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| SDC Table 1. Regression coefficients and model R2 when predicting energy absorption (EAHIP, EAKNEE, and EAANK) with lower extremity lean mass (LELM; % body mass) for females and males. |
| **FEMALES** |
| **Variable** | **Unstandardized Beta** | **Standard Error** | **Standardized Beta** | **t-value** | **Adjusted R2** | **p-value** |
| **Hip Energy Absorption (J\*N-1\*m-1)** |  |
|  | Intercept | 0.033 | 0.019 |  | 1.750 |  |  |
|  | LELM | -0.023 | 0.078 | -0.052 | -0.298 | -0.028 | 0.768 |
| **Knee Energy Absorption (J\*N-1\*m-1)** |  |
|  | Intercept | 0.005 | 0.034 |  | 0.157 |  |  |
|  | LELM | 0.364 | 0.144 | 0.402\* | 2.520 | 0.136\* | 0.017 |
| **Ankle Energy Absorption (J\*N-1\*m-1)** |  |
|  | Intercept | 0.042 | 0.021 |  | 2.022 | -0.023 | 0.621 |
|  | LELM | -0.043 | 0.087 | -0.087 | -0.500 |  |   |
| **MALES** |
| **Variable** | **Unstandardized Beta** | **Standard Error** | **Standardized Beta** | **t-value** | **Adjusted R2** | **p-value** |
| **Hip Energy Absorption (J\*N-1\*m-1)** |
|  | Intercept | -0.013 | 0.036 |  | -0.369 |  |  |
|  | LELM | 0.179 | 0.124 | 0.244 | 1.444 | 0.031 | 0.158 |
| **Knee Energy Absorption (J\*N-1\*m-1)** |
|  | Intercept | 0.084 | 0.058 |  | 1.454 |  |  |
|  | LELM | 0.048 | 0.197 | 0.042 | 0.242 | -0.028 | 0.810 |
| **Ankle Energy Absorption (J\*N-1\*m-1)** |
|  | Intercept | 0.088 | 0.025 |  | 3.468 |  |  |
|  | LELM | -0.177 | 0.087 | -0.332 | -2.025 | 0.068 | 0.051 |
| \* Significant coefficient or model (p<.05) |