

Table S1. An overview of the clinical condition, laboratory routine blood, and blood chemistry of respondents in Yogyakarta Indonesia

No	Characteristics	Case	Control	Value (p)
1	Age (year)	48.34 ± 11.15	48.18 ± 11.32	0.96
2	Weight (Kg)	57.23 ± 8.06	57.62 ± 9.01	0.78
3	Height (cm)	160.40 ± 3.76	160.55 ± 4.63	0.83
4	Body mass index (kg/m ²)	22.21 ± 2.79	22.33 ± 3.27	0.81
5	Hemoglobin levels (%)	8.24 ± 1.46	12.93 ± 1.81	0.00
6	Erythrocytes (x10 ⁶ /dl)	2.89 ± 0.56	4.58 ± 0.58	0.00
7	Leukocyte (x10)	7.08 ± 2.06	9.24 ± 3.21	0.00
8	Platelets (x10 ³ /dl)	242.26 ± 65.23	249.33 ± 68.17	0.53
9	Hematocrit (%)	23.54 ± 2.90	38.73 ± 5.62	0.00
10	Random blood glucose levels (mg/dl)	120.87 ± 23.22	107.72 ± 13.87	0.00
11	Triglyceride levels (mg/dl)	118.46 ± 56.18	115.63 ± 38.18	0.74
12	BUN (mg/dl)	155.76 ± 42.81	21.65 ± 7.82	0.00
13	Creatinine levels (mg/dl)	8.83 ± 2.97	0.75 ± 0.24	0.00
14	eGFR (ml/minutes/1.73 m ²)	5.81 ± 2.97	104.89 ± 20.05	0.00
15	Nicotine levels (ng/dl)	69.19 ± 32.09	10.08 ± 2.85	0.00
16	IGF-1 levels (ng / ml)	20.83 ± 10.56	73.97 ± 23.57	0.00
17	IGFBP3 levels (ng/ml)	3381 ± 1140.00	1501 ± 577.41	0.00

Table S2. Total sample and Hardy-Weinberg equilibrium analysis

Allele	Genotype	Frequency	χ^2	P-value
188	Homozygote	47	3.933	0.14
	Heterozygote	67		
	Non-carrier	45		
192	Homozygote	20	5.392	0.67
	Heterozygote	54		
	Non-carrier	85		

Allele 188	Allele 192
$p^2 = 0.256$	$p^2 = 0.087$
$2pq = 0.499$	$2pq = 0.415$
$q^2 = 0.243$	$q^2 = 0.496$

Table S3. Relationship between genotypes types IGF-1 gene polymorphisms and IGF-1 serum levels

Genotype Type	IGF-1 level (Mean±SD) (ng/ml)
homozygous 188bp	82.26±22.59
heterozygous 188bp	68.26±25.29
non-carrier 188bp	62.48±24.50
Homozygous 192 bp	40.07±16.49
Heterozygous 192 bp	66.98±21.51
Non-carrier 192 bp	78.84±24.52

*=P value <0.05 to homozygous 188bp group

Table S4. Formula stratification analysis of IGF-1 genotypes polymorphism and smoking status with ESRD incidence

IGF-1 CA repeat gene polymorphisms	Smoking status	Case	control	OR (CI, 95%)	
Non-homozygous 188 bp/homozygous 192bp	smoking	a	b	ah/bg	A
Non-homozygous 188 bp/homozygous 192 bp	No smoking	c	d	ch/dg	B
Homozygous 188bp/non-homozygous 192 bp	smoking	e	f	eh/fg	C
Homozygous 188bp/non-homozygous 192bp	No smoking	g	h	1	D
Total		53	106		
Measurement Parameter				OR	
Multiplicative interaction				A/BxC	
Additive interaction				A - ((B+C)-1)	
Stratified analyzes				OR(CI,95%)	
Ia / relationship with smoking factor among non-homozygous 188 bp/homozygous 192 group				ad/bc	
Ib/ relationship with smoking factor among homozygous 188 bp /non-homozygous 192bp group				eh/fg	
IIa/ relationship with non-homozygous 188bp/homozygous 192bp among the smoking group				af/be	
IIb/ relationship with non-homozygous 188bp/homozygous 192bp among the non-smoking group				ch/dg	

