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## **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: WBATwith crutches and brace locked at 0° at all times Brace: Brace must be warn at all times except during therapy or HEP ٠ 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 operatively • ROM 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	<ul> <li>Normalize WB with crutches with brace still locked in extension at all times</li> <li>Protect repair</li> </ul>
Precautions	<ul> <li>WB / Brace:</li> <li>WBAT in brace locked at 0° at all times</li> <li>Progress to 90 degrees knee flexion between 3-6 weeks</li> <li>Avoid active quadriceps extension</li> </ul>
Suggested Therapeutic Exercises	<ul> <li>Avoid hyperextension</li> <li>Heel slides</li> <li>4 way leg raises with brace locked at 0°</li> <li>Patellar mobilizations</li> </ul>
Cardiovascular Exercises Progression Criteria	Upper Body Ergometer     6 weeks post operatively
	<ul> <li>Must have 0° - 90°</li> </ul>

PHASE III (6-12 WEEKS)

DATES:

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

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

DATES:

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

References: University of Wisconsin,PT name and date: Rachel Georgeson, MSPTApril 2016MD name and date: Approved by MDApril 2016

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