

Progressing at Your Pace

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Run Healthy & Strong

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Biomechanics

- Running Cadence- number of footfalls per minute
 - Ideal cadence around 180 footfalls per minute
 - Work on gradually increasing cadence by turning feet over faster- does NOT mean running faster
- Key form pointers:
 - Run with slight forward lean
 - Land on mid-foot
 - Land with feet under knees/center of gravity
- Breathing
- Stride-Outs
 - Perform at the end of a moderate run
 - Speed up to 95% of max for 20 seconds
 - Focus on maintaining good form

Running Shoes and Gear

- Shoes:
 - Get fit at a specialty running store (RNJ Sports)
 - Trained staff will watch you run and select proper shoe for biomechanics (Stability, Cushion)
 - Replace shoes every ~300 miles
 - Natural/"Barefoot"/Minimalist Running Shoes- transition very gradually!
- Other helpful running gear
 - Technical fabrics
 - Watch/GPS
 - Summer gear
 - Hydration system

Training Progression

- Beginners: Start with run/walk intervals
- Do not add more than 10% time/distance per week
- During base-building phase, runs should be at conversational pace
- "Long run" should be no more than 30-40% of weekly mileage
- Spread runs out over the course of the week
- Adhere to hard/easy cycle, with days of easy running or rest following days of harder effort
- Incorporate Strength and Cross-Training
- Recovery days as important as workouts- SLEEP

Strength and Stretching

- Most running injuries result from weakness or strength imbalance in hips and/or core
- Incorporate strength training 2-3 times per week, 15-20 minutes per session:
 - Lunges
 - Squats
 - Planks
 - Single Leg exercises
- Do strength training on non-running days or after running, not before
- Stretch when muscles are warm
- Use foam roller to get deeper stretch
- Mobility

Nutrition and Hydration

- Good nutrition is key to performance and recovery
- Focus on whole foods to fuel workouts
- Hydrate before, during and after exercise! Urine should be "clear and copious"
- Pre-Run-
 - 1-2 hours before exercise if possible
- During run-
 - Use nutrition on runs longer than 1.5-2 hours (100-200 calories/hour)
- Post-Run-
 - Complex carbohydrates restock glycogen stores and lean protein helps rebuild muscle
 - Protein to rebuild muscle and aid in recovery
- Limit use of alcohol and energy drinks

Running Injuries- Overview

- At least 70% of all running injuries are due to training errors-PREVENTIBLE!
 - The Terrible Toos: Too much, too soon, too fast
 - Know the signs of injury and what to do

• Expected Soreness vs. Pain:

- Expected Soreness:
 - Lasts less than 48 hours
 - No redness or swelling
 - Symptoms generalized
 - No change in your walking or running pattern
- Pain:
 - Lasts more than 48 hours
 - Redness, swelling
 - Limping; running form has changed
 - More localized
- Palm/Pointer Test

Common Running Injuries

Injury	Symptoms	Suggested Treatment
Shin splints	 Usually occurs at the beginning of a training program Pain along inner or front of lower leg Tender to touch Possible swelling 	 Avoid running on hard surfaces Check your shoes to make sure they are not worn down Stretch your lower leg muscles ICE! Recommend ice bath for 10 minutes
Plantarfasciitis	 Pain on bottom of foot/heel Pain usually worse in the morning Pain may subside the more you walk, but eventually returns Barefoot walking painful 	 Self- massage area (fingers, golf ball) Check footwear- do you have enough support during the day AND during running? Taping techniques and/or temp. arch supports Ice: ice bath, roll foot over frozen water bottle Strengthen leg muscles from hip to foot
Patello-femoral syndrome (Runner's knee)	 Pain around or underneath knee cap Possible reports of knee 'popping' Pain after prolonged sitting Pain going up and down steps 	 Stretch hip flexors Strengthen hip muscles – mainly gluteal muscles (side and back of hip) Ice Taping techniques
Iliotibial Band (ITB) Tendonitis	 Sharp pain outside of hip or knee Mild swelling Pain with steps, sometimes riding bike Pain after prolonged sitting Very tender to touch 	 Strengthen hip muscles 'Stretch'/massage ITB gently Ice

Something to think about: if you continue to stretch and massage a muscle, but it remains tight, then stretching and massage are not the answer. What is the answer?

Injury Treatment

- Use ice first 48-72 hours- ice vs heat- which is best?
- Perform hip and core exercises: running specific; single leg ex.; 3-4x/week
- Check your shoes: change every 300 miles or sooner; are they the right type for your feet?
- Modify your training schedule: if you hurt walking, you will hurt running
 - Cross-train painfree for same amount of planned run time
 - Skip long runs, speed workouts, hills x 1 week
 - Rest: Better to take off 2-3 days now instead of 2-3 months later
- Stretch but don't overdo it
 - Stop at 'first barrier'
 - Must be painfree
 - Don't bounce
 - Perform when warm
 - Hold for at least 30 seconds gently
 - Consider making the first ½ mile of your run your warm-up: run 45-60 seconds slower than planned pace of run
- If pain persists for more than a week, it is time to seek out a healthcare professional's advice- Physician, Physical Therapist, Podiatrist