



**Springbok**  
ANALYTICS

# High Level Golfer with Lumbar Injury

## Springbok Demo

Date of Scan | MM.DD.YYYY

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Pgs. 2-3 | Executive Summary

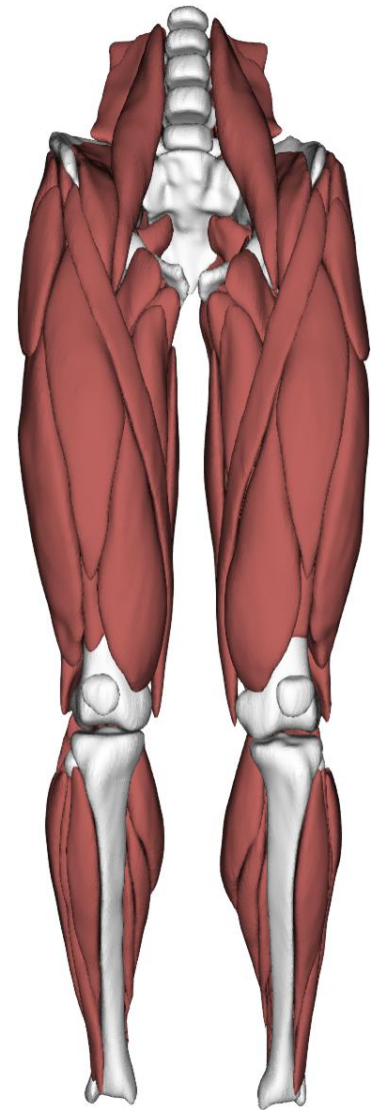
Pg. 4 | Full Lower Extremity Asymmetry Profile

Pg. 5 | Full Lower Extremity Development Profile

Pg. 6-11 | Muscle-Level Metrics

Pg. 12 | Interactive Viewer

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To check out this report in 3D, visit  
[app.springbokanalytics.com](http://app.springbokanalytics.com).

*The Springbok report is an in-depth analysis of the subject's musculature and is not intended to be used for diagnostic purposes*

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ANALYTICS



Height | 0ft 0in

Weight | 000lbs

Scan Date | MM.DD.YYYY

## Key Observations

- 1. Asymmetry:** Notable asymmetries in the hip adductor muscles, which are smaller on the right leg.
- 2. Asymmetry:** Right psoas major, left iliacus, and left obturator internus are dramatically smaller than on the contralateral leg, which represents the largest asymmetries in the lower body.
- 3. Development:** Generally high development in the ankle evertors and hip abductors.
- 4. Development:** Generally low development in the lumbar spine, ankle invertors, and dorsiflexors.

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**No injuries quantified.**

# Executive Summary



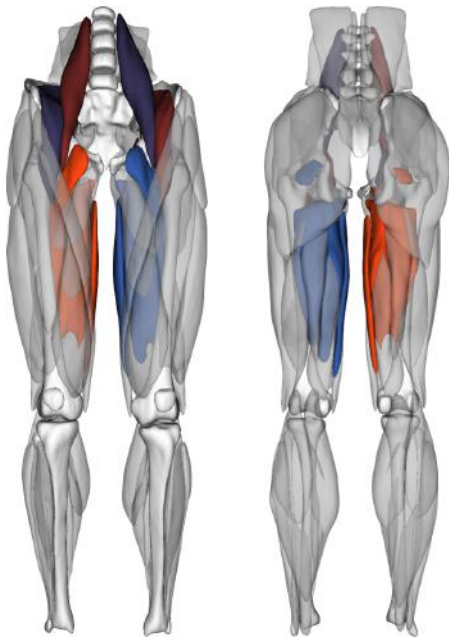
Height | 0ft 0in

Weight | 000lbs

Scan Date | MM.DD.YYYY

## Asymmetry Profile

Muscles with the greatest volumetric differences between legs are identified below. Blue muscles indicate a muscle is larger on that side, and the corresponding muscle on the opposing leg will be colored red.



### Muscle Groups

Left

Right

Hip Adductors

### Individual Muscles

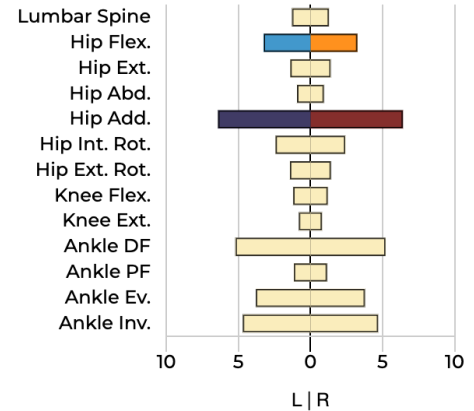
Left

Right

Iliacus  
Obturator Internus

External Rotators  
Pectineus  
Psoas Major  
Gracilis  
Adductor Magnus

L-R Asymmetry (%)

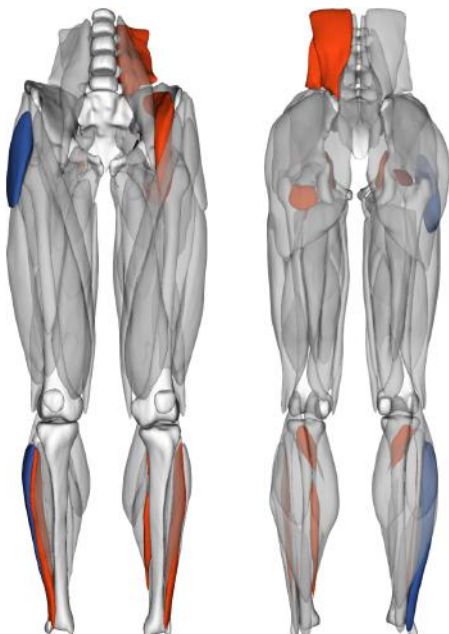


### L | R Asymmetry



## Development Profile

Muscle volumes are scored from 0-100, with expected volume based on the subject's height and weight scored as 50. Muscles deviating most from their expected volume are identified below, where blue muscles are larger and red muscles are smaller than expected.



### Muscle Groups

Left

Right

Ankle Evertors

### Individual Muscles

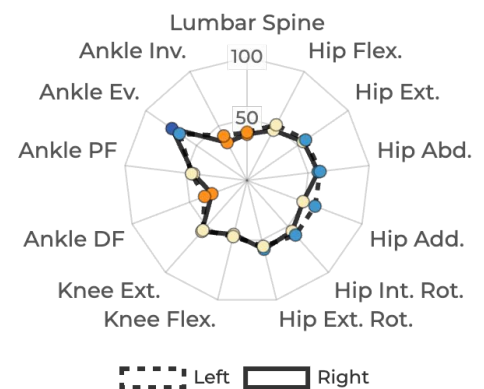
Left

Right

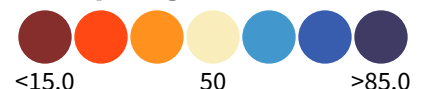
Obturator Internus  
Iliacus  
Erector Spinae  
Quadratus Femoris  
Phalangeal Extensors  
Quadratus Lumborum

External Rotators  
Tensor Fasciae Latae  
Obturator Internus  
Popliteus  
Phalangeal Extensors  
Fibulari

Springbok Score



### Springbok Score



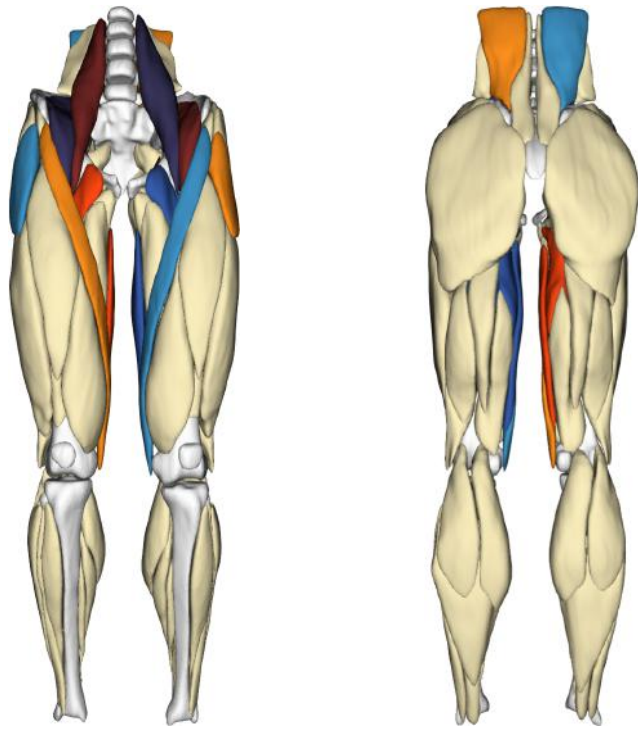
# Full Lower Extremity Muscle Asymmetry Profile



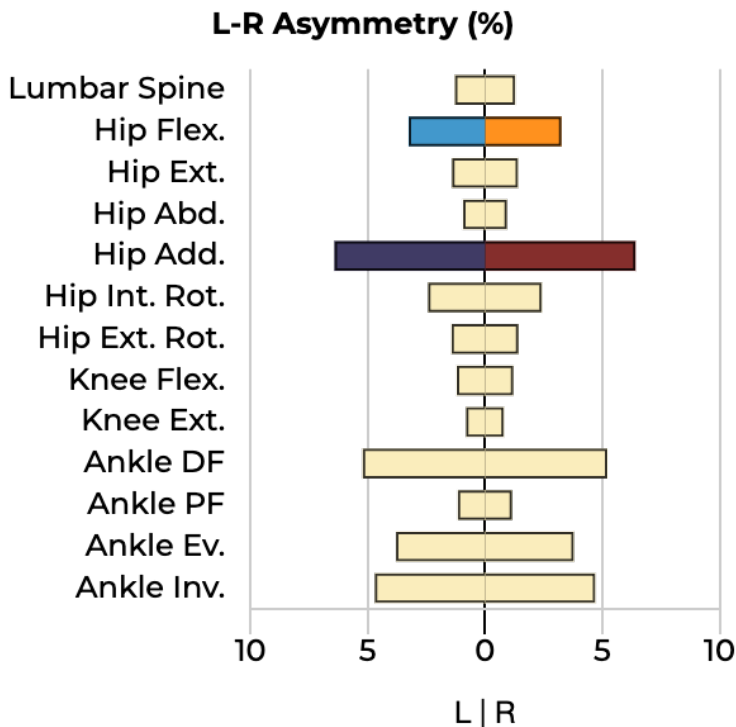
Height | 0ft 0in

Weight | 000lbs

Scan Date | MM.DD.YYYY



	Group	L	R
Hip & Trunk	Lumbar Spine	1.3%	-1.3%
	Flexors	3.3%	-3.3%
	Extensors	1.4%	-1.4%
	Abductors	0.9%	-0.9%
	Adductors	6.4%	-6.4%
	Internal Rotators	2.4%	-2.4%
	External Rotators	-1.4%	1.4%
Knee	Flexors	1.2%	-1.2%
	Extensors	-0.8%	0.8%
Ankle	Dorsiflexors	5.2%	-5.2%
	Plantar Flexors	1.2%	-1.2%
	Evertors	-3.8%	3.8%
	Invertors	4.7%	-4.7%



## Most Asymmetric Muscle Groups

- 1 Hip Adductors
- 2 Hip Flexors

## Most Symmetric Muscle Groups

- 1 Hip Abductors
- 2 Knee Extensors

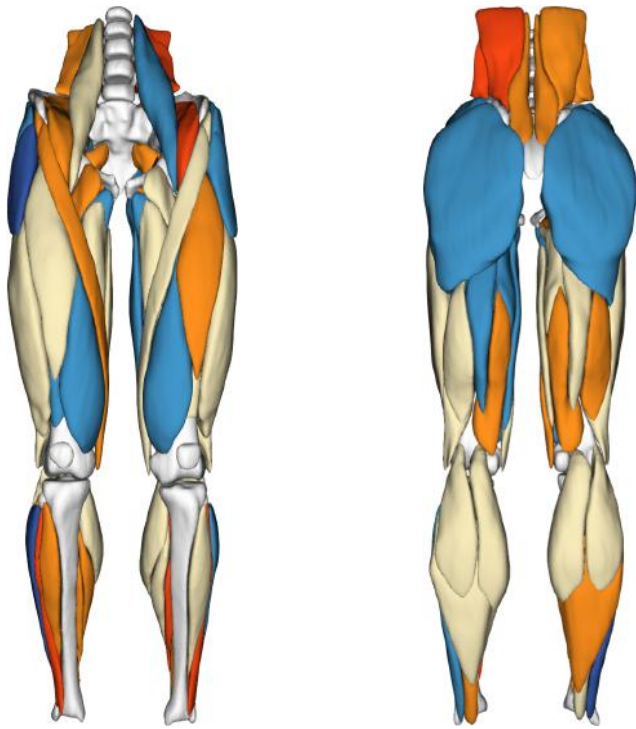
# Full Lower Extremity Muscle Development Profile



Height | 0ft 0in

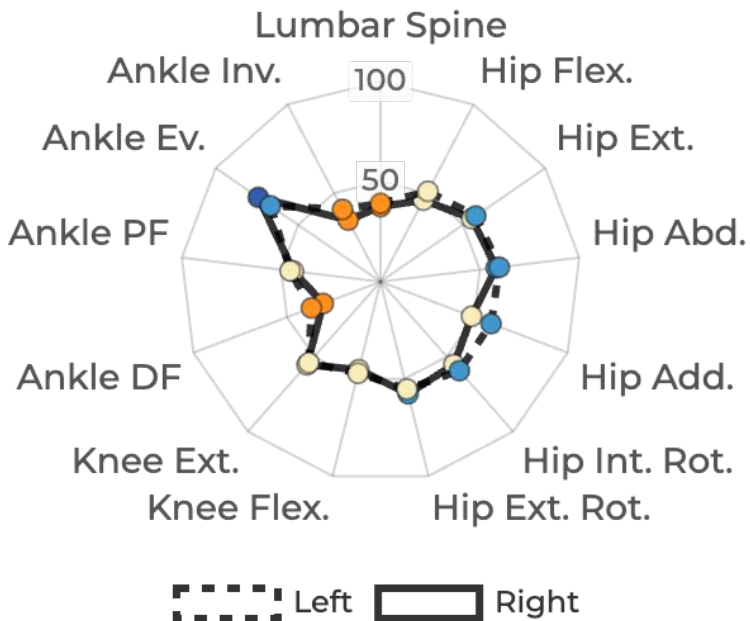
Weight | 000lbs

Scan Date | MM.DD.YYYY



	Group	L	R
Hip & Trunk	Lumbar Spine	39.2	37.5
	Flexors	51.0	46.1
	Extensors	57.8	55.5
	Abductors	59.8	58.2
	Adductors	59.1	48.7
	Internal Rotators	59.4	55.3
	External Rotators	55.3	57.6
Knee	Flexors	47.1	45.3
	Extensors	54.1	55.4
Ankle	Dorsiflexors	36.9	30.6
	Plantar Flexors	45.5	43.8
	Evertors	66.8	74.2
	Invertors	40.8	34.8

## Springbok Score



## Highest Scoring Muscle Groups

- 1 Ankle Evertors
- 2 Hip Abductors

## Lowest Scoring Muscle Groups

- 1 Ankle Dorsiflexors
- 2 Ankle Invertors

# Muscle-Level Metrics

## Lumbar Muscles

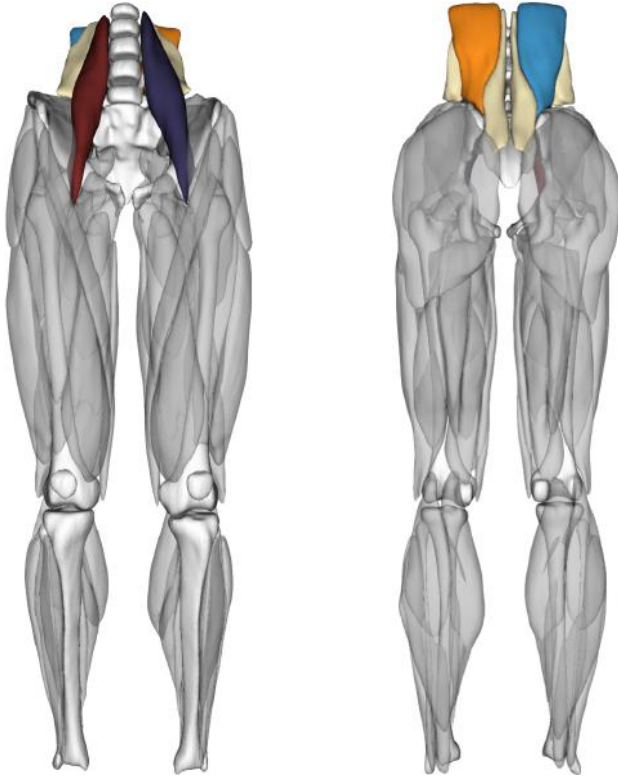


Height | 0ft 0in

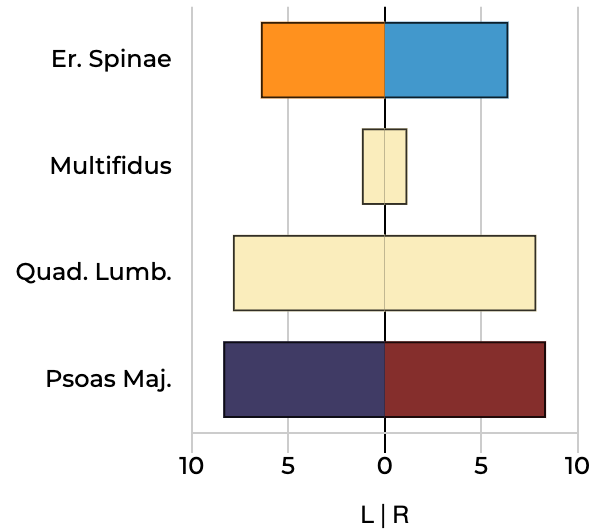
Weight | 000lbs

Scan Date | MM.DD.YYYY

### Asymmetry Profile



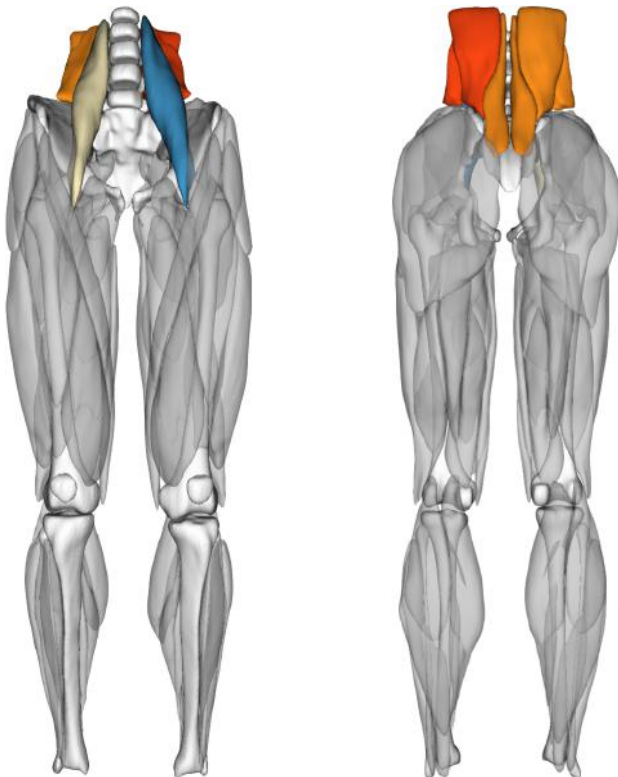
L-R Asymmetry (%)



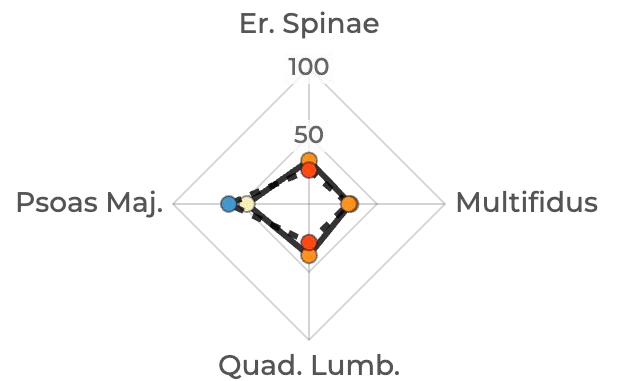
L | R Asymmetry



### Development Profile

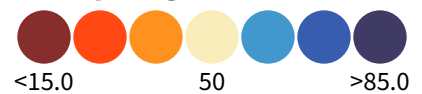


Springbok Score



Left Right

Springbok Score



# Muscle-Level Metrics

## Lumbar Muscles - CSA Analysis

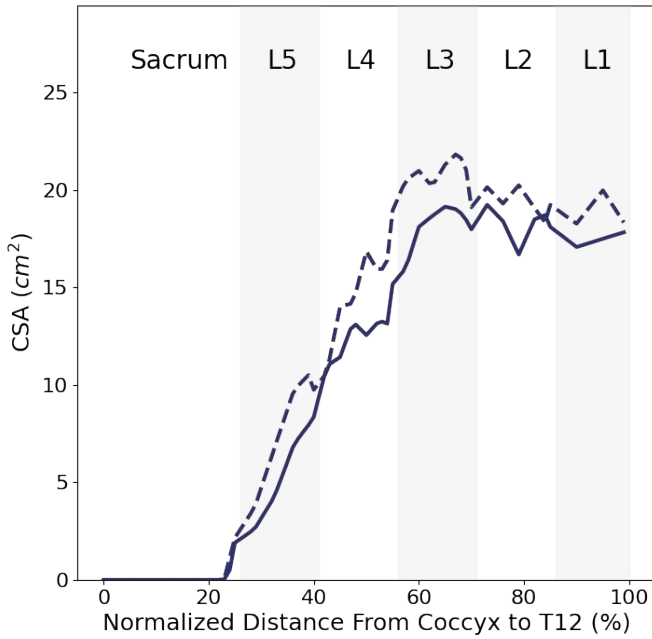


Height | 0ft 0in

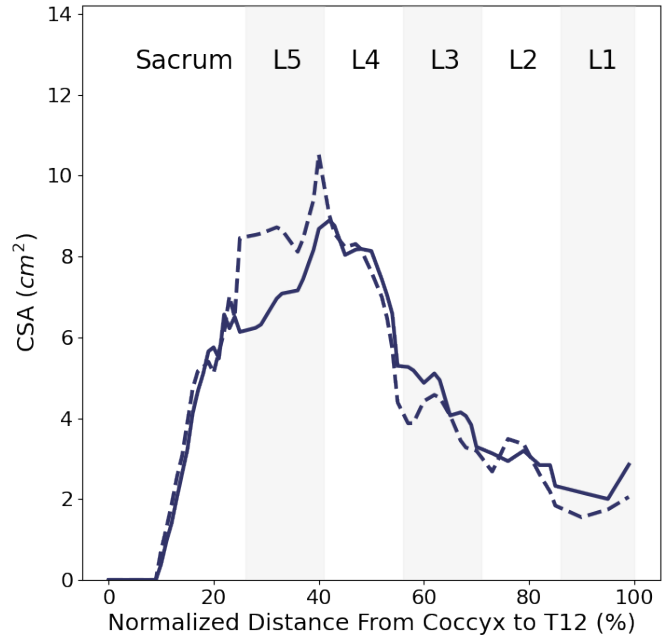
Weight | 000lbs

Scan Date | MM.DD.YYYY

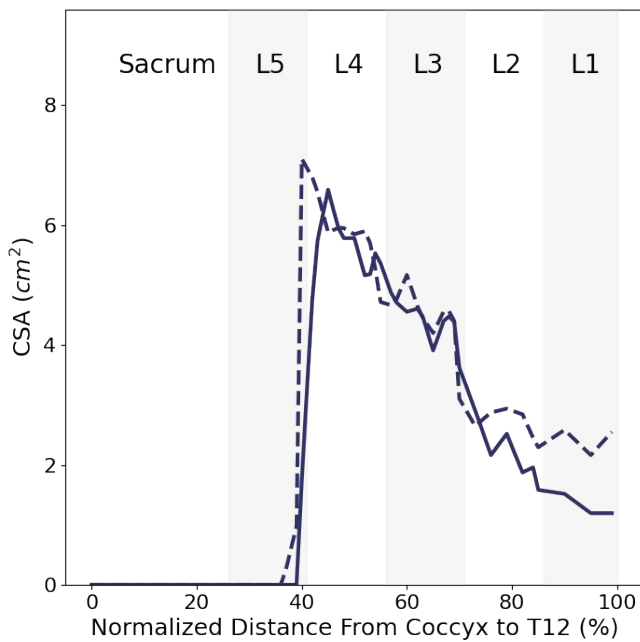
### Erector Spinae



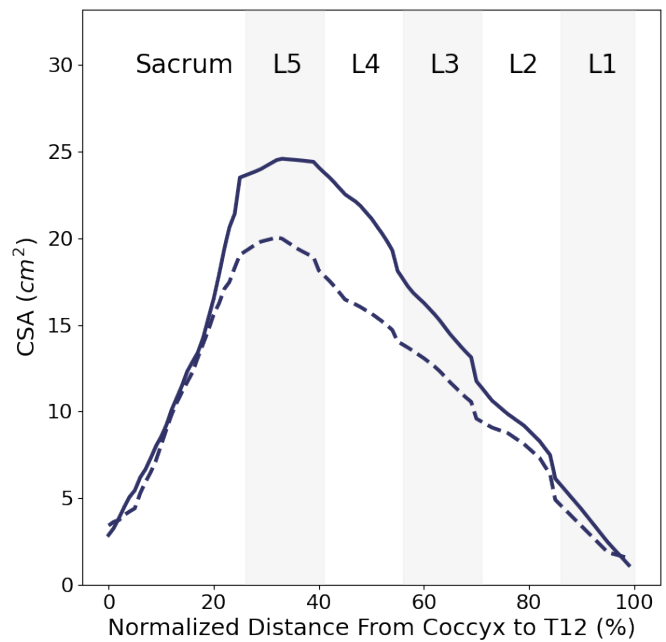
### Multifidus



### Quadratus Lumborum



### Psoas Major



— Left  
- - - Right

# Muscle-Level Metrics

## Superficial Hip Muscles

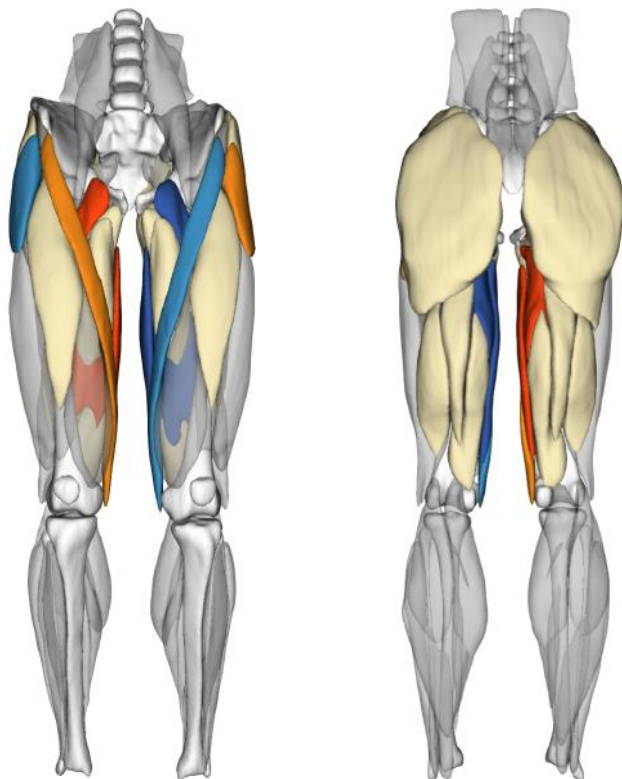


Height | 0ft 0in

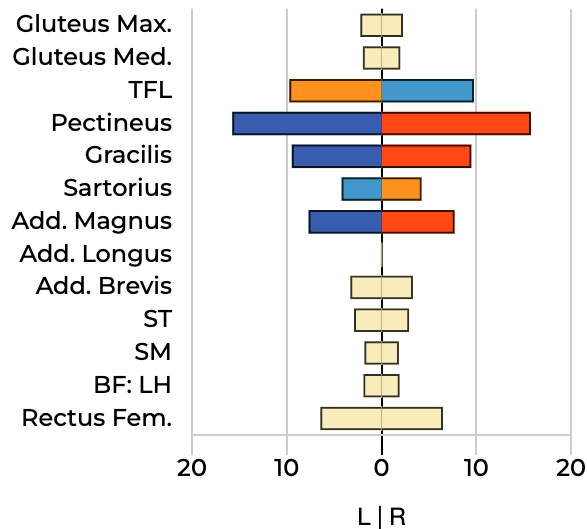
Weight | 000lbs

Scan Date | MM.DD.YYYY

### Asymmetry Profile



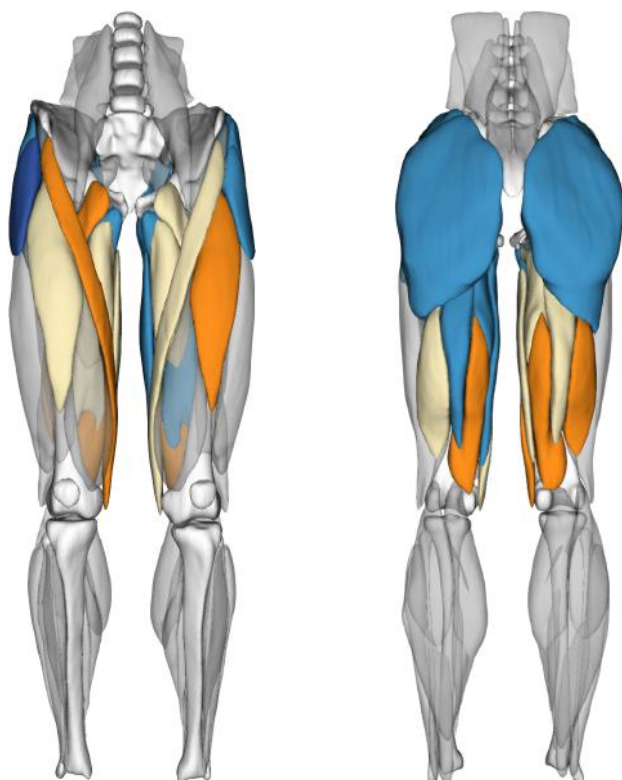
L-R Asymmetry (%)



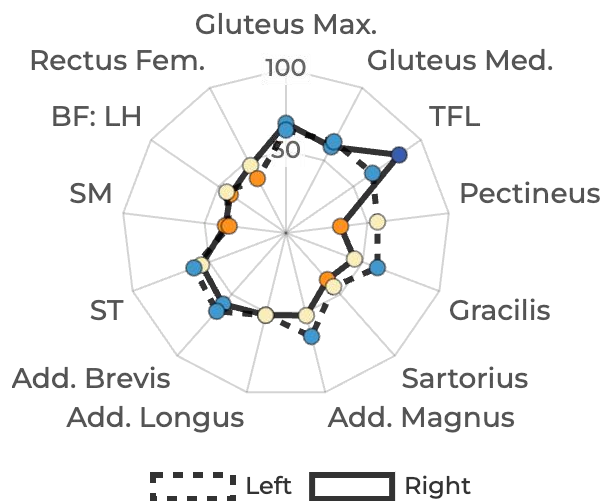
L | R Asymmetry



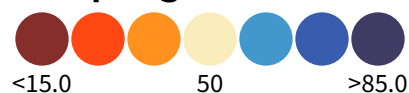
### Development Profile



Springbok Score



Springbok Score





# Muscle-Level Metrics

## Deep Hip Muscles

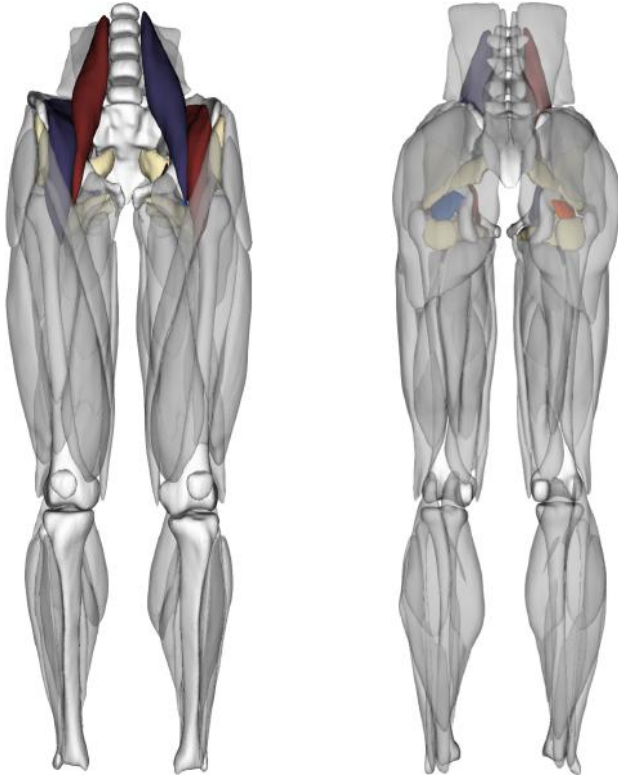


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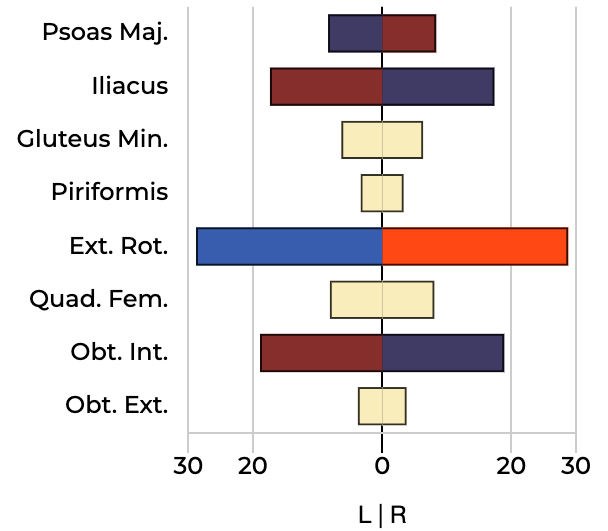
Weight | 000lbs

Scan Date | MM.DD.YYYY

### Asymmetry Profile



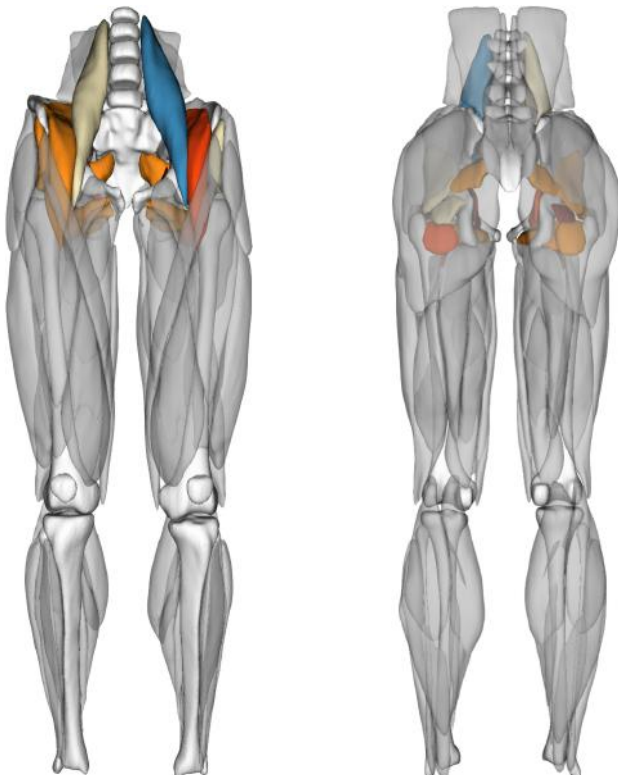
L-R Asymmetry (%)



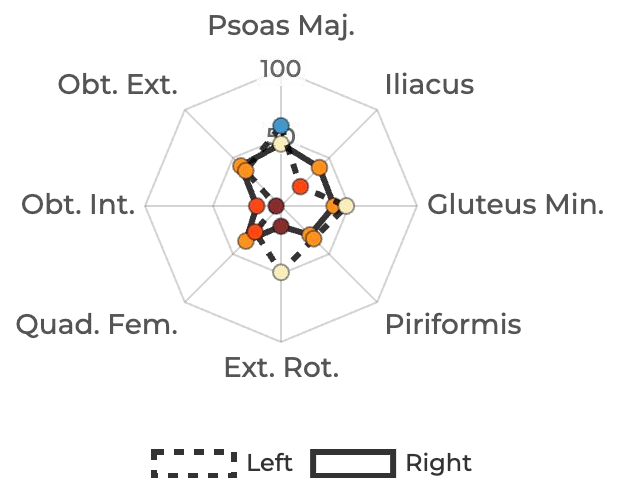
L | R Asymmetry



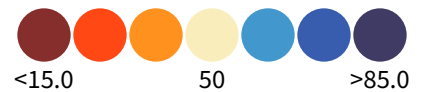
### Development Profile



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Springbok Score



# Muscle-Level Metrics

## Knee Muscles

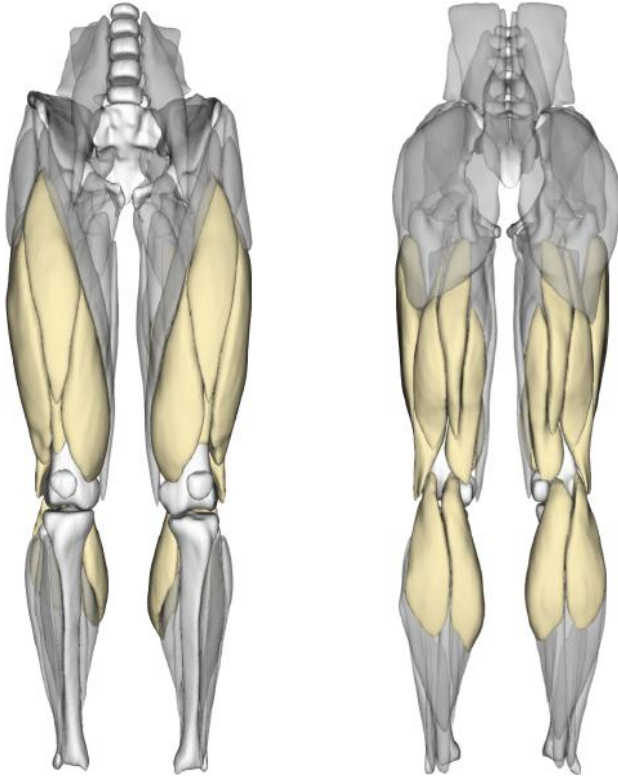


Height | 0ft 0in

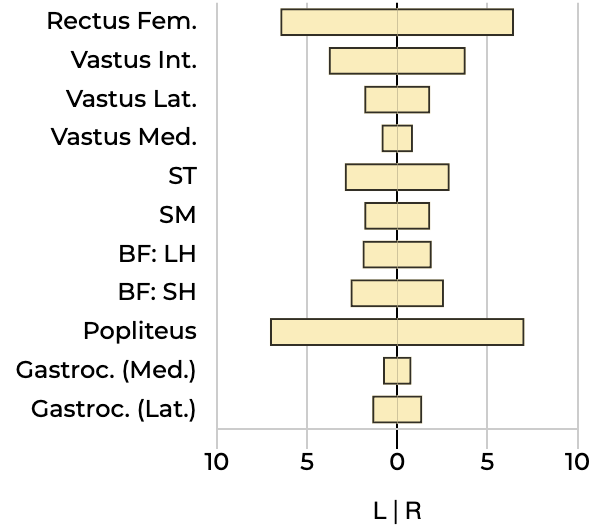
Weight | 000lbs

Scan Date | MM.DD.YYYY

### Asymmetry Profile



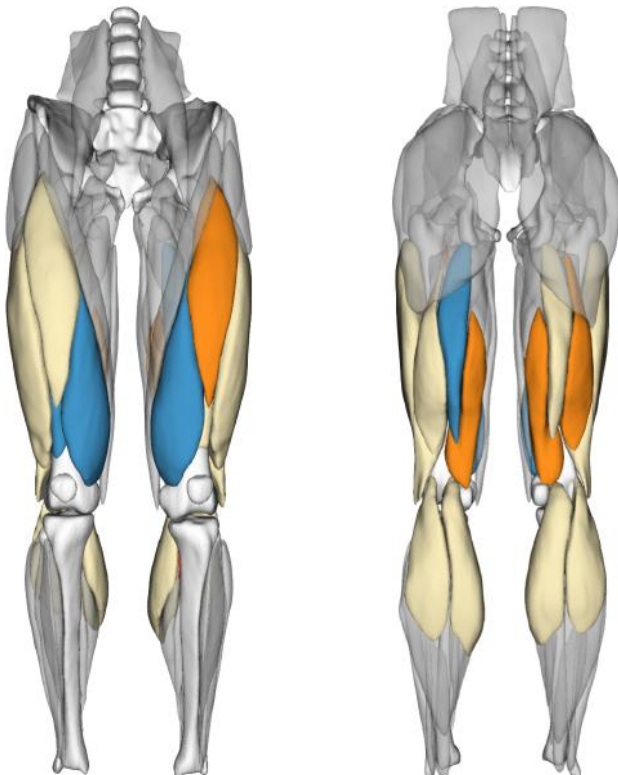
L-R Asymmetry (%)



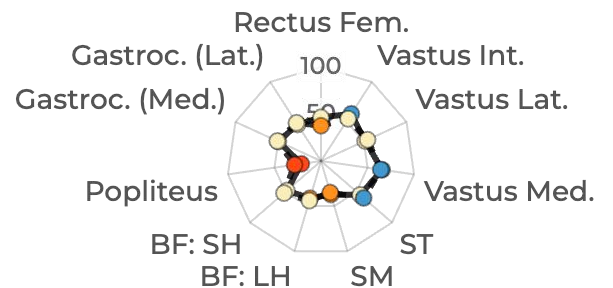
L | R Asymmetry



### Development Profile

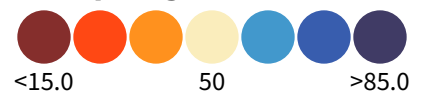


Springbok Score



Left Right

Springbok Score



# Muscle-Level Metrics

## Ankle Muscles

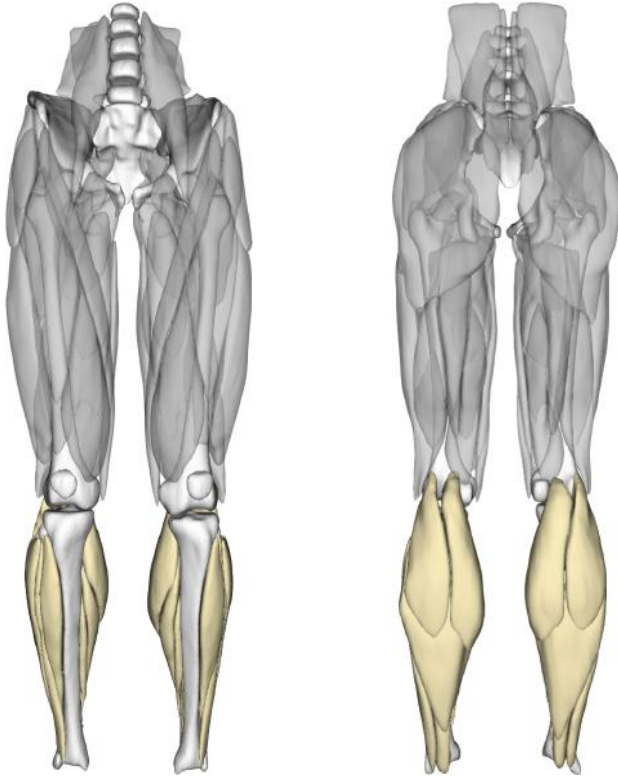


Height | 0ft 0in

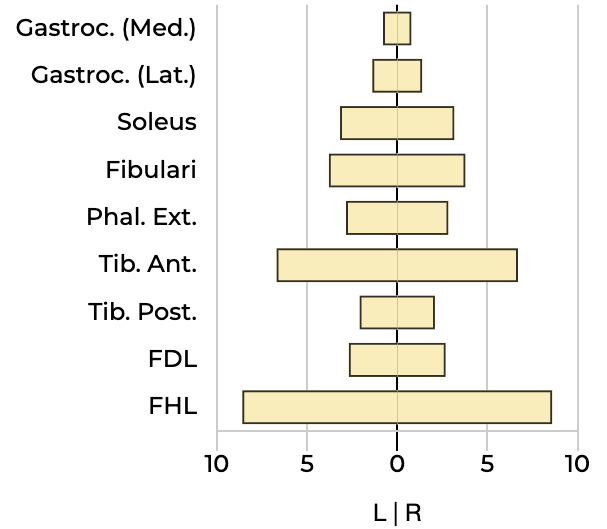
Weight | 000lbs

Scan Date | MM.DD.YYYY

### Asymmetry Profile



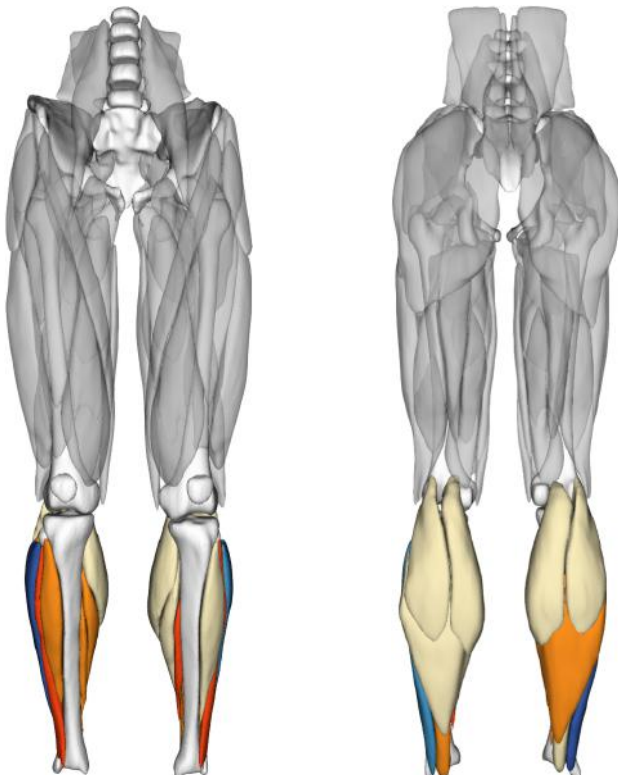
L-R Asymmetry (%)



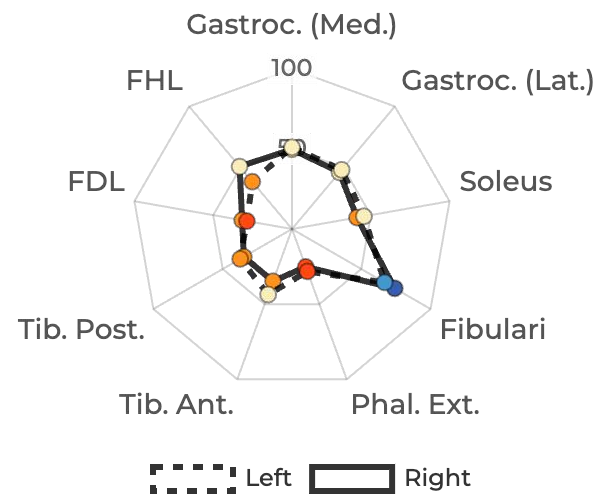
L | R Asymmetry



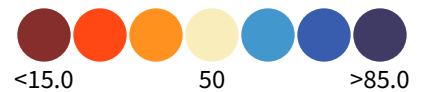
### Development Profile



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## Interactive Viewer

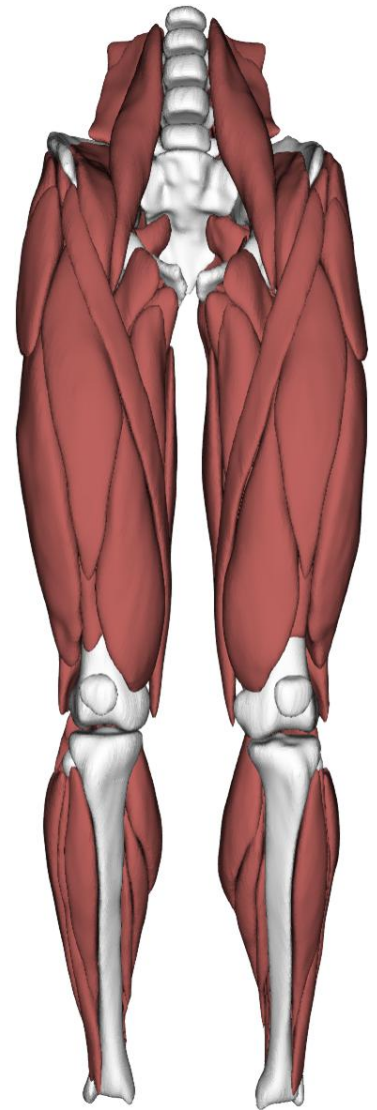
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For an interactive and in-depth view of your study, please visit the Interactive Viewer at [app.springbokanalytics.com](http://app.springbokanalytics.com).

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### Features Include:

- Interactive anatomical structures
  - Interactive data presentation
  - Multiple viewing modes for examination of muscle characteristics
  - In-depth anatomy database
  - Access to original DICOM images
  - Study comparison mode
  - Integrated screen capture function
  - Export feature to download data
  - Feedback and suggestions portal
- 



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