

Introduction

Each lab has a different data collection protocol, however, there are some important data collection requirements to use the IORGait application.

This section describes requirements such as the marker set specific to the gait analysis. The requirements for completing the foot analysis can be found [here](#).

Lab Setup - Before the Patient Arrives

1. Calibrate you capture volume as recommended by your camera's manufacturer.
2. Zero your force plates.
3. Set up all materials that you will need for the capture including, but not limited to: at least 36 markers, with adhesives attached; scale; and measuring tape for height. The referring physician may request other measurements, so you should discuss these prior to the subject's visit.

Subject Setup - Marker Placement

The IOR marker set is comprised of 36 markers. It is best if marker placement done by an individual who is experienced with palpating anatomical positions.

The anatomical location of each target is referenced to the description in the [Color Atlas of Skeletal Landmark Definitions](#). This text is useful for further description of target location as well as recommendations for palpation.

Marker Placement (Lateral View)	Marker Name	Description	Reference Page	L1RCA	L1RTHIGH	Distal point of the femoral epiphysis	L1RANK	Proximal point of the humeral epiphysis	L1RSPINE	Spinous process of the seventh cervical vertebrae	L1RSCAP	Second thoracic vertebrae	L1RSTERN	Midpoint between the anterior superior iliac spine and the umbilicus	L1RIL	First lumbar vertebrae	L1RLL	Third lumbar vertebrae	L1RSL	Fifth lumbar vertebrae	L1RISAC	Left/right anterior superior iliac spine	L1RIPSAC	Most lateral prominence of the greater trochanter	L1RIPS	Left/right posterior iliac spine	L1RIPSL	Most lateral prominence of the lateral femoral epiphysis	L1RIPF	Most medial prominence of the medial femoral epiphysis	L1RIPAX	Proximal tip of the humeral head	L1RITC	Most anterior border of the iliac tuberosity	L1RIFAL	Lateral prominence of the lateral malleolus	L1RITAN	Most medial prominence of the medial malleolus	L1RIPNS	Dorsal margin of the fifth metatarsal head	L1RIPNC	Dorsal aspect of the second metatarsal head	L1RIPNC	Dorsal aspect of the first metatarsal head	L1RIPCC	Aspect of the bony border on the calcaneus
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References

1. [↑](#) [1.00](#) [1.01](#) [1.02](#) [1.03](#) [1.04](#) [1.05](#) [1.06](#) [1.07](#) [1.08](#) [1.09](#) [1.10](#) [1.11](#) [1.12](#) [1.13](#) [1.14](#) [1.15](#) [1.16](#) [1.17](#) [1.18](#) [1.19](#) [1.20](#) [1.21](#) Serge van Sint Jan “Color Atlas of Skeletal Landmark Definitions: Guidelines for Reproducible Manual and Virtual Palpations” 2007 - Churchill Livingstone

Data Collection

Static Trial

During the static trial, the subject should:

1. Stand stationary 2. Feet on one or two of the force platforms 3. Comfortable stance 4. Feet shoulder width apart 5. Arms out to so that markers are not occluded During the static trial, the user should:

1. Instruct the subject where to stand and in what posture 2. Collect approximately a three second trial using the motion capture software while the subject is stationary 3. Instruct the subject to relax 4. Label the static trial to ensure all targets appear If all targets have been placed on the subject, if not, collect a new static trial, or overwrite the original static trial

Dynamic Gait Trials

Collect dynamic trials:

1. Have the patient start at one end of the capture volume and have them walk across the force plates at a self selected normal speed. 2. Collect at least one good foot strike per gait trial. [Click here to find out more information about a "good" foot strike](#) 2. Make sure: 1. No targets fall off the subject during data collection 2. Targets do not become occluded due to clothing, etc. To complete the IORgait analysis, at least two clean foot strikes (one right, one left) must be collected. However, the total number of trials collected is an individual lab decision. Many users collect at least five clean foot strikes for the left and five for the right. The amount of trials this requires may depend on the number of force platforms in your lab.

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