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LIFE IN FULL MOTION

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ISOKINETIC ASSESSMENT of KNEE EXTENSION and FLEXION

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- Appropriate musculoskeletal screening
 - Minimal 5 months post ACL reconstruction for maximal testing
 - Patient should not be limited by pain (i.e. - patello-femoral pain will produce an invalid test, as the patient cannot perform maximally)
- General body stretching and warm-up
 - 5 minutes on stationary bike
 - Stretch specific body parts (quadriceps, hamstrings, hip flexors, etc.)
- Set up patient with optimal stabilization
 - Alignment of joint and dynamometer axes of rotation
 - Verbal instruction to isokinetic exercise
 - Gravity correction when appropriate
- Warm-up (3 submaximal, 3 maximal repetitions)
- Rest (30 s to 1 min)
- Maximal test at slow velocity (90°/sec, 5 repetitions)
- Rest (30 s to 1 min)
- Maximal test at fast velocity (180°/sec, 5 repetitions)
- Rest (30 s to 1 min)
- Multiple repetition endurance test (240°/sec, 10 repetitions)
- Test contralateral extremity
- Ensure test results are recorded
- Print results
- Review results with patient.

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