

Table1: Comparison of the clinical characteristics in the recessive genetic according to PPAR- γ rs1801282genotyp

	PPAR- γ (rs1801282)		Pvalue*
	CC	(CG+GG)	
Age(year)	52.97 \pm 6.37	52.81 \pm 7.45	0.88
Weight	76.82 \pm 13.79	79.35 \pm 14.94	0.29
BMI	29.09 \pm 4.48	30.05 \pm 5.06	0.29
WC	92.21 \pm 10.68	93.76 \pm 11.92	0.41
TC	202.4 \pm 80.5	205.11 \pm 72.29	0.84
HDL-C	52.67 \pm 11.02	53.77 \pm 13.72	0.56
LDL-C	111.6 \pm 34.64	109.61 \pm 27.54	0.73
LDL/HDL	3.17 \pm 13.37	2.14 \pm 0.64	0.64
TC/HDL	3.97 \pm 1.77	4.08 \pm 1.77	0.71
TG	180.3. \pm 107.71	158.36 \pm 78.10	0.23
Ghrelin	2.14 \pm 1.18	2.83 \pm 1.63	0.1
Leptin	23.78 \pm 14.07	12.57 \pm 8.47	0.01
CRP	2.43 \pm 1.52	3.05 \pm 1.50	0.38
TAC	2.52 \pm 0.52	2.32 \pm 0.4	0.4
SOD	0.14 \pm 0.04	0.130.03	0.43
IL-18	244.84 \pm 31.91	251.03 \pm 41.16	0.67
PGF2 α	72.37 \pm 6.75	72 \pm 6.2	0.9
Pentrexin3	2.68 \pm 0.44	2.65 \pm 0.48	0.88

Values are means \pm SD Independent T.test (Pvalue*)

BMI, body mass index; **WC**, waist circumference; **TG**, triglyceride; **TC**, total cholesterol; **CRP**, c-reactive protein; **TAC**, Total antioxidant capacity; **SOD**, Superoxide Dismutase; **IL18**, interleukin 18; **PGF2 α** , Prostaglandin F2 α

Table2: OR and CI for association between dietary quality indices and PPAR- γ (rs1801282)

	CC	PPAR- γ (rs1801282) (CG+GG) OR (95%CI)
HEI.Total score	1(Ref)	
Crude	1(Ref)	0.99(0.95,1.03)
Adjust	1(Ref)	0.99(0.95,1.03)
DQI-I. Total score		
Crude	1(Ref)	0.97(0.93,1.02)
Adjust	1(Ref)	0.97(0.93,1.02)
DPI.Total score		
Crude	1(Ref)	1.04(0.98,1.04)
Adjust	1(Ref)	1.01(0.99,1.04)

	DQI-I					DPI					HEI		
	T ₁	T ₂	T ₃	P*	P\$	T1	T2	T3	P*	P\$	T1	T2	T3
Age	52.03±6.37	52.05±6.89	54.96±5.65	<0.001		51.05±6.28	52.76±6.64	55.02±5.89	<0.001		51.95±6.4	53.36±6.7	53.55±6.23
Family history of diabetes (%)	37.2	34.5	28.4	0.81		31.8	31.8	36.5	0.2		36.5	35.8	27.7
Duration of disease2 (%)	34.9	31.4	33.7	0.28		20.9	34.9	44.2	0.04		29.1	34.9	36
Weight	76.28±14.8	77.7±13.83	77.22±12.97	0.69	0.62	79.17±14.21	75.08±13.44	76.93±13.84	0.05	0.36	78.55±14.35	76.58±13.17	76.08±14.13
BMI	29.03±4.83	29.27±4.47	29.24±4.3	0.89	0.46	29.37±4.62	28.65±4.17	29.51±4.79	0.26	0.34	29.51±4.59	29.07±4.56	28.96±4.48
WC	90.95±11.17	92.69±10.16	93.55±10.93	0.13	0.59	93.17±10.14	90.95±10.57	92.93±11.54	0.19	0.84	92.84±10.55	92.41±11.54	91.81±10.3
Percent fat	39.33±7.11	35.56±5.18	29.38±5.22	<0.001	<0.001	37.62±8.21	35.21±6.21	32.04±5.89	<0.001	<0.001	37.63±6.58	34.28±7.73	32.95±6.44
EER. women	2042.27±204	2045.14±171	2024.59±153	0.77	0.91	2082.71±190	2017.29±161	2017.46±179	0.04	0.14	2060.51±194	2037.66±181	2016.77±161
Physical activity (METs)	38.08±6.42	38.03±4.78	38.51±5.52	0.75	0.86	37.0±6.09	38.84±5.64	38.46±5.01	0.07	0.09	37.51±5.24	37.97±5.45	39.11±6.04
HDL	54.31±11.39	51.76±12.02	52.08±10.22	0.13	0.72	54.05±11.96	51.74±11.10	52.48±10.74	0.24	0.89	51.25±11.79	53.27±10.82	53.67±11.18
LDL	112.55±29.94	111.56±32.99	110.03±39.15	0.83	0.93	115.59±34.61	106.43±31.16	112.32±35.76	0.09	0.69	108.5±30.04	111.81±32.45	113.85±38.91
LDL/HDL	2.14±0.65	3.53±14.99	3.62±16.59	0.57	0.92	2.21±0.64	3.42±15	3.58±16.07	0.64	0.67	3.55±15.22	2.14±0.63	3.57±16.13
T. CHOL	203.87±65.91	196.6±54.81	20.33±110.13	0.46	0.86	204.23±87.7	206.46±72.88	197.41±78.18	0.63	0.73	201.27±64.25	207.06±93.65	199.5±78.21
TG	184.49±117.4	173.36±100.2	176.63±96.95	0.67	0.9	199.07±127.3	174.46±88.25	162.07±94.48	0.01	0.47	186.15±126.8	178.54±90.74	170.25±95.99
Leptin	21.91±13.07	24.7±15.39	21.61±13.3	0.47	0.53	20.85±13.27	21.54±14.40	25.92±14.12	0.17	0.05	22.72±13.34	21.61±14.3	24.35±14.6
Ghrelin	1.94±0.85	2.27±1.37	2.34±1.33	0.29	0.15	2.28±1.48	2.04±1.09	2.25±1.1	0.64	0.21	2.16±1.12	2.32±1.57	2.1±1.22
CRP	2.34±1.53	2.54±1.48	2.48±1.61	0.88	0.51	2.53±1.5	2.44±1.6	2.41±1.52	0.94	0.63	2.92±1.4	2.25±1.46	2.31±1.59
Penterein3	2.65±0.38	2.68±0.53	2.7±0.39	0.89	0.93	2.68±0.43	2.78±0.46	2.58±0.43	0.23	0.03	2.64±0.38	2.68±0.49	2.7±0.45
IL-18	250.51±31.07	244.76±36.6	241.17±27.84	0.55	0.8	245.28±36.69	241.98±32.49	248.13±26.9	0.76	0.2	249.52±39.9	242.7±25.37	244.27±32.85
TAC	2.58±0.56	2.47±0.57	2.48±0.42	0.67	0.34	2.49±0.53	2.57±0.6	2.46±0.42	0.68	0.39	2.51±0.37	2.65±0.61	2.32±0.46
SOD	0.16±0.05	0.13±0.04	0.14±0.04	0.15	0.03	0.14±0.04	0.15±0.05	0.13±0.05	0.48	0.06	0.14±0.06	0.14±0.04	0.14±0.03

Table3: Comparison of general characteristics of participant anthropometric and biochemical data between tertile of (DQI-I, DPI, HEI)

PGF2α	± 6.95	73.48± 6.22
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WC = waist circumferences, BMI = body mass index, HDL-c high density lipoprotein cholesterol, LDL-c = low density lipoprotein cholesterol, CH = cholesterol, TG = triglyceride, CRP = C-reactive protein, PTX3 = Pentraxin 3, IL18 = interleukin 18, TAC = total antioxidant capacity, SOD = superoxide dismutase, PGF2 α = prostaglandin F2 α . The normalized log-transformed were utilized, values are means \pm SD

Table4: Interactions between PPAR- γ (rs1801282) and dietary indexes on CVDs risk factors

	DQI-I*(rs1801282)			DPI*(rs1801282)			HEIB*(rs1801282)		
	β (95%CI) (CG+GG) 1(Ref) CC	P*	P†	β (95%CI) (CG+GG) 1(Ref) CC	P*	P†	β (95%CI) (CG+GG) 1(Ref) CC	P*	P†
BMI	0.05 (-0.008,0.11)	0.08	0.06	0.04(-0.01,0.09)	0.14	0.17	-0.02(-0.08,0.02)	0.32	0.36
WC	0.05 (-0.006,0.09)	0.02	0.01	0.01(-0.02,0.05)	0.46	0.28	-0.02(-0.07,0.01)	0.25	0.23
%Fat	-0.3 (-5.7,5.1)	0.91	0.97	3.74(-1.96,9.45)	0.19	0.18	-2.82(-8.24,2.6)	0.3	0.36
HDL	-0.5 (-0.13,0.01)	0.13	0.16	-9.82(19.78,0.12)	0.05	0.04	0.03(-0.03,0.11)	0.32	0.31
LDL	0.08(-0.04,.21)	0.22	0.23	0.03(-0.08,0.15)	0.56	0.66	-0.01(-0.14,0.1)	0.78	0.78
LDL/HDL	0.05(-0.1,0.2)	0.5	0.5	0.07(-0.09,0.25)	0.37	0.4	-0.03(-0.19,0.12)	0.65	0.72
TC	-72.61(-146,0.78)	0.05	0.05	0.06(-0.06,0.18)	0.32	0.33	-0.06(-0.18,0.04)	0.24	0.3
TG	0.17 (-0.03,0.38)	0.1	0.06	0.12(-0.06,0.31)	0.18	0.27	0.13(-0.04,0.31)	0.14	0.14
Leptin	-0.28(-0.73,0.15)	0.2	0.36	-0.19(-0.77,0.38)	0.5	0.25	-0.37(-0.93,0.17)	0.18	0.02
Ghrelin	0.11(-0.22,0.44)	0.5	0.55	0.16(-0.33,0.67)	0.5	0.67	-0.42(-0.83, -0.004)	0.04	0.07
CRP	-0.38(-1.92,1.16)	0.62	0.54	-2.36(5.14,0.41)	0.09	0.07	-0.06(-1.38,1.26)	0.92	0.83
Penterein-3	-0.12(-0.5,0.26)	0.52	0.37	-0.16(-0.41,0.08)	0.18	0.09	-0.22(-0.55,0.11)	0.19	0.17
IL-18	2.52(-0.6,4.12)	0.08	0.03	-0.75(-2.7,1.18)	0.44	0.4	-2.26(-4.78,0.26)	0.07	0.07
TAC	0.27(-0.09,0.63)	0.14	0.11	0.06(-0.22,0.36)	0.65	0.9	0.14(-0.23,0.51)	0.45	0.54
SOD	0.02(-0.15,0.19)	0.81	0.75	0.1(-0.009,0.21)	0.07	0.07	0.1(-0.04,0.25)	0.17	0.08
PGF2α	10.32(-8.14,28.79)	0.27	0.16	0.64(-11.65,12.94)	0.91	0.74	2.44(-13.68,18.57)	0.76	0.95

BMI, body mass index; **WC**, waist circumference; **TG**, triglyceride; **TC**, total cholesterol; **CRP**, c-reactive protein; **TAC**, Total antioxidant capacity; **SOD**, Superoxide Dismutase; **IL18**, interleukin 18; **PGF2 α** , Prostaglandin F2 α

P value* with unadjusted (crude)

P value† with adjustments for potential confounding factors including (Age, Sexuality, Smoking, Alcohol, Physical activity)