

Knee and Hip Dysfunction - Day 1

Trunk Stability and Endurance—Plank



Planks work the entire trunk and hip musculature. The purpose is hold each position for 3-5 seconds and the "roll" to the next position. Your trunk should be a

Lower Quarter

SQUAT

The squat is fundamental to performance. The squat should be started with a "hip hinge" - in other words, the butt goes backwards and down first. Bending forward at the hip occurs yet the spine maintains its neutral shape. Weight should be felt to go through the heels. Perform 10-15 repetitions





Straight Leg Bridge

This exercise is similar to the glut

bridge but the leg on the ground is placed farther away from the buttocks. Start with two legs on the ground and progress to raising one leg. Hold each position for 5 seconds. Small bounces may be added to chal-



Hip Abduction or Clam Shell.

Important for working hip abudctors and lateral rotators of thigh

Upper Quarter—Push Ups



ONE LEG BALANCE Hold this for 10-20 seconds. To modify drop hip and then lift hip back up (Hip Airplane)



Have a partner athlete hold your ankles while you slowly lower your chest to the ground while trying to keep your back and hips straight. At some point put your hands out to avoid breaking your nose. Repeat 10-15 times and rest a min. of two minutes between sets.

Advanced Hamstrings: Nordic Style



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Knee & Hip Dysfunction - Day 2

SIDE LYING LEG RAISE Raise leg approximately 12 inches. Hold for 10 seconds and repeat until fatigued





One Leg Squat and Opposite Leg Raise

This can be done three ways:

- 1. Raise the outstretched leg upwards and repeat
- 2. Squat down with the leg that is on the ground
- 3. Combine the 1 and 2 (Good luck)

Attempt to keep your knee over your 2nd toe. Can also be per-

SQUAT & Grip

The squat is performed the same as previously with one slight change. While squatting down attempt to grip and "spread" the floor. As if you are pushing the ground out to the sides of your feet. Nothing should move but the attempt will increase hip abductor activity. Perform 10-15 repetitions BONUS: HAVE YOUR PARTNER PUSH INWARDS ON BOTH KNEES WHILE YOU SQUAT (ALONE DO THIS WITH A BAND



Knee Drive

Many of the same injuries associated with poor hip stability can be helped with improving hip flexor strength. This exercise improves leg recovery during running and helps with the hip drive.

Start this exercise standing and drive your knee to just past parallel. Allow your arm to drive backward as well.

Modifications: 1. can be started in a "front scale position" 2. cables can be attached above the knee.

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the body

HIP Press against wall With your knee bent and against the wall push that knee further against the wall. Hold for 5-10 seconds and repeat. Can be done with different angles of hip flexion

Hip Hike and Drop

This exercise increases control of the pelvis. While standing on a box let your foot drop lower by controlling the side to side tilt of your pelvis. Pull your foot back up by

pulling up with your muscles.





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