

Supplemental Table 1. Comparison of bone mineral characteristics at the distal femoral metaphysis from the contralateral limbs of animals undergoing ovariectomy (OVX) + hindlimb unloading (HLU) + reambulation (REAMB) + exercise (EX).

	Total			Trabecular			Cortical		
	BMC (mg/mm)	Bone Area (mm <sup>2</sup> )	BMD (mg/cm <sup>3</sup> )	BMC (mg/mm)	Bone Area (mm <sup>2</sup> )	BMD (mg/cm <sup>3</sup> )	BMC (mg/mm)	Bone Area (mm <sup>2</sup> )	BMD (mg/cm <sup>3</sup> )
Left Femur	9.9 ± 0.5	23.2 ± 0.8	427 ± 17	0.3 ± 0.1	6.9 ± 0.2	44 ± 10	5.4 ± 0.3	6.2 ± 0.3	870 ± 10
Right Femur	10.4 ± 0.8	22.7 ± 1.1	457 ± 25	0.6 ± 0.2	6.8 ± 0.3	88 ± 27	5.5 ± 0.4	6.3 ± 0.4	882 ± 10

Values are Means ± SEM from OVX+HLU+REAMB+EX animals, n = 9 bones per side. No significant differences were present between left and right limb for any measure. BMC = Bone mineral content, BMD = bone mineral density.