Wilderness Expedition Medical Provider Field Notes

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This document is a compilation of personal notes intended to be used by the author as a field reference when performing Wilderness Expedition Medicine in remote areas. This is one example of how field notes can be organized on a single sheet.

It is challenging fitting all the information you might need into a single, double-sided sheet. Because of space and formatting constraints, notes were significantly abbreviated to allow them to fit. Because of the abbreviated nature of these notes, they may not make perfect sense to anyone other than the author of this document. There are obvious hazards when using information that is abbreviated and subject to misinterpretation.

Although intended for personal use, others are welcome to review, provide feedback or use this document.

Disclaimer:

Please note that information presented in this document was never intended for use by non-medical providers.

All content in this document was created and published for information purposes only. It was never intended to be used as a substitute for professional medical advice and should NOT be relied on as health or personal advice.

Always seek the guidance of qualified health and medical professionals regarding health and medical related questions you may have. Do NOT delay seeking treatment or disregard advice from a medical professional based on information in this document.

To optimally use, print pages 3 and 4 on regular sized 8.5x11" printer paper.

Print at 100% if you want to be able to read the font and use the measuring scales.

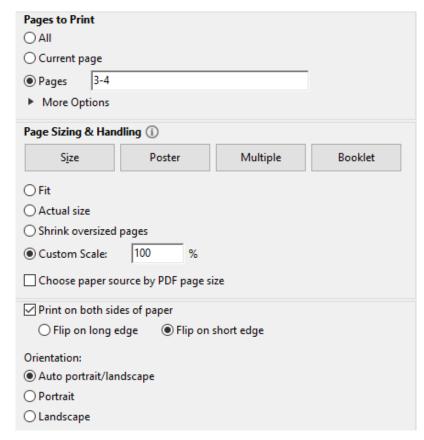
It can be printed smaller or larger if you desire a different sized set of notes.

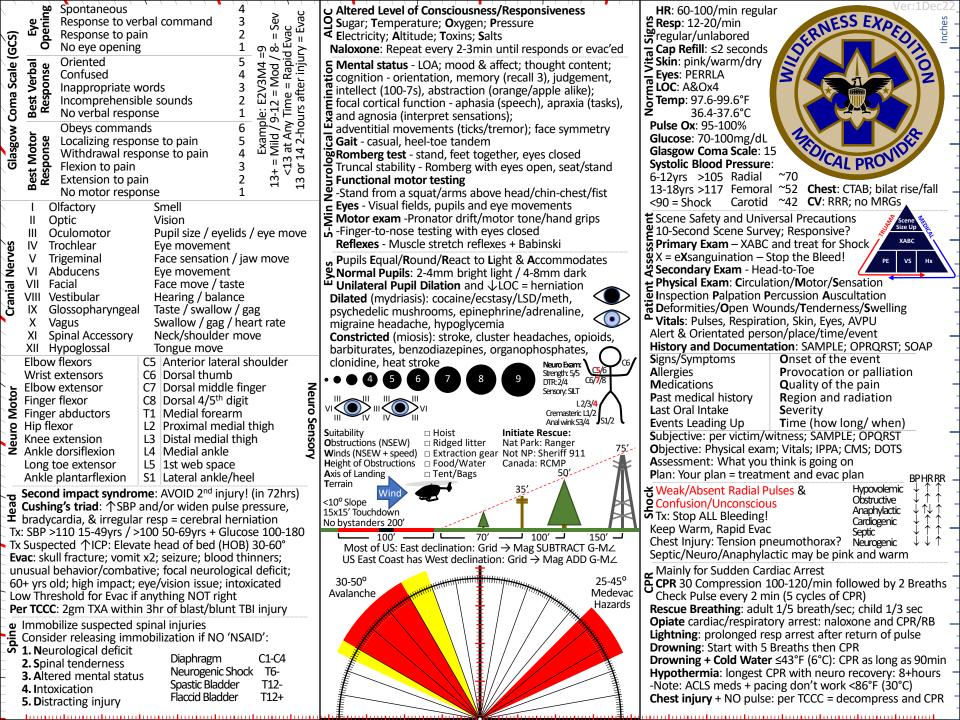
For single sheet use, print double sided with flip on short edge.

Use vertical markings on front page to help you fold it into a trifold pamphlet.

If the trifold is too big for your kit, fold it in half.

Waterproofing or printing on waterproof paper is optional.





_σ Major Extremity Bleed: Tourniquet (2" wide) Frostbite: Skin Freezes 28°F (-2°C) E - if Tourniquet fails, add 2nd Tourniquet above the 1st -rewarm 98.6-102.2°F soak: dry gauze: Evac - Evac or convert tourniquets <2 hrs if possible 2g TXA IV/IO for shock or significant bleed in <3hrs B Hypothermia: 95°F (35°C); Mild/Mod/Severe Mild: 'umbles' - mumble/grumble/stumble/fumble Junctional Bleeds: Pack the Wound; pressure 3min Tx: dry/warm victim; food/drink Impaled Object: Stabilize object & Evac **Moderate**: Severe Confusion Tx: External heat source **Small Wounds**: dress; hold pressure 3-5min -Close only clean wounds! **Severe**: Unconscious -thorough irrigation; povidone soak; rinse 1 liter Tx: HypoWrap; be gentle; Evac -Rothman Protocol: 30ml povidone + 1L +soak 3min Very Wet Clothing: -Don't Close: dirty; puncture; bite; infected Shelter <30min - Wrap NOW Rapid Evac: severe bleed; eye; joint; shock >30min - remove wet clothing + wrap 8 Watch for signs Tension Pneumothorax: **Heat Exhaustion**: Tired; dizzy; may pass out a - Difficulty Breathing; Increased respirations; Shock Tx: rest; shade; fluids; elevate legs; cool Cardiac Tamponade: need for pericardiocentesis? Evac if no improvement with 2 hours of rest -Beck's Triad: Low BP: JVD: muffled heart sounds Heat Stroke: Life Threatening! 104°F (40°C) hot; confused or unconscious; drunken walk Significant torso trauma -Per TCCC: NO Pulse/Respirations = CPR after Tx: Rapid Cooling First! Rapid Evac next bilat needle decompression 5 ICS/MAL or 2 ICS/MCL Hyponatremia: potentially Life Threatening! Rapid Evac: shortness of breath; fail chest or Headache; History drinking too much; frequent urination Tx: stop drinking water and observe tension/open/severe/shock seizures/confused/drunken walk = Rapid Evac **S** Most: Rest/Ice/Compression/Elevation **Dislocations**: Reduce & Splint vs Splint only Φ After 9,000' "Climb High - Sleep Low" Sleep max +1,600′/day; +3,300′ = extra day rest

Acute Mountain Sickness: Headache and fatigue -Reduce digits/kneecaps/shoulders -Don't force reduction Check CMS ▼ Tx: STOP Accent!; DON'T Sleep Higher; -If it doesn't reduce easily - STOP before/after -otherwise splint and evac dislocations reductions Descend if no improvement; hyperbaric bag helpful **Open Fracture**: Clean and protect Prevention: Acetazolamide - 125mg q 12h -Rinse 1-3 liters cleanest water available Tx AMS: Acetazolamide - 250mg/q 12h -Cover with moist, sterile gauze HACE: Confused; Drunken Walk Tx: Descend 3,300' (1000m) ASAP!!!; Rapid Evac Angulated Fracture or Loss CMS: Straighten -to straighten: pull gently and slowly Dexamethasone 8mg x1 then 4mg q 6h -Stop if resistance or pain
All Fractures: Splint and Evac HAPE: Nonproductive cough; Shortness of Breath Tx: Descend 3,300' (1000m); O2; rest + warmth helps CPR then rescue breathing 30min+ if needed ABCs after pulse; Rapid Evac Bolt from Blue has 10-mile range Flash to Bang: 5 sec = 1 mile Go' blast Cool for 10 minutes and dress 1 Victim Hand = 1% >10% Body Surface Area = Evac >15% BSA = Air evac? **Ground Current** >20% BSA = Hypo wrap + fluid resuscitation 60' blast radius 3rd deg or face/hands/feet = Evac NOTE: snake strike distance = snake length -can strike + envenomate several hours after Death!

Pit Viper envenomation: Cytotoxic and Haemotoxic Wear clean clothing and bag contaminated clothing oatmeal bath/topicals OK; Antihistamine doesn't help Moderate -NO blister/face/genitals = topical steroid -Generally severe pain at bit site; can be delayed 8h -TXA ineffective in treating Viper coagulopathy Severe reaction - ≥10% BSA = oral steroid -a few have neurotoxic venom e.g. Mojave rattlesnakes -Prednisone 1 mg/kg/day (max 60mg) taper 2-3wks Coral Snake: Neurotoxic; Red touch Ylw; Ø Red touch Blk -Example: 40mg qdx5d; 20mg x5d; 10mg x5d **Sudden collapse** = anaphylaxis + severe envenomation Hot water immersion/shower or hot packs for pain Australia/Indo-Pacific/Hawaii = different treatment! Mild reaction (NO systemic symptoms): Snake Bite Tx: Move away from snake! -do NOT try catch/kill snake! -calm patient -take picture OK if safe (not important) Pit Viper -remove tentacles; seawater rinse; 20min HOT water -Do NOT delay Evac with first aid! Head Mod/sev pain; frosted ladder; CPR; systemic symptoms: -during evac: mark edge of redness Shape -vinegar 30secs; pick off tentacles; cold/ice pack; Evac -remove jewelry & constrictive clothing

pain chest/jaw/back/arm/shoulder Ladies: nauseous, lightheaded, tired Ladies: nauseous, lightheaded, tired Tx: calm person, aspirin and Rapid Evac! PAST: Face/Arms/Speech/Time numbness/weakness face, arm or leg; dizziness; confusion; trouble speaking/seeing/walking balance issues; severe headache for no known cause TPA can be given up to 4.5 hours after stroke onset Tx: Rapid Evac! Hypo of 55-69mg/dL = 15gm sugar + recheck 15min <55mg/dL = 1mg Glucagon; repeat 15min if needed Not sure if Hypo/Hyper – give glucose and reassess ☐ Hypo or Hyperglycemic event = Evac 15gms = 3 glucose tabs; **Unconscious**: Rapid Evac and: ½ cup juice; -Glucose gel/paste between gum/cheek 6 candies: -Massage area and reassess 15-20min 1tbsp sugar Swelling; wheezing; dizzy; unconscious Give Epi; repeat 5-10min if needed Epi 0.3mg Adult; 0.15mg Youth(33-66lbs) Used autoinjector has unused medication inside Figure Give antihistamine (helps itching/hives only) Rapid Evac – even if seems OK Follow Asthma Action Plan! Evac if fails to improve or severe event Look for No action plan = Rescue inhaler and Evac Tripoding If inhaler not available Coffee may help 1-10-1 Principle Reach/Throw/Row/Tow/DON'T GO! 1 min catch breath ABCs: 5 breaths + CPR and AED 10 min self rescue ⊼ Rapid Evac – even if seems OK 1 hr unconscious ☐ Jumping causes Abd pain on landing = Appendicitis Note: Black Widow bite may look like Appendicitis Evac: pain with movement/walking; rigid abdomen; blood in stool or vomit; dehydrated; suspect pregnant; **⋜** shock; ill >24 hrs; pain >12 hrs; >102°F Sanitation 5 Fs: Fingers/Flies/Feces/Food/Fluids Cooking hand heat test: Hi 2-4sec/Med 5-7/Low 8-10 Reheat USDA inspected plant cooked ham 140°F Beef/goat/pork/fish/raw ham (pork/ham rest 3min) 145°F Rabbit/venison/eggs/ground pork/pork sausage 160°F Poultry/ground beef/reheat ham/casseroles/leftovers 165°F Rule of 3s: 3 whistle blasts; 3 fires; 3 etc. 3min air/blood; 3hrs shelter; 3d water; 3wk food **STOP:** STOP/Time/Observe/Plan প Plan: First Aid/Shelter/Fire/Signal/Water/Food Most rescues occur in 72hrs - food is NOT a priority Tx Water: boil or 5 drops bleach/betadine per liter/quart -bleach + betadine do NOT neutralize giardia or crypto 155.160MHz: SAR Ch9: CB Ch20: FRS/GMRS Distress 121.5MHz: Int Aero Distress 156.8MHz: Int Maritime Dis Ch16: VHF Marine Distress 243.0MHz: NATO Distress SOS: ●●● - - - ●●●

Anyone: shortness of breath;

REST! & Evac

NO Walking!