

Robert Kollmorgen DO

MCL Non Operative Protocol

Phase 1: Week 1-2

- Range of Motion:
- Passive ROM, No limits
- Aggressive Patella mobility
- Ankle pumps
- Gastroc-soleus stretches
- Wall slides
- Heel slides
- Strength:
- Quad sets x 10 minutes
- SLR (flex, abd, add)
- Multi-hip machine (flex, abd, add)
- Mini squats (0-45 °)
- Multi-angle isometrics (90-60 °) (No tension on MCL)
- · When working adductors stress point should be superior to knee
- Calf Raises
- Balance Training:
- Weight shifts (side/side, fwd/bkwd)
- Single leg balance
- Plyotoss
- Weight Bearing:
- Wt bearing as tolerated
- Crutches until quad control is gained, then discontinued

Bicycle:

May begin when 110 ° flex is reached

Modalities:

· E-stim/biofeedback as needed

Ice 15-20 minutes with knee at 0 ° ext

Brace:

- Wear brace at all times with the following exceptions:
- o Remove brace to perform ROM and PT activities

• Immobilizer is D/C'd at 2 weeks pending physician exam Goals for Phase 1:

- ROM 0-110 °
- Adequate quad contraction
- · Control pain, inflammation, and effusion

Phase 2: Week 3

Range of Motion:

- Passive ROM, No limits
- Aggressive Patella mobility

Strength:

· Continue remedial strengthening as needed



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- Leg press
- Step up, step down
- Stairmaster
- Leg curl
- Multi-hip machine (flex, abd, add)
- · When working adductors stress point should be superior to knee
- Calf Raises
- Weight Bearing:
- Full weight bearing
- Bicycle:
- Increase tension
- Balance Training:
- Balance board/2 legged
- Cup walking/hesitation walk
- Single leg balance
- Plyotoss
- Modalities:
- · E-stim/biofeedback as needed
- Ice 15-20 minutes with knee at 0 ° ext

Brace:

- Wear brace at all times with the following exceptions:
- o Remove brace to perform ROM and PT activities
- Immobilizer is D/C'd at 2 weeks pending physician exam
- Goals for Phase 2:
- ROM 0-125 °
- · Increase muscle strength and endurance
- Restore proprioception

Phase 3: Week 4

- Range of Motion:
- Passive ROM, No limits
- · Aggressive Patella mobility

Strength:

- Progressive resistance exercises
- Smith press
- Leg press
- Step up, step down
- Stairmaster
- Leg curl
- Multi-hip machine (flex, abd, add)
- When working adductors stress point should be superior to knee
- Calf Raises
- Weight Bearing:
- Begin jogging
- Progress functional agility exercises as tolerated Bicycle:
- Increase tension
- **Balance Training:**
- Balance board/2 legged



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Cup walking/hesitation walk
Single leg balance Modalities:
E-stim/biofeedback as needed
Ice 15-20 minutes with knee at 0 ° ext Brace:
None Goals for Phase 3:
ROM Full
Increase muscle strength and endurance
Jogging
Functional Agility Exercises
Phase 4: Week 5-6

Range of Motion:

- Passive ROM, No limits
- Aggressive Patella mobility

Strength:

- Progressive resistance exercises
- Smith press
- Leg press
- Step up, step down
- Stairmaster
- Leg curl
- Multi-hip machine (flex, abd, add)
- Weight Bearing:
- · Functional agility exercises as tolerated
- Progress to sprinting
- Progress to sports specific agility drills Bicycle:

As needed

- Balance Training:
- Steam boats in 4 planes
- Single leg stance with plyotoss
- Wobble board balance work-single leg
- ½ Foam roller work

Modalities:

- E-stim/biofeedback as needed
- Ice 15-20 minutes with knee at 0 ° ext

Goals for Phase 4:

- ROM Full
- · Increase muscle strength and endurance
- Sprinting
- Sport Specific Agility Exercises

Return to sport is allowed when the patient can perform sprinting and sports specific agility drills in an unrestricted manner. This usually occurs at the 5-6 week post-injury date. A physician's exam should be performed prior to a full release to all activities without restriction.