

Rehabilitation after Knee Surgery

Phase Two: 2nd to 6th Week

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Goals

1. Walk normally
2. Regain full motion
3. Regain full muscle strength

Activities

1. Try to bear full weight and walk on the leg. Try to avoid limping and walk slowly but normally. Avoid walking for long distances until four to six weeks after surgery.
2. Continue to ice the knee three or four times a day to reduce pain and swelling. Place a towel or cloth between the skin and the ice to prevent skin injury.
3. Leave the small strips of tape (steri-strips) in place. They will gradually loosen and fall off as you move the knee and shower. Wrap an elastic bandage (ace) around the knee or use an elastic or neoprene sleeve to control swelling. Use elastic stockings if your ankle or lower leg swells.

Exercise Program

The following exercise program will help you regain knee motion and strength. If the exercises can be performed easily after the first week, then an ankle weight may be used to increase the resistance of the exercise and to build strength. Start with one pound and add one pound per week until you reach five pounds.

Do the exercises daily for the first week, then decrease to every other day when using ankle weights. You may ride the stationary bicycle daily for 10 to 20 minutes. Avoid using stair-stepper machines, doing deep knee bends and squats or any exercise that causes crunching, clicking or pain at the kneecap.

At six weeks after surgery, you may gradually resume your previous activities if you have full range-of motion, full strength and no swelling.

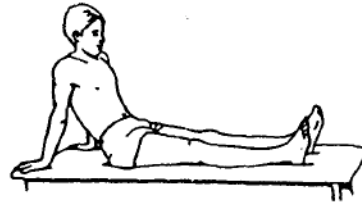
STATIONARY BICYCLE

Utilize a stationary bicycle to move the knee joint and increase knee flexion. If you cannot pedal all the way around, then keep the foot of your operated leg on the pedal, and pedal back and forth until your knee will bend far enough to allow a full cycle. Most people are able to achieve a full cycle revolution backwards first, followed by forward. You may ride the cycle with no resistance for 10 to 20 minutes a day. Set the seat height so that when you are sitting on the bicycle seat., your knee is fully extended with the heel resting on the pedal in the fully bottom position. You should then ride the bicycle with your forefoot resting on the pedal.



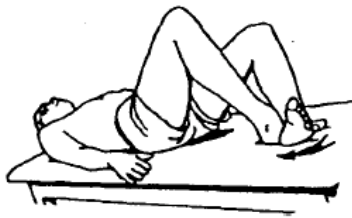
QUADRICEPS SETTING - to maintain muscle tone in the thigh (quadriceps) muscles and straighten the knee.

Lie on your back with the knee extended fully straight as in the figure. Contract and hold the front thigh muscles (quadriceps) making the knee flat and straight. If done correctly, the kneecap will slide slightly upward toward the thigh muscles. The tightening action of the quadriceps muscles should make your knee straighten and be pushed flat against the bed or floor. Hold five seconds for each contraction. Do at least 20 repetitions three or four times a day until you can fully straighten your knee equal to the unoperated side.



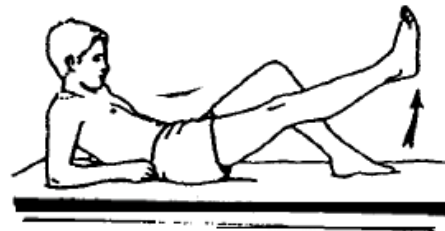
HEEL SLIDES - to regain the bend (flexion) of the knee.

While lying on your back (figure), actively slide your heel backward to bend the knee. Keep bending the knee until you feel a stretch in the front of the knee. Hold this bent position for five seconds and then slowly relieve the stretch and straighten the knee. While the knee is straight, you may repeat the quadriceps setting exercise. Continue this exercise until you can fully bend your knee equal to the unoperated side. Repeat 20 times three times a day.



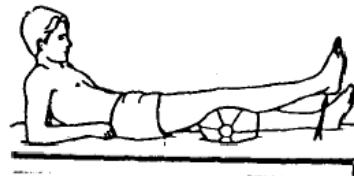
STRAIGHT LEG LIFT

Tighten the quadriceps muscles so that the knee is flat, straight and fully extended. Try to raise the entire operated limb up off of the floor or bed. If you are able to keep the knee straight raise the limb to about 45 degrees, pause one second and then lower slowly to the bed. Relax and repeat. If the knee bends when you attempt to lift the limb off of the bed, do not do this exercise. Keep trying to do the quadriceps setting exercise until you can lift the limb without letting the knee bend. Repeat 20 times.



SHORT ARC LIFT

With the knee bent over a rolled up towel or blanket, lift the foot so that the knee fully straightens. Hold the knee locked in extension for five seconds, then slowly lower. Repeat 20 times.



STANDING HAMSTRING CURL

Stand facing a table, using the table for balance and support. While standing on the unoperated limb bend the knee of the operated side and raise the heel toward the buttock. This flexed position for one second. Slowly lower the foot back to the floor. Keep the thighs aligned as illustrated. Repeat 20 times.

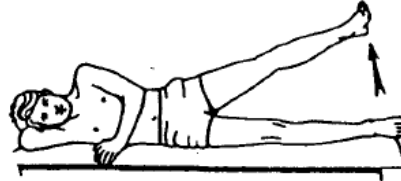


STANDING TOE RAISE

Stand facing a table, hands on the table for support and balance. Keep the knees extended fully. Tighten the quadriceps to hold the knee fully straight. Raise up on 'tip-toes' while maintaining the knees in full extension. Hold for one second, then lower slowly to the starting position. Repeat 20 times.

HIP ABDUCTION

Lie on your unoperated side. Keep the knees fully extended. Raise the operated limb upward to a 45 degree angle as illustrated. Hold one second, then lower slowly. Repeat 20 times.



OFFICE VISIT

No further office visits are necessary unless you are experiencing problems. If you have questions, call Dr. Berkson.