

Supplementary material:

Table 1: Genotype distribution of the polymorphisms examined in this study

GENE	SNP	rs no	FORWARD PRIMER	REVERSE PRIMER	FRAGMENT	ANNEALING TEMP
ACE	INTRON 16	rs4646994	CTGGAGACCACTC CCATCCTTTCT	GATGTGGCCATCA CATTTCGTCACGAT	490bp	59°C
α_2B AR	EXON 1	rs4426564	AGGGTGTTTGTGG GGCATCT	CAAGCTGAGGCCG GAGACACT	112bp	57°C

Table 2: G6PD Individual and percentages of their blood groups

Blood Group	Positive	Negative
A	10 (25.65%)	01 (2.56%)
B	04 (10.25%)	01 (2.56%)
AB	00 (0%)	00 (0%)
O	22 (56.41%)	01 (2.56%)

Table 3: Genotype and allele frequency of ACE and α_2B AR

Genotypes and Alleles	ACE Cases (n=39)	ACE Controls (n=22)	α_2B AR Cases (n=39)	α_2B AR Controls (n=22)
II	04 (10.2)	18 (81.9)	31 (79.5)	16 (72.7)
ID	03 (7.7)	02 (9)	04 (10.2)	05 (22.7)
DD	32 (82)	02 (9)	04 (10.2)	01 (4.5)
I	11 (14.1)	38 (86.3)	66 (84.6)	37 (84.1)
D	67 (85.9)	06 (13.7)	12 (15.4)	07 (15.9)

Table 4: Statistical analysis for G6PD individuals

S.No	Genotypes	ACE	α_2B AR
1	DD Vs ID+II	OR-45.71;95%CI=8.62-242.3; p<0.0001	OR-2.4;95%CI=0.2512-22.93; p=0.4349
2	ID+DD Vs II	OR-39.38;95%CI=8.80-176.1; p<0.0001	OR-0.6882;95%CI=0.2035-2.327; p=0.5466
3	ID Vs II+DD	OR-0.833;95%CI=0.12-5.411; p=0.84	OR-0.3886;95%CI=0.0092-1.635; p=0.1875
4	D Vs I	OR-38.58;95%CI=-13.21-112.6; p<0.0001	OR-0.9614;95%CI=0.3482-2.653; p=0.9388