



## **Bubba Watson and PING Golf - Motion Analysis Laboratory**

The Motion Analysis Laboratory at Phoenix Children's Hospital is the only laboratory of its kind in Arizona focusing on the needs of young athletes and children with muscle/movement disorders. The facility uses state-of-the-art equipment to measure real 2D and 3D motion, force, and muscular activity.

Motion analysis uses engineering, entertainment technology, and medical expertise to study a person's movement patterns and muscle activity. The Motion Analysis Lab can be used to evaluate children and young adults with injuries and conditions related to:

- Knee injuries
- Patellar instability
- Balance problems
- Foot injuries
- Movement impairments

At Phoenix Children's we will use motion analysis to determine the best orthopedic treatment for your child. A Motion Analysis Lab session consists of a series of exams, tasks and activities that may tire, but not hurt your child. After the testing session, all of the information is collected, analyzed, and reviewed by Motion Analysis Lab staff - consisting of engineers, physical therapists and orthopedic surgeons - to create a customized treatment plan for your child. Our goal is to reach the best possible outcome for each of our patients and families.

You can expect your Motion Analysis Lab visit to last about 1.5 - 3 hours. The child will be asked to walk both barefoot and with braces, if appropriate. If your child normally uses an aide such as a walker or crutches, bring these to use during the Motion Analysis Lab session. Parents/Guardians are encouraged to join us for their child's appointment. Our staff will be glad to answer any questions you may have during that time.

#### **On the day of the evaluation, please . . .**

- Check-in at the 1st floor Reception Desk.
- Make sure your child is healthy and well rested.
- Make sure your child has had a good meal prior to their appointment.
- Bring any braces you have. If your child has a brace that they were prescribed but do not wear anymore due to ill fit or pain, bring it anyway.

#### **What to wear...**

- The child's shorts must be tight fitting. We recommend athletic/spandex shorts and a tank top. Spandex shorts can be worn under basketball shorts until it's time for the gait study. NO denim or loose fitting shorts please. We recommend girls wear a tight fitting top, sports bra, tank top or swimsuit, depending on their comfort level. The staff will be placing markers, electrodes and other devices on certain parts of your body, which is why we ask for this type of clothing.
- Bring a hair tie. A marker is placed on the neck and any hair covering the neck will need to be pulled up so as not to impact the results.
- Have your child wear lace up athletic shoes.

**If you have any questions, you can email [motionlab@phoenixchildrens.com](mailto:motionlab@phoenixchildrens.com) or call (602) 933-3090**

