How to stay warm while cross country skiing

- 1. Importance of a warm core
 - a. If core cools, heat is pulled away from extremities and risks of cold weather injuries goes up.
- 2. Manage your moisture from sweat, precipitation, snow dropping from trees and snow plastered on you from falling.
 - a. Layering is key to managing moisture.
 - i. NO COTTON
 - ii. Base layers bottom and top—transfer sweat away from skin and provide insulation. Synthetic or wool.
 - iii. Mid—Provide insulation, warm when wet, transfer moisture. Synthetic, wool, down. For example fleece pullover, vest, wool sweater, light synthetic jacket such as Nano puff. Softshell or cross country ski pants.
 - iv. Insulating—puffy jacket or thicker fleece for longer stops or emergency.
 - v. Outer shell, top and bottom
 - 1. Waterproof, <u>breathable</u>. Pit zips in a jacket or side zips on pants can help with ventilation/sweat management.
 - 2. Water repellant, such as soft shell, is ok if no snow or rain expected or if it is snowing and temps are well below freezing.
 - 3. Non-breathable raingear will not work and cause you to get very wet from sweat.
 - b. Start out cooler than you think!
 - c. Don't delay removing layers as you heat up from exertion. Ask leaders for a stop to remove layers. Avoid getting sweaty.
 - d. Extra gloves or mittens hands sweat too, and get wet when snowing or raining, so add liners or change them mid-day.
- 3. Manage heat loss from wind, cold air, snow
 - a. Head—hats and hoods
 - b. Neck—zip neck base layer, neck gaiter/buff (no scarf-can get tangled)
 - c. Hands—extra gloves/mittens, hand warmers. Waterproof/windproof outer shell.
 - d. Feet—insulated boots that are not too tight (too many socks=cold feet). Toe warmers can help. May need to change socks midday.
 - e. Shell to block wind. Torso and, if needed, legs.
 - f. Keep rest breaks short and efficient.
- 4. Stay hydrated
 - a. Water with electrolytes (raises freeze temp of the water). 1 2 liters, depending on how long you are skiing. Inside your pack to keep from freezing.
 - b. Thermos of hot drink (no alcohol) is nice.
 - c. Bladder is ok if hose insulated or you keep hose inside jacket—blow into hose to clear water after drinking to prevent freezing
- 5. Eat often
 - a. Every half hour at least

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- b. Body burns more calories in the cold
- c. Eating creates body heat
- d. Pre-prepped, bite size and easy to eat with gloves on and won't freeze. In waist belt pouch or pockets.
- e. High calorie and fat such as nuts and seeds, chocolate covered nuts, chocolate covered pretzels, sesame sticks.