



High Tibial Osteotomy and Anterior Cruciate Ligament Reconstruction Rehabilitation Program

Name	e:	Date:
Diagi	nosis:	Date of Surgery:
Ph	ase I -In	nmediate Postoperative Phase (Day 1-5)
•	Goals:	
	0	Diminish swelling/inflammation (control hemarthrosis)
	0	Diminish postoperative pain
	0	Initiate voluntary quadriceps control
	0	Independent ambulation
•	Brace:	
	0	Brace for ambulation only (POD 1 to Week 6)
•	•	t-bearing
	0	
•		ng/Inflammation Control
	0	- J FJ
	0	Compression bandages
	O Dan a a	Elevation & ankle pumps
•	U	of Motion
	0	Full passive knee extension
	0	Flexion to 45° (day 1-4) Flexion to 60° (day 5)
	0	PROM and gentle AAROM only
	Flexibi	·
_	O	Hamstring and calf stretches
	0	PROM/AAROM within ROM limitations
	O	1 ROM/ AAROM WIGHII ROM IIIIII adolis
P	hase II –	Acute Phase (Week 2-8)
•	Goals:	
	0	Control swelling and pain
	0	Promote healing of realignment tibial tuberosity
	0	Quadriceps strengthening
•	Brace	
	0	Continue brace for ambulation only
	0	Discontinue brace (week 8)
•	Weigh	t-bearing
	0	Unlock brace for ambulation week 4
	0	Non-weight bearing x 6 weeks
	0	Partial weight-bearing 6-8 weeks
	0	Discontinue Crutches at Week 8

Elevation

Swelling/inflammation

- · Range of motion
 - o PROM/AAROM exercises

Continue use of cryotherapyCompression bandage

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- o ROM 0-75° (week 1-3)
- o ROM 0-90° (week 4)
- Muscle Retraining
 - Electrical muscle stimulation to quads
 - Quad setting isometrics
 - Straight leg raises (flexion)
 - o Hip adduction/abduction
 - o Hip extension
 - o GENTLE submaximal isometric knee extension
 - o Week 4
 - Light leg press
 - Vertical squats (no weight)
- Flexibility
 - Continue hamstring, calf stretches

Phase III -Subacute Phase "Motion" Phase (Week 9-11)

- Goals
 - o Gradual improvement in ROM
 - o Improve muscular strength and endurance
 - Control forces on extension mechanism
- Weight-bearing
 - o One crutch (week 4-6)
 - o Discontinue crutch (week 6)
- Range of motion
 - o PROM 0-115°
 - o PROM 0-125°
 - o PROM 0-125/135°
- Exercises
 - Continue electrical muscle stimulation to quadriceps
 - Quadriceps setting isometric
 - o Hip adduction, abuction, and extension
 - Vertical squats
 - Leg press
 - Knee extension light (0-60°)
 - o Bicycle (week 6-8)
 - Pool program [walking, strengthening (when able)]
- Flexibility
 - Continue all stretching exercises for LE

Phase IV -Strengthening Phase (weeks 12-16)

- Criteria to Progress to Phase IV
 - o ROM at least 0-115 degrees
 - o Absence of swelling/inflammation
 - Voluntary control of quads
- Goals
 - o Gradual improvement of muscular strength
 - Functional activities/drills
- Exercises
 - ½ vertical squats (0-60°)
 - o Wall squats (0-60°)
 - Leg press



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- o Forward lunges
- Lateral lunges
- o Lateral step-ups
- o Knee extension (60-0°)
- o Hip adduction/abduction
- o Bicycle
- o Stairmaster

Phase	e V	-Re	eturn	to	Activ	ity Ph	ase
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- Criteria to enter Phase V
 - o Full non-painful ROM
 - o Appropriate strength level (80% or greater of contralateralleg)
 - o Satisfactory clinical exam
- Goals
 - o Functional return to specific drills
- Exercises
 - o Functional drills
 - o Strengthening exercises
 - o Flexibility exercises

Comments:		
Frequency: times per week	Duration: weeks	
Signature:	Date:	