

Online Resource 8. Pre-surgical serum measurements from SHAM and SCI animals.

| | TRAP5b (U/L) | Leptin (ng/ml) | Testosterone (ng/ml) | Sclerostin (ng/ml) | P1NP (ng/ml) | Osteocalcin (ng/ml) |
|-------------|-------------------------------|---------------------------------|---------------------------------------|-------------------------------------|-------------------------------|--------------------------------------|
| SHAM | 4.6 ± 0.2 | 8.5 ± 0.9 | 1.4 ± 0.1 | 422 ± 20 | 93 ± 6 | 460 ± 16 |
| SCI | 4.3 ± 0.2 | 8.8 ± 0.6 | 1.4 ± 0.2 | 411 ± 19 | 87 ± 5 | 448 ± 14 |

Values are Means ± SE, n=40/group. No differences were present between groups for any serum measurement at baseline.