



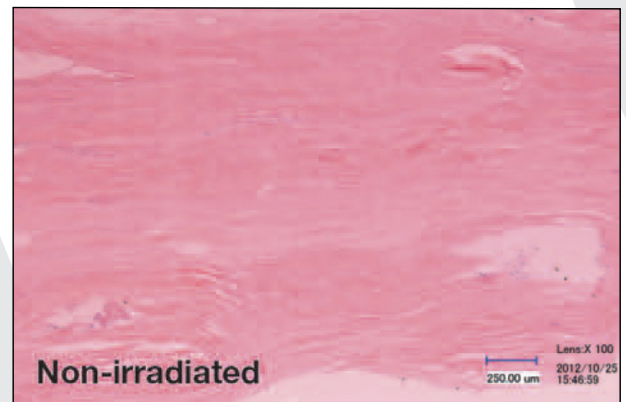
ParametricsMedical

Coll-e-Strong™

Electron Beam (E-Beam) Collagen Review

No Observed Biomechanical Differences

- Tendon sections stained with Hematoxylin and Eosin (H&E) were examined by a blinded observer for differences in structural attributes and staining characteristics
- Consistent, tightly aligned collagen fiber matrices were observed in all specimens
- E-Beam sterilization did not alter tendon structure

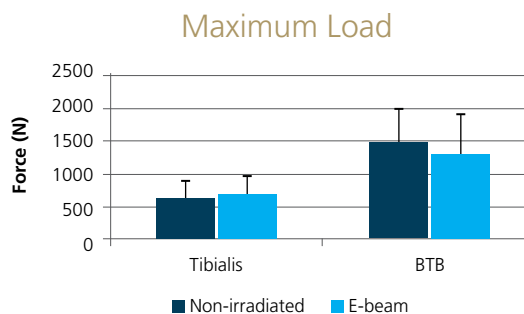
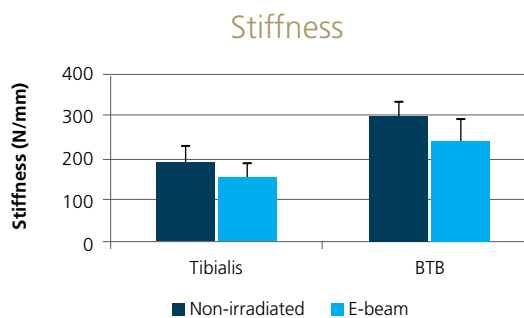
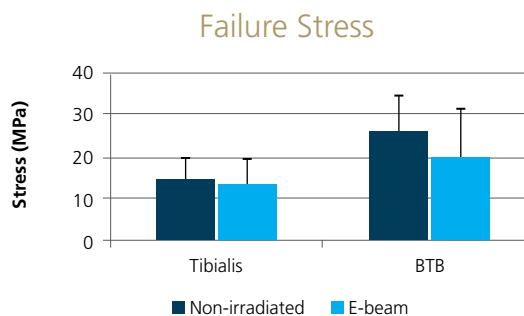


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- The material properties—stress and strain at failure and elastic modulus—of E-Beam sterilized tibialis and BTB allografts were not significantly different from that of non-irradiated tendons
- The structural properties—maximum load, maximum displacement, and stiffness—of E-Beam sterilized tibialis and BTB allografts were not significantly different from that of non-irradiated tendons
- The elongation of E-Beam sterilized tibialis and BTB allografts under subfailure loading was not significantly different from that of non-irradiated tendons



1. Elenes, EY, Hunter, SA. Soft tissue allografts terminally sterilized with an electron beam are biomechanically equivalent. Journal of Bone and Joint Surgery. 2014 Aug; 96-A; 1322-1324



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