Heat Stress Card

Fluid Replacement Guidelines for Warm Weather Training Conditions

Acclimated after approx. two weeks training wearing BDU, hot weather

High Risk for Heat Illness:

(The more factors, the higher the risk)

- · Not acclimatized to heat (need 10-14 days to get trainees adequately acclimated)
- Poor fitness
- · Exceeds Body Fat Standard
- Cumulative inadequate hydration (day to day)
- · Minor illness (cold symptoms, sore throat, low grade fever)
- Taking drugs/supplements/dietary aids Ex: Allergy or cold remedies Ephedra supplement
- · Use of alcohol in the last 24 hours
- · Prior history of heat illness (any heat stroke, or >2 episodes of heat exhaustion)
- · Skin disorders such as heat rash and sun burn which prevent effective sweating
- Age > 40 years

Do:

Maintain the buddy system to look out for each other.

Observe soldiers drinking water in required amounts not to exceed 1¹/₂ quarts per hour or 12 quarts per day.

Ensure adherence to work rest cycle in heat categories. Ensure soldiers are well hydrated before starting hard work.

Ensure soldiers have adequate time to eat and drink.

Encourage soldiers to eat all meals for needed salts.

Easy Work	Moderate Work	Hard Work			
 Weapon Maintenance Walking Hard Surface at 2.5 mph, < 30 lb Load Marksmanship Training Drill and Ceremony 	 Walking Loose Sand at 2.5 mph, No Load Walking Hard Surface at 3.5 mph, < 40 lb Load Calisthenics Patrolling Individual Movement Techniques, i.e. Low Crawl, High Crawl, etc. 	 Walking Hard Surface at 3.5 mph, ≥ 40 lb Load Walking Loose Sand at 2.5 mph with Load Field Assaults 			
 The work-rest times and fluid replacement volumes will sustain performance and hydration for at least 4 hours of work in the specified heat category. Fluid needs can vary based on CAUTION: Hourly fluid intake should not exceed 1½ quarts. Daily fluid intake should not exceed 12 quarts 					

- individual differences (± 1/4 gt/h) and exposure to full sun or full shade (± ¼ qt/h).
- NL = no limit to work time per hour.
- Rest means minimal physical activity (sitting or standing), accomplished in shade if possible.
- If wearing body armor add 5°F to WBGT in humid climates.
- If wearing NBC clothing (MOPP 4) add 10°F to WBGT.

		Easy	Work Modera		te Work	Hard Work	
Heat Category	WBGT Index, F°	Work/ Rest	Water Intake (Qt/H)	Work/ Rest	Water Intake (Qt/H)	Work/ Rest	Water Intake (Qt/H)
1	78° - 81.9°	NL	1/2	NL	3⁄4	40/20 min	3⁄4
2 (green)	82° - 84.9°	NL	1/2	50/10 min	3⁄4	30/30 min	1
3 (YELLOW)	85° - 87.9°	NL	3⁄4	40/20 min	3⁄4	30/30 min	1
4 (RED)	88° - 89.9°	NL	3⁄4	30/30 min	3⁄4	20/40 min	1
5 (black)	> 90°	50/10 min	1	20/40 min	1	10/50 min	1

Warning Signs and Symptoms of Heat Stress and Illness

With any of the below symptoms or signs, immediately call for medical evaluation by a 91W (Medic). If 91W is not immediately available, call for Medevac or ambulance.



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MORE COMMON SIGNS / SYMPTOMS	IMMEDIATE ACTIONS			
• Dizziness	Remove from training			
Headache	Allow casualty to rest in shade			
Dry mouth	Take sips of water			
• Nausea	 While doing the above, call for Medic evaluation of the soldier (Medic will monitor temperature and check for 			
Unsteady walk				
• Weakness	mental confusion)			
Muscle cramps	If no medic is available call for			
	ambulance or Medevac			
SERIOUS SIGNS/ SYMPTOMS	Immediately call Medevac or ambulance			
Hot body, high temperature	 for emergent transport while doing the following: Lay person down in shade with feet elevated until Medevac or ambulance arrives 			
Confusion (Do Mental Status				
Assessment)				
Vomiting				
 Involuntary bowel movement 	Undress as much as possible			
Convulsions	Pour cool water over person and fan			
Weak or rapid pulse	Give sips of water while awaiting			
 Unresponsiveness, coma 	ambulance (if conscious)			
	Monitor airway and breathing until ambulance or Medevac arrive			

INDICATIONS OF POSSIBLE HEAT ILLNESS

A sign that the soldier is in a serious life-threatening condition is the presence of mental confusion (with or without increased temperature). Anyone can do a mental status assessment asking some simple auestions:

MENTAL STATUS ASSESSMENT

Call for emergency Medevac or ambulance if any of the following exist:

What is your name? (Does not know their name.)

What month is it? What year is it? (Does not know the month or year.)

Where are we/you? (Does not know the place where they are at.)

What were you doing before you became ill? (Does not know the events that led to the present situation.)