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| **SUPPLEMENTARY DATA. TABLE S1. DTZ Vs VEH Pre-Injury Torque** |
|  | **DTZ Mean****(95% CI)** | **VEH Mean****(95% CI)** | **P value** | **Significant** |
| **1 Hz** | 37 (33.13, 40.87) | 28.5(24.11, 32.89) | 0.004 | YES |
| **5 Hz** | 37 (32.80, 41.20) | 28.17(23.05, 33.28) | 0.009 | YES |
| **10 Hz** | 37.17 (32.79, 41.54) | 28.5(24.94, 32.06) | 0.004 | YES |
| **30 Hz** | 41 (37.13, 44.87) | 32.67(28.04, 37.3) | 0.004 | YES |
| **50 Hz** | 70.83 (70.51, 81.16) | 70.83(59.37, 82.28) | 0.589 | NO |
| **75 Hz** | 93.17 (89.45, 96.87) | 91.5(86.41, 96.59) | 0.589 | NO |
| **100 Hz** | 97.5(95.13, 99.87) | 96.83(93.05, 100.61) | 0.937 | NO |
| **125 Hz** | 98.17(96.62, 99.71) | 98.17(95.24, 101.09) | 0.589 | NO |
| **150 Hz** | 99.17(97.49, 100.85) | 98.83(97.15, 100.51) | 0.699 | NO |
| **200 Hz** | 95.83(93.4, 98.26) | 95.33(92.54, 98.12) | 0.589 | NO |
| **300 Hz** | 90.5(87.07, 93.93) | 89.83(83.7, 95.97) | 0.589 | NO |
| **Rev 1Hz** | 38.67(37.4, 39.94) | 33.17(29.39, 36.95) | 0.009 | YES |

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| **SUPPLEMENTARY DATA. TABLE S2. DTZ Vs VEH Immediate Post-Injury Torque** |
|  | **DTZ Mean****(95% CI)** | **VEH Mean****(95% CI)** | **P value** | **Significant** |
| **1 Hz** | 12.67 (11.08, 14.25) | 8.17(7.38, 8.96) | 0.002 | YES |
| **5 Hz** | 12.17 (10.36, 13.97) | 7.83(6.8, 8.87) | 0.004 | YES |
| **10 Hz** | 11.83 (10.29, 13.38) | 7.5(6.62, 8.38) | 0.002 | YES |
| **30 Hz** | 12.5 (10.77, 14.22) | 7.67(6.81, 8.52) | 0.002 | YES |
| **50 Hz** | 22.33 (18.78, 25.89) | 13.67(10.96, 16.38) | 0.002 | YES |
| **75 Hz** | 46.17 (43.10, 49.24) | 31.67(26.5, 36.84) | 0.002 | YES |
| **100 Hz** | 52.33(48.84, 55.82) | 45.17(40.14, 50.2) | 0.015 | YES |
| **125 Hz** | 56(54.51, 57.48) | 51.83(47.26, 56.40) | 0.132 | NO |
| **150 Hz** | 58.67(55.11, 62.22) | 54.5(49.91, 59.09) | 0.132 | NO |
| **200 Hz** | 55.33(53.62, 57.05) | 55.17(50.5, 59.83) | 0.937 | NO |
| **300 Hz** | 48.83(43.80, 53.86) | 51.33(46.47, 56.2) | 0.818 | NO |
| **Rev 1Hz** | 10.67(9.23, 12.1) | 7(6.34, 7.66) | 0.002 | YES |

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| **SUPPLEMENTARY DATA. TABLE S3. DTZ Vs VEH Day 3 Post-Injury Torque** |
|  | **DTZ Mean****(95% CI)** | **VEH Mean****(95% CI)** | **P value** | **Significant** |
| **1 Hz** | 11 (8.80, 13.20) | 8.67(6.4, 10.93) | 0.180 | NO |
| **5 Hz** | 10.33 (8.75, 11.91) | 8.67(7.09, 10.25) | 0.180 | NO |
| **10 Hz** | 10.33 (8.27, 12.40) | 8(6.67, 9.33) | 0.026 | YES |
| **30 Hz** | 13.33 (7.19, 19.48) | 11(7.75, 14.25) | 0.818 | NO |
| **50 Hz** | 23.17 (18.18, 28.15) | 20.5(16.70, 24.3) | 0.394 | NO |
| **75 Hz** | 32.67(25.36, 39.35) | 26.17(21, 31.33) | 0.132 | NO |
| **100 Hz** | 36.5(27.10, 45.90) | 27.83(22.89, 32.77) | 0.065 | NO |
| **125 Hz** | 36.5(26.96, 46.04) | 29(23.65, 34.35) | 0.093 | NO |
| **150 Hz** | 37.5(25.95, 49.05) | 31(26.96, 35.04) | 0.180 | NO |
| **200 Hz** | 35.17(24.33, 46) | 28.17(23.41, 32.93) | 0.240 | NO |
| **300 Hz** | 31.83(19.5, 44.17) | 25.33(19.48, 31.18) | 0.310 | NO |
| **Rev 1Hz** | 10.17(7.83, 12.51) | 8.33(5.97, 10.7) | 0.310 | NO |

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| **SUPPLEMENTARY DATA. TABLE S4. H&E - Damaged Fibers (% Total)** |
|  | **DTZ Mean****(95% CI)** | **VEH Mean****(95% CI)** | **P value** | **Significant** |
| **Uninjured** | 0.37(0.18, 0.55) | 0.41(0.29, 0.52) | 0.75 | NO |
| **Injured** | 40.13(28.62, 51.63) | 38.64(31.61, 45.66) | 0.63 | NO |

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| **SUPPLEMENTARY DATA. TABLE S5. IgG (+) and Desmin (-) Fibers (% Total)** |
|  | **DTZ Mean****(95% CI)** | **VEH Mean****(95% CI)** | **P value** | **Significant** |
| **Uninjured** | 0.10(0, 0.21) | 0.20(0.2, 0.38) | 0.52 | NO |
| **Injured** | 40.75(29.5, 52.04) | 40.5(37.23, 43.76) | 0.87 | NO |