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| Table S1. Demographic characteristic of the study patients |
| 　 | Dialysis patients |
| Number of subjects  | 190 |
| Gender, male, n (%) | 103 (54%) |
| Age (years)  | 64 ± 13 |
| Age range  | 24-100 |
| ERI (unit/week/kg/Hb) | 8.3 ± 5.8 |
| Hospitalized CV events, n (%) | 118 (62%) |
|  Coronary artery disease, n (%) | 82 (43%) |
|  Congestive heart failure, n (%) | 71 (37%) |
|  Stroke, n (%) | 15 (8%) |
|  Arrhythemia, n (%) | 22 (12%) |
|  PAOD, n (%) | 17 (9%) |
|  Aortic aneurysm, n (%) | 2 (1%) |
| CV: cardiovascular; ERI: erythropoietin resistance index; PAOD: peripheral arterial occlusive disease |

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| Table S2. Association of EDN1\_rs4714384 and cardiovascular disease in ESRD patients |
| EDN1\_rs4714384 | **Genotype** | **Case** |  | **Control** |  | **Recessive** | **Recessive**  |
|  |  | **n** | **(%)** | **n** | **%** | **P Value** | **q value** |
| Coronary artery disease | TTCTCC | 52730 | 8.143.548.4 | 132736 | 17.135.547.4 | 0.066 | 0.586 |
| Congestive heart failure | TTCTCC | 52028 | 9.437.752.8 | 133438 | 15.340.044.7 | 0.117 | 0.586 |
| Stroke | TTCTCC | 245 | 18.236.445.5 | 165061 | 12.639.448.0 | 0.931 | 1.000 |
| Arrhythemia | TTCTCC | 199 | 5.347.447.4 | 174557 | 14.337.847.9 | 0.058 | 0.586 |
| PAOD | TTCTCC | 266 | 14.342.942.9 | 164860 | 12.938.748.4 | 0.575 | 0.974 |
| Aortic aneurysm | TTCTCC | 001 | 00100 | 185465 | 13.139.447.4 | 1.000 | 1.000 |

ESRD: end stage renal disease; PAOD: peripheral arterial occlusive disease

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| Table S3. Potential function prediction of SNP in transcription factor binding site in EDN gene family |
| Gene | **rs number** | **Position** | **Forward sequence** | **TFBS** | **Function** |
| EDN1 | rs3087459 | 6 | agGCAACat | RFX | Essential expression of MHC class II genes |
| EDN2 | rs11210278 | 7 | caTAAT**C**gag | GATA6 | Involved in hypertrophic cardiomyopathy |
|  | rs11210278 | 9 | tgcataaT**C**GAGgga | CDP | Terminal differentiation, cell cycle progression |
|  | rs11210278 | 9 | tgcaTAAT**C**gagg | CRX | Differentiation of photoreceptor cells |
|  | rs11210278 | 7 | cataaT**T**GAGgg | PBX1 | Regulation of osteogenesis |
| TFBS: transcript factor binding site |