Dr. Bercik Quadriceps Repair Protocol

General Considerations

Weight-bearing status:

o 0 - 2 weeks: NWB

2+ weeks: WBAT; Hinged knee brace locked in extension for 8 weeks

ROM Limitations:

0-2 weeks: Locked in full extension

2-4 weeks: 0-30 degrees4-6 weeks: 0-60 degrees6-8 weeks: 0-90 degrees

o 8+ weeks: Full

NO open-chain leg extensions for 8 weeks

0 – 2 weeks: Wound rest

Knee immobilizer at all times

• Ice and modalities to reduce pain and inflammation

2 – 4 weeks: Protect Repair & Maintain ROM

- Begin formal PT
 - Prone active flexion and passive extension ROM to 30 degrees
 - Begin straight leg raises
- Submaximal quadriceps setting
- Weight bearing as tolerated once comfortable doing straight leg raises
- Continue inflammation control

4 - 6 weeks: Regain ROM

Prone active flexion and passive extension - ROM to 60 degrees

6 - 8 weeks: Progressive ROM

- Prone active flexion and passive extension ROM to 90 degrees
- Begin multi-plane straight leg raises and closed kinetic chain strengthening program focusing on quality VMO function
- Normalize gait pattern
- Begin stationary bike
- Initiate pool program

8 - 10 weeks:

- Wean out of brace
- Initiate open kinetic chain progressing to closed kinetic chain multi-plane hip strengthening
- Normalize gait pattern
- Restore full ROM
- Progress open and closed kinetic chain program from bilateral to unilateral
- Increased intensity on stationary bike
- Begin treadmill walking program forwards and backwards
- Begin elliptical

10 – 12 weeks:

- Expect full ROM
- Terminal quadriceps stretching
- Advance unilateral open and closed kinetic chain strengthening

12+ weeks:

- Advance open and closed kinetic chain strengthening
- Increase intensity on bike, treadmill and elliptical
- Increase difficulty and intensity on proprioception drills
- Begin gym strengthening leg press, hamstring curls, abduction, and adduction exercises
 - Avoid knee extensions until week 16