths

Admin Data Name/Number		Height		IBW		Weight(kg)		CC:		Stable or	Unstable	
	Time											
Mechanics	Posture / Positioning			,								
	Breath Sounds					, and the second						
	Chest Rise	-										
	Mental Status (AVPU, GCS, RASS)											
	Meds/Doses											
Oxygenation	SpO2											
	HR											
	Skin Color											
	FiO2											
	PEEP											
Ventilation												
	RR (Respiratory Rate)	).										
	vT (Tidal Volume)											
	M.V (Minute Volume)											
	vT diff from ARDs vT											
	iTime (Inspiratory Time)											
	etime (Expiratory Time)											
	EtCO2 (End Tidal CO2)	v.									t.	
Eval and Equipment	PIP (Peak Inspiratory Pressure)											
	pPlat (Plateau Pressure (Not on SAVE)	1)										
	DP (Drive Pressure=pPlat or PIP - PEER	P)										
	Tube Cuff pressure or MOV											
	Humidity						3					

# Capnography Waveforms – Quick Reference Guide

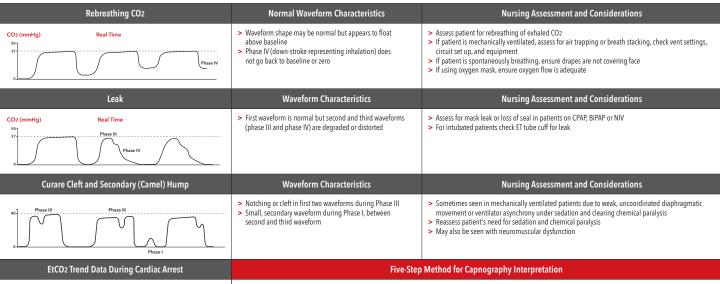


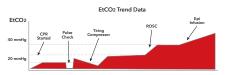


Brast, S., Bland, E., Jones-Hooker, C., Long, M., and Green, K. (2016). Capnography for the Radiology and Imaging Nurse: A Primer. Journal of Radiology Nursing, Volume 35, Issue 3, 173 – 190.
For professional use. See Directions for Use for full prescribing information including indications, containdications, warnings and precautions. Caution: Federal (USA) law restricts this device to sale by or on the order of a physician.

# Capnography Waveforms – Quick Reference Guide'

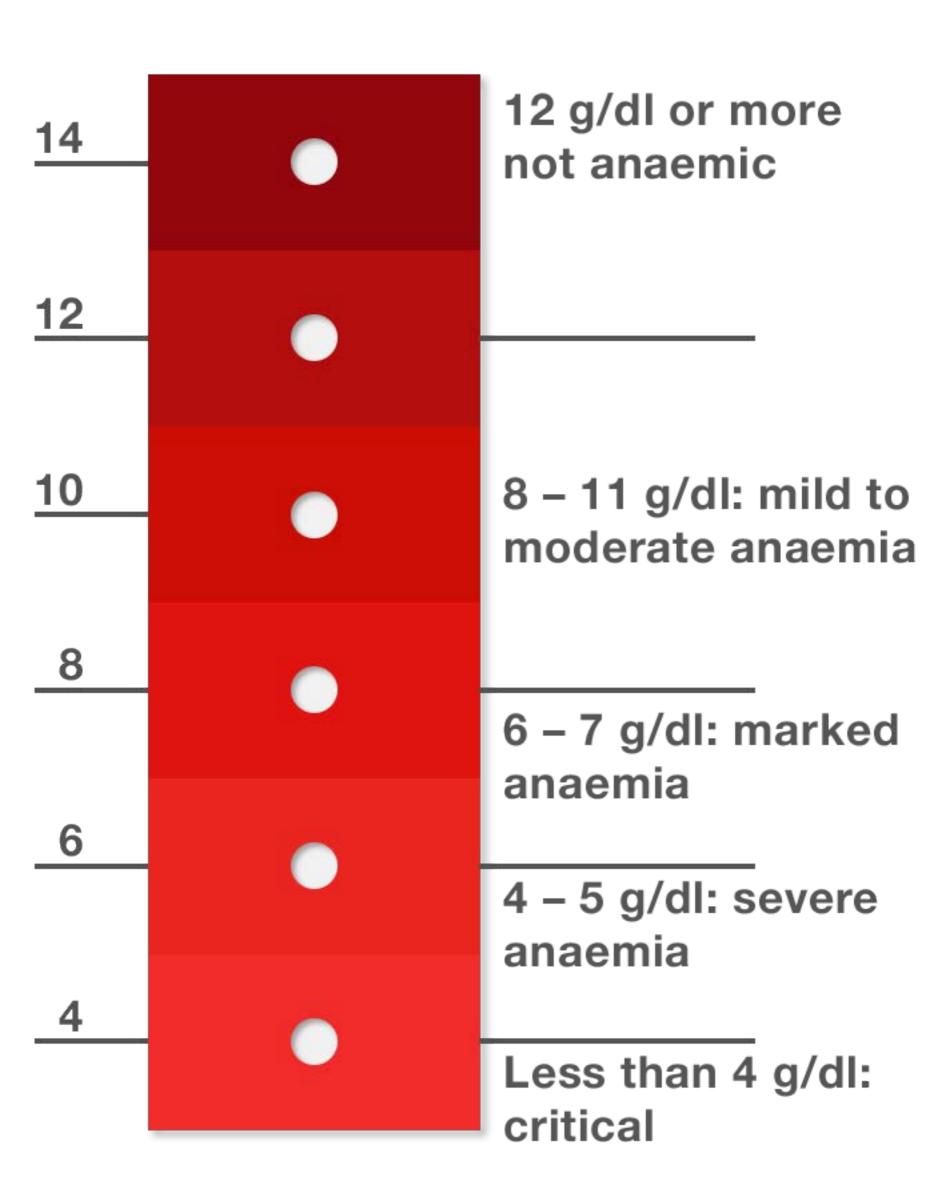






- > Initially, waveform and EtCO2 value are low during cardiac arrest but increase with effective chest compressions
- > The higher the EtCO2 value the greater the chance of ROSC
- > EtCO2 ≥ 20 mmHg during CPR indicates adequate chest compressions
- > EtCO2 < 10 mmHg after 20 minutes of high-quality chest compressions indicates poor prognosis for survival

- 1. Is there a waveform? No: Is patient pulseless, apneic, or accidentally extubated? Is patient mouth breathing with a nasal cannula? Is the airway obstructed? Repositioning head may alleviate airway obstruction. Yes: What is the height, width, and frequency (respiratory rate)? Is there a pattern? Is patient hypoventilating or hyperventilating? Is patient in shock or hypovolemic?
- 2. What is the shape of the waveform? Do you see a steep rise in Phase II with a plateau? Is there sloping, notching, or a prolonged Phase III? If the plateau is altered, the expiratory phase and alveolar gas exchange are altered. If sloping is seen, consider bronchospasm, kinked artificial airway, or foreign body.
- Does the waveform have a steep return to baseline? Phase IV represents the inspiratory phase. If patient is rebreathing CO2, assess for air trapping or excess dead space in ventilator circuit.
- What is the EtCO2 trend? Evaluating the trend provides a graphic representation of patient's ventilatory status over time. Downward trending could indicate shock or hypovolemia. Upward trending could indicate increased metabolic demand, hypoventilation, or hyperthermia.
- Does your capnographic assessment correlate to your clinical assessment? Are there assessment disparities among EtCO2 trend, respiratory rate, waveform, and clinical picture? As a standard of practice, multiple subjective and objective assessment criteria are required to confirm ET tube placement.





## ProlongedFieldCare.org Procedural Sedation Checklist 19 Jan 2021

It is far easier to accidentally kill someone during even a short procedure with anesthesia than a scalpel. The most experienced provider should run anesthesia and stay by the patient's head until after the procedure and the patient is fully recovered from all drugs.

Patient A	ssessmeı	nt	
	Baselin	e GCS or	RASS
	Blood F	ressure	
	Heart F	Rate	
	Shock I	Index=(HI	R÷SP) [Normal=.57]
	Respira	atory Rate	•
	Allergie	s	
	Blood T	Гуре	
	Actual \	Weight kg	I
	Ideal B	ody Weig	ht based on height kg
Adequate	ly resuscit	ated? Y	<u>ES</u> <u>NO</u>
	SICK	<u>(</u> or <u>N</u>	OT SICK?
	STABLE	or <u>U</u>	NSTABLE?
GETTING	BETTER	or <u>G</u>	ETTING WORSE?
	Preparati		
	M-Machin		
	<u> </u>		d PEEP valve
			r and circuit
	S-Suction		
		Suction of	catneter
	M-Monito		Annikan
		Patient N	
	0	Stethoso BP Cuff	ope
		Pulse Ox	,
	A-Airway	Capnogr	арп
_		Cric kit a	nd checklist
	ū	iGel/SG/	
			pment and checklist
	ā	Oxygen	princing and oriconalet
	I-IV/IO	0,1,90	
_	<b>.</b>	Fluids ar	nd lines hooked up
	D-Drugs a		s calculated, drawn and labeled
			regional anesthesia block for analgesia
		Antiemet	
			Ondansetron 4mg
			Phenergan 25mg
		Analgesi	a
			Fentanyl 25-100mcg as needed for
			30-60mins of analgesia for painful stimuli
			Narcan 0.4-2as needed for fentanyl
			reversal
			Ketamine 1-2mg/kg for 10 mins of
			dissociation or longer duration analgesia
		Sedation	
			Midazolam 1-4mg for sedation and
			amnesia as needed

Category		Best Response
Eye opening Spontaneous To speech To pain None		4 3 2
Verbal Oriented Confused Inappropriate words Moans None	(Modified for Infants) Babbles Irritable Cries to pain Moans None	5 4 3 2 1
Motor Follows commands Localizes to pain Withdraws to pain Abnormal flexion Abnormal extension None		6 5 4 3 2
Glasgow Coma Scale Best possible score Worst possible score If tracheally intubated then ver Best possible score w Worst possible score w	hile intubated	15 3 10T 2T

<ul> <li>Better: Using a dial flow</li> <li>Minimum: Count drip re</li> </ul>	o, set to µg/kg/min dose desir v adaptor, initial drip rate in n ate. Increase or decrease rat	L/h equals the casualty's by 1–2 drips/min (very s	weight in kg divided by 2 (s		
Drip adjustments: Incre	ase or decrease drip by 0.25	mg/kg/h (1 row).			
Ketamine Drip Dosin					
Ketamine drip rate for o	dial flow or IV pump (starting	g dose highlighted)			
De	ose	40	60 Patient's	Weight, kg	100
mg/kg/h	μg/kg/min	40		Rate, mL/h	100
0.5	8	7*	10	13	17
0.75	13	10	15	20	25
1.0	17	13	20	27	33
1.25	21	17	25	34	42
1.5	25	20	30	40	50
1.75	29	24	35	47	59
2.0	33	27	40	53	67
Ketamine drip count for	r 15 drips/mL tubing (starting	ng dose highlighted)			
			Infusion Rate, 1	drip/X seconds	
0.5	8	1/35	1/24	1/18	1/9
0.75	13	1/27	1/18	1/14	1/8
1.0	17	1/18	1/12	1/9	1/7
1.25	21	1/15	1/10	1/8	1/6
1.5	25	1/12	1/8	1/6	1/5
1.75	29	1/11	1/7	1/6	1/5
2.0	33	1/9	1/6	1/5	1/4
Ketamine drip count for	r 10 drips/mL tubing (starting	ng dose highlighted)	1.6.1	41-94	
0.5	8	1/53	1/36	drip/X seconds	1/14
0.75	13	1/41	1/27	1/21	1/12
1.0	17	1/41	1/18	1/21	1/12
1.25	21	1/23	1/15	1/12	1/9
1.5	25	1/18	1/12	1/9	1/8
1.75	29	1/17	1/11	1/9	1/8
2.0	33	1/14	1/9	1/8	1/6
2.0					
Procedural Sedation					
Step 1: Bolus (1.0–2.0mg Step 2: Consider adding • 25–100ug fents		1O over 60 seconds (250-	-400mg IM if necessary).		

	☐ Flumazenil 0.2-1mg as needed for Midazolam reversal		
	Etomidate		
	Propofol		
Epinephrine as needed for vasopressor 20mcg slow push as needed			
I Anaphylaxis			
	Epinephrine .3mg IM/SC		
	Benadryl 25-50mg		
	Solumedrol 125mg vial		

#### **Pre-Sedation Brief**

Before you sedate a patient in the PFC setting, we highly recommend that you brief your team using the MSMAID format to cover how you will handle contingencies if they arise. For example:

**M- Machine:** "Guys, if the patient stops breathing, we will need to assist him with the BVM. I will hold the mask to the face like so, and Jim, you will squeeze the bag when I tell you. Use only 3 fingers to squeeze the bag, and ventilate the patient every time you take a breath."

**S-Suction:** "If he throws up from the medication, we are going to place him in the recovery position immediately. I will attempt to clear his airway with the Suction Easy, but it is essential that we allow gravity to work in our favor."

**M-Monitor:** "Bob, you will be the monitoring guy. I need you to watch the screen and tell me his pulse rate every 5 minutes. If he starts breathing rapidly, let me know. I need you to also watch his oxygen saturation and tell me if the reading starts to drop below 95%."

**A-Airway:** "If he stops breathing at any time, we will attempt to ventilate him with the BVM, but if that isn't working, we may need to put in the iGel to help us out. Let's review how that works right now. Worst case, my Cric kit is located on the table."

I-IV/IO: "Jim, please open the IV up and make sure it is still good to go. Let's go ahead and start another line on his other arm. If we have issues, the FAST 1 is by my Cric kit."

**D-Drugs:** "If I need to give the patient more Ketamine, my syringe is sitting right here. It is all drawn up, so if I ask you to give one more CC, it means you will need to connect it to the IV port and push from the 10 mark to the 9 mark, then open the IV up

#### Doug's Basic ICU Neuro Exam for a lightly sedated and Intubated or Criced patient:

- Check Motor Cortex: Can the patient wiggle all toes and fingers or give the thumbs up
- Check Frontal, Temporal and Occipital Lobes: check that both pupils are equal, reactive and accommodating with a pen light
- ☐ Check Deep Brain Reflexes: Illicit a cough by suctioning the airway down to the carina with a sterile suction catheter like the Ballard inline suction
- ☐ Check Brain Stem: Is the patient breathing? If ventilated, are they breathing more than the set rate?

Along with a GCS score, this exam will tell you in simple terms if the geographic areas of the brain are intact.

## Circle of Awareness Continuous 5-Minute Checks During the Procedure

- 1. Airway Patency (Including ventilator if being used)
- 2. Breathing Rate with stethoscope on chest
- 3. Circulation Rate and Pressure
- 4. Check ventilator settings
- 5. Sedation level (RASS) and drip rate
- 6. Report Patient Status to the Surgical Team
- 7. Record
- 8. Tasks such as untangling lines

#### Check RASS (Richmond Agitation and Sedation Scale)

_				
Richmond Agitation-Sedation Scale (RASS)				
RASS Score	Term	Description		
4+	Combative	Combative, violent, immediate danger to staff		
3+	Very agitated	Pulls or removes tubes or catheters, aggressive		
2+	Agitated	Frequent nonpurposeful movement, fights ventilator		
1+	Restless	Anxious but movements not agressively vigerous		
0	Alert and Calm			
-1	Drowsy	Not fully alert but has sustained eye opening/contact 10 sec or more to voice		
-2	Light Sedation	Briefly awakens to voice with eye contact less than 10 sec		
-3	Moderate Sedation	Movement or eye opening to voice (no eye contact)		
-4	Deep Sedation	No response to voice but movement or eye opening to physical stimuli		
-5				
-5	Unarousable	No response tovoice or physical stimuli		
-5	Unarousable	No response tovoice or physical stimuli		
-5				
	Richmond Ag	gitation-Sedation Scale (RASS) for Traumatic Brain Injury		
RASS Score	Richmond Ag	gitation-Sedation Scale (RASS) for Traumatic Brain Injury  Description		
	Richmond Ag	gitation-Sedation Scale (RASS) for Traumatic Brain Injury		
RASS Score	Richmond Ag	gitation-Sedation Scale (RASS) for Traumatic Brain Injury  Description		
RASS Score 4+	Richmond Ag Term Combative	gitation-Sedation Scale (RASS) for Traumatic Brain Injury  Description  Combative, violent, immediate danger to staff		
RASS Score 4+ 3+	Richmond Ag Term Combative Very agitated	gitation-Sedation Scale (RASS) for Traumatic Brain Injury  Description  Combative, violent, immediate danger to staff  Pulls or removes tubes or catheters, aggressive		
RASS Score 4+ 3+ 2+	Richmond Ap Term Combative Very agitated Agitated	gitation-Sedation Scale (RASS) for Traumatic Brain Injury  Description  Combative, violent, immediate danger to staff  Pulls or removes tubes or catheters, aggressive  Frequent nonpurposeful movement, fights ventilator		
RASS Score 4+ 3+ 2+ 1+	Richmond Ay Term Combative Very agitated Agitated Restless	gitation-Sedation Scale (RASS) for Traumatic Brain Injury  Description  Combative, violent, immediate danger to staff  Pulls or removes tubes or catheters, aggressive  Frequent nonpurposeful movement, fights ventilator		
RASS Score 4+ 3+ 2+ 1+ 0	Richmond Ay Term Combative Very agitated Agitated Restless Alert and Calm	gitation-Sedation Scale (RASS) for Traumatic Brain Injury  Description  Combative, violent, immediate danger to staff  Pulls or removes tubes or catheters, aggressive  Frequent nonpurposeful movement, fights ventilator  Anxious but movements not agressively vigerous		
RASS Score 4+ 3+ 2+ 1+ 0 -1	Richmond Ar Term Combative Very agitated Agitated Restless Alert and Calm Drowsy	gitation-Sedation Scale (RASS) for Traumatic Brain Injury  Description  Combative, violent, immediate danger to staff  Pulls or removes tubes or catheters, aggressive  Frequent nonpurposeful movement, fights ventilator  Anxious but movements not agressively vigerous  Not fully alert but has sustained eye opening/contact 10 sec or more to voice		
RASS Score 4+ 3+ 2+ 1+ 0 -1 -2	Richmond Ay Term Combative Very agitated Agitated Restless Alert and Calm Drowsy Light Sedation	gitation-Sedation Scale (RASS) for Traumatic Brain Injury  Description  Combative, violent, immediate danger to staff  Pulls or removes tubes or catheters, aggressive  Frequent nonpurposeful movement, fights ventilator  Anxious but movements not agressively vigerous  Not fully alert but has sustained eye opening/contact 10 sec or more to voice  Briefly awakens to voice with eye contact less than 10 sec		



### ProlongedFieldCare.org **Austere Surgical Procedure Checklist**

Updated 19 Jan 2021

### Is the juice worth the squeeze?

- What happens if you do it and the patient dies?
- What happens if you do nothing and they die?
- Can you transfer to another host-nation, Ally or NGO facility?

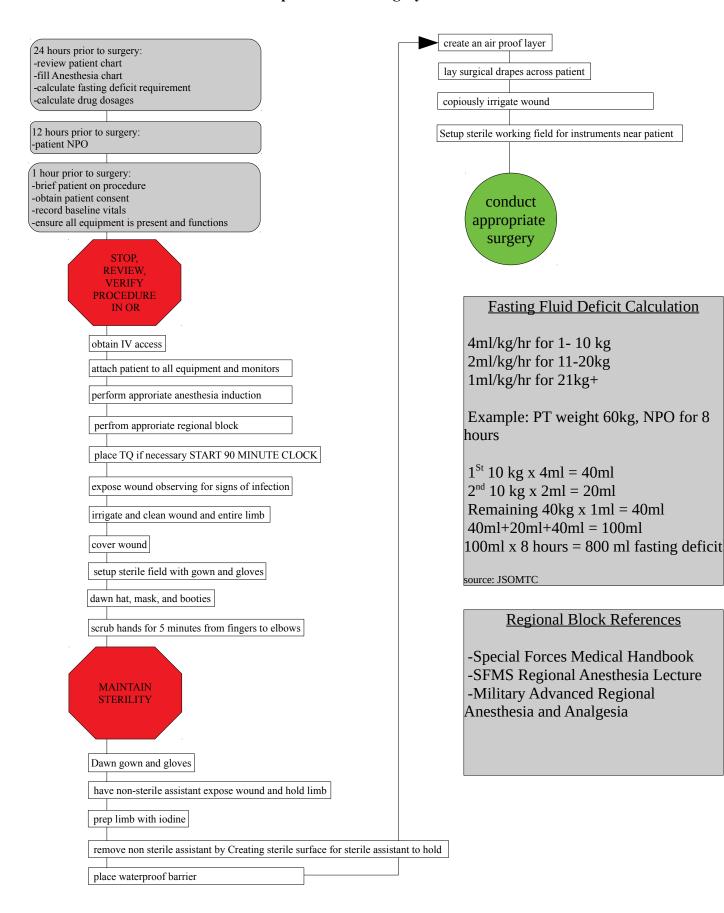
### Goals of emergency war wound surgical procedures:

- 1. Stop Bleeding
- 2. Relieve tension
- 3. Remove or reduce contaminants including dead tissue and reduce bacterial load

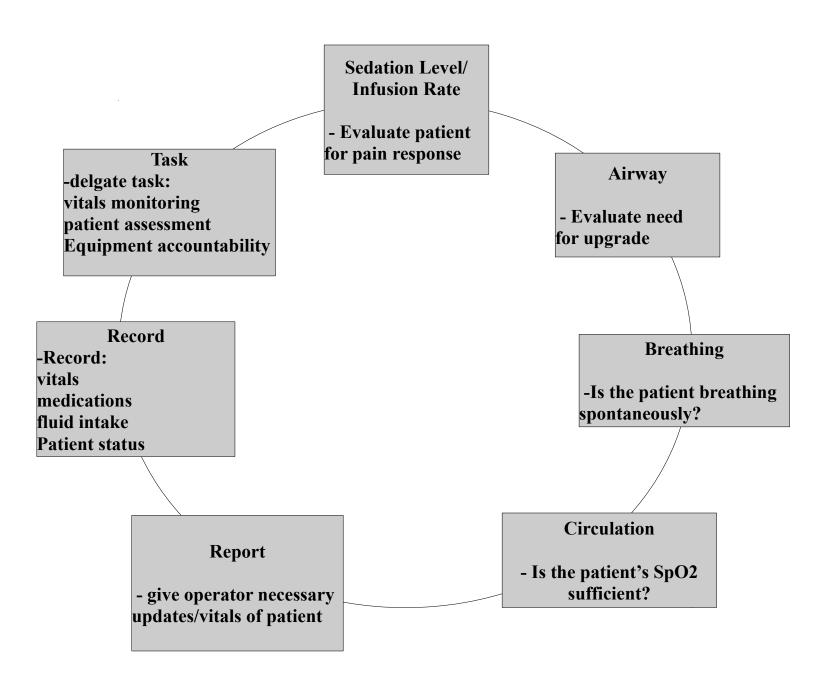
4.	Restore perfusion or function		
Other tl	hings that can make a difference and buy time (Things we have learned since the Civil War):		
	Early systemic antimicrobials		
	□ Early Antibiotics		
_	☐ Tetanus prophylaxis		
	Disruption of superficial biofilm on old wounds by scrubbing with antimicrobial such as  Chlorhexidine		
	☐ Iodine surgical scrub		
	☐ Antibacterial soap		
	dakin's solution (1L water + 0.5ml unscented household bleach) for suspected fungal infection		
	Copious irrigation with potable water		
	Bacteriostatic dressings such as silverlon, sugar, honey Promoting natural drainage NO occlusive dressings		
	Sterility and aseptic technique		
Step by	Step Surgical Prep		
· o ´	Telemedical Consult?		
	Room Prepped		
	□ Clean		
	□ Secure		
	Drug Calculations and Syringes		
	Procedure and Anesthesia Cheatsheets Patient		
_	Resuscitated and Stable?		
	☐ Mental status, BP, HR, RR, SI, Lactate, INR, HCT		
	□ NPO or decompressed?		
	☐ Additional Blood anticipated?		
	Anesthetic strategy		
	Monitors		
	□ Airway		
	□ Sedation		
_	☐ Analgesia Other Meds		
	□ Antibiotics		
	☐ Antiemetics		
	☐ Antisialagogue		
	Instruments Disinfected and Sterile		
	□ Scalpel w/ 10 blade		
	□ Forceps/Clamps		
	☐ Tissue forceps nice to have		
	□ Needle Drivers nice to have		

		Gigli Saw wire			
		☐ Gigli handles nice to have			
		Scissors			
	_	☐ Metzenbaums or Mayos nice to have			
Sterile Drapes Recommended					
	ve - Lobsi				
		nins on high(15 psi setting)			
		re cooker Toaster Oven, grill)			
DI y I ICC		180°C (356°F) for 30 mins			
		170°C (338°F) for 1 hour1			
	_	160°C (320°F) for 2 hours			
Glutaral	_	Cidex 5 mins then rinse			
Alcohol:					
		60% to 90% minimum			
		3 hours of contact time			
		Consumable alcohol must be a minimum of 120 proof			
		d (5.25%) sodium hypochlorite NO MORE THAN 5 mins then rinse off			
		at a low rolling boil			
		rowave with a small cup of water on the side (NO METAL!)			
		Other Surgical Equipment			
	<del>-</del>	Sterile Gloves			
		Gown			
	<del>-</del>	mask Suture			
		Chlorhexidine			
		lodine			
Prep an	nd Drape	Tourie			
		econtamination of entire limb with chlorhexidine scrub			
	Irrigate a				
	-	and mask			
	Open or	uter layer of sterile pack, gown and gloves			
	Apply to	urniquet at this time if needed			
		and Don gown and gloves			
		erile packs and create sterile working space			
		erything with Povidone Iodine			
		ffected area with sterile drapes			
		Air-tight/Waterproof plastic layer			
TIME		Large outer working surface  ORE CUTTING			
		re, Plan, Roles, Anesthesia, Resuscitation, Antibiotics, Special considerations, Questions			
		rie, Flan, Roles, Ariestriesia, Resuscitation, Antibiotics, Special considerations, Questions kin and elongate wound edges with scalpel			
_		and remove dead tissue with scissors			
_		Color			
		Consistency			
		Contractility			
		Capillary bleeding			
	Ligate v				
	Distract	and cut nerves (amputation only)			
		ove bone			
	Fascioto				
		e tourniquets(NOTIFY ANESTHETIST FIRST)and check bleeding			
		with potable water			
		unt in and out)			
		ne wound/stump			
☐ Ensure		erile non-occlusive dressings and/or drains to allow for exudate drainage			
Ensure your interventions worked  □ ALL bleeding controlled once tourniquets removed					
		e compartments			
ō		aminants and non-viable tissues removed and irrigated			

### Patient Preparation for Surgery and Anesthesia



### **Circle of Awareness**

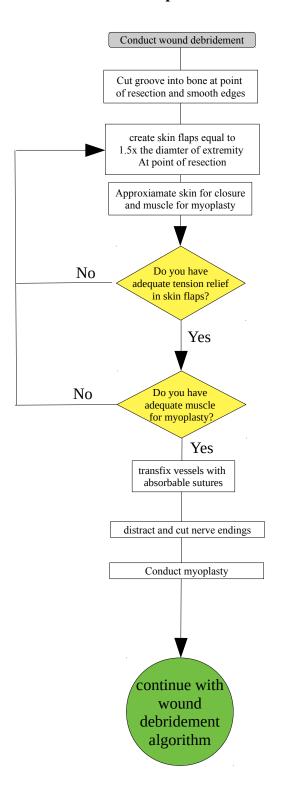


### \*\*\*Disclaimer\*\*\*

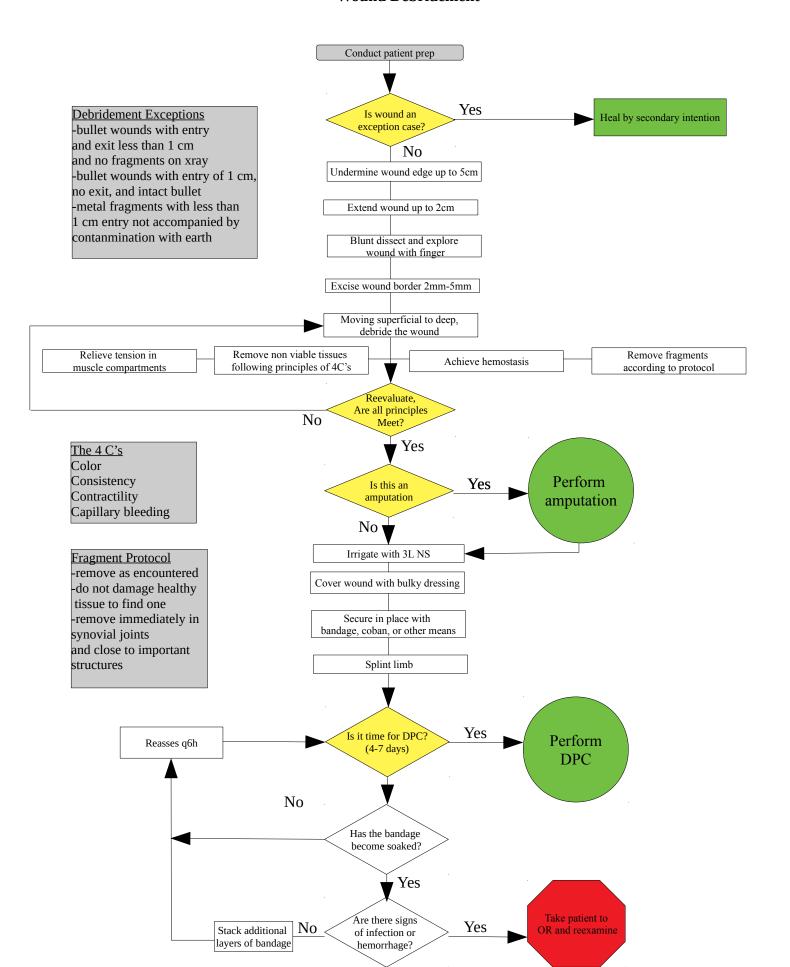
This is only a quick reference guide and does not take into account all medical considerations.

Always use your best clinical judgement.

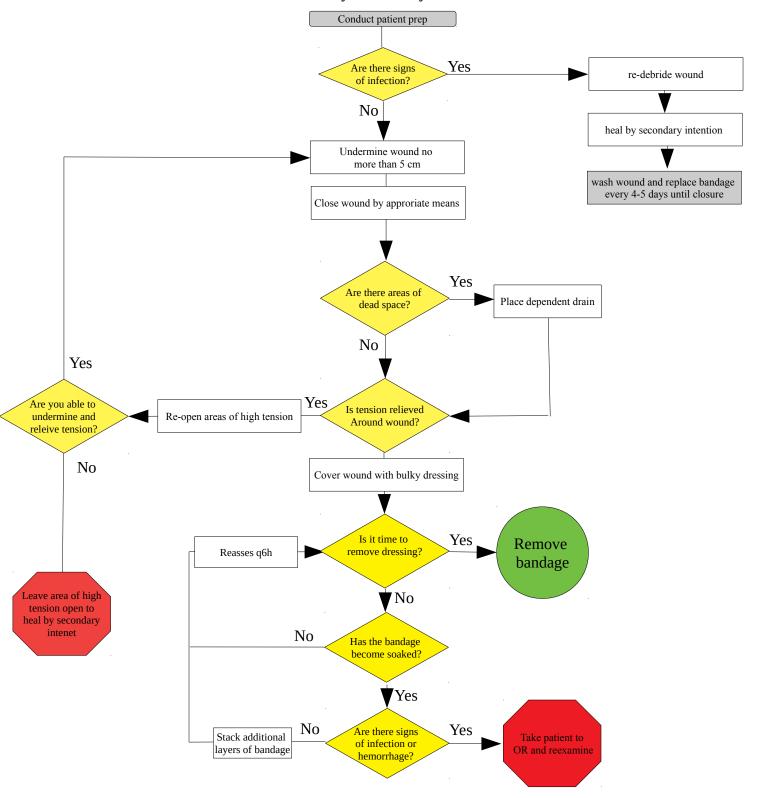
### Amputation



#### **Wound Debridement**



### **Delayed Primary Closure**



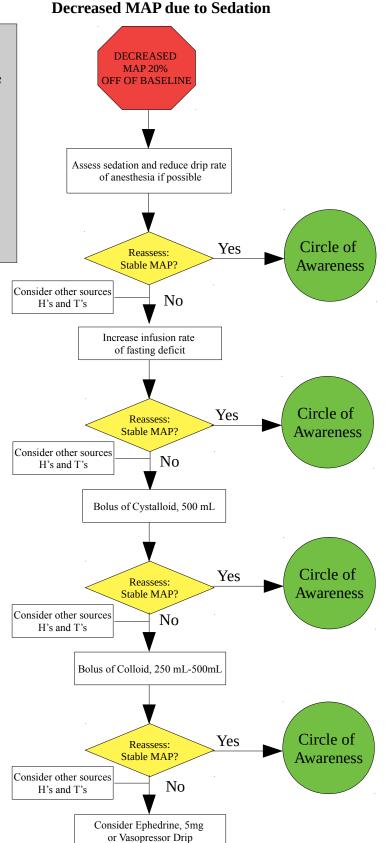
### \*\*\*Disclaimer\*\*\*

This is only a quick reference guide and does not take into account all medical considerations.

Always use your best clinical judgement.

### H's and T's

- Hypovolemia
- Hypoxia
- Hydrogen ion excess
- Hypoglycemia
- Hypokalemia
- Hyperkalemia
- Hypothermia
- Tension pneumothorax
- Tamponade Cardiac
- Toxins
- Thrombosis (pulmonary embolus)
- Thrombosis (myocardial infarction)



# Required Surgical Equipment

Instrument	Quantity
CVD Mayo Scissors	1
Metzenbaum Scissors	1
One Point Sharp Scissors	1
Tissue Foreceps	1
Debakey Foreceps	1
Adson Tissue Forceps	1
#3 Scalpel Handle	1
#6 Needle Holder	1
Allis	2
CVD Mosquito	4
Weitlaner Retractor	1
Dull Volkman Retractor	2
4x8 non-sterile gauze	60
Gigli Saw Handle	2
Gigli Saw Blade	1
Lewis Bone File	1
Lewis Bone Rasp	1
Sterile Indicator (Class V)	2
36x36 Muslin Wrapper	5
Hand Towel	4
Penetrating Towel Clip	4
Kelly (Sponge Stick)	2
Emesis Basin	1

## **Useful Medications**

Medication	Use	Dose	Onset	Duration
atropine	anticholinergic	.48 mg PO/SQ/IV/IM	45s-60s IV	4-6 hours
glycopyrrolate	anticholinergic	.13 mg IV/IM/SC	<60s IV, 15-30 min IM, 50min PO	Up to 7 hours
morphine	analgesic	5-15 mg IM/IV (.051 mg/kg)	5-10 min IV	3-4 hours
fentanyl	analgesic	50-100 mcg IV	<60s IV	30-60 min
Stadol	analgesic	.5-2 mg IV	1-5 min IV	3-4 hours
Narcan	opoid antagonist	.044 mg IV/IM/SQ	~2 min IV	.5-2 hours
Versed	benzodiazepine	.5-5 mg IV	1-5 min IV	<2 hours
diazepam	benzodiazepine	2-10 mg IV	<60s IV	Up to 3 hours
flumazenil	benzodiazepine antagonist	.2-1 mg IV	1-2 min IV	~1 hour
Phenergan	anti-nausea	12.5-50 mg PO/PR/IM/IV	~5 min IV	4-6 hours (up to 12 hours)
Zofran	anti-nausea	4 mg IV	30 min	8 hours
Benadryl	anti-nausea	10-50 mg IV/IM	<60s IV	7 hours
propofol	sedation	loading: 100-150 mcg/kg/min IV sedation: 25-75 mcg/kg min IV	30s IV	3-10 min
ketamine	dissociative	bolus: .2-1 mg/kg IV drip: 5-20mcg/kg/ min	30 s IV	5-10 min
ephedrine	vasopressor	5-25 mg IV	immediate	10-60 min

	Last, First MI:	DOB/AGE:	/
Height: Weight (Kg):	DX:		
Monitoring - document on the JTS austere trauma team resuscitation record  Continuous cardiac monitoring  Vitals signs: Q hrs / Q mins (BP, HR, RR, O2 sat, ETCO2, pain, temperature, GCS)  PaCO2 or EtCO2 monitor for patients with TBI and initial GCS of 3-8 (goal 35-40 mmHg)  Urine output: Q hrs  Ultrasound (EFAST) Q hrs  PMST checks all extremities Q hrs  Skin exam Q hrs  Tube check for placement, function, signs of infection Q hrs  Activity  Able to do activities of daily living (go to bathroom, walk short distances, get food, etc)  Bedrest  Roll Q 2 hrs  Passive ROM to UE and LE Q hrs  Spine precautions: C-collar / C-spine TLS Spine  Maintain patient in soft restraints while on ventilator  Wound care (from Initial management of war wounds CPG #N/A)  NS wet to dry BID to:  Dakin's wet to dry BID to:  Honey/Sugar dressing  VAC dressing to 75 mmHg 125 mmHg  Other:  Tubes/Drains  Place NGT / OGT and confirm placement via  NGT / OGT to LIS  Foley to gravity	Condition: Stable/ Not Stable Sick/ Not Sick	Category: Nation/Service	_/
Monitoring - document on the JTS austere trauma team resuscitation record  Continuous cardiac monitoring  Vitals signs: Q hrs / Q mins (BP, HR, RR, O2 sat, ETCO2, pain, temperature, GCS)  PaCO2 or EtCO2 monitor for patients with TBI and initial GCS of 3-8 (goal 35-40 mmHg)  Urine output: Q hrs  Ultrasound (EFAST) Q hrs  PMST checks all extremities Q hrs  Skin exam Q hrs  Tube check for placement, function, signs of infection Q hrs  Activity  Able to do activities of daily living (go to bathroom, walk short distances, get food, etc)  Bedrest  Roll Q 2 hrs  Passive ROM to UE and LE Q hrs  Spine precautions: C-collar / C-spine TLS Spine  Maintain patient in soft restraints while on ventilator  Wound care (from Initial management of war wounds CPG #N/A)  NS wet to dry BID to:  Dakin's wet to dry BID to:  Honey/Sugar dressing  VAC dressing to 75 mmHg 125 mmHg  Other:  Tubes/Drains  Place NGT / OGT and confirm placement via  NGT / OGT to LIS  Foley to gravity	Height: Weight (Kg):		
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	Monitoring - document on the JTS austere trau	ıma team resuscitation record	
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Wound care (from Initial management of war wounds CPG #N/A)  NS wet to dry BID to: Dakin's wet to dry BID to: Honey/Sugar dressing  VAC dressing to 75 mmHg 125 mmHg Other:  Tubes/Drains Place NGT / OGT and confirm placement via NGT / OGT to LIS Foley to gravity	Spine precautions: C-collar / C-spine _	TLS Spine	
NS wet to dry BID to: Dakin's wet to dry BID to: Honey/Sugar dressing VAC dressing to 75 mmHg 125 mmHg Other:  Tubes/Drains Place NGT / OGT and confirm placement via NGT / OGT to LIS Foley to gravity	Maintain patient in soft restraints while on ve	ntilator	
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VAC dressing to 75 mmHg 125 mmHgOther:  Tubes/Drains Place NGT / OGT and confirm placement via NGT / OGT to LIS Foley to gravity	NS wet to dry BID to:	_	
VAC dressing to 75 mmHg 125 mmHgOther:  Tubes/Drains Place NGT / OGT and confirm placement via NGT / OGT to LIS Foley to gravity	Dakin's wel to dry BID to:	<del>_</del>	
Other: Tubes/Drains Place NGT / OGT and confirm placement via NGT / OGT to LIS Foley to gravity	VAC dressing to 75 mmHg 125 mm	nHa	
Tubes/Drains Place NGT / OGT and confirm placement via NGT / OGT to LIS Foley to gravity			
Place NGT / OGT and confirm placement via NGT / OGT to LIS Foley to gravity		<del></del>	
NGT / OGT to LIS Foley to gravity	Tubes/Drains		
Foley to gravity	Place NGT / OGT and confirm placeme	ent via	
	NGT / OGT to LIS		
Chest tube to: 20 cm H2O suction (circle: P.L.) Water soal: (circle: P.L.)	Foley to gravity		
Chest tube to: 20 cm H2O suction (circle: R L ) Water seal: (circle: R L )	Chest tube to: 20 cm H2O suction (circle	e: R L ) Water seal: (circle: R L	)

Diagnostic Studies
iSTAT:immediately post-op & q hrs
EFAST:immediately post-op & q hrs
Fingerstick glucose Q hrs
Urine dip stick Qhrs
Diet
NPO
PO diet
Nursing (from PFC nursing care CPG #70)
Strict I&O.
Clear dressing to IV, change Q7d and PRN
Passive rewarming until temp > 36° C (97° F)
Environmental control (protect from bright lights and loud noise)
Lacrilube both eyes Q 6 hrs while sedated
Oral care Q 4 hrs; with toothbrush Q 12hrs
Maintain HOB elevated 30-45° / reverse trendelenburg
MACE II exam
Neurologic exam x1
Vision assessment. document in chart x1 (count fingers, move hand, light/dark, no vision)
Hearing assessment. document in chart x1 (for blast injuries)
Tube site care qhrs
Cric site care Qhrs
Elevate extremity above level of heart (circle: RUE, LUE, RLE, LLE)
Apply eye shield to (circle: R L )
Incentive spirometry Q 1 hrs while awake; cough & deep breath Q 1 hrs while awake
Fluids & pressors
Titrate resuscitation fluids to maintain goal systolic pressure ≥ 100 mmHg
For head injury patients- maintain goal systolic pressure ≥ 110 mmHg with normal saline
IVF: NS LR Plasmalyte: @ mL/hr
3% Na for intracranial hypertension. Bolus 250 mL, then 50-100 mL/ hr (goal Na 150-160)
EPI infusionmcg/mL @ mL/hr orgtt/min
Ventilator settings
Mode:SIMVACCPAP/BPAP
Rate: BPM I/E ratio:
Tidal volume:ml (standard 6-8 ml/kg) FiO2:%
PEEP:mm H2O Pressure support: mm H2O
Wean FiO2 to keep SpO2>92% or PaO2 > 70 mmHg

		Intubated Hemodynamically Unstable or severe ARDS	Intubated Hemodynamically Stable, adequate gas exchange	Not Intubated Stable
		Goals: Minimize pain, patient safety RASS -3 to -4, no sedation holiday, consider paralysis	Goals: Minimize pain, patient safety RASS -1 to -2, daily sedation holiday or continuously interactive patient	Goals: Minimize pain, patient safety RASS 0, continuously interactive patient
9	Pain	Option 1: Ketamine drip Option 2: Intermittent Narcotic (*Option 1 for TBI) Option 3: Fentanyl or drip or equivalent if tolerated	Option 1: fentanyl drip or equivalent Option 2: Ketamine Drip Option 3: Intermittent Narcotic (*Option 1 for TBI)	Option 1: Scheduled Enteral or Parenteral Narcotic Option 2: Intermittent as needed enteral or parenteral narcotic
Background	Sedation	Option 1: Ketamine drip Option 2: Intermittent Benzodiazepine Option 3: Propofol drip if tolerated (*Option 1 for TBI)	Option 1: Propofol Drip Option 2: Demedetomidine Drip Option 3: Intermittent Benzodiazepines	NA
	Adjuncts	Consider first: Axial or regional anesthetic b Consider also: - scheduled acetaminophen or paraceta - gabapentin and/or TCA for amputees		
y har	Pain	Option 1: Intermittent/bolus ketamine Option 2: Intermittent/bolus narcotic	Option 1: Intermittent/bolus narcotic Option 2: Intermittent/bolus ketamine	Option 1: PCA Option 2: Intermittent as needed enteral or parenteral narcotic
Breakthrough	Sedation	Option 1: Intermittent/bolus ketamine Option 2: Intermittent/bolus benzodiazepine	Option 1: Intermittent/bolus benzodiazepine Option 2: Intermittent/bolus ketamine	Option 1: As needed enteral or parenteral benzodiazepine
8	Adjuncts	Consider:  - Dim, calm environment, reassurance, r  - Give bolus and/or adjust dose of axial of		
Analgesia and/or Sedation medications (from pain, anxiety & delirium CPG #29)  Richmond Agitation Sedation Scale (RASS), 0 (alert and calm) to -3 (moderate sedation).  Maintain RASS score of Ketamine 0.1-0.3 mg/kg/hr or 1.0 – 2.0 mg/kg/hr Fentanyl start at 50 mcg/hr (max 250 mcg/hr); may give 25-100 mcg Q 15m prn pain Morphine start at 1 mg/hr, titrate up to 10 mg/hr; may give 2-10 mg IVP Q 15m prn pain Hydromorphone start at 0.5 mg every 1-6hrs; may give 0.25-2mg q 1hr Versed start at 1 mg/hr, titrate up to 10 mg/hr; may give 2-5 mg IVP Q 15m prn agitation Propofol start at 10 mcg/kg/min, titrate up to 50 mcg/kg/min (100 kg=start @ 1,000mcg/min)				
	_ Hydromor <sub> </sub> _ Morphine _ Fentanyl 2 _ Percocet 1 _ Tylenol	phone 0.25-2mg IV q 1-6hrs process 1-5 mg IV Q 15 minutes process 25-100 mcg IV Q 15 minutes process 1-2 tablets po Q 4 hrs process 1-2 mg PO / IV / NGT / PR Q	in n pain hrs PRN pain	

Zofran 4 mg IV/PO Q 4 hrs PRN for nausea/vomiting

Prophylactic medications
Calcium after the first unit and after every 4 units of red blood product transfused
Keppra/phenytoin/fosphenytoin x7 days for severe head injury
Tetanus immunization, if no previously documented administration
Protonix 40mg IV Q day
Lovenox 30mg SQ BID orHeparin 5000u SQ TID
NOTE: start within 48 hrs of injury/ 24 hrs for dismounted complex blast injury
Pneumatic sequential compression devices
Prophylactic Antibiotics (from infection prevention in combat-related injuries CPG #24)
Ancef 2mg Q 6-8 hrs for soft tissue, CNS, ENT, chest, abd, M/S (alt. clindamycin)
Invanz 1gm Q 24 hrs alt. For hollow organ perforation
Flagyl 500mg Q8-12 hrs as additional agent in setting of gross CNS contamination
Levoquin 500mg PO/IV for penetrating eye injury (alt: cipro, moxiflox)
Topical erthyro/bacitracin opth QID for eye burn or abrasion
Antiseptic body cleaning daily
(STOP sooner than 72 hours post-op for prophylactic use)
NOTE: no documented benefit from empiric use of systemic anti-fungal coverage
Other orders:
Notify Physician if: (fill in or circle)
SBP < / (normal 90 mmHg)
MAP < / (normal 65 mmHg)
MAP < / (normal 65 mmHg) HR < / (normal 60 BPM) or > / (normal 110 BPM)
HR
HR
HR

# Prolonged Field Care MTF handover sheet

# PRIOROTY I INFORMATION

I am		Rank, Name a PJ/68W/18D/CRF from unit		
I´m l	oringi	ng in a <u>critical / non critical</u> years old <u>male/female</u> patient		
who :	is a _	Coalition(non)military/non coalition security/civilian/opposing force(POW)		
The <sub>I</sub>	oatien	t got injured by hrs. ago		
at _	10	Evacuation time hrs by air / land		
Inju	ries s	ustained: TBI / penetrating/bunt trauma / amputation / arterial bleeding / bleeding		
		Eye injury / burns / fracture / intoxication / laceration / other		
	<c></c>	NONE / critical bleeding leg / groin / arm / axilla / neck/ hemodynamic instability		
MON	Α	NONE / Airway obstruction / opened airway / respiratory acidosis		
ns	В	NONE / low-high respiration rate / thorax injuries / tension pneumothorax / other		
Probems	С	NONE / low-high blood pressure / low-high pulse-rate / bleeding / low $O_2$ -saturation / other		
Pro	D	NONE / A V P U / pupils / pain / spinal injury / fracture / other		
	Е	NONE / low-high body temperature / wet clothes / other		
Othe	r info	ormation:		
Othe	r info	PRIORITY II INFORMATION		
::	r info			
::		PRIORITY II INFORMATION		
given:	<c></c>	PRIORITY II INFORMATION  NONE / Tourniquet + TIME ! / hemostatic agent / wound packing / pressure bandage		
given:	<c></c>	PRIORITY II INFORMATION  NONE / Tourniquet + TIME ! / hemostatic agent / wound packing / pressure bandage  NONE / cric / SGA(LT) / ET / NPA / OPA / positioning		
given:	<c> A B</c>	PRIORITY II INFORMATION  NONE / Tourniquet + TIME ! / hemostatic agent / wound packing / pressure bandage  NONE / cric / SGA(LT) / ET / NPA / OPA / positioning  NONE / chest seal / ND / chest tube / other		
::	<c> A B C</c>	PRIORITY II INFORMATION  NONE / Tourniquet + TIME ! / hemostatic agent / wound packing / pressure bandage  NONE / cric / SGA(LT) / ET / NPA / OPA / positioning  NONE / chest seal / ND / chest tube / other  NONE / i.v. / i.o. / blood / fluids / recovery position / other		
Treatment given:	<c> A B C</c>	PRIORITY II INFORMATION  NONE / Tourniquet + TIME ! / hemostatic agent / wound packing / pressure bandage  NONE / cric / SGA(LT) / ET / NPA / OPA / positioning  NONE / chest seal / ND / chest tube / other  NONE / i.v. / i.o. / blood / fluids / recovery position / other  NONE / splint / spine stabilization / sedation-analgesia / burn dressing / other  NONE / hypothermia prevention / hyperthermia treatment/ changed clothes / other		
Treatment given:	<c> A B C D E</c>	PRIORITY II INFORMATION  NONE / Tourniquet + TIME ! / hemostatic agent / wound packing / pressure bandage  NONE / cric / SGA(LT) / ET / NPA / OPA / positioning  NONE / chest seal / ND / chest tube / other  NONE / i.v. / i.o. / blood / fluids / recovery position / other  NONE / splint / spine stabilization / sedation-analgesia / burn dressing / other  NONE / hypothermia prevention / hyperthermia treatment/ changed clothes / other  Analgesic / Antibiotics / Oxygen l/min		
oib Treatment given:	<c> A B C D E cation</c>	PRIORITY II INFORMATION  NONE / Tourniquet + TIME ! / hemostatic agent / wound packing / pressure bandage  NONE / cric / SGA(LT) / ET / NPA / OPA / positioning  NONE / chest seal / ND / chest tube / other  NONE / i.v. / i.o. / blood / fluids / recovery position / other  NONE / splint / spine stabilization / sedation-analgesia / burn dressing / other  NONE / hypothermia prevention / hyperthermia treatment/ changed clothes / other  : Analgesic / Antibiotics / Oxygen l/min  Crystalloid / colloids (ml total)		

# Prolonged Field Care MTF handover sheet

# PRIOROTY I INFORMATION

I am		Rank, Name a PJ/68W/18D/CRF from unit		
I'm b	ringi	ng in acritical / non critical years oldmale/female patient		
who i	s a _	Coalition(non)military/non coalition security/civilian/opposing force(POW)		
The pa	atien	at got injured by hrs. ago		
at	1	ocation Evacuation time hrs by air / land		
Injur	ies s	rustained:		
		Eye injury / burns / fracture / intoxication / laceration / other		
~	<c></c>	NONE / critical bleeding leg / groin / arm / axilla / neck/ hemodynamic instability		
MON	Α	NONE / Airway obstruction / opened airway / respiratory acidosis		
ns	В	NONE / low-high respiration rate / thorax injuries / tension pneumothorax / other		
Probems	С	NONE / low-high blood pressure / low-high pulse-rate / bleeding / low $O_2$ -saturation / other		
Pro	D	NONE / A V P U / pupils / pain / spinal injury / fracture / other		
	Ε	NONE / low-high body temperature / wet clothes / other		
Other	info	ormation:		
Other	info	PRIORITY II INFORMATION		
::	info			
::		PRIORITY II INFORMATION		
given:	<c></c>	PRIORITY II INFORMATION  NONE / Tourniquet + TIME ! / hemostatic agent / wound packing / pressure bandage		
given:	<c></c>	PRIORITY II INFORMATION  NONE / Tourniquet + TIME ! / hemostatic agent / wound packing / pressure bandage  NONE / cric / SGA(LT) / ET / NPA / OPA / positioning		
given:	<c> A B</c>	PRIORITY II INFORMATION  NONE / Tourniquet + TIME ! / hemostatic agent / wound packing / pressure bandage  NONE / cric / SGA(LT) / ET / NPA / OPA / positioning  NONE / chest seal / ND / chest tube / other		
::	<c> A B C</c>	PRIORITY II INFORMATION  NONE / Tourniquet + TIME ! / hemostatic agent / wound packing / pressure bandage  NONE / cric / SGA(LT) / ET / NPA / OPA / positioning  NONE / chest seal / ND / chest tube / other  NONE / i.v. / i.o. / blood / fluids / recovery position / other		
given:	<c>A B C D</c>	PRIORITY II INFORMATION  NONE / Tourniquet + TIME ! / hemostatic agent / wound packing / pressure bandage  NONE / cric / SGA(LT) / ET / NPA / OPA / positioning  NONE / chest seal / ND / chest tube / other  NONE / i.v. / i.o. / blood / fluids / recovery position / other  NONE / splint / spine stabilization / sedation-analgesia / burn dressing / other  NONE / hypothermia prevention / hyperthermia treatment/ changed clothes / other		
Treatment given:	<c> A B C D E</c>	PRIORITY II INFORMATION  NONE / Tourniquet + TIME ! / hemostatic agent / wound packing / pressure bandage  NONE / cric / SGA(LT) / ET / NPA / OPA / positioning  NONE / chest seal / ND / chest tube / other  NONE / i.v. / i.o. / blood / fluids / recovery position / other  NONE / splint / spine stabilization / sedation-analgesia / burn dressing / other  NONE / hypothermia prevention / hyperthermia treatment/ changed clothes / other		
Soibed Treatment given:	<c>A B C D E ation s: N K D</c>	PRIORITY II INFORMATION  NONE / Tourniquet + TIME ! / hemostatic agent / wound packing / pressure bandage  NONE / cric / SGA(LT) / ET / NPA / OPA / positioning  NONE / chest seal / ND / chest tube / other  NONE / i.v. / i.o. / blood / fluids / recovery position / other  NONE / splint / spine stabilization / sedation-analgesia / burn dressing / other  NONE / hypothermia prevention / hyperthermia treatment/ changed clothes / other  **Crystalloid / colloids (ml total)**		

# Malaria Treatment Protocol (ver 1.4) Produced OCT 2012, updated OCT 2013

Complicated

Consultation Consider treating

other causes of

**Encephalitis/Meningitis** 

Call for Higher

Malaria\*

Patient has clinical signs of Complicated Malaria \*

Begin Treatment

- •Call Higher Level for Consultation
- Prep for Evacuation
- Administer Rapid Diagnostic Test -**Binax**
- •And if trained:
- Take Thick and Thin **Blood Smears**

Treat for

Evacuate to Higher Medical Care

Note: Always treat all fevers in Malarial areas as malaria until proven otherwise. Always treat dehydration and nausea if present.

Note: Always finish TX for malaria with Primaquine, even if the PT was not evacuated and will remain in country.

Patient has clinical signs of Uncomplicated Malaria\*

### \*Treat for Complicated Malaria:

1st Line: IV ARTESUNATE: 2.4 mg/kg initial dose, then 2.4 mg/kg dose 12 hours later, then 2.4 mg/kg dose Q 24 hrs once daily for a total of 4 doses or until pt can tolerate oral artemesinbased combination therapy (ie, Coartem)

2<sup>nd</sup> Line: IV QUININE: 20 mg/kg loading dose over 4 hours, followed by 10 mg/kg every 8 hours given over 2 to 4 hours. Once parasite density <1%, patient can take oral medication. CAUTION: Do not give loading dose if pt has received quinidine or mefloquine within last 24 hrs

**Treat For Uncomplicated** Malaria\*

- Administer Rapid Diagnostic Test -Binax
- •And if trained:
- •Take Thick and Thin **Blood Smears**

\*Treat for **Uncomplicated** Malaria:

1st Line: COARTEM

4 tablets initial dose. Then 4 more tabs after 8 hours and then 4 tablets twice daily for 2 days (total 24 tabs)

2<sup>nd</sup> Line: MALARONE: 4 Tabs orally per day x 3 days

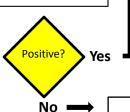
**Use Anti-emetics** liberally to ensure tolerance of PO meds

Treatment (Coartem or Yes Positive? Malarone) Capture blood and send to No NAMRU in Egypt •Continue Tx Continue Blood •Repeat Binax and Blood Smears 8-12 improvement hours later



•Continue Tx •Repeat Binax and Blood Smears 8-12

hours later



drop on filter paper Smears to check for

Continue



Switch to Alternate drug regimen: If using Coartem switch to Malarone



Consider other Diagnoses and Treatments/Call Higher Level Consultation

### \*Complicated Malaria SSX:

Unarousable Coma Seizures Severe Anemia Severe Bleeding Abnormalities Pulmonary Edema/ARDS Renal Failure Hemoglobinuria Hypoglycemia Hypotension/shock

Acid Base Disturbances

\*Uncomplicated Malaria SSX:

Fever of 101 degrees **Shaking Chills Sweats** Headache Muscle Aches Exhaustion Nausea/Vomiting Diarrhea Anemia **Jaundice** 

Consider other Diagnoses and Treatments/Call Higher Level Consultation

# PROLONGED FIELD CARE

# Prolonged Field Care Working Group Position Paper

Operational Context for Prolonged Field Care

Christopher J. Mohr, 18Z; Sean Keenan, MD

We propose a universal approach to operational planning and logistical preparation for prolonged field care (PFC) missions, in the form of four stages. We have been accustomed to view missions in terms of patient treatment stages, such as seen in Tactical Combat Casualty Care (TCCC). This is less useful when planning for PFC because of the more comprehensive list of capabilities needed to consider across a wider spectrum of operational realities. Instead of echelons of patient care, we propose to use a system of mission or evacuation stages to simplify and standardize our language, using the following terminology: RUCK-TRUCK-HOUSE-PLANE (RTHP). We believe that the RUCK-TRUCK-HOUSE-PLANE format is useful, being simple as well as easily transferable and relatable, across all branches of service.

The stages are explained as follows:

RUCK: the gear carried to the furthest point on a mission, generally carried by medical personnel dismounted.

TRUCK: whatever additional equipment will be carried in mission-specific transportation, whether that is trucks, boats, all-terrain vehicle, kayaks, and so forth.

HOUSE: gear available to the medic, but which is only feasible to be maintained at a team house, firebase, or other mission support site. It represents the highest level of care the operational element has organic to it.

PLANE: planning stage included to allow the medical providers to consider how they will move patients on aircraft, whether medical evacuation (MEDEVAC) aircraft (those designated and equipped to move casualties as a primary mission) or casualty evacuation (CASEVAC) (preplanned nonmedical mission support aircraft, opportunity or "slick") aircraft.

These stages are conceptual and not necessarily linear, but should be used as guidelines only. Two examples follow.

Example 1: A unit conducting foot patrols, supported by gun trucks, with a team house at a local national base and with access to a helipad. In this case, while dismounted, the medic carries what makes sense to him (RUCK). He has access to larger equipment and resupply in the mission support vehicles (TRUCK). The team house stores the balance of medical equipment he could not feasibly carry forward, and this represents his highest organic level of care (HOUSE). The team will have planned for use of the helicopter landing zone to potentially transport patients to higher care or fixed-wing evacuation (PLANE).

However, the RTHP formula can just as easily be used for any other mission.

Example 2: A unit operating out of their vehicles on an extended desert mission may not have any higher level of organic care than that which is contained on their trucks. They may not operate out of a fixed facility or team house. The larger trucks, therefore, would represent the highest level of capability the unit has organic to them (HOUSE). However, when they split up into patrols, the smaller vehicles on each patrol will normally be stocked with resupply bags, and perhaps heavier medical equipment, such as oxygen bottles. These patrol vehicles now represent the TRUCK stage. The most specialized capabilities may only be retained by the command and control element, or mission support site, representing HOUSE. The individual medic and the equipment on his person represent RUCK (Figure 1).

The point of Figure 1 is the flexibility of the language to describe operational context of care. It should be noted these stages are always defined according to assets available, mission, and unit. There is no expectation that a "TRUCK" or "HOUSE" is strictly defined across different mission sets.

A useful operational planning diagram would be the development of a matrix with four horizontal rows labeled with the four operational stages, and the vertical

**Figure 1** A Special Forces team may use a large vehicle as their base (or HOUSE) for command and control, as well as logistics re-supply, during long range patrolling operations.



columns labeled with the expected PFC capabilities, tailored to the applicable mission set. This allows for easier visualization and decision-making with respect to capabilities and equipment available throughout stages of the mission, with respect to casualty treatment and transport. A partial example is given in Table 1.

There are several further advantages to considering this model. Most important, after identifying stages in this manner, it is easy to identify which capabilities and which specific equipment a medical provider will have at any point on a mission or during evacuation of a patient. This then helps the medic to visualize gaps and areas that lack important capabilities along the proposed evacuation chain.

Space is a planning constraint on almost all Special Operations Forces (SOF) missions. From the moment a unit loads out from their home station, decisions are made to prioritize the allocation of space in shipping containers, on vehicles, and on the person of the individual combatants. The RTHP framework can be useful by simplifying prioritization here, as well.

Using this verbiage simplifies communication to unit leadership about constraints and limitations, as well as logistical needs. A medic can use the operational context and stages to better visualize the equipment needs, and communicate this to her team. For example, the medic's explanation would include the operational need to support a HOUSE, four trucks, and possibly the capabilities to outfit an aircraft to some degree. While the medic may carry hetastarch, or freeze-dried plasma, on his person, mission considerations may demand more definitive fluid therapy solutions at the TRUCK level, such as fresh whole blood transfusion equipment. At the HOUSE, she will have all the aforementioned options, as well as a sufficient supply of lactated Ringer's solution and normal saline to cope with other serious medical contingencies. Using this simple planning verbiage, the medic can easily convey to unit leadership his equipment requirements and how it should be distributed.

Finally, one of the strategic advantages of having the community use this lexicon is homogenizing our research, development, and procurement of equipment, and improving our overall capabilities over the long term. Since part of the emphasis on PFC is to effectively evaluate equipment to support capabilities, members of the SOF community can better evaluate equipment in our numerous sets, kits, and outfits, and objectively compare common equipment in the standardized operational phases. It will also quickly identify capability gaps and focus future research and development needs in the community.

To summarize, the application of a standardized, operational-context naming convention system such as RTHP in the context of medical operational planning, and specifically in PFC, provides several immediate benefits:

- 1. It provides a framework for planning mission support and personal load out.
- 2. It provides a clear system to communicate limitations of medical patient care and holding capability with leadership.

**Table 1** Example of a PFC Operational Planning Matrix (table is truncated due to space restriction)

Stage	Monitor	Resuscitate	Ventilation/Oxygen	Airway
RUCK	Pulse oximeter, BP cuff, Stethoscope	NS/hetastarch	3VM v ith PEEP	SGA/cric
TRUCK	Monitor	NS/hetastarch/FWB ki:	BVM with PEEP/O <sub>2</sub> (2 bottles)	SGA/cric with ketamine drip
HOUSE	Monitor	LR cases hypertonic salir erw.?	O <sub>2</sub> concentrator	RSI capability
PLANE	Monitor	LR	BVM with PEEP	SGA/cric with ketamine drip

Note: BP, blood pressure; BVM, bag-valve-mask; cric, cricothyrotomy; FWB, fresh whole blood; LR, lactated Ringer's solution; O<sub>2</sub>, oxygen; PEEP, positive end-respiratory pressure; RSI, rapid-sequence intubation; SGA, supraglottic airway.

### PROLONGED FIELD CARE WORKING GROUP POSITION PAPER

### PROLONGED FIELD CARE CAPABILITIES

### **JUNE, 2014**

A newly formed Prolonged Field Care Working Group (PFC WG), comprised of medical-specialty subject matter experts, has been tasked to evaluate the current training and preparedness of Special Operations Force (SOF) medics. The first formal position paper from the working group suggests that medical providers consider the below list of capabilities when preparing their medics to provide PFC in austere settings. It is presented in a "minimum, better, best" format. The intent is to demonstrate those basic skills, with adjunctive skills and equipment that may be employed when considering what to train for Prolonged Field Care (PFC).

At first glance, the list may seem somewhat simple, but it emphasizes basic medical skills, that, when put together, allow for a more comprehensive approach to critical patient care in an austere setting. Of note, equipment is relatively de-emphasized since medical skills and training should be the focus of preparing the Special Operations provider for providing this care.

PFC requires the following capabilities in at least some capacity. If you can provide these 10 capabilities in at least the minimum requirements, you are on your way to being prepared for PFC. Here are the recommendations:

- 1. **Monitor** the patient in order to create a useful vital sign trend
- a. Minimum blood pressure cuff, stethoscope, pulse oximetry, **Foley catheter** (measure urine output) and an understanding of vital signs interpretation. Use a method to accurately **document** vital signs trends.
  - b. Better add **capnometry**
- c. Best  ${\bf vital\ signs\ monitor}$  in order to provide hands-free vitals at regular intervals
- 2. **Resuscitate** the patient beyond crystalloid/colloid infusion
  - a. Minimum field Fresh Whole Blood transfusion kits
- b. Better maintenance crystalloids also prepared for a major burn and/or closed head injury resuscitation (2-3 cases of LR or PlasmaLyte A; hypertonic saline); consider adding Lyophilized Plasma as available; Fluid warmer
- c. Best maintain a stock of PRBCs, FFP, and have type-specific donors identified for immediate FWB draw.

### 3. **Ventilate/oxygenate** the patient

- a. Minimum provide **PEEP via BVM** valve (you cannot ventilate a patient in the PFC setting (prolonged ventilation) without PEEP or they will be at risk for developing ARDS)
  - b. Better provide supplemental **02** via oxygen concentrator
- c. Best portable **Ventilator** (i.e. Eagle Impact ventilator or similar) with supplemental O2

- 4. Gain definitive control of the patient's <u>airway</u> with an inflated cuff in the trachea (and be able to keep the patient comfortable)
  - a. Minimum Medic is prepared for a **Ketamine cricothyrotomy**
  - b. Better add ability to provide **long-duration sedation**
- c. Best add a responsible **RSI capability with subsequent airway maintenance skills,** in addition to providing long term sedation (to include suction and paralysis with adequate sedation)
- 5. Use **sedation/pain control** in order to accomplish the above tasks
  - a. Minimum provide opiate analgesics titrated IV
  - b. Better trained to sedate with ketamine (and adjunctive midazolam)
- c. Best experienced with and maintains currency in long term sedation practice using IV morphine, ketamine, midazolam, Fentanyl, etc.
- 6. Use **physical exam/diagnostic measures** to gain awareness of potential problems
- a. Minimum using **physical exam without advanced diagnostics** maintain awareness of potential unseen injuries (abdominal bleed, head injury, etc)
- b. Better trained to use advanced diagnotics **ultrasound**, **point-of-care lab testing**, **etc**.
  - c. Best experienced in the above
- 7. Provide **nursing**/hygiene/comfort measures
- a. Minimum ensure the patient is clean, warm, dry, padded, catheterized and provides basic wound care
- b. Better elevate head of bed, debride wounds, perform washouts, wet-to-dry dressings, decompress stomach
  - c. Best experienced in all the above
- 8. Perform advanced **surgical interventions** 
  - a. Minimum chest tube, cricothyrotomy
  - b. Better fasciotomy, wound debridement, amputation, etc.
  - c. Best experienced with all the above
- 9. Perform **telemedicine** consult
- a. Minimum make reliable communications; present patient; pass trends of key vital signs
  - b. Better add labs and ultrasound images
  - c. Best video teleconference
- 10. Prepare the patient for **flight** 
  - a. Minimum be familiar with physiologic stressors of flight
  - b. Better trained in critical care transport
  - c. Best experienced in critical care transport

### **Prolonged Casualty Care Principles**

The principles and strategies of providing effective prolonged field care are meant to help organize the overwhelming amount of critical information into a clear clinical picture and proactive plan regardless of the nature of injury or illness. The following steps can be implemented in any austere environment from dispersed small team operations in permissive environments or in large scale combat operations in order to make the care of a critically ill patient more efficient for the Medic and his team. These mimic the systems and processes in typical intensive care units without relying on technology while leaving the ability to add technological adjuncts as they become available. The following checklist is meant to emphasize some of the most important principles in efficient care of the critically ill patient.

Perform initial lifesaving care using TCCC guidelines and continue resuscitation
-The foundation of good PFC is mastery of TCCC and a strong foundation in clinical medicine.
Delineate roles and responsibilities including naming a team leader
-A leader should be appointed who will be responsible to look at the larger clinical picture while assistants focus on attention intensive tasks.
Perform comprehensive physical exam and detailed history with problem list and care plan -After the initial care and stabilization of a trauma or medical patient, a detailed physical exam and history should be performed for the purpose of completing a comprehensive problem list and corresponding care plan.
Record and trend vital signs  Vital signs trending should be done with the earliest set of vital signs taken and continued at regular intervals so that the baseline values can be compared to current reality on a dedicated trending chart.
Perform a telemedical consult -As soon as is feasible, the medic should prepare a telemedical consultation by either filling out a preformatted script or by writing down his concerns along with the latest patient information.
Create a nursing care plan -Nursing care and environmental considerations should be addressed early so as to limit any provider induced iatrogenic injury.
Implement team wake, rest, chow plan -The medic and each of his helpers should make all efforts to take care of each other by insisting on short breaks for rest, food and mental decompression.
Anticipate resupply and electrical issues
Perform periodic mini rounds assessments
-Stepping back from the immediate care of the patient periodically and reengaging with a mini patient round and review of systems can allow the medic to recognize changes in the condition of the patient and reprioritize interventions.

- Is the patient stable or unstable?
- Is the patient sick or not sick?
- Is the patient getting better or getting worse?

Obtain and interpret lab studies -When available, labs may be used to augment these trends and physical exam findings in order to confirm or rule out probable diagnoses.
Perform necessary surgical procedures -The decision to perform invasive and surgical interventions should consider both risks and benefit to the patient's overall outcome and not merely the immediate goal.
Prepare for evacuation care -If the medic is caring for the patient over a long strategic evacuation off continent, they should be prepared with ample drugs, fluids, supplies and be ready for all contingencies in flight
Prepare documentation for patient handover  -The preparation for evacuation care should begin immediately upon assuming care for the patient and should include hasty and detailed evacuation requests up both the medical and operational channels with the goal of getting the patient to the proper role of care as soon as possible.

• How is this assessment different from the last assessment?

## **Improvised Field Medicine List**

<u>Prioriti</u>	ize stockpiling these items as they are difficult to improvise:
	Pulse Oxs
	BP cuffs
	Stethoscopes
	Glucometer and strips
	BVM with PEEP valves
	Sterile needles and syringes
	Medications
	IV catheters
	IV fluids
	IV tubing
	Foley catheter(catheter only) ET Tubes
	Ellubes
	lowing are recommendations and ideas for medical items you should try and recreate if you do not ommercial, items available. This list is not comprehensive and not mandatory but should be your point.
<u>PPE</u>	
	Work gloves
	Medical Gloves
	Eye protection
	Ear protection
Conve	nience items
	Fanny packs
	IFAK pouch
	Dump pouch for trash
	Backpacks
	Trash bags
	Markers
	Paper
	Zip lock bags
	Back up batteries and charging cables for phones
	Batteries for issued devices and any purchased lighting/devices
	Pen Light
Patient	t Movement and Immobilization
	2-pole litter (2 poles and a tarp)
_	Jungle litter (one pole and a hammock)
	Poleless litter
	Sked
	C-Collar Control Contr
	Padded restraints

### Massive Bleeding

	Extremity tourniquets					
	Junctional tourniquets Pressure dressings					
	Wound packing					
	Wound packing					
Airway	,					
· · · · · · · · · · · · · · · · · · ·	Cric kit					
	<ul> <li>Scalpel</li> </ul>					
	o Bougie					
	<ul> <li>Securing device</li> </ul>					
	Suction device					
	Suction tubing					
Respir	ations					
	Chest Seals					
	Needle Decompression					
	Chest tube and one-way chest tube heimlich valve					
<u>Circula</u>	ation_					
	Water					
	<ul> <li>Container</li> </ul>					
	o filter					
_	o iodine/chlorine tabs					
	ORS mix					
Hypoth	nermia					
<u>Hypotl</u>						
	Air activated chemical heaters					
	Air activated chemical heaters Clothing					
0	Air activated chemical heaters Clothing Padding					
0	Air activated chemical heaters Clothing					
0	Air activated chemical heaters Clothing Padding Blankets/Sleeping bag Waterproof layers					
0	Air activated chemical heaters Clothing Padding Blankets/Sleeping bag Waterproof layers					
Head I	Air activated chemical heaters Clothing Padding Blankets/Sleeping bag Waterproof layers					
Head I	Air activated chemical heaters Clothing Padding Blankets/Sleeping bag Waterproof layers					
Head I	Air activated chemical heaters Clothing Padding Blankets/Sleeping bag Waterproof layers  njury  Patch					
Head I	Air activated chemical heaters Clothing Padding Blankets/Sleeping bag Waterproof layers  njury  Patch Irrigation					
Head I	Air activated chemical heaters Clothing Padding Blankets/Sleeping bag Waterproof layers  njury  Patch					
Head I	Air activated chemical heaters Clothing Padding Blankets/Sleeping bag Waterproof layers  njury  Patch Irrigation Eye drops					
Head I	Air activated chemical heaters Clothing Padding Blankets/Sleeping bag Waterproof layers  njury  Patch Irrigation Eye drops Ointment  ontrol/Meds					
Head I	Air activated chemical heaters Clothing Padding Blankets/Sleeping bag Waterproof layers  njury  Patch Irrigation Eye drops Ointment  ontrol/Meds Meds					
Head I	Air activated chemical heaters Clothing Padding Blankets/Sleeping bag Waterproof layers  njury  Patch Irrigation Eye drops Ointment  ontrol/Meds  Meds  Tylenol (No Aspirin)					
Head I	Air activated chemical heaters Clothing Padding Blankets/Sleeping bag Waterproof layers  njury  Patch Irrigation Eye drops Ointment  ontrol/Meds					
Head I	Air activated chemical heaters Clothing Padding Blankets/Sleeping bag Waterproof layers  njury  Patch Irrigation Eye drops Ointment  ontrol/Meds  Meds  Tylenol (No Aspirin)					
Head I	Air activated chemical heaters Clothing Padding Blankets/Sleeping bag Waterproof layers  njury  Patch Irrigation Eye drops Ointment  ontrol/Meds Meds  Tylenol (No Aspirin) Benadryl Dramamine					
Head I	Air activated chemical heaters Clothing Padding Blankets/Sleeping bag Waterproof layers  njury  Patch Irrigation Eye drops Ointment  ontrol/Meds Meds  Tylenol (No Aspirin) Benadryl Dramamine  Other					
Head I	Air activated chemical heaters Clothing Padding Blankets/Sleeping bag Waterproof layers  njury  Patch Irrigation Eye drops Ointment  ontrol/Meds					

	Bleach Iodine Oral rinse
Wound	Irrigation (filter?)
0	Steri strips (Any small strip of plastic) Adhesive glue for steri strips (Super glue) Suture material (fishing line) Suture needles (Sewing needles)
Splints	_
	Pelvic binder (Sheet) Long bone splint (Any long, rigid item) Sling and Swath (Bandana or large square cloth)
Burns	Dry sterile gauze
Resus	<u>citation</u>
	Foley tubing and connector
	Foley urine capture device and connectors  Foley urine output measuring device
	Poley unite output measuring device
	esia and sedation Cheat sheet from analgesia and sedation CPG
Ventila	ate and oxygenate
	e communications
	Telemed script
	Comms notification sheet
Nursin	Ω
	PFC Charts
	Nursing checklist
	Compact sleep mat(inflatable?)
_	Pillows(inflatable?)
	Blood absorbant pads (Puppy training pads)
	Tooth brush and paste/rinse Baby wipes
	Hydrogen peroxide
_	Incentive spirometry or peak flow (Birthday balloons)
	Adult diapers
	Nutrition
	Medical tape

	Condom catheter
Enviro	nmental
	Large Mosquito net tentTent/Rain Shelter/Mosquito netting/
	Headlamps
	Hanging work lights/lanterns
	Sunscreen
	Chapstick
	Battery powered fan/Heater
	Lighter/matches
<u>Surgic</u>	<u>al</u>
	Gigli saw
	Needle drivers
	Forceps
	Scissors
	Tweezers
	2 twin sheet/pillow case sets
	Foil
	Masking tape
	Unscented bleach
	lodine
	Medium trash bags
	Small pump sprayer

# 10 Essential PFC Capabilities

	1. Monitoring	2. Resuscitate	3. Ventilate and oxygenate	4. Control the Airway	5. Sedation and Analgesia	6. Physical Exam and Diagnostics	7. Nursing and Hygeine	8. Surgical Interventions	9. Telemedical Consult	10. Package and Prepare for flight
Minimum	BP Cuff, Stethescope, Pulse Ox, Foley	Fresh Whole Blood Kit	Bag-Valve-Mask with PEEP Valve	Awake Ketamine Cric	Opiate Analgesics titrated through IV	Physical Exam without advanced	clean, warm, dry, padded, catheterized	Chest tube, cric	Make comms, present patient and key vitals	Be familiar with stressors of flight
Better	Capnometry	2-3 cases of LR for Burn Resus	O2 Concentrator	Long duration sedation	Sedation with Ketamine/option of midazolam	Ultrasound and point of care labs	Elevate head of real beddebride, washout NG/OG	Fasciotomy debridement, amputation	Add labs and ultrasound video	Trained in critical care transport
Best	Vital Signs Monitor	PRBS, FFP, Type specific donors	Portable Ventilator	Proficient in Rapid Sequence Intubation	Educated and practiced imulti drug sedation	Experienced and trained in above	Experienced in all nursing care concerns	Trained and experienced in above	Real time video conference	Experienced in critical care transport
Ruck										

Truck House

Plane

Prolonged Field Care - Evaluation Rubric							
	Remarks						
Proper Equipment Loadout for Treatment Venue: Ruck, Truck, House, Plane, etc. (According to 10 C.C. Sheet)	Missing 0 Critical Items	Missing 1-2 Critical Items	Missing 3+ Critical Items				
TCCC MARCH Point of Injury Care	Adheres to all CoTCCC guidelines mitigating all risks to life, limb and eysight	Completes basic MARCH interventions required to save lives	Fails to complete MARCH assessment or interventions leaving patient at risk of death				
Resuscitation	Initiates appropriate resuscitation within 35 mins of injury	Initiates resuscitation wihtin an hour of injury.	Fails to initiate resuscitation in a timely mannor that would benefit the patient outcome				
Considered Hypothermia at all Times	Green: Patient Always Covered	Yellow: Patient Left Uncovered	Red: Role-Player is Actually Cold				
Reduction of Tourniquet	Attempts proper tourniquet conversion within an hour of placement. If full conversion is not possible, reduces distally to save tissue	Attempts tourniquet conversion within 2 hours of placement,	Does not attempt to reduce tourniquet within 2 hours. No attmept to save tissue is made.				
Airway Control	Airway is Patent, Secured and Protected Always	Students React Well to Airway Compromise	Airway is Compromised with late or Inadequate Intervention				
√entilate and Oxygenate	Optimizes ventilation paramiters including: RR, Vt, FIO2, PEEP and maintains safety and comfort	Provides ventilation, but is unable to tailor parameters to patient's needs	Provides poor or no ventilation management				
nitiate Telemedical Consult	Clear, Consise, Early Script Prepared/ Has a plan, but needs advise	Not Clear or Consise/ Poorly Prepared Script/ No plan for care of patient and needs to be provided one	Poor Communication Which Affected the Ability of the Doc to Deliver Medical Advice				
Nursing and Hygene	Nursing Check Sheet Used / Implemented appropriately. Environmental considerations accounted for.	Nursing Check Sheet Used or Well-Developed Student Plan Used / Implemented	Incomplete Plan, Check Sheet not Used / Implimented				
<u>Documentation</u>	Documents all problems, interventions and assessments required to establish trends	Documents major interventions, assessments, drugs and vital signs	Fails to document any assessments, interventions, drugs or vitals				
Monitoring	Appropriate Vitals Taken at Appropriate Times, Vitals Trended and Interpreted	Inconsistent Vitals Taken, at Inconsistent Times, Vitals Interpreted Late	Full Vitals NOT Taken, and Taken Inconsistently, Patient Deterioration Unrecognized				
Physical Exam and Diagnostics	Complete, Serial Physical Exam at Appropriate Incriments	Incomplete Physical Exam: Did not inspect a non-vital, but involved Body System. Not performing serial exams.	spect a non-vital, but involved Body Wound or Critical Body System. N				
Problem List and Care Plan	Includes both Critical and Secondary managements and assessments	Includes only Critical managements and assessments	Fails to record a problem list or care plan or is missing critical management needs				
Maintains analgesia and/or sedation	Early, Consistent assessments and managements	Treated after vitals or patients indicate pain	Late or absent pain management				
Medication administration	Appropriate, by-Weight, Drug Calculation / Administration/ 6 Rights	Generic, not by-Weight Drug Calculation / Administration / 6 Rights	Wrong or Inadequet Drug Calculation / Administration / 6 Rights violation				
Surgical Interventions	Implemented Appropriately Planned out	Implimented Late Not Planned, but Implimented	Not Planned or Implimented				
Patient Reassessed After: Movement, Intervention, Time	Missed <2 times	Missed 2-5 times	Missed >5 times				
Package and Prepare for Flight	Kept Pt. Ready for Evacuation/ Flight Time and Supply Considered	Pt. Not Always Ready for Evac. /Supply Relative to Flight Time Not Considered	Pt. Consistently Not Ready for Evac. Inadequate Supply Alloted for Evac.				
Hand-Over	Accurate SIT-VD or MIST including vital information	Accurate Information, unorganized	Inaccurate, or Incomplete Handover				
Feam Dynamics: Sleep/rest cycle, meal plan, Task Organized	Well Organized. Team leader takes charge. Team Rested / Ate	Not Organized. No team leader apparent. Team Rested / Ate	Unorganized chasing the tail. Nobody Rested or Ate				
Did not cause undue harm to patient	Green	Yellow	Red				