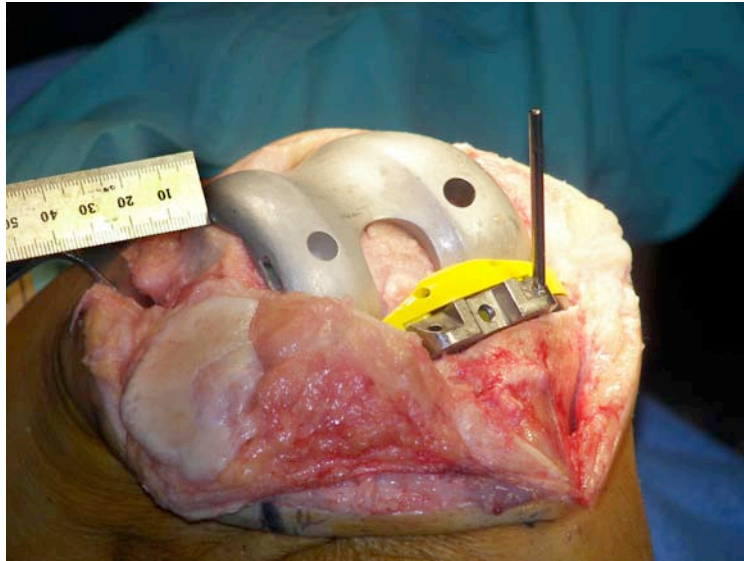


# Athletic Knee Implant Research

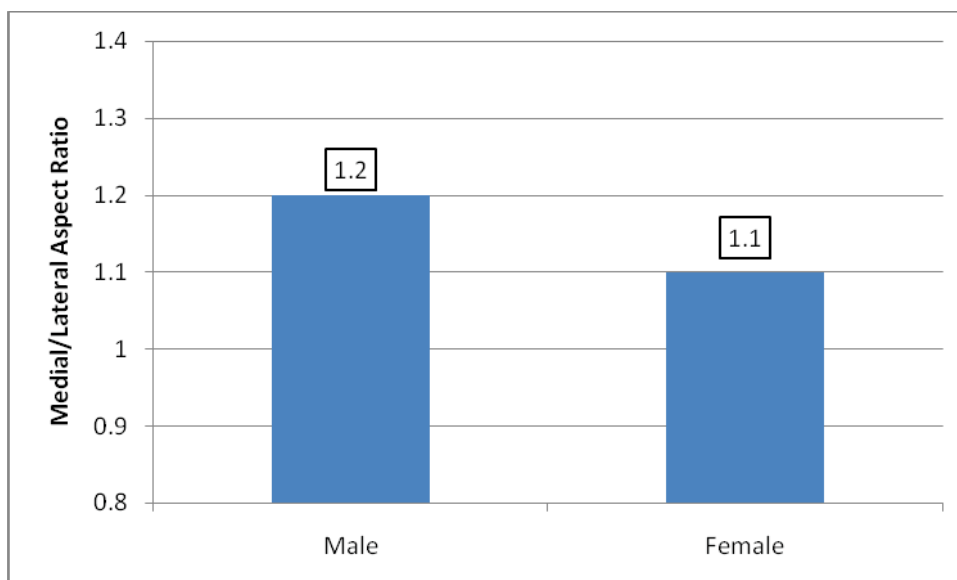
## Optimized Bone Coverage Research Study

The purpose of this study is to measure and compare the medial to lateral (side-to-side) femoral dimensions between men and women, and determine the extent of bone coverage (i.e., both undercoverage and overcoverage) of the Triathlon and Duracon knee implants (Stryker Orthopaedics) in these patients. The results of the study can be used to further optimize the shape and size of both female and male knee implants in order to increase bone integration and resealing of the bone environment. One of the measurements taken in the study is shown in Figure 1.



**Figure 1.** Measuring uncovered bone, lateral to trial implant.

The need for improved, male gender-specific implants is important for advancing short-term and especially long-term implant performance. Improved bone integration, hemostasis, and complete elimination of pain are important objectives.



**Figure 2.** Result of gender-specific measurements in 50 female and 50 male patients.

\*Unpublished study of 50 women and 50 men.