

Dr Louis Shidiak

MBBS FRACS FACOrthA
B.Appl.Sc. (Physiotherapy)

Hip & Knee Surgeon
Joint Replacement
Hip Arthroscopy Surgery
Hip Preservation

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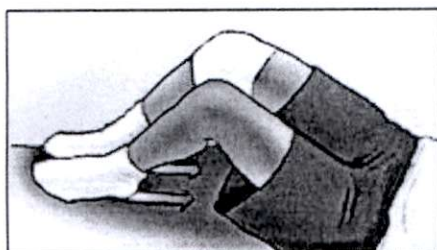
Knee Strengthening Exercise Guide

Regular exercise to restore your knee mobility and strength is necessary. For the most part this can be carried out at home. Dr Shidiak may recommend that you exercise approximately 20 to 30 minutes two or three times a day. You also may be advised to engage in a walking program.

The following guide can help you better understand your exercise or activity program that may be supervised by a physiotherapist at the direction of Dr Shidiak. As you increase the intensity of your exercise program, you may experience temporary set-backs. If your knee swells or hurts after a particular exercise activity, you should lessen or stop the activity until you feel better. You should Rest, Ice, Compress (with an elastic bandage), and Elevate your knee (R.I.C.E.). Contact Dr Shidiak if the symptoms persist.

Initial Exercise Program

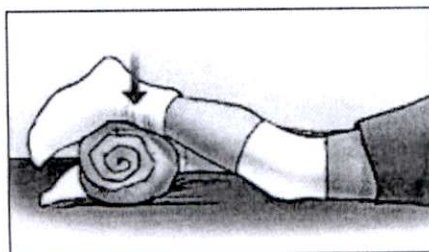
Hamstring Contraction, 10 Repetitions



No movement should occur in this exercise. Lie or sit with your knees bent to about 10 degrees. Pull your heel into the floor, tightening the muscles on the back of your thigh. Hold 5 seconds, then relax.

Repeat 10 times.

Quadriceps Contraction, 10 Repetitions



Lie on stomach with a towel roll under your weak knee. Push ankle down into the towel roll. Your leg should straighten as much as possible. Hold for 5 seconds. relax.

Repeat 10 times

Straight Leg Raises, 10 Repetitions

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Shoulder & Elbow

Dr Peter Gray
Hip & Knee

Dr Ali Gürsel
Hip & Knee

Dr Roderick Kuo
Foot, Ankle & Trauma

Dr Adrian Low
Shoulder & Knee

Dr Jun Nagamori
Sports Knee

Dr Nicholas Smith
Hand & Upper Limb

Dr James Sullivan
Hip & Knee

Dr Sunny Randhawa
Hip, Knee & Trauma

Dr Louis Shidiak
Hip & Knee

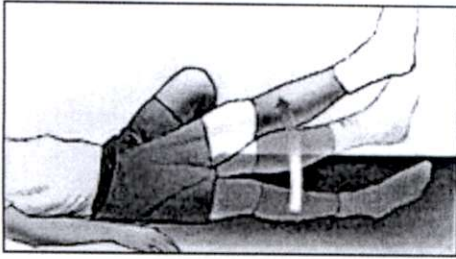
Dr Mohammed Bab
Shoulder, Elbow & Ha

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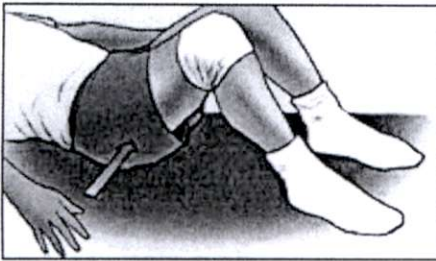
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Lie on your back, with uninvolved knee bent, straighten your involved knee. Slowly lift about 14cms (6 inches) and hold for 5 seconds. Continue lifting in 6-inch increments, hold each time. Reverse the procedure, and return to the starting position. Repeat 10 times.

Advanced Before starting, add weights to your ankle, starting with 500gms of weight and building up to a maximum of 2kgs of weight over 4 weeks.

Buttock Tucks, 10 Repetitions



While lying down on your back, tighten your buttock muscles. Hold tightly for 5 seconds.

Repeat 10 times.

Straight Leg Raises, Standing, 10 Repetitions



Support yourself, if necessary, and slowly lift your leg forward keeping your knee straight. Return to the starting position.

Repeat 10 times

Advanced: Before starting, add weights to your ankle, starting with 500 grams of weight and building up to a maximum of 2kgs of weight over 4 weeks.

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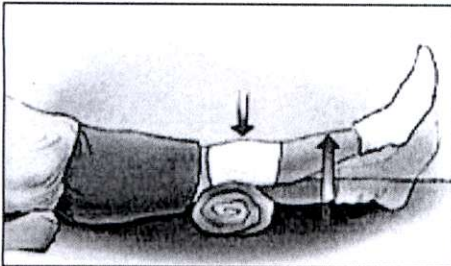
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Intermediate Exercise Program

Terminal Knee Extension, Supine, 10 Repetitions

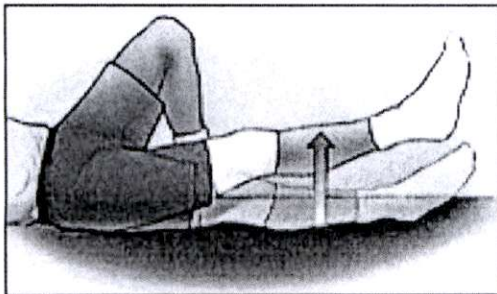


Lie on your back with a towel roll under your knee. Straighten your knee (still supported by the roll) slowly lift about 14cms (6 inches) and hold 5 seconds. Slowly return to the starting position.

Repeat 10 times.

Advanced Before starting, add weights to your ankle, starting with 500 grams of weight and building up to a maximum of 2kgs of weight over 4 weeks.

Straight Leg Raises, 5 Sets, 10 Repetitions



Lie on your back, with your uninvolved knee bent. Straighten your other knee with a quadriceps muscle contraction. Now, slowly raise your leg until your foot is about 30 cms (12 inches) from the floor. Slowly lower it to the floor and relax.

Perform 5 sets of 10 repetitions.

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Partial Squat, with Chair, 10 Repetitions



Hold onto a sturdy chair or counter with your feet 15 – 30cms (6-12 inches) from the chair or counter. Do not bend all the way down.

DO NOT go any lower than 90 degrees. Keep back straight. Hold for 5-10 seconds. Slowly come back up. Relax.

Repeat 10 times.

Quadricep Stretch - Standing, 10 Repetitions



Standing with the involved knee bent, gently pull heel toward buttocks, feeling a stretch in the front of the leg. Hold for 5 seconds.

Repeat 10 times.

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