

Table S1: The status of type 2 diabetes patients in comparison to non-diabetic control individuals.

Variables	Disease Type		Chi square	P-value
	Control subjects (%)	Type 2 diabetes patients (%)		
Age				
11–20	2 (66.67)	1 (33.33)		
21–30	52 (88.14)	7 (11.86)		
31–40	34 (43.59)	44 (56.41)	106.89	<0.05
41–50	6 (8.82)	62 (91.18)		
>50	7 (11.86)	52 (88.14)		
Gender				
Male	81 (53.64)	70 (46.36)	36.96	<0.05
Female	20 (17.24)	96 (82.76)		
Occupation type				
On desk	61 (70.93)	25 (29.07)	59.11	<0.05
Non desk	40 (22.09)	141 (77.90)		
FTO polymorphism				
Homozygous A	30 (50.85)	29 (49.15)		
Heterozygous	41 (38.32)	66 (61.68)	7.59	0.023
Homozygous T	25 (28.41)	63 (71.59)		
Leptin polymorphism				
Homozygous G	31 (48.44)	33 (51.56)		
Heterozygous	37 (36.27)	65 (63.73)	3.64	0.162
Homozygous A	31 (34.07)	60 (65.93)		

Table S2: The effect of FTO rs9939609 and Leptin rs7799039 alleles on type 2 diabetes in Bangladeshi males and females.

Variables	Male			Female			
	Control subjects N (%)	Type 2 diabetes patients N (%)	P-value ^a	Control subjects N (%)	Type 2 diabetes patients N (%)	P-value ^a	P-value (Odds Ratio; 95%CI)*
FTO rs9939609							
Homozygous A	22 (73.33)	8 (26.67)	1	8 (27.59)	21 (72.41)	1	
Heterozygous	35 (53.03)	31 (46.97)	0.046	6 (14.63)	35 (85.37)	0.080	0.188 (2.22; 0.68-7.29)
Homozygous T	22 (44.89)	27 (55.11)		3 (7.69)	36 (92.31)		0.037 (4.57; 1.09-19.14)
Leptin rs7799039							
Homozygous G	28 (75.68)	9 (24.32)	1	3 (11.11)	24 (88.89)	1	
Heterozygous	29 (54.72)	24 (45.28)	0.006	8 (16.33)	41 (83.67)	0.610	0.531 (0.64; 0.16-2.65)
Homozygous A	24 (42.11)	33 (57.89)		7 (20.59)	27 (79.41)		0.327 (0.48; 0.11-2.08)

Note: ^a – Results found from Chi square test. * – Results found from Binary logistic regression analyses.

Table S3: Analyses of variance of different groups for systolic blood pressure, diastolic blood pressure and body mass index.

Variables	Systolic blood pressure			Diastolic blood pressure			BMI					
	N	Mean±Standard deviation	F-value	P-value	N	Mean±Standard deviation	F-value	P-value	N	Mean±Standard deviation	F-value	P-value
Age												
11-20	3	106.67±11.55			3	80.00±0.00			3	23.48±5.43		
21-30	58	117.33±11.63			58	79.48±7.71			59	23.98±3.93		
31-40	71	122.65±10.89	10.901	<0.001	71	81.41±7.51	3.219	0.013	78	24.04±2.89	2.756	0.028
41-50	55	128.15±11.95			55	84.27±6.91			68	25.86±4.56		
>50	54	127.95±23.17			54	82.80±7.87			59	24.35±3.81		
Total	241	123.12±17.44			241	81.89±7.61			267	24.55±3.88		
Gender												
Male	138	124.20±11.32			138	81.67±7.39			151	24.04±3.29	6.165	.014
Female	103	124.07±15.79	0.005	0.942	103	82.18±7.94	0.264	0.608	116	25.22±4.45		
Total	241	124.14±13.39			241	81.89±7.61			267	24.55±3.88		
Occupation type												
On desk	81	122.84±12.34			81	81.67±7.97			86	24.23±3.57	.845	.359
Non desk	160	124.80±13.88	1.154	.284	160	82.01±7.45	.107	.744	181	24.79±4.01		
Total	241	124.14±13.39			241	81.89±7.61			267	24.55±3.88		

Table S3: Continued.

Variables	Systolic blood pressure			Diastolic blood pressure			BMI			
	N	Mean±Standard deviation	F-value P-value	N	Mean±Standard deviation	F-value P-value	N	Mean±Standard deviation	F-value P-value	
Disease state										
Normal Subjects	101	120.33±10.88	14.936 <0.001	101	80.69±7.93	4.372 0.038	101	23.61±3.43	9.903 0.002	
Type 2 diabetes patients	140	126.89±14.35		140	82.76±7.29		166	25.12±4.03		
Total	241	124.14±13.39		241	81.89±7.61		267	24.55±3.88		
FTO rs9939609										
Homozygous T	81	126.37±12.57		81	82.58±6.28		88	24.84±3.92		
Heterozygous	95	122.74±13.59	1.796 0.168	95	80.75±7.75	1.549 0.215	107	24.61±4.02	.638 0.529	
Homozygous A	53	123.08±14.45		53	82.43±8.81		59	24.12±3.34		
Total	229	124.10±13.49		229	81.79±7.55		254	24.57±3.83		
Leptin rs7799039										
Homozygous G	61	122.79±13.33		61	80.92±7.51		64	24.72±4.47		
Heterozygous	88	123.64±12.87	0.645 0.526	88	81.91±7.80	0.809 0.447	102	23.99±3.38	1.321 0.269	
Homozygous A	83	125.23±13.62		83	82.49±6.75		91	24.84±3.84		
Total	232	123.98±13.24		232	81.86±7.36		257	24.48±3.84		