

Table (1): Baseline characteristics of the AKI and non-AKI groups.

		Non-AKI group (n=368)	AKI group (n=32)	p-value
Age (years)	Mean $\pm$ SD	62.45 $\pm$ 13.9	59.78 $\pm$ 13.86	0.302 [*]
	Range	32-96	40-86	
Gender, n (%)	Male	228 (62%)	19 (59.4%)	0.782 [‡]
	Female	140 (38%)	13 (40.6%)	
Smoking, n (%)		125 (34%)	13 (40.6%)	0.447 [‡]
HTN, n (%)		211 (57.3%)	18 (56.3%)	0.905 [‡]
DM, n (%)		91 (24.7%)	8 (25.0%)	0.973 [‡]
BMI (Kg/m ²)	Mean $\pm$ SD	27.03 $\pm$ 3.7	29.17 $\pm$ 3.72	0.002[*]
	Range	16-96	21.3-36.8	
SBP (mm/Hg)	Mean $\pm$ SD	136.37 $\pm$ 26.8	140.28 $\pm$ 21.47	0.339 [*]
	Range	65-191	90-180	
DBP (mm/Hg)	Mean $\pm$ SD	86.6 $\pm$ 17.61	93.72 $\pm$ 15.29	0.027[*]
	Range	43-130	60-122	
AMI, n (%)		118 (32.1%)	15 (46.9%)	0.088 [‡]
β-blocker, n (%)		309 (84%)	27 (84.4%)	0.852 [‡]
ACEI/ARB, n (%)		206 (56%)	17 (53.1%)	0.755 [‡]
CCB, n (%)		103 (28%)	9 (28.1%)	0.987 [‡]
Diuretics, n (%)		126 (34.2%)	17 (53.1%)	0.033[‡]
Statins, n (%)		344 (93.5%)	31 (96.9%)	0.446 [‡]
LMWH, n (%)		168 (45.7%)	21 (65.6%)	0.030[‡]
Nitrates, n (%)		235 (63.9%)	21 (65.6%)	0.857 [‡]

[†]M Mann-Whitney U test, [‡] Chi-square test, ^{*}Student T test

AMI, acute myocardial infarction; ACEI/ARB, angiotensin converting enzyme inhibitors/angiotensin receptor blocker; CCB, calcium channel blockers; LMWH, low molecular weight heparin.

Table (2): laboratory Data of the AKI and non - AKI groups

	Groups	Mean $\pm$ SD/ Median (IQR)		Range			P-value
Triglyceride (mmol/l)	Non-AKI group	1.35	(1.10-1.73)	1.01	-	1.94	<0.001 [#]
	AKI group	1.13	(1.04-1.35)	0.95	-	1.52	
Total cholesterol level (mmol/l)	Non-AKI group	3.81	$\pm$ 1.63	0.89	-	7.92	0.985 [♦]
	AKI group	3.80	$\pm$ 1.72	1.40	-	7.25	
HDL (mmol/l)	Non-AKI group	1.13	(1.02-1.25)	1.91	-	9.96	0.426 [#]
	AKI group	1.13	(1.06-1.26)	1.98	-	1.36	
LDL (mmol/l)	Non-AKI group	2.69	$\pm$ 1.27	0.0	-	5.66	0.998 [♦]
	AKI group	2.69	$\pm$ 1.05	0.35	-	4.85	
Albumin level (g/dl)	Non-AKI group	40.92 (35.2-48.75)		29.55	-	56.3	0.026 [#]
	AKI group	38.53 (33.69-43.62)		28.65	-	50.8	
Blood glucose (mmol/l)	Non-AKI group	7.11	$\pm$ 2.84	0.13	-	14.87	0.001 [♦]
	AKI group	8.88	$\pm$ 3.09	3.80	-	15.3	
Fibrinogen level (g/l)	Non-AKI group	2.88	$\pm$ 0.30	2.0	-	3.9	<0.001 [♦]
	AKI group	3.29	$\pm$ 0.27	2.85	-	3.79	
Antithrombin-III (%)	Non-AKI group	95.85	$\pm$ 15.88	59	-	182	0.002 [♦]
	AKI group	86.75	$\pm$ 15.49	61.38	-	114.73	
Neutrophil to lymphocyte ratio	Non-AKI group	3.56	$\pm$ 0.89	1.50	-	5.08	<0.001 [♦]
	AKI group	4.30	$\pm$ 1.05	2.65	-	5.85	
Platelet to lymphocyte ratio	Non-AKI group	139.99	$\pm$ 19.99	105	-	178	0.002 [♦]
	AKI group	151.68	$\pm$ 19.21	116.47	-	186.71	
Baseline S. creatinine (μ mol/l)	Non-AKI group	66.19	(62.0-72.99)	57	-	89	0.808 [#]
	AKI group	66.30	(62.5-71.0)	56.2	-	75.4	
Cystatin C (mg/l)	Non-AKI group	0.81	(0.76-0.84)	0.7	-	75	0.094 [#]
	AKI group	0.79	(0.75-0.82)	0.71	-	0.88	
Serum uric acid (μ mol/l)	Non-AKI group	303.96	$\pm$ 36.96	236	-	364	0.262 [♦]
	AKI group	310.03	$\pm$ 28.18	265	-	355	
eGFR (ml/min)	Non-AKI group	119.0	(95.0-145.5)	26	-	174	0.871 [#]
	AKI group	118.0	(82.0-154.0)	35	-	191	
Peak S. creatinine after PCI (μ mol/l)	Non-AKI group	68.25 (59.20-76.00)		57	-	85.20	<0.001 [♦]
	AKI group	89.50 (75.31-105.2)		59.35	-	107	

p>0.05 is non-significant, p < 0.05 is significant, [#] Mann-Whitney U Test [♦] Student T T Test

Table (3): Multiple logistic regression analysis of risk factors for AKI

Parameters	B	S.E.	Wald	P-value	Odds ratio (OR)	95%CI	
						Lower limit	Upper limit
BMI	0.253	0.091	7.797	0.005	1.288	1.078	1.538
DBP (mm/Hg)	0.044	0.026	2.922	0.087	1.045	0.994	1.100
Diuretics	-0.760	0.818	.864	0.353	0.467	0.094	2.324
LMWH	0.779	0.691	1.272	0.259	2.179	0.563	8.433
Triglyceride	-6.426	1.565	16.860	<0.001	0.002	0.000	0.035
Albumin	-0.202	0.064	9.823	0.002	0.817	0.720	0.927
Blood glucose	0.295	0.120	6.033	0.014	1.343	1.061	1.699
Fibrinogen level	5.051	1.195	17.852	<0.001	6.159	4.998	12.950
Anti-thrombin III	-0.002	0.020	0.010	0.921	.998	0.959	1.039
Neutrophil to lymphocyte ratio	.0686	0.401	2.920	0.088	1.986	0.904	4.362
Platelet to lymphocyte ratio	0.011	0.017	0.452	0.501	1.011	0.979	1.045

B: Regression coefficient; S.E.: Standard error, CI: Confidence interval, DBP: Diastolic blood pressure

Table (4): Validity (AUC, sensitivity, specificity) for Cystatin D level, in prediction and detection of RA.

	Cutoff value	AUC	95%CI	Sensitivity	Specificity	PPV	NPV	P-value
Fibrinogen	2.91g/l	0.829	0.612-0.707	93.7%	56.2%	68.1%	98.9%	<0.001
Anti-thrombin III	85.6	0.661	0.612-0.707	62.5%	74.7%	68.8%	65.7%	0.002
Fibrinogen+ Anti-thrombin III	0.0923	0.845	0.806-0.879	75%	79.3%	78.4%	76%	<0.001

AUC: Area Under a Curve, p-value: Probability value NPV: Negative predictive value PPV: Positive predictive value*: Statistically significant at $p \leq 0.05$