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| *Right versus left arm – entire cohort (n = 18)* | | | |
|  | **Right Arm** | **Left Arm** | **P-value** |
| Mean systolic blood pressure (mm Hg) | 125 +/- 13 | 115 +/- 16 | p = 0.003 |
| Mean diastolic blood pressure (mm Hg) | 80 +/- 11 | 73 +/- 13 | p = 0.013 |
| ***Bone Metrics*** |  |  |  |
| Humeral length (mm) | 31.9 +/- 2.3 | 23.9 +/- 1.8 | p = 0.014 |
| Radial length (mm) | 23.9 +/- 1.8 | 23.7 +/- 1.8 | p = 0.069 |
| Ulnar length (mm) | 26.2 +/- 1.8 | 25.8 +/- 1.7 | p = 0.001 |
| ***Muscle Metrics*** |  |  |  |
| Upper arm muscle volume (mls) | 476.3 +/- 140.8 | 437.1+/- 121.9 | p = 0.001 |
| Upper arm MCSA (cm/2) | 43.1 +/- 13.2 | 40.4 +/- 12.4 | p = 0.003 |
| Lower arm muscle volume (mls) | 607.0 +/- 183.9 | 542.6 +/- 148.7 | p<0.001 |
| Lower arm MCSA (cm/2) | 42.3 +/- 12.1 | 37.9 +/- 9.6 | p<0.001 |
| ***Ultrasound Metrics*** |  |  |  |
| Pre-cuff flow mean (ml/min) | 100.4 +/- 52.9 | 65.7 +/- 33.8 | p = 0.003 |
| Post-cuff flow mean (ml/min) | 378.3 +/- 141.2 | 288.4 +/- 66.3 | p = 0.010 |
| Baseline arterial diameter (mm) | 3.9 +/- 0.7 | 3.3 +/- 0.4 | p = 0.003 |
| Percentage change in arterial diameter (%) | 6.1 +/- 3.0 | 7.4 +/- 3.7 | p = 0.198 |
| ***Functional Metrics*** |  |  |  |
| Purdue pegboard test | 15.9 +/- 1.4 | 15.3 +/- 1.8 | p = 0.082 |
| Nine-hole peg test | 17.6 +/- 1.6 | 18.0 +/- 2.1 | p = 0.345 |
| Box block test | 43.1 +/- 14.4 | 42.9 +/- 12.7 | p = 0.825 |
| JAMAR Grip strength test (lbs) | 94.0 +/- 28.0 | 83.7 +/- 24.8 | p <0.001 |
| \*MCSA - Maximal Cross-sectional Surface Area | | | |