|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| N = 40 |  | Carried load | | |  |  | |
|  |  | No load | 15 kg | 30 kg |  | F | p-value |
| Medial KJCF first peak |  | 3.07 ± 0.69 | 3.38 ± 0.83\* | 3.68 ± 0.80\* |  | 6.55 | 0.002 |
| Medial KJCF second peak |  | 2.37 ± 1.11 | 2.36 ± 1.08 | 2.37 ± 0.96 |  | 0.00 | 0.999 |
| Lateral KJCF peak |  | 2.22 ± 0.94 | 2.68 ± 0.89\* | 2.79 ± 0.71\* |  | 4.89 | 0.009 |
| Total KJCF first peak |  | 3.83 ± 1.02 | 4.00 ± 1.13 | 4.30 ± 1.03 |  | 2.10 | 0.127 |
| Total KJCF second peak |  | 4.10 ± 1.45 | 4.66 ± 1.33\* | 5.26 ± 1.42\*^ |  | 6.64 | 0.002 |

\* significantly greater than no load condition. ^ significantly greater than 15 kg condition

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N = 60 |  | Walking speed | |  |  | |
|  |  | Moderate | Fast |  | F | p-value |
| Medial KJCF first peak |  | 3.15 ± 0.78 | 3.61 ± 0.78\* |  | 11.26 | 0.001 |
| Medial KJCF second peak |  | 2.49 ± 1.03 | 2.24 ± 1.05 |  | 1.72 | 0.192 |
| Lateral KJCF peak |  | 2.57 ± 0.92 | 2.56 ± 0.84 |  | 0.01 | 0.934 |
| Total KJCF first peak |  | 3.75 ± 0.96 | 4.33 ± 1.10\* |  | 9.59 | 0.002 |
| Total KJCF second peak |  | 4.65 ± 1.51 | 4.69 ± 1.44 |  | 0.02 | 0.900 |

\* significantly greater than moderate walking speed value

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N = 80 |  | Armour type | | | |  |  | |
|  |  | TBAS | cARM1 | cARM2 | pARM1 |  | F | p-value |
| Medial KJCF first peak |  | 3.62±0.91 | 3.69±0.85 | 3.57±0.87 | 3.51±0.74 |  | 0.74 | 0.529 |
| Medial KJCF second peak |  | 2.37±1.04 | 2.34±1.17 | 2.13±1.05 | 2.19±1.22 |  | 0.87 | 0.456 |
| Lateral KJCF peak |  | 2.77±0.84 | 2.87±0.81 | 2.91±0.82 | 2.67±0.84 |  | 1.33 | 0.264 |
| Total KJCF first peak |  | 4.44±1.21 | 4.57±1.18 | 4.57±1.12 | 4.41±1.06 |  | 0.47 | 0.703 |
| Total KJCF second peak |  | 4.88±1.34 | 5.01±1.37 | 4.86±1.45 | 4.82±1.38 |  | 0.29 | 0.830 |