



Brian B. Gilmer, MDUS Ski Team Physician

Karly M. Dawson PA-C Teaching Associate

REHABILITATION GUIDELINES FOR QUADRICEPS TENDON REPAIR

PHASE I (0-2 WEEKS)	DATES:
Appointments	 Begin physical therapy 3-5 days post surgery 2-3 x/week
Rehabilitation Goals	Protect surgical repair
Precautions	 WB: WBAT with crutches and brace locked at 0° at all times Brace: Brace must be warn at all times except during therapy or HEP Keep wound clean and dry PROM 0°-30°; DO NOT EXCEED No active knee extension
Suggested Therapeutic Exercises	 Straight leg quad sets (no active knee extension) Hamstring and glut sets Patellar mobilizations
Cardiovascular Exercises	Upper Body Ergometer
Progression Criteria	2 weeks post operativelyROM 0-30 degrees
PHASE II (2-6 WEEKS)	DATES:
Appointments	Continue physical therapy 1-2x per week

REHABILITATION GUIDELINES FOR QUADRICEPS TENDON REPAIR

(Phase II continued) Rehabilitation Goals	 Normalize WB with crutches with brace still locked in extension at all times Protect repair
Precautions	 WB / Brace: WBAT in brace locked at 0° at all times Progress to 90 degrees knee flexion between 3-6 weeks Avoid active quadriceps extension
Suggested Therapeutic Exercises	 Avoid hyperextension Heel slides 4 way leg raises with brace locked at 0° Patellar mobilizations
Cardiovascular Exercises Progression Criteria	 Upper Body Ergometer 6 weeks post operatively Must have 0° - 90°

PHASE III (6-12 WEEKS) DATES:

Appointments	Continue physical therapy 1-2x per week
Rehabilitation Goals	 Normalize gait on even surfaces Initiate active quadriceps contraction in standing
Precautions	 WBAT, no crutches Gradual progression of WB flexion weeks 7-8: flexion to 115° (NO active quadriceps extension) weeks 9-10: ROM 0° - 130° (May now begin active quadriceps extension)
	weeks 6-7: open to 40° without crutches weeks 8-10: open brace to 90° weeks 10-12: wean out of brace
Suggested Therapeutic Exercises (Phase III continued)	 Open chain knee flexion and extension Closed chain squats: 0° - 40°; may use leg press May begin stationary bike Prone knee flexion Patellar mobilizations

REHABILITATION GUIDELINES FOR QUADRICEPS TENDON REPAIR

	 Open chain hip strengthening Core strengthening May begin aquatic therapy
Cardiovascular Exercises	Upper body ergometer
Progression Criteria	 Normal gait mechanics without crutches AROM of at least 0° - 110°

PHASE IV (12-16 WEEKS) DATES:

Appointments	Continue physical therapy 1x per week
Rehabilitation Goals	 Normalize gait on all surfaces Single leg stance with good control for at least 10 seconds Full knee ROM Good control with squat to 70°
Precautions	 Avoid any forceful eccentric contractions Avoid impact activities Avoid any activity that causes compensatory movements
Suggested Therapeutic Exercises	 Non impact balance and proprioceptive activities Stationary bike Gait drills Hip and core strengthening <u>After 16 weeks</u>: May begin jogging, elliptical, and plyometrics Gradually progress to full WB ROM
Cardiovascular Exercises	Stationary bikeStairmasterSwimming
Progression Criteria	Return to sport testing

References: University of Wisconsin,

PT name and date: Rachel Georgeson, MSPT April 2016 MD name and date: Approved by MD April 2016

MAMMOTH ORTHOPEDIC INSTITUTE

85 Sierra Park Road • Mammoth Lakes, CA 93546 • 760.924.4084 162 South Main Street • Bishop, CA 93514• 760.872.7766 SIERRA PARK PHYSICAL AND OCCUPATIONAL THERAPY

85 Sierra Park Road • Mammoth Lakes, CA 93546 • 760.934.7302 162 South Main Street • Bishop, CA 93514• 760.872.2942