PHASE 1 - ACUTE (0-6 Weeks)

PHASE GOALS: PROTECT REPAIR, RESTORE AMBULATION & ADL STATUS

RANGE OF MOTION

- 0-2 WEEKS FULL EXTENSION, PROGRESS FLEXION TO 30 DEG
- 2-4 WEEKS PROGRESS FLEXION TO 60 DEG
- 4-6 WEEKS PROGRESS FLEXION TO 90 DEG

WEIGHT BEARING

- 0-6 WEEKS WEIGHT BEARING AS TOLERATED (IN FULL EXTENSION)
- 6+ WEEKS FULL WEIGHTBEARING (BRACE UNLOCKED)

BRACE & CRUTCH USE

- 0-6 WEEKS LOCKED IN FULL EXTENSION
- 6+ WEEKS OPEN BRACE TO FULL *WITH GOOD QUAD CONTROL

STRENGTHENING & CONDITIONING

- 0-4 WEEKS QUAD SETS, STRAIGHT LEG RAISES, WEIGHT SHIFTS
- 4-6 WEEKS SINGLE LEG BALANCE & CONTINUE ABOVE

CRITERIA FOR FULL AMBULATION WITHOUT CRUTCHES

- AT LEAST 6 WEEKS OUT FROM SURGERY
- > 0 DEG KNEE EXTENSION & 70 DEG KNEE FLEXION
- > 30 STRAIGHT LEG RAISES WITHOUT A LAG
- > 20 SEC OF SINGLE LEG BALANCE (BESS)
- SYMMETRICAL GAIT WITHOUT A LIMP

PHASE 2 - STRENGTH (6-16 Weeks)

PHASE GOALS: IMPROVE STRENGTH & INITIATE JOGGING PROGRAM

RANGE OF MOTION

- 6-8 WEEKS PROGRESS FLEXION TO 120 DEG
- 8+ WEEKS PROGRESS FLEXION TO FULL

STRENGTHENING

- 6-8 WEEKS MINI-SQUATS, SHORT ARC QUADS, LIGHT LEG PRESS PARTIAL RANGE, CORE EXERCISES (V-UPS, BRIDGING)
- 8-12 WEEKS SQUAT PROGRESSION (BODYWEIGHT SQUATS TO WEIGHTED SQUATS), LONG ARC QUAD (NO RESISTANCE)
- 12-16 WEEKS SINGLE LEG SQUATS, BARBELL SQUATS & DEADLIFTS
- *NO RESISTED OPEN CHAIN QUAD STRENGTHENING FOR 12 WEEKS

CONDITIONING

BIKING *INITIATE AT 110 DEGREES FLEXION, ELLIPTICAL & ROWING MACHINE, INITIATE JOGGING PROGRAM AT 16 WEEKS

CRITERIA FOR JOGGING

- AT LEAST 16 WEEKS POST-SURGERY
- PAIN LESS THAN 3 / 10 (WORST)

PHASE 3 - AGILITY (16-24 Weeks)

PHASE GOALS: INTRODUCE DYNAMIC & POWER MOVEMENTS

STRENGTHENING

16+ WEEKS - GYM STRENGTHENING (SQUATS, DEADLIFTS), CORE EXERCISES (MOUNTAIN CLIMBERS, PLANKS, V-UPS)

20+ WEEKS - OLYMPIC LIFTING

CONDITIONING

BIKING, ELLIPTICAL, JOGGING, SWIMMING

PLYOMETRICS & LIGHT AGILITY

16-20 WEEKS - LADDER DRILLS, DOUBLE LEG HOPS, SIDE SHUFFLE 20+ WEEKS - SINGLE LEG BOX JUMPS & HOPPING, LIGHT AGILITIES

CRITERIA FOR HEAVY AGILITY & SPORT SPECIFIC MOVEMENTS

- 20 WEEKS POST-SURGERY
- PAIN LESS THAN 2 / 10 (WORST)
- QUAD & HAM STRENGTH > 80% NORMAL; > 50% H/Q RATIO FOR FEMALES
- AT LEAST 2 MINUTES OF SINGLE LEG SQUATS (RESISTED)
- ≤ 5 ON LANDING ERROR SCORING SYSTEM (LESS)
- MD OR PT APPROVAL

PHASE 4 - RETURN TO PLAY (24+ Weeks)

PHASE GOALS: INITIATE SPORTS SPECIFIC MOVEMENTS & RETURN TO PLAY STRENGTHENING

PROGRESS GYM ROUTINE (SQUATS, DEADLIFTS, OLYMPIC LIFTING)
BIODEX QUAD & HAMSTRING FATIGUE PROTCOLS & CORE EXERCISES

CONDITIONING

JOGGING, BIKING, & SWIMMING

INTERVAL SPRINT WORKOUTS

PLYOMETRICS & AGILITY (2-3 DAYS/WEEK)

MAX EFFORT BOX JUMPS (PROGRESS WITH ROTATION)

LATERAL & ROTATIONAL AGILITY

SINGLE-LEG HOPS

UNPREDICTABLE CUTTING & CONTACT DRILLS

RECOMMENDED CRITERIA FOR RETURN TO PLAY

- PAIN LESS THAN 2 / 10 (WORST)
- QUAD & HAM STRENGTH > 90% NORMAL; > 60% H/Q RATIO FOR FEMALES
- AT LEAST 3 MINUTES OF SINGLE LEG SQUATS (RESISTED)
- 90% NORMAL ON ALL SINGLE-LEG HOP TESTS
- 95% NORMAL ON FIGURE OF 8, 5-10-5 PRO-AGILITY, & S-L VERTICAL JUMP
- MD OR PT APPROVAL