

Teodoro P. Nissen, M.D., Q.M.E. Fellowship Trained Board Certified Joseph M. Centeno, M.D. Fellowship Trained Board Certified

Phone: (707) 645-7210

Fax: (707) 645-7249

TOTAL KNEE ARTHROPLASTY PROTOCOL

General Information:

- Walker or crutches should be used until discontinued by Doctor or Physical therapist
- Ice knee frequently with cryocuff, up to 30 minutes out of every 2 hours
- Change knee position at least once an hour, while awake, to avoid stiffness
- Home exercises should be performed 3x/day

Reminder for stair use:

- Upstairs the nonoperative leg goes first, then the operative leg, lastly the crutches or cane
- Downstairs the crutches or cane go first, then the operative leg, lastly the nonoperative leg

Rehabilitation:

0-3 weeks

Goals

1. safe ambulation with walker, crutches or cane (level surface and stairs)

- 2. range of motion 0-100 degrees
- 3. independent transfers

Exercise

- 1. Quad sets- tighten knee muscles of out stretched leg by pushing the back of the knee into the bed, hold 5 seconds
- 2. Gluteal sets-squeeze buttocks together, hold 5 seconds
- 3. Ankle pumps- pump ankles to move feet back and forth
- 4. Heel slides- bend knee, sliding foot toward buttocks
- 5. Hip abduction-slide leg out to side keeping the knee straight
- 6. Knee flexion- sitting in firm chair, slide foot back bending knee as far as possible, hold 5 seconds
- 7. Stationary Bike can begin at 2 weeks
- * First five exercises to be done lying on back and repeated 20 times.

3+ weeks

Goals

- 1. Range of motion 0-120 degrees
- 2. continue physical therapy for exercise instruction, gait training and scar/swelling management

Exercise

- 1. Straight leg raises, no greater than 2 lbs. (flexion, abduction, adduction)
- 2. Hamstring curls
- 3. Heel raises
- 4. Standing terminal knee extensions
- 5. Standing hip flexion
- 6. Standing hip abduction
- 7. Bridges
- 8. Short arc quad
- 9. Pool therapy

Phone: (707) 645-7210

Fax: (707) 645-7249

12+ weeks

Goals

- 1. safe ambulation on uneven surfaces with straight cane
- 2. safe ambulation without assistive device or gait deviation on level surface
- 3. independent with all ADLs
- 4. independent with advanced home exercise program

Exercise

- 1. Squats (as able)
- 2. Single leg balance (challenges with airex, if able)
- 3. Forward step ups (advance in 2 inch increments)
- 4. Forward step downs (advance in 2 inch increments)
- 5. Leg press

Discharge Criteria:

- Safe ambulation without assistive device
- Ascend and descend stairs independently
- Independent home exercise program
- Normal ADL function

Phone: (707) 645-7210

Fax: (707) 645-7249