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FELLOWSHIP IN ARTHROSCOPY & ARTHROPLASTY (ADELAIDE, AUSTRALIA)

CONSULTANT ORTHOPAEDIC & ARTHROSCOPIC SURGEON

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featured

<u>Patient Details:</u> <u>Operation Details:</u>

EXERCISE PROGRAMME FOR ACL RECONSTRUCTION (+/- MENISCAL REPAIR)

"FOR ADDED MENISCAL REPAIR EVERYTHING IS SAME EXCEPT FOR WALKING. IN CASE OF MENISCAL REPAIR WALKING STARTS AFTER **4-6WEEKS** OR AS DIRECTED BY THE SURGEON"

COMMON IMPORTANT POINTS:

- 1. Apply ice as much as you can
- 2. Keep a pillow under the leg while sleeping
- 3. Move your foot and toes continuously
- 4. QUADS SETTING- Pull your foot towards your body and make your knee tight and hold it for 15 seconds then release. Repeat it as much as you can.
- 5. First dressing changes around 7 days and stitch removal around 14 day.
- 6. Do all the exercises 6 to 8 times per day.

A. FIRST 7 DAY (FIRST WEEK):

- 1. Wear the brace all the time.
- 2. WALKING- wearing the knee brace after pain tolerance. Can use crutches or walker for support. Walk as per comfort level.
- 3. ACHIEVE FULL EXTENSION- Loosen the knee brace, keep a rolled towel under the heel for 5 mins. Do it 4 times a day.
- 4. QUAD SETTING- keeping the leg on the bed, tighten your thigh as hard as possible- hold for a count of 10 relax for a count of 10. Repeat this for 10-15 times.
- 5. KNEE BENDING- Remove the knee brace and try to bend your knees in lying down position. Do it as per the pain tolerance.

B. <u>DAY 7 - DAY 28 (UPTO 4 WEEK):</u>

WITH BRACE ON:

- 1. WALKING- As much as possible with or without support
- 2. QUAD SETTING cont. as before.
- 3. STRAIGHT LEG RAISING (SUPINE & PRONE) -Raise the leg keeping the knee straight, hold for 5-7 sec, repeat.
- 4. LEG ABDUCTION & ADDUCTION- Lift the leg off the bed move it away to the side, then move it towards the other leg crossing over it. Each time hold for 5-7 sec.
- 5. LEG CIRCUMDUCTION- Lie on your healthy side, lift your operated leg off the bed and rotate, both clockwise and anticlockwise each time hold for 7 secs.
- 6. TOE STAND Stand up on your toes and hold for 10 count.

REMOVING THE BRACE:

- 1. PRONE HANG & BACK CURL: Lie on your belly, hang your feet 6 inches off the bed, then bend your knees as far as possible, hold for count of 10, extend the knee relax for 10, repeat.
- 2. BED SIDE LEG DANGLING & QUADRICEPS DRILL sit at bedside and suspend your feet, bend your knee and make it straight. Hold for 10 in each position.

C. 4 TO 8 WEEKS:

WITH BRACE ON AS BEFORE 1 TO 6 OF "B"

REMOVING THE BRACE

1, 2 OF "B"

- 1. ACTIVE QUADS DRILL sit at bedside and suspend your feet, bend your knee and make it straight. Hold for 10 in each position.
- 2. ACTIVE ASSISTED KNEE BENDING- sit on bed and pull your heel towards buttock.
- 3. HAMSTRING STRETCH- Sit on the floor with both legs out straight, extend your arms and reach forward by bending at the waist as far as possible while keeping your knees straight.
- 4. CALF STRETCHING- sit on bed and pull your foot towards your body with a towel.
- 5. MINI SQUAT- stand with both your feet held apart by about 6 inches, slowly lower your hips for about 6 inches keeping your spine straight, count for 10 and repeat.
- 6. UPPER BODY EXERCISES- for athletes

D. 8 TO 12 WEEKS:

Discard brace after consultation with your surgeon.

REMOVING THE BRACE

- 1. BACK CURL As before, target bending is 150 degrees
- 2. KNEE BENDING- same as before up to 150 degree
- 3. QUADS DRILL WITH WEIGHT exercise same as before, tie a weight of 1 kg in your ankle. When comfortable with a weight increase the weight by 1 kg and try to reach up to 5 kg in 6 weeks.
- 4. HAMSTRING DRILL WITH WEIGHT- Lie face down with your ankles inside bed. Tie 2 kg weight to your ankles and slowly bend your knees to 45 degree. Increase weight when comfortable up to 8 kg in 6 weeks.
- 5. STAIRS Climb 10-15 stairs each session, 4 times daily.
- 6. MINI SQUATS
- 7. CYCLING & SWIMMING

E. 3 TO 6 MONTHS:

- 1. KNEE BENDING- Achieve full knee bending
- 2. QUADS DRILL WITH WEIGHT with 10 kg in next 6 weeks
- 3. HAMSTRING DRILL WITH WEIGHT- with 15 kg in next 6 weeks

SPORTS SPECIFIC TRAINING (SHOULD BE DONE UNDER GUIDANCE)

- 1. FULL SQUAT
- 2. SKIPPING
- 3. LEG PRESS/ SINGLE LEG PRESS
- 4. ONE LEG HOP
- 5. SPOT JUMP
- 6. FREE SWIMMING

F. 6 MONTHS ONWARDS:

- 1. SIDE RUNNING
- 2. SPRINTS
- 3. SHOOTING
- 4. BALL CONTROL
- 5. DRIBBLING

RETURN TO SPORTS (after consulting your surgeon & physio)

- 1. HOP DISTANCE EQUALS OPPOSITE SIDE
- 2. MUSCLE SYMMETRY AT LEAST 90 % OF NORMAL SIDE

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