

Supplementary material

Morawiec R, Matuszewska-Brycht O, Maeser P, et al. Decreasing number of valve-related infective endocarditis cases. An urgent call to action for improved diagnostic pathways: A retrospective tertiary center perspective (2015–2022). Kardiol Pol. 2023.

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Table S1. Study results

	Median	IQR
Age [years]		
Overall	62	51-69
Women	67	57-72.5
Men	60	49-68
N		
	N	%
Sex		
Women	48	24.7%
Men	146	75.3%
Infective endocarditis localization		
Left-sided	179	92.3%
Right-sided	11	5.7%
Bilateral	4	2.1%
Etiological Factor		
Unidentified	77	39.7%
Staphylococcus spp.	60	30.9%
Streptococcus spp.	18	9.3%
Enterococcus spp.	26	13.4%
E. Coli	3	1.5%
Pseudomonas Aeruginosa	1	0.5%
Other	1	0.5%
>1	8	4.1%
Native/Prosthetic valve		
Prosthetic Valve	54	28%
Native Valve	140	72%

Number of deaths and mortality over the analyzed period						
Year	Cases [N]	Patients Treated with Cardiac Surgery [N]	Overall Deaths [N]	Overall Mortality [%]	Preoperative Deaths [N]	Perioperative Deaths [N]
2015	31	26	8	25.8%	4	4
2016	30	21	6	20.0%	2	4
2017	20	10	4	20.0%	3	1
2018	27	22	7	25.9%	3	4
2019	21	11	5	23.8%	4	1
2020	20	11	6	30.0%	3	3
2021	26	12	15	57.7%	9	6
2022	19	13	3	15.8%	0	3
Overall (2015-2022)	194	126	54	27,8%	28	26

Logistic regression analysis results				
Overall Deaths	OR (odds ratio)	Lower 95% Confidence interval	Upper 95% Confidence interval	p
Year	1.11	0.97	1.27	0.13
Number of infected valves	1.29	0.63	2.64	0.48
Age	1.01	0.99	1.04	0.2
Female	0.83	0.39	1.74	0.61
Mitral Valve (native)	0.87	0.46	1.66	0.68
Aortic Valve (native)	1.96	0.98	3.93	0.06
Tricuspid Valve (native)	0.41	0.09	1.9	0.25
Left-sided IE	1.59	0.43	5.88	0.48
Right-sided IE	0.25	0.03	1.96	0.19
Both Sides IE	2.65	0.36	19.33	0.34
Staphylococcus Spp.	0.72	0.35	1.45	0.35
Streptococcus Spp.	0.49	0.14	1.77	0.28
Enterococcus Spp.	0.75	0.28	1.98	0.56
E. Coli	1.30	0.12	14.66	0.83
Unidentified etiology	4.66	1.07	20.23	0.04
Artificial Valve	0.67	0.32	1.39	0.28

Preoperative Deaths	OR (odds ratio)	Lower 95% Confidence interval	Upper 95% Confidence interval	p
Year	1.1	0.92	1.30	0.29
Number of infected valves	0.42	0.14	1.29	0.13
Age	1.04	1.0032	1.07	0.03
Female	0.81	0.31	2.12	0.66
Mitral Valve (native)	0.63	0.27	1.48	0.29
Aortic Valve (native)	1.26	0.54	2.95	0.6

Tricuspid Valve (native)	0.44	0.05	3.47	0.43
Left-sided IE	1.10	0.24	5.18	0.9
Right-sided IE	0.58	0.07	4.7	0.61
Both Sides IE	2.01	0.20	20.06	0.55
Staphylococcus Spp.	1.84	0.81	4.19	0.14
Streptococcus Spp.	0.32	0.04	2.54	0.28
Enterococcus Spp.	0.21	0.03	1.61	0.13
E. Coli	3.04	0.27	34.66	0.37
Unidentified etiology	0.84	0.1	7.11	0.87
Artificial Valve	0.52	0.19	1.44	0.21
Perioperative Deaths	OR (odds ratio)	Lower 95% Confidence interval	Upper 95% Confidence interval	p
Year	1.09	0.91	1.3	0.36
Number of infected valves	2.72	1.19	6.23	0.02
Age	0.99	0.97	1.02	0.6
Female	0.88	0.33	2.33	0.8
Mitral Valve (native)	1.25	0.55	2.88	0.6
Aortic Valve (native)	2.73	0.98	7.60	0.05
Tricuspid Valve (native)	0.47	0.06	3.73	0.47
Left sided IE	2.32	0.29	18.41	0.43
Both Sides IE	2.16	0.22	21.59	0.51
Staphylococcus Spp.	0.16	0.04	0.71	0.02
Streptococcus Spp.	0.83	0.18	3.88	0.82
Enterococcus Spp.	1.63	0.56	4.8	0.37
Unidentified etiology	7.32	1.71	31.38	0.007
Artificial Valve	0.92	0.36	2.34	0.87