**Supplementary Tables**

**Supplementary Table 1:** Experimental Groups and Replicates assayed for outcome measures.

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| --- | --- | --- | --- |
| **Experimental group** | **Histology/IHC2** | **qt-PCR Arrays3** | **Biomechanics4** |
| **Un-Injured (UI)1** | N = 3 | N = 3 (16,16,20) | N = 8 |
| **3 days (3 d)** | N = 3 | N = 2 (14,16) | not determined |
| **9 days (9 d)** | N = 3 | N = 2 (16,16) | not determined |
| **25 days (25 d)** | N = 3 | N = 3 (16,16,18) | N = 9 |
| **Oral IBU 3-25 days (E-IBU)** | N = 3 | N = 3 (16,16,18) | N = 11 |
| **Oral IBU 9-25 days (L-IBU)** | N = 3 | N = 3 (14,16,18) | N = 11 |
| **Oral IBU 3-25 days (UI-IBU)** | N = 3 | N = 2 (16,18) | N = 9 |
| **Number of Mice** | 21 | 238 | 48 |

1UI for Histology and qPCR 12-week-old mice; UI for Biomechanics 16-week-old mice; 2Individual legs; 3Replicate Tissue pools with number of tendons per pool in parenthesis; 4Individual Tendons.