Methods
Ten MaxFire™ soft anchor implants were inserted into bovine meniscus, five using the MaxFire™ MarXmen™ inserter device and five using the current MaxFire™ inserter in a horizontal mattress stitch configuration. A #2 Maxbraid™ suture loop was passed under the two strands of the MaxFire™ implant connecting the two size #5 polyester anchors, as seen in Figure 1 below. The pull strand of the ZipLoop™ implant was then tensioned to remove any present slack.

Results
The MaxFire™ device with ZipLoop™ Technology produced average pullout strength of 28.358 lbf. The MaxFire™ MarXmen™ device trials resulted in an average of 32.271 lbf. These averages are reflected in Figure 2 below.

Discussion
The data demonstrates that the new MaxFire™ insertion device replacement, the MaxFire™ MarXmen™ device, has comparable average suture anchor pullout strengths. When evaluating the statistical significance, an unpaired t-test was used. By conventional criteria, the difference is considered to be not statistically significant.