Posterior Cruciate Ligament (PCL) Reconstruction and Posterior Lateral Corner (PLC) Reconstruction Postoperative Protocol

Phase I - Maximum protection

Weeks 0-4:

- · Nonweight-bearing with crutches
- Brace locked in extension for all mobility, may unlock when seated (see ROM limits below)
- · Avoid posterior and externally rotated tibia glides or maneuvers
- Avoid isolated hamstring exercises x4 months

Goals

- o PCL protection
- o Reduce inflammation
- o Normalize patella mobility with manual mobilizations
- Avoid hyperextension

Exercise progression

- Quad activation exercises
- Straight leg raises when no quad lag is present
- o Prone passive knee flexion, within limits (see below)
- Hip abd/add exercises
- Upper body exercise, core muscle training as indicated

ROM limitations

o 0-2 weeks: 0-60 degrees

o 2-6 weeks: 0-90 degrees

Weeks 4-6:

- Begin partial weight-bearing at 4 weeks and progress to WBAT by 6 weeks
- Brace locked in extension for all mobility until 6 weeks postop

Goals

- o Progress off crutches
- o Knee flexion to 120°, progress as tolerated
- Normalized gait mechanics
- o Reduce inflammation
- Full knee extension
- 100–120° of knee flexion, progress as tolerated

Phase II - Progressive stretching and early strengthening

Weeks 6-12:

- · Wean from brace as gait normalizes and quad control is sufficient
- Prevent posterior tibial translation

Goals

- o PCL protection
- o Restore full ROM (see below), avoid hyperextension
- Normalize gait mechanics
- Normalize patella mobility with manual mobilizations

Exercise progression

- Bilateral squat progression, limited to 70 degrees
- o Single leg exercises in static positions (no single leg knee flexion beyond 30 degrees)
- Leg press bilateral, limited to 70 degrees
- o Closed kinetic chain hip strengthening
- Step-up and step-down progression
- Stationary biking (no resistance) when ROM > 115 deg
- o Proprioception drills

ROM limitations

o 6-8 weeks: 0-120°

o 8-12 weeks: as tolerated, progress to full

Phase III - Advanced strengthening and proprioception

Weeks 12-18:

Goals

- o Progressive strengthening and endurance training
- o Eliminate movement dysfunction (i.e. no dynamic valgus at the knee)

Exercise progression

- o Begin isolated hamstring exercise at 16 weeks, progress slowly
- o Lunge progression (retro, walk and split) as indicated
- Single limb stability exercises
- Add resistance and duration to stationary biking
- o Weighted squat progression, can progress past 70 degrees at 16 weeks
- o Single-leg bridges, knees bent, starting at 16 weeks

Phase IV – Advanced strengthening and running progression

Weeks 19-24:

Exercise progression

- o Progress resistance with squat and lunge strengthening program
- Advanced ladder series
- o Basic plyometric box progression

Criteria to progress to Phase V

- Pass preliminary functional test at >90% (involved versus uninvolved limb)
- See testing protocol

Phase V - Return to sport

Weeks 25-36:

Exercise progression

- o Linear running progression
- Hurdle and plyo box progressions
- Sport-specific field/court drills
- Noncontact drills

Criteria to be released for return to sport

- o Follow-up examination with the physician
- o Pass return-to-sport functional test at >90% (involved versus uninvolved limb)
- See testing protocol
- Display symmetry and confidence in high-speed cutting, multiplane plyometric drills, sprinting and decelerating

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