

creatinine levels (1.46 ± 0.13 mg/dL vs. 1.12 ± 0.18 mg/dL; $p = 0.0001$; Table 1).

Echocardiographic variables

POAF patients showed an increased LA M-mode AP dimension (42.30 ± 5.58 mm vs. 39.40 ± 4.10 mm; $p = 0.04$), LA 2-D longitudinal dimension (52.53 ± 5.6 mL vs. 49.87 ± 4.76 mL; $p = 0.041$), LA 2-D anteroposterior dimension (40.92 ± 4.69 vs. 37.40 ± 4.08 ; $p = 0.01$), LA volume (71.76 ± 16.9 mL vs. 49.46 ± 11.62 mL; $p = <0.0001$), and LA volume index (41.96 ± 5.74 mL/m² BSA vs. 26.09 ± 6.72 mL/m² BSA; $p = <0.001$; Table XI).

At last Multiple binary logistic regression analysis

Logistic regression analysis demonstrate that LAV is independently associated with the occurrence of postoperative AF. OR 10.34; 95% CI 10.01-10.05; $p = 0.01$. (Table IV).

TABLE 1

Clinical Features of all CABG Patients and of CABG Patients with and without Postoperative Atrial Fibrillation

	Group		
	Group-A (n=13)	Group-B (n=47)	P value
Male Sex	10 (76.9%)	40 (85.1%)	0.067*
Age	62.46 ± 7.28	55.55 ± 6.79	0.02*
BMI	26.31 ± 1.74	25.80 ± 2.03	0.42*
Euroscore	6.23 ± 0.92	5.59 ± 0.74	0.012
H/O MI	8 (61.5%)	35 (74.5%)	0.48*NS
Hypertension	10 (76.9%)	26 (55.3%)	0.15*NS
DM	7 (53.8%)	13 (27.7%)	0.10*NS
Hypercholesterolemia	6 (46.2%)	26 (46.8%)	0.96*NS
S. Creatinin	1.46 ± 0.13	1.12 ± 0.18	<0.001
BBlocker	10 (76.9%)	33 (70.2%)	0.74*NS
Statin	13 (100%)	46	

Table II.

Distribution of patients of both groups by peri-operative data

Operative Variables	Group
	Group-A n = 13 Mean $\pm$ SD
Total operative time (in minutes)	281.54 ± 15.19
Number of grafts	3.77 ± 0.83
Duration of ICU stay (hours)	2.08 ± 0.27
Need for Ionotrop support	11 (84.6%)
Need for post operative BT	8 (61.5%)

*Student's t test is done to measure the level of significance

Table III.

Distribution of patients of both groups by preoperative Echocardiogram findings

Preoperative Echo findings	Group	
	Group-1 n = 13 Mean $\pm$ SD	Group-2 n = 47 Mean $\pm$ SD
LVEF %	53.62 ± 7.35	51.49 ± 5.98
LA volume (ml)	71.76 ± 16.9	49.46 ± 11.62
LA volume index (ml/m ² BSA)	41.96 ± 5.74	26.09 ± 6.72
M mode LA AP dimension (ml)	42.30 ± 5.58	39.40 ± 4.10
2-D LA longitudinal dimension	52.53 ± 5.60	49.87 ± 4.76
2-D LA AP dimension	40.92 ± 4.69	37.40 ± 4.08

*Independent sample t- test is done to measure the level of significance

Predictors of Postoperative Atrial Fibrillation According to Logistic Regression Analysis

	P Level	Odds Ratio	95.0% CI Lower Upper	
Male sex	0.63	1.20	0.46	3.85
Age	0.35	1.38	0.66	1.12
Diabetes	0.18	0.59	0.23	1.43
Dyslipidemia	0.87	0.88	0.38	22.37
Previous MI	0.9	0.95	0.43	32.33
Serum Creatinine Levels	0.05	40.33	0.90	198.68
Need for ionotropic Support	90	1.35	0.14	40.56
Left Atrial Volume	0.01	10.34	10.01	10.05
Preoperative β blockers	0.78	0.88	0.32	20.33
Constant	0.019	0.000		

Hosmer and Lameshow test: Chi-square = 2.907. DF 8. P level = 0.94

MI = myocardial infraction

4. Discussion

Major advances in cardiac surgery in general and coronary surgery in particular, were not paralleled by a major decline in the incidence of postoperative AF. On the