



7858 Shrader Rd Richmond, Virginia 23294 Anterior Cruciate Ligament (ACL) Pre-Operative Guidelines

The following guidelines are intended primarily for pre-operative optimization prior to Anterior Cruciate Ligament (ACL) Reconstruction. The goal is to restore knee range-of-motion prior to surgery, minimize knee effusion/inflammation and encourage return to normal gait patterns. These guidelines may also be used an initial step for patient undergoing nonoperative ACL rehabilitation.





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PRE-OPERATIVE ACL GUIDELINES

OVERVIEW	 Optimize Knee Range of Motion Eliminate Poor Gait Habits Reduce Effusion and Inflammation of the Knee prior to Surgery
PRECAUTIONS	 Avoid pain with ROM and strengthening exercises Modify or minimize activities that increase pain and/or swelling Use appropriate assistive device as needed
TREATMENT RECOMMENDATIONS	 Patient education Post-operative plan of care Edema control Activity modification Gait training with expected post-operative assistive device Basic home exercise program (HEP) Ankle pumps, quadriceps sets, gluteal sets





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- Knee flexion and extension AAROM
- Straight leg raises in multiple planes
- LE flexibility exercises e.g. supine calf and hamstring stretches
- Passive knee extension with towel roll under heel
- Plantar flexion with elastic band or calf raises
- Gait training with appropriate preoperative assistive device if needed
- Additional recommendations for patients attending multiple sessions preoperatively

TREATMENT RECOMMENDATIONS (CONT.)

- o Edema management
- ROM exercises e.g. knee flexion
 AAROM, supine knee extension
 PROM
- o LE flexibility exercises
- LE progressive resistive exercises
- Balance/proprioceptive training





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	 Stationary bike
	 Familiarization with post-operative plan of
	care
EMPHASIZE	 Quadriceps contraction
	 Control swelling
	 Knee ROM with focus on extension unless
	mechanically blocked
	 Knee PROM: full extension to 120°
	degrees flexion
	 Minimal to no swelling
GOAL CRITERIA FOR	 Active quadriceps contraction with
PROGRAM	superior patella glide
	 Demonstrates normal gait
	 Able to ascend stairs
	 Able to verbalize/demonstrate post-
	operative plan of care