Sup Table.2B: A comparison between casein re-fed animals to whey re-fed animals following short-term (A) and long-term (B) experiments in all parameters (mean ± SD).

|  |  |  |  |
| --- | --- | --- | --- |
|   | ***LTCas-group*** | ***LTWhey-group*** |   |
| ***Anthropometric Parameters*** |  |  | ***p-value*** |
| Body Weight (gr) | 336.1±17.5 | 295.84±26.09 | *p<0.01* |
| Humerus Length (mm) | 26.6±0.4 | 25.92±0.6 | *p=0.013* |
| Epiphyseal Growth Plate (EGP) (mm) | 0.309±0.04 | 0.322±0.04 | *p=0.548* |
| ***Cortical Bone Parameters*** |  |  |  |
| AVD (%) | 62±3 | 58±4 | *p=0.018* |
| Tt.Ar (mm^2) | 4.6±0.28 | 3.86±0.22 | *p<0.01* |
| Ct.Ar (mm^2) | 3.36±0.19 | 2.75±0.22 | *p<0.01* |
| Ct.Ar./Tt.Ar (%) | 73±1 | 65±3 | *p=0.128* |
| Ct.Th (mm) | 0.60±0.02 | 0.54±0.04 | *p<0.01* |
| ***Three Point Bending***  |  |  |  |
| Toughness (Nm\*10-3) | 22.99±3.2 | 19.99±9.1 | *p=0.346* |
| Stiffness (N/mm) | 59±23.7 | 59.51±25.45 | p=0.948 |
| Fracture Load (N) | 43.59±13.37 | 39.27±14.81 | *p=0.196* |
| Ultimate Load (N) | 44.46±9.15 | 40.62±3.48 | *p=0.263* |
| ***Trabecular Bone Parameters*** |  |  |  |
| BV/TV (%) | 17±3 | 16±4 | *p=0.246* |
| Tb.Th (mm) | 0.08±0 | 0.07±0.01 | *p=0.084* |
| Tb.N (mm-1) | 2.01±0.48 | 1.77±0.42 | *p=0.201* |
| Tb.Sp (mm) | 0.56±0.13 | 0.63±0.13 | *p=0.201* |
| ***Serum Component*** |  |  |  |
| IGF-I (ng/ml) | 1358.28±95.72 | 1212.26±128.65 | *p<0.01* |
| Leptin (ng/ml) | 2.44±1.16 | 0.93±0.3 | *p=0.04* |
| Osteocalcin (ng/ml) | 38.38±5.69 | 31.65±3.10 | *p=0.119* |