**Supplemental Digital Content Table 5.** *Scheffe's pairwise comparisons of injury severity group differences in mean diffusivity*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Contrasts | *M*D | *SE*D | *t* | *p* | 95% CI | |
| *LL* | *UL* |
| Genu of CC |  |  |  |  |  |  |
| cmTBI > OI | .008 | .015 | 0.51 | .878 | -.031 | .047 |
| **msTBI > OI** | **.043** | **.013** | **3.32** | **.007** | **.010** | **.075** |
| msTBI > cmTBI | .035 | .014 | 2.51 | .051 | .000 | .070 |
| Right UF |  |  |  |  |  |  |
| cmTBI > OI | .012 | .013 | 0.91 | .662 | -.022 | .046 |
| **msTBI > OI** | **.031** | **.011** | **2.75** | **.029** | **.003** | **.059** |
| msTBI > cmTBI | .019 | .012 | 1.53 | .317 | -.012 | .049 |
| Right SS |  |  |  |  |  |  |
| cmTBI < OI | -.006 | .016 | -0.35 | .942 | -.047 | .036 |
| **msTBI > OI** | **.045** | **.014** | **3.26** | **.008** | **.010** | **.080** |
| **msTBI > cmTBI** | **.051** | **.015** | **3.40** | **.005** | **.013** | **.088** |
| Left SS |  |  |  |  |  |  |
| cmTBI < OI | -.007 | .012 | -0.57 | .850 | -.037 | .023 |
| **msTBI > OI** | **.035** | **.010** | **3.46** | **.005** | **.010** | **.060** |
| **msTBI > cmTBI** | **.042** | **.011** | **3.84** | **.002** | **.014** | **.069** |
| Right ACR |  |  |  |  |  |  |
| cmTBI > OI | .007 | .016 | 0.41 | .919 | -.034 | .047 |
| **msTBI > OI** | **.040** | **.013** | **2.97** | **.017** | **.006** | **.073** |
| msTBI > cmTBI | .033 | .014 | 2.29 | .081 | -.003 | .069 |
| Left ACR |  |  |  |  |  |  |
| cmTBI > OI | .000 | .014 | -0.03 | 1.000 | -.036 | .036 |
| **msTBI > OI** | **.037** | **.012** | **3.08** | **.013** | **.007** | **.067** |
| **msTBI > cmTBI** | **.037** | **.013** | **2.89** | **.021** | **.005** | **.070** |
| Right ALIC |  |  |  |  |  |  |
| cmTBI < OI | -.004 | .011 | -0.38 | .932 | -.031 | .023 |
| msTBI > OI | .020 | .009 | 2.25 | .089 | -.002 | .043 |
| msTBI > cmTBI | .025 | .010 | 2.50 | .052 | .000 | .049 |
| Left ALIC |  |  |  |  |  |  |
| cmTBI < OI | -.004 | .007 | -0.50 | .881 | -.021 | .014 |
| msTBI > OI | .013 | .006 | 2.14 | .111 | -.002 | .028 |
| **msTBI > cmTBI** | **.016** | **.006** | **2.54** | **.048** | **.000** | **.032** |

Note. OI = orthopedic injury. cmTBI = complicated mild traumatic brain injury. msTBI = moderate-to-severe traumatic brain injury. CC = corpus callosum. UF = uncinate fasciculus. SS = sagittal striatum. ACR = anterior corona radiata. ALIC = anterior limb of the internal capsule. Bold text indicates a significant pairwise comparison. Contrasts for pathways where the overall model was not significant (see Table S2) are not included in the table.