Supplement Table 7. Biomechanical properties of Caudal 8 vertebrae at 18 month.

	Zero Time	HFWD	HFWD+AQ	
Stiffness (N/mm)	37 ± 11	215 ± 85	320 ± 80^{a}	
Max load (N)	9 ± 2	54 ± 17	76 ± 8^{a}	
Displacement ratio (mm)	0.56 ± 0.22	0.25 ± 0.13	0.31 ± 0.17	
Total Work Ideal (Nmm)	5 ± 1	20 ± 4	34 ± 13^{a}	

Each Caudal 8 vertebra was subjected to biomechanical testing. With each vertebra, 4 parameters were assessed. Values are means and standard deviation. Statistical significance was determined by paired group comparisons (p<0.05). "a" is placed on the HFWD+AQ group which shows statistically significant difference relative to the HFWD group. Vertebral data are based on 10 male mice in both diet groups at 18 months. Zero time mice (n=5) were 4 weeks old.