

Strenuous Physical Activity Fact Sheet

Hiking, lifting, and other field work activities can be stressful on your body. The hazard of these activities can depend on the scope of activities, climate, and your own physical condition. Exhaustion can increase the potential for falls and other accidents. Potential injuries include:

	Musculoskeletal injury	
	Hyponatremia (low electrolyte levels)	
	Heat exhaustion/stroke	
	Hypothermia	
PERSONAL PROTECTIVE EQUIPMENT		
	Weather appropriate clothing	
	Appropriate Footwear	
PREPARATION AND TRAINING		
	Consider consulting your primary care physician as to your physical fitness capabilities with the	
	expected level of exertion. Physical stresses like illness, injury, and adjusting to new altitude can affect	
	your stamina and ability to perform certain activities safely.	
	Make sure you carry an ample supply of food to eat and water to drink.	
	When planning treks in areas without an established trail, try to minimize elevation change and adjust	
	your routes to avoid undue stress. Use saddles, if present, when traveling between two topographic	
	highs.	
	Train for levels of expected exertion prior to the trip. If you are carrying a pack, carry it with full weight	
	during the training so you know how it affects your balance.	
	Plan trips to minimize long days of strenuous activities.	
	It is recommended you take courses in:	
	Basic First Aid	
	Wilderness First Aid (depending on remoteness of location)	
GENERAL SAFETY		
	Do not push yourself beyond your abilities.	
	If lifting or carrying heavy equipment is necessary, use two or more people.	
	If you feel unable to continue, stop and rest until you are able to continue. Schedule regular breaks	
	for food, water, and rest. Duration and frequency of breaks will depend on level of exertion and field conditions.	
	Perspiration and urination can deplete your body of electrolytes. Drink water to replace the lost	
	fluids and periodically eat a salty snack to replace the salt you have lost. In dry climates, you may	
	not notice perspiration.	

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Pay attention to "hotspots", areas where clothing may rub against skin. This friction can cause
blistering. As soon as you notice discomfort, apply a barrier (e.g., moleskin) to prevent further
abrasion.
Watch for members of your team who appear to be struggling.
In high heat areas, schedule strenuous activities for morning or evening when heat is less intense.
In cold areas, schedule or stagger work to avoid perspiration. Wet clothes can hasten the onset of
hypothermia.

REFERENCES AND ADDITIONAL RESOURCES

Mayo Clinic <u>Hyponatremia</u>

National Outdoor Leadership School <u>Fitness Guidelines to Get Expedition-Ready</u>

National Safety Council Overexertion and Bodily Reaction