Table 1

Comparisons of demographic characteristics of participants in the case and control groups

Variables		Case Group (N=63)	Control Group (N=55)	p-value
Age, y		49.44 ± 12.771	50.02 ±9.670	0.784
Sex	Male	26 (41.26%)	29 (52.72%)	0.455
	Female	37 (58.73%)	36 (65.45%)	
Education	Illiterate/ Primary school	12 (19.04%)	16 (29.09%)	0.158
	High school	22 (34.92%)	18 (32.72%)	
	College	29 (46.03)	19 (34.54%)	
Job	Workless	33 (52.38%)	24 (43.63%)	0.668
	Employed	21 (33.33%)	27 (49.09%)	
	Retired	9 (14.28%)	4 (7.27%)	
Weight (Kg)		79.923±12.30	75.274±10.28	0.028
Height (cm)		165.507±8.48	164.019±9.08	0.336
BMI (Kg/m^2)		29.335±5.05	28.104±4.15	0.151
BMI category	Normal	15 (23.80%)	25 (45.45%)	0.527
	Over-weighted	29 (46.03%)	16 (29.09%)	
	Obese	19 (30.15%)	14 (25.45%)	
Waist Circumference (cm)		93.821±8.72	94.985	0.522
Hip Circumference (cm)		108.111±15.99	108.675±10.61	0.819
Waist to Hip Ratio		0.975±0.93	0.875±0.07	0.395
BMI	Normal	15 (23.80%)	25 (45.45%)	0.527
	Over-weighted	29 (46.03%)	16 (29.09%)	

	Obese	19 (30.15%)	14 (25.45%)	
Physical activity	Low	43 (68.3%)	25 (45.5%)	0.008
	Moderate	20 (31.7%)	27 (49.1%)	
	High	0 (00.00%)	3 (5.5%)	
Serum 25(OH) D (ng/ml)	<20	27 (42.85%)	8 (14.54%)	0.001
	20 to 30	14 (22.22%)	15 (27.27%)	
	>30	22 (34.92%)	32 (58.18%)	

Table 2

Multiple Logistic regression analysis of LBP predictor

Variable	Case	Control	crude OR (95% CI)	P-value	Adjusted OR* (95% CI)	p-value
Serum 25(OH) D (ng/ml) >30 <30	21 42	32 23	2.593 (1.231 to 5.463)	0.012	2.388 (1.114 to 5.119)	0.025

*OR adjusted for BMI, sex, age and physical activity