

Online Resource 2

PITX2 rs67249485 and age, not the postoperative inflammatory response, predict new-onset atrial fibrillation after cardiac surgery with cardiopulmonary bypass: a prospective genotyped cohort study (INFLACOR). Journal of Applied Genetics. Corresponding author: Damian Sendrowski, Institute of Health Sciences, Pomeranian University in Słupsk, Poland; damian.sendrowski@upsl.edu.pl

Table S1 Clinical characteristics of the 364 analysed patients according to the occurrence of new-onset atrial fibrillation (NOAF)

Variable	NOAF+ (n = 115)	NOAF- (n = 249)	Odds ratio (95% CI)	p
Demographic and preoperative variables				
Women / men, n (%)	51 / 64 (44.4 / 55.6)	96 / 153 (38.6 / 61.4)		0.30 ^c
Age, years, median (IQR)	69 (61–75)	63 (54–71)		0.00002 ^b
Body mass index, kg/m ² , mean ± SD	28.3 ± 4.7	26.8 ± 4.8		0.0073 ^a
Serum creatinine, mg/dL, median (IQR)	0.89 (0.78–1.12)	0.88 (0.75–1.03)		0.22 ^b
Estimated GFR, mL/min/1.73 m ² , median (IQR) ^e	60 (58–60)	60 (60–60)		0.048 ^b
White-cell count, G/L, mean ± SD	7.74 ± 1.88	7.52 ± 1.96		0.33 ^a
Left-ventricular ejection fraction, %, mean ± SD	54 ± 12	56 ± 12		0.22 ^a
Left-atrial diameter, mm, mean ± SD ^f	44 ± 6	43 ± 6		0.097 ^a
women	43 ± 5	41 ± 6		0.0496 ^a
men	45 ± 7	44 ± 6		0.33 ^a
Comorbidities, n (%)				
Coronary artery disease	61 (53.0)	103 (41.4)	1.6 (1.03–2.5)	0.038 ^c
Acute coronary syndrome within 90 days	7 (6.1)	5 (2.0)		0.057 ^d
Hypertension	92 (80.0)	183 (73.5)		0.18 ^c
Diabetes mellitus	29 (25.2)	47 (18.9)		0.17 ^c
Chronic kidney disease	9 (7.8)	11 (4.4)		0.19 ^c
Chronic obstructive pulmonary disease	9 (7.8)	18 (7.2)		0.84 ^c
Preoperative medication, n (%)				
Acetylsalicylic acid	65 (56.5)	106 (42.6)	1.75 (1.12–2.75)	0.013 ^c
Statin	73 (63.5)	116 (46.6)	1.99 (1.27–3.15)	0.0027 ^c
β-blocker	85 (73.9)	154 (61.9)	1.75 (1.08–2.87)	0.024 ^c
Angiotensin-converting-enzyme inhibitor	65 (56.5)	119 (47.8)		0.12 ^c
Angiotensin-receptor blocker	7 (6.1)	17 (6.8)		0.79 ^c
Either of the two	72 (62.6)	133 (53.4)		0.10 ^c
Intraoperative variables				
Procedure type, n ^g				0.025 ^h
other procedures	2	19		
single valve	43	106		
single valve with additional procedure	38	73		
aortic surgery with or without additional procedure	16	27		
two valves	13	18		
two or more valves with additional procedure	3	6		

Variable	NOAF+ (n = 115)	NOAF- (n = 249)	Odds ratio (95% CI)	p
Operation time, h, mean $\pm$ SD	4.7 $\pm$ 1.3	4.2 $\pm$ 1.2		0.0013 ^a
Cardiopulmonary bypass time, min, mean $\pm$ SD	141 $\pm$ 52	126 $\pm$ 53		0.0097 ^a
Aortic cross-clamp time, min, mean $\pm$ SD	93 $\pm$ 36	81 $\pm$ 36		0.0068 ^a
Red-cell concentrate, units, mean $\pm$ SD	2.70 $\pm$ 1.75	2.09 $\pm$ 1.97		0.0055 ^a
Fresh-frozen plasma, units, median (IQR)	4 (3–4)	3 (2–4)		0.0034 ^b
Platelet concentrate, units, mean $\pm$ SD	1.70 $\pm$ 3.01	1.25 $\pm$ 2.70		0.15 ^a
First postoperative day (n with measurement)				
Interleukin-6, pg/mL, median (IQR)	169 (67–316) (113)	151 (62–346) (242)		0.71 ^b
Soluble ICAM-1, pg/mL, mean $\pm$ SD	38 042 $\pm$ 18 002 (111)	37 232 $\pm$ 18 009 (243)		0.70 ^a
Soluble E-selectin, pg/mL, median (IQR)	3190 (2388–4485) (103)	3298 (2336–4316) (227)		0.81 ^b
Creatine kinase-MB, ng/mL, mean $\pm$ SD	32 $\pm$ 28 (112)	29 $\pm$ 24 (241)		0.33 ^a
C-reactive protein, mg/dL, mean $\pm$ SD ⁱ	55 $\pm$ 27 (106)	57 $\pm$ 30 (228)		0.68 ^a
White-cell count, G/L, median (IQR)	9.5 (7.7–11.5) (114)	9.2 (7.6–11.2) (248)		0.86 ^b

Values are n (%), mean $\pm$ SD or median (interquartile range, IQR). Odds ratios are given for the categorical variables that were associated with NOAF. Unless stated otherwise, denominators are 115 and 249

^a One-way analysis of variance. ^b Kruskal-Wallis test. ^c Mantel-Haenszel test. ^d Fisher exact test. ^e Estimated by the MDRD formula as recorded in the hospital laboratory system. ^f Available in 217 patients. ^g Categories ordered by complexity and increasing bypass time. ^h χ^2 test for trend across procedure categories. ⁱ Unit as recorded in the source data

CI confidence interval, GFR glomerular filtration rate, ICAM-1 intercellular adhesion molecule-1, SD standard deviation