**Supplemental Material**

Table 3. Previous studies involving artificial tendons and the method of attachment used.

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| S/n | Year | Authors | Focus of the study | Suture anchor | Outcome |
| 1. | 2010 | (Melvin et al., 2010) | Replaced goat semitendinosus tendon with an artificial material (OrthoCoupler) | The method of attachment was not specifically stated. | Fatigue strengthof the OrthoCoupler was several times the contractile force of the semitendinosus muscle. |
| 2. | 2012 | (Melvin et al., 2012) | Replaced quadriceps tendon with the OrthoCoupler in a goat. | The OrthoCoupler was attached to a stainless steel bone plate on the tibia. | Mechanical testing of the myotendinous junction showed superior strength compared with the biological myotendon interface after 180 days. |
| 3. | 2024 | (Easton et al., 2024) | Replaced tibialis cranialis biological tendon with polyester silicone-coated artificial tendon in rabbits. | 2 mm × 6 mm bone suture anchor (Jorgenson Laboratories, Loveland, CO,USA) , with a size 2 FiberWire suture (Arthrex Inc. Naples, FL). | The suture anchors held the artificial tendon securely to the bone in the rabbits and the artificial tendon restored normative biomechanical function in the rabbits. |
| 4. | 2024 | (Hsu et al., 2024) | Rotator cuff repair surgery on goat shoulders. | Custom-made MgF2-coated ZK60 suture anchor | Reestablished the connection between the detached infraspinatus tendon and the humeral head, with demonstrable osseointegration. |

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Hsu, W.-C., Wu, G.-L., & Yeh, M.-L. (2024). Fixation technique of biodegradable magnesium alloy suture anchor in the rotator cuff repair of the shoulder in a goat model: a technical note. *BMC Musculoskeletal Disorders*, *25*(1), 246. <https://doi.org/10.1186/s12891-024-07300-9>

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