

EVIDENCE MATTERS

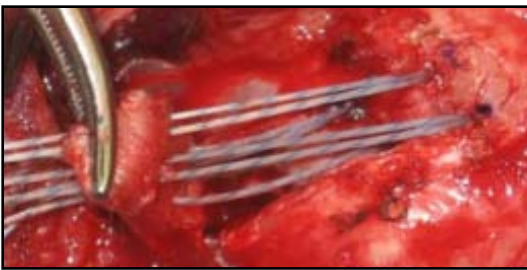
RESEARCH BULLETIN

Histological Analysis of ICONIX Anchors

TOP-LEVEL SUMMARY

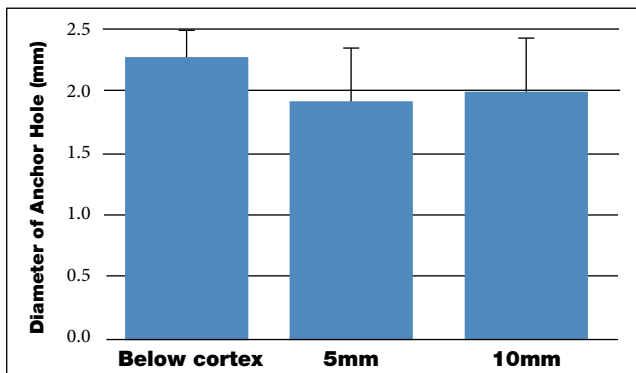
At 6-weeks post surgery, ICONIX 1 anchors used to repair an infraspinatus tendon in sheep demonstrated no inflammatory response.

METHODS

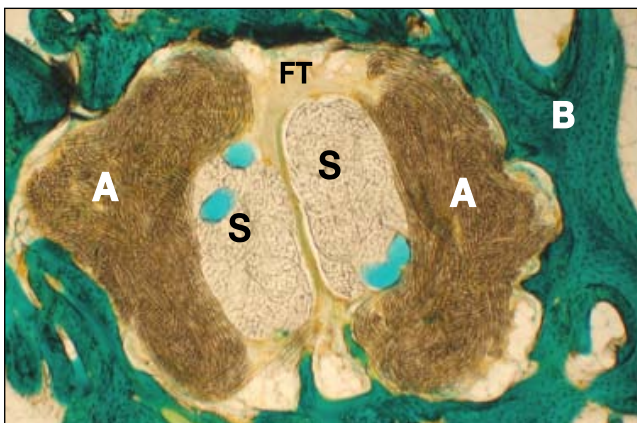


A partial tear was created in the infraspinatus tendon of two sheep. The picture shows the tendon being reattached using four ICONIX 1 all-suture anchors. After 6 weeks, the sheep were euthanized and the implant site was dissected and fixed in formalin. After scanning with microCT, the specimens were processed for nondecalcified histological evaluation and stained using Goldner's trichrome.

RESULTS



MicroCTs were used to measure the diameter of the implant site at three locations: just below the cortex, 5 mm, and 10 mm into the cancellous bone. The original drill hole depth for anchor implantation was 15 mm. The original drill hole diameter was created with a 1.4 mm drill. The graph shows the average diameter of the implant site at each level after 6 weeks.¹



Histologically, the all-suture anchors were surrounded by fibrous tissue (FT) into which were extending a “few nests of bone”. The histomicrograph shows bone (B) stained blue, surrounding the bunched up polyester sheath of the anchor (A) as darker brown fibers, and the two polyethylene suture strands (S) as lighter fibers with light blue markings. There is “no measurable response by inflammatory cells”²

CLINICAL RELEVANCE

After 6 weeks implantation in sheep, the ICONIX 1 anchors demonstrated **good maintenance of original drill hole diameter and no inflammatory response.**



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References

1. Histopathology Report Infrapinatus Anchor Study, Jack Taylor, DVM, PhD, May 2013.
2. Technical Report RD13-052

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