

## Quadriceps Contusion (Thigh Bruise) and Strain Rehabilitation Exercises

You may do all of these exercises right away.

- **Quadriceps stretch:** Stand an arm's length away from the wall with your injured leg farthest from the wall. Facing straight ahead, brace yourself by keeping one hand against the wall. With your other hand, grasp the ankle of your injured leg and pull your heel toward your buttocks. Don't arch or twist your back. Keep your knees together. Hold this stretch for 15 to 30 seconds.
- **Quad sets:** Sitting on the floor with your injured leg straight and your other leg bent, press the back of the knee of your injured leg against the floor by tightening the muscles on the top of your thigh. Hold this position 10 seconds. Relax. Do 3 sets of 10.
- **Straight leg raise:** Lie on your back with your legs straight out in front of you. Bend the knee on your uninjured side and place the foot flat on the floor. Tighten the thigh muscle of the other leg and lift it about 8 inches off the floor, keeping the thigh muscle tight throughout. Slowly lower your leg back down to the floor. Do 3 sets of 10.
- **Heel slide:** Sit on a firm surface with your legs straight in front of you. Slowly slide the heel of your injured leg toward your buttock by pulling your knee to your chest as you slide. Return to the starting position. Do 3 sets of 10.
- **Prone knee bend:** Lie on your stomach with your legs straight out behind you. Bend your knee so that your heel comes toward your buttocks. Hold 5 seconds. Relax and return your foot to the floor. Do 3 sets of 10. As this becomes easier you can add weights to your ankle.

When you have no pain with walking or climbing stairs you can begin the next 2 exercises.

- **Wall squat:** Stand with your back, shoulders, and head against a wall and look straight ahead. Keep your shoulders relaxed and your feet 1 foot away from the wall and a shoulder's width apart. Keeping your head against the wall, slide down the wall, lowering your buttocks toward the floor until your thighs are almost parallel to the floor. Hold this position for 10 seconds. Make sure to tighten the thigh muscles as you



slowly slide back up to the starting position. Do 3 sets of 10. Increasing the amount of time you are in the lowered position helps strengthen your quadriceps muscles.

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- **Step-up:** Stand with the foot of your injured leg on a support (like a small step or block of wood) 3 to 5 inches high. Keep your other foot flat on the floor. Shift your weight onto your injured leg on the support straighten your knee as the other leg comes off the floor. Lower your leg back to the floor slowly. Do 3 sets of 10.

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Quadriceps stretch



Quad sets



Straight leg raise



Heel slide



Prone knee bend



Wall squat



Step-up