**Supplementary DATA**

**Metabolic implications of diet and energy intake during physical inactivity**

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| Supplementary Table 3. Brachial artery FMD and 24-h ambulatory blood pressure |
| Parameter | **Control diet**(n=9) | **High-protein diet**(n=9) | **ANOVA** |
|  | Active | Δ | Active | Δ | *P* value |
| FMD (%) | 6.2 ± 1.2 | -0.2 ± 1.0 | 6.6 ± 0.7 | 0.4 ± 0.9 | D: *P*=0.32A: *P*=0.85DxA: *P*= 0.70 |
| Hyperemic shear rate (AUC)/1000 | 177.7 ± 19.6 | 26.3 ± 33.5 | 152.0 ± 22.4 | 9.6 ± 29.1 | D: *P*=0.26A: *P*=0.41DxA: *P*= 0.73 |
| Systolic blood pressure (mmHg) | 115 ± 3 | -3 ± 2\* | 118 ± 5 | -6 ± 3\* | D: *P*=0.38**A: *P*=0.008**DxA: *P*= 0.49 |
| Diastolic blood pressure (mmHg) | 66 ± 2 | -2 ± 1 | 68 ± 3 | -4 ± 2 | D: *P*=0.17A: *P*=0.07DxA: *P*= 0.50 |
| Heart rate (beats/min) | 65 ± 3 | -5 ± 2\* | 67 ± 3 | -8 ± 2\* | D: *P*=0.96**A: *P*=0.003**DxA: *P*= 0.14 |
| All values are means ± SEM. *\*P*<0.05 vs Active (within condition). D, diet; A, physical activity; DxA, diet x activity interaction. Two-way ANOVA with activity and diet as factors was used for statistical comparisons. Post hoc comparisons with Tukey correction were run when a significant main effect was observed. Δ, delta change (Inactive – Active). Bold values indicate statistical significance.  |