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| Supplementary Table 2. Main Effects for BMI and Injury Groups for Non-Normalized Forces and Moments |
|  | BMI Groups | Injury Groups |
|  | High BMI (n=102) | Normal BMI (n=200) | ACLR (n=196) | Controls (n=106) |
| Peak vGRF (N) | 896.8±153.8 a,b | 685.1±103.6 | 774.9±162.7 c  | 722.8±144.8 |
| Peak vGRF-LR (N/s) | 10980.2±2531.0 b | 8821.9±2011.7 | 9794.7±2265.7 | 9099.9±2641.7 |
| Peak KEM (Nm) | -38.6±21.9 a,b | -29.3±15.8 | -31.7±18.9 | -34.0±17.9 |
| Peak KAM (Nm) | -33.3±13.6 a,b | -27.3±8.9 | -29.6±11.5 | -28.6±10.2 |
| BMI – Body mass index, ACLR - Anterior cruciate ligament reconstruction, vGRF – Vertical ground reaction force, vGRF-LR – instantaneous vertical ground reaction force loading rate, KEM – internal knee extension moment, KAM – internal knee abduction moment a Significantly different compared to normal BMI (unadjusted model) at p ≤ 0.05b Significantly different compared to normal BMI (adjusted model) at p ≤ 0.05c Significantly different compared to controls (adjusted model) at p ≤ 0.05 |