Quick Summary	
Saftey First	•Benefits / Before Starting a Routine , Averages – Body Temperature; Respiration, Blood Pressure, Heart Rate; How to Monitor Intensity of Heart Rate ; Temperature – Heat and Cold; Dehydration; Altitude
Anatomy	•Anatomical Positions and Planes; Anatomical Directions; Muscles and Joint Action; Skeletal Positions and Average Joint Range of Motion
Components of a Conditioning Program	•Warm up/cool down; Duration, Frequency, Intensity & Movement Patterns ; Breathing –Diaphragmatic, Pursed lip and with Exercise; Equipment that may be needed
Self Tests	Prior to starting program
Exercises	•Myofascial release, Flexibility/Stretches / ROM , Core / Abdominal, Strengthening - Upper and Lower Extremity, Balance > Lower Extremity Standing Exercises, Agility, Endurance/Aerobic Capacity; <i>Calories</i>
Nutrition	•Calories ( <i>Male and Female</i> ); Nutrients; Protein ( <i>ChooseMyPlate.gov and Protein Supplements</i> ); Amino Acids ( <i>Essential and Non-Essential List</i> ); Fats / Lipids ; Water / Fluid; Carbohydrates, Vitamins/Minerals
Carbohydrates	•Glycogen, Glucose; Glycogen Effects on Performance; Glycemic Index; Sugars; Glycogen Loading; Glycogen Recovery; Carbohydrate Exercise Guideline; Carbohydrate, Electrolyte & Water Intake Guideline
Vitamins & Minerals	<ul> <li>Vitamin List &amp; Information</li> <li>Vitamin &amp; Mineral Absorption</li> </ul>
What's on the Nutrition Fact Sheet	• ChooseMyPlate.gov
References	•Home Exercise and Nutrition

### PHYSICAL AND PSYCHOLOGICAL BENEFITS OF KEEPING PHYSICALLY FIT

- Contributes positively to maintaining a healthy weight, building and maintaining healthy bone density, muscle strength, joint mobility, reducing surgical risks, and strengthening the immune system.
- Helps to prevent or treat serious and life-threatening chronic conditions such as high blood pressure, obesity, heart disease, Type 2 diabetes, insomnia, and depression.
- Endurance exercise before meals lowers blood glucose more than the same exercise after meals.
- It also improves mental health, helps prevent depression, helps to promote or maintain positive self-esteem, and can even augment an individual's sex appeal or body image.

(Physical Exercise - Wikipedia)

# Before starting a routine here are some factors to consider

AGE	Men over 45 and women over 55 should have medical evaluation before starting a vigorous exercise program. If you will be participating in low to moderate exercise, it is suggested that those with, or have signs and symptoms of cardiopulmonary disease, set up a medical evaluation.
MEDICAL AND PHYSICAL CONDITION	It is very important for you to be aware of any medical or physical problems that may impede your performance. If you have any of the following issues, please see a medical doctor and/or physical therapist to address issues before starting an exercise program: Cardiac issues Pulmonary issues Arthritis Joint pain Back pain Diabetes Acute or Chronic issues, such as, but not limited to, Parkinson's, Stroke, Autoimmune Diseases, Metabolic Disease or Orthopedic disorders/joint replacements.

## VITAL SIGN AVERAGES

	Adult (resting)
Body Temperature	98.6 Fahrenheit under tongue.
Respiration	12-20 breaths per minute
Blood Pressure Systolic/Diastolic	120/80. Systolic is when the heart pumps blood to the body / Diastolic is blood that remains in arteries when the heart relaxes. <i>Pre-hypertension</i> : 120-139/80-89. <i>Hypertension</i> : Stage I 140-159/90-99 Stage II over 160/100
Resting pulse	<ul><li>Men: 70 beats per minute.</li><li>Women: 75 beats per minute.</li></ul>

# HOW to MONITOR EXERCISE INTENSITY

	Ways to monitor heart	rate (HR):
Talk Test Method	This is a simple, subjective method for the exercising. Are you able to breathe and ta gasping for air? If not, reduce your activity pace.	beginner to determine your comfort zone while alk comfortably throughout the workout without / level, catch your breath, and resume at a slower
Heart Rate monitor or Watch	This is a device you wear on your wrist or in real time. These devices range in price higher with other bells and whistles. Some Watch, Garmin and Samsung Galaxy amo	chest, which allows you to measure your heart rate at about \$50.00 for just a basic HR monitor or of the popular manufacturers are Fitbit, Apple ong others. (See <i>Target Heart Rate</i> )
Rate of Perceived Exertion	This method was designed by Dr. Gunnar (revised). It rates what you feel your level rest and ten at maximal exertion. A rate o somewhat hard and very hard. Like the tal used with HR monitoring.	Borg and is often called the Borg Scale of exertion is from a scale of 1-10, one being at f 5-7 is recommended, somewhere between k test method, this is subjective and should be
Training Heart Rate	Measuring Heart Rate: Place your first an apply pressure. Palpate the number of be sec x 10. If you have in irregular heartbea not use the thumb, as this has its own puls	d second finger over the pulse site and gently ats for a full minute or 30 sec x 2, 15 sec x 4 or 6 t, it is suggested counting the full 60 seconds. Do se.
	Take your pulse after you've been exercis your pulse without interrupting your worko then multiply that number by 10 to get you your pulse is within your target heart rate a decrease your intensity based on your hea	ing for at least five minutes. An easy way to check ut too much is to take a quick 6-second count and r heart rate in beats per minute (BPM). Make sure cone ( <i>see below</i> ). You can then increase or art rate. You can also wear a heart rate monitor.
	Radial: Wrist following line from base of	Carotid: Side of larynx.
	thumb.	
Target heart rate	Intermediate or average fitness level: 6	60-70%
range (THR)	Advanced or high fitness level: 75-85%	
Percent of maximal heart rate	220 - Age = predicted maximum heart rate multiply the predicted maximal HR by the years old of Intermediate fitness level wou rate: 220 - 40 (age) =180 predicted maximal HI 180 x 0.70 (THR) = 126 BPM - desired exe	e (HR). To get the desired exercise intensity, percentage. For example, a woman who is 40 Id use the following equation at a 70% target heart R. ercise HR.
Karvonen Formula	Percentage of Heart-rate reserve. This for make the target heart rate higher than just this out, take the predicted maximal heart Maximal HR – resting heart rate (RHR) = I Target HR. See example under Percentag 220 – 40 (age) =180 (as above) – 80 (RHI	rmula factors in the resting HR as well, which will the percentage of maximal heart rate. To figure rate as above with a resting HR prior to exercise. heart rate reserve; multiply by intensity + RHR + ge of maximal HR. Rest heart rate = 80. R) = 100 x 0.70 (THR) = 70 + 80 = 150 Target HR.

## **TEMPERATURE – HEAT and COLD**

## HEAT

Avoid exercise in the hottest part of the day, as well as in humid weather. People need to sweat to regulate internal body temperature and must evaporate to dissipate heat. During hot, humid weather, sweat cannot evaporate, and therefore cannot cool the body down. It is also important to drink plenty of cool water during exercise, about 7-10 oz. every 10-20 minutes during exercise (see *Dehydration*).

Heat cramps:	<ul> <li>Severe cramps that begin in hands, feet or calves</li> <li>Hard, tense muscles</li> </ul>
<b>Heat exhaustion:</b> Requires immediate medical attention, although not usually life threatening	<ul> <li>Fatigue</li> <li>Nausea</li> <li>Headache</li> <li>Excessive thirst</li> <li>Muscle aches and cramps</li> <li>Confusion or anxiety</li> <li>Weakness</li> <li>Severe sweats that can be accompanied by cold, clammy skin</li> <li>Slow heartbeat (decreased pulse rate)</li> <li>Dizziness or fainting</li> <li>Agitation</li> </ul>
Heat Stroke: Can occur suddenly, with or without warning from heat exhaustion. Obtain immediate medical attention, as this can be <i>fatal</i>	<ul> <li>Nausea and vomiting</li> <li>Headache</li> <li>Increased body temperature, but DECREASED sweating.</li> <li>Hot, flushed, DRY skin</li> <li>Dizziness</li> <li>Fatigue</li> <li>Rapid heart rate</li> <li>Shortness of breath</li> <li>Decreased urination or may have blood in the urine.</li> <li>Confusion or loss of consciousness</li> <li>Convulsions</li> </ul>

	COLD
It is just as important to drink plen increased urine production. Be s simply involves taking off or puttin conditions. Choose clothing that y brand. Clothing that stays wet be	ty of water when exercising in the cold weather secondary to sure to dress in layers to help self regulate body temperature. This g back on clothing as dictated by the changing weather will keep moisture out and away from the skin, such as Gortex® cause of sweat will decrease your body temperature.
Hypothermia-Mild: A body temperature that is below normal. People with hypothermia are usually not aware of their condition due to confusion or being overly focused on their current activity. Hypothermia may or may not include shivering in the early stages	<ul> <li>Confusion</li> <li>Lack of coordination</li> <li>Fatigue</li> <li>Nausea or vomiting</li> <li>Dizziness</li> </ul>
Hypothermia	<ul> <li>Shivering</li> <li>Slurred speech</li> <li>Mumbling</li> <li>Clumsiness</li> <li>Difficulty speaking</li> <li>Stumbling</li> <li>Poor decision making</li> <li>Drowsiness</li> <li>Weak pulse</li> <li>Shallow breathing</li> <li>Progressive loss of consciousness</li> </ul>

## DEHYDRATION

Excessive loss of body fluid (which can include water and solutes, usually sodium or electrolytes). It is also important to drink plenty of cool water during exercise, about 7-10 oz. every 10-20 minutes during exercise. During exercise, sports drinks may be necessary to keep an electrolyte balance as well.

<b>Dehydration-Mild:</b> About 2% of water depletion	<ul> <li>Thirst</li> <li>Decreased urine volume</li> <li>Abnormally dark urine</li> <li>Unexplained tiredness</li> <li>Irritability</li> <li>Lack of tears when crying</li> <li>Headache</li> <li>Dry mouth</li> <li>Dizziness when standing due to orthostatic hypotension</li> <li>May cause insomnia.</li> </ul>
<b>Moderate:</b> About 5% -6%of water depletion	<ul> <li>Grogginess or sleepiness</li> <li>Headache</li> <li>Nausea</li> <li>May feel tingling in limbs (parenthesis)</li> </ul>
<b>Severe:</b> About 10% -15% of water depletion	<ul> <li>Muscles may become spastic</li> <li>Skin may shrivel and wrinkle (decreased skin turgor)</li> <li>Vision may dim</li> <li>Urination will be greatly reduced and may become painful</li> <li>Delirium may begin.</li> </ul>
Over 15% of water depletion	Usually fatal.

# ALTITUDE

Oxygen decreases as you increase the altitude. The heart rate also increases as much as 50% above normal ranges. It is important that the athlete take time to acclimate to higher altitudes, about two weeks for up to 8000 feet, and about 4-5 weeks for over 12,000 feet.

#### Signs and symptoms:

- Insomnia
- Irritability
- Weakness
  - Dizziness.

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