

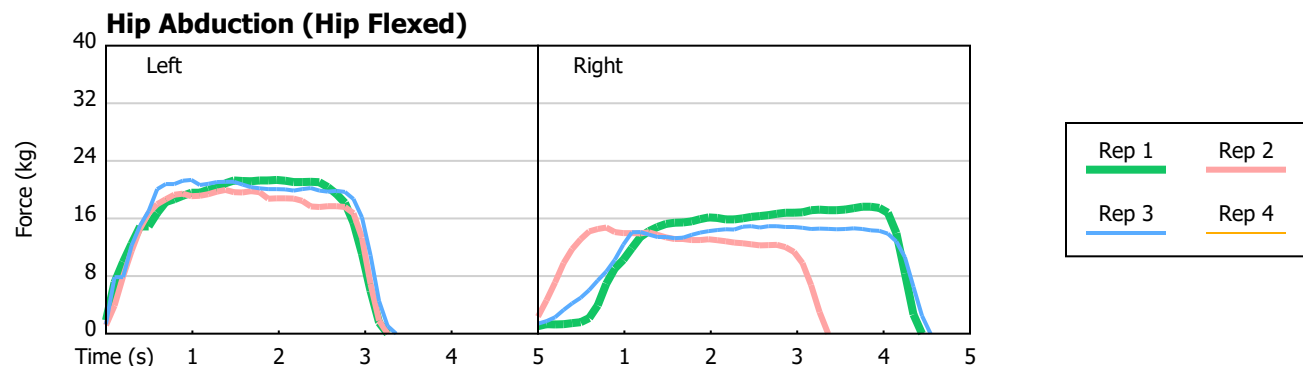
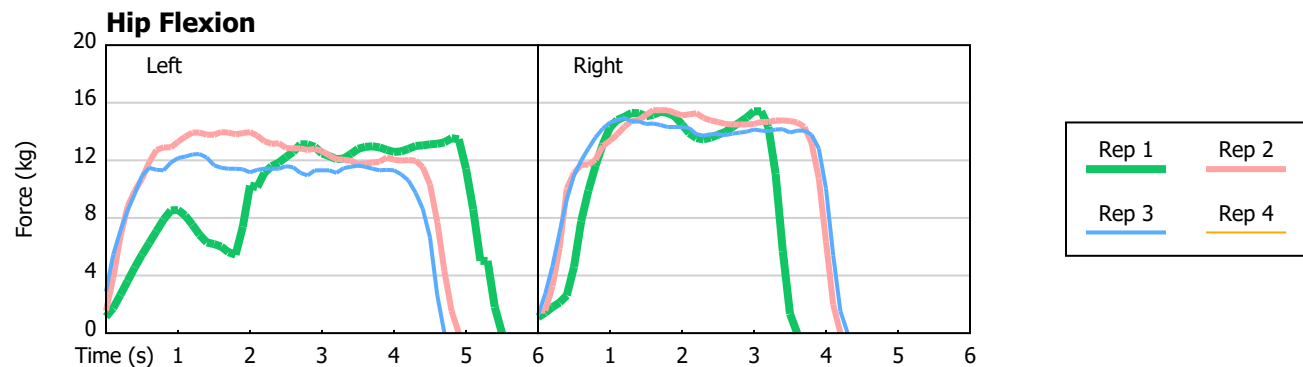
## Muscle Strength Testing

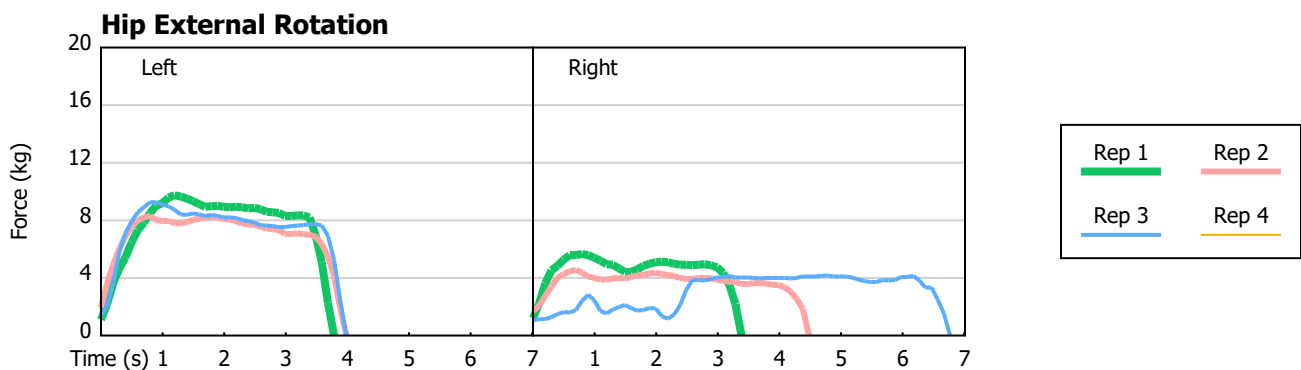
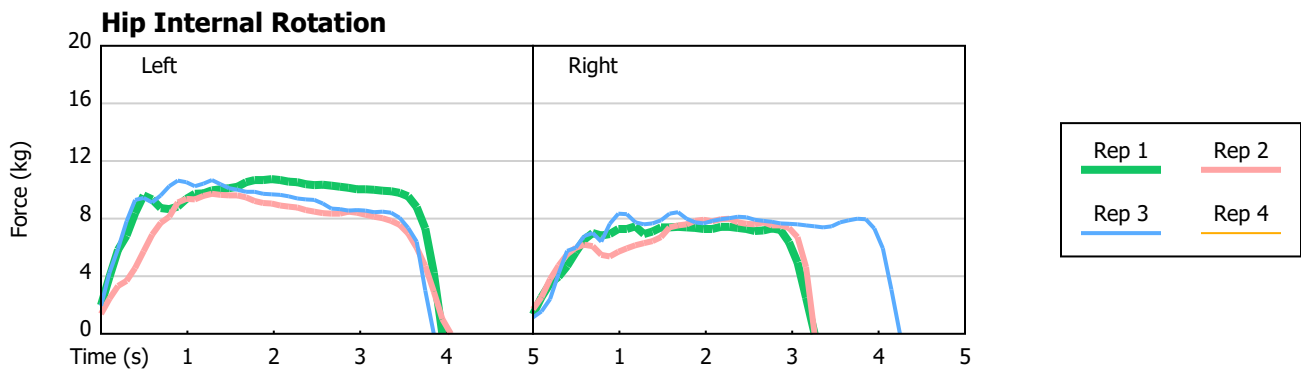
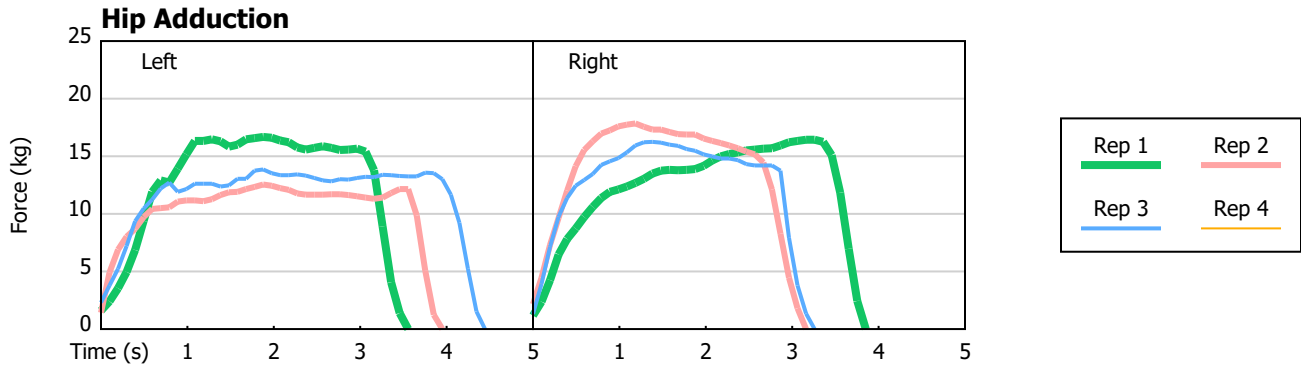
### Muscle Tests

The patient was tested using the JTECH Tracker system, a computerized muscle strength evaluation system. When compared to the opposite side, a strength difference greater than 15% is generally recognized as an indication of motor deficit.

| Lower Extremity Muscle Tests | Result  |         | CV   |       | Difference |
|------------------------------|---------|---------|------|-------|------------|
|                              | Left    | Right   | Left | Right |            |
| Hip Flexion                  | 14.0 kg | 15.5 kg | 5%   | 2%    | -10% L     |
| Hip Abduction (Hip Flexed)   | 21.3 kg | 17.6 kg | 3%   | 8%    | -17% R     |
| Hip Adduction                | 16.7 kg | 17.8 kg | 12%  | 4%    | -7% L      |
| Hip Internal Rotation        | 10.7 kg | 8.4 kg  | 5%   | 5%    | -21% R     |
| Hip External Rotation        | 9.7 kg  | 5.7 kg  | 7%   | 13%   | -42% R     |

Consistency of the patient's muscle strength was evaluated using coefficient of variation (CV) with consistency indicated by successive repetitions falling below 15%.





## Muscle Test Progress

| Lower Extremity Recent Change | Previous Exam |         |         |        | Current |         |        | Change |       |
|-------------------------------|---------------|---------|---------|--------|---------|---------|--------|--------|-------|
|                               | Date          | Left    | Right   | Diff   | Left    | Right   | Diff   | Left   | Right |
| Hip Flexion                   | 5/10/2019     | 17.8 kg | 15.8 kg | -11% R | 14.0 kg | 15.5 kg | -10% L | -22%   | -2%   |
| Hip Abduction (Hip Flexed)    | 5/10/2019     | 18.0 kg | 15.0 kg | -17% R | 21.3 kg | 17.6 kg | -17% R | 18%    | 17%   |
| Hip Adduction                 | 5/10/2019     | 19.8 kg | 18.5 kg | -6% R  | 16.7 kg | 17.8 kg | -7% L  | -16%   | -4%   |
| Hip Internal Rotation         | 5/10/2019     | 12.3 kg | 7.9 kg  | -36% R | 10.7 kg | 8.4 kg  | -21% R | -13%   | 7%    |
| Hip External Rotation         | 5/10/2019     | 14.6 kg | 6.2 kg  | -57% R | 9.7 kg  | 5.7 kg  | -42% R | -33%   | -9%   |

| Lower Extremity Overall Change | Initial Exam |         |         |        | Current |         |        | Change |       |
|--------------------------------|--------------|---------|---------|--------|---------|---------|--------|--------|-------|
|                                | Date         | Left    | Right   | Diff   | Left    | Right   | Diff   | Left   | Right |
| Hip Flexion                    | 5/10/2019    | 17.8 kg | 15.8 kg | -11% R | 14.0 kg | 15.5 kg | -10% L | -22%   | -2%   |
| Hip Abduction (Hip Flexed)     | 5/10/2019    | 18.0 kg | 15.0 kg | -17% R | 21.3 kg | 17.6 kg | -17% R | 18%    | 17%   |

|                       |           |         |         |        |         |         |        |      |     |
|-----------------------|-----------|---------|---------|--------|---------|---------|--------|------|-----|
| Hip Adduction         | 5/10/2019 | 19.8 kg | 18.5 kg | -6% R  | 16.7 kg | 17.8 kg | -7% L  | -16% | -4% |
| Hip Internal Rotation | 5/10/2019 | 12.3 kg | 7.9 kg  | -36% R | 10.7 kg | 8.4 kg  | -21% R | -13% | 7%  |
| Hip External Rotation | 5/10/2019 | 14.6 kg | 6.2 kg  | -57% R | 9.7 kg  | 5.7 kg  | -42% R | -33% | -9% |





The ratios displayed below can be used to quickly compare the maximum strength results of opposing muscle test motions. The notation A:B means the ratio of A to B and is equal to A divided by B.

| Lower Extremity Strength Ratio | Side  | Motion A | Motion B | A:B Ratio | B:A Ratio |
|--------------------------------|-------|----------|----------|-----------|-----------|
| Hip Internal/External Rotation | Left  | 10.7 kg  | 9.7 kg   | 1.10      | 0.91      |
| Hip Internal/External Rotation | Right | 8.4 kg   | 5.7 kg   | 1.49      | 0.67      |

