

Supplementary material

Zdzierak B, Krawczyk-Ożóg A, Olszewska-Turek K, et al. Women in interventional cardiology: Analysis of procedural volumes, academic achievements, and scientific contributions in Poland. Pol Heart J. 2025.

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Table S1. The nonparametric kernel density multivariable regression model for procedure volumes

Effect	Observed estimate	95% confidence interval	P-value
Work experience (per 1 year)	66.85	61.43, 99.11	<0.001
Number of publications	-9.55	-24.06, 2.41	0.21
Publication as the first author	-0.57	-125.00, 84.31	0.99
Female vs. male	-955.45	-1488.04, -396.55	0.002
Scientific degree			
Assoc. Prof. vs. PhD	11.11	-196.11, 182.14	0.91
MD vs. PhD	-32.60	-398.06, 389.25	0.87
Professor. vs. PhD	-87.30	-634.34, 521.87	0.77

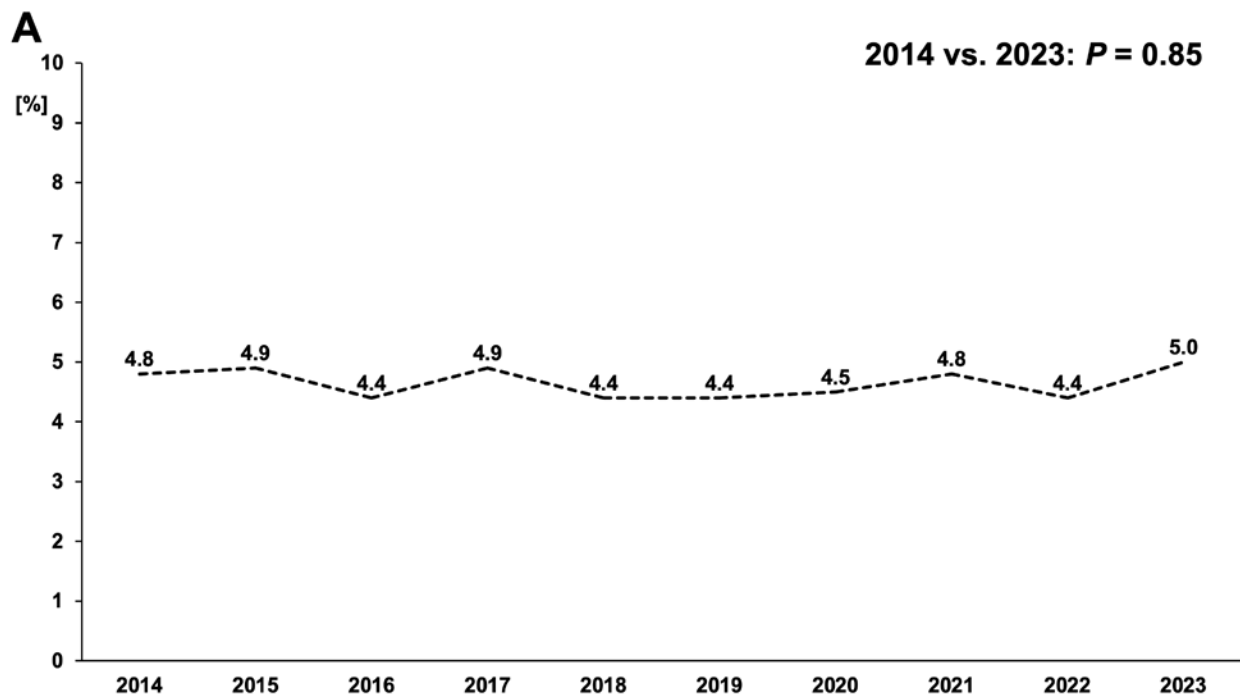
Abbreviations: MD, Medical Doctor; PhD, Doctor of Philosophy; Assoc. Prof., Associate Professor

Table S2. The nonparametric kernel density multivariable regression model for publication counts (Web of Science data)

Effect	Observed estimate	95% confidence interval	P value
Work experience (per 1 year)	0.24	0.00, 0.47	0.05
Number of procedures	0.00	-0.001, 0.001	0.26
Publication as the first author	4.06	3.07, 4.84	<0.001

Publication as the last author	3.87	1.90, 5.73	<0.001
Female vs. male	-2.97	-7.00, 3.23	0.45
Scientific degree			
Assoc. Prof. vs. PhD	-0.72	-2.73, 0.72	0.42
MD vs. PhD	0.45	-5.75, 2.04	0.80
Professor. vs. PhD	0.31	-8.50, 2.22	0.91

Abbreviations: MD, Medical Doctor; PhD, Doctor of Philosophy; Assoc. Prof., Associate Professor



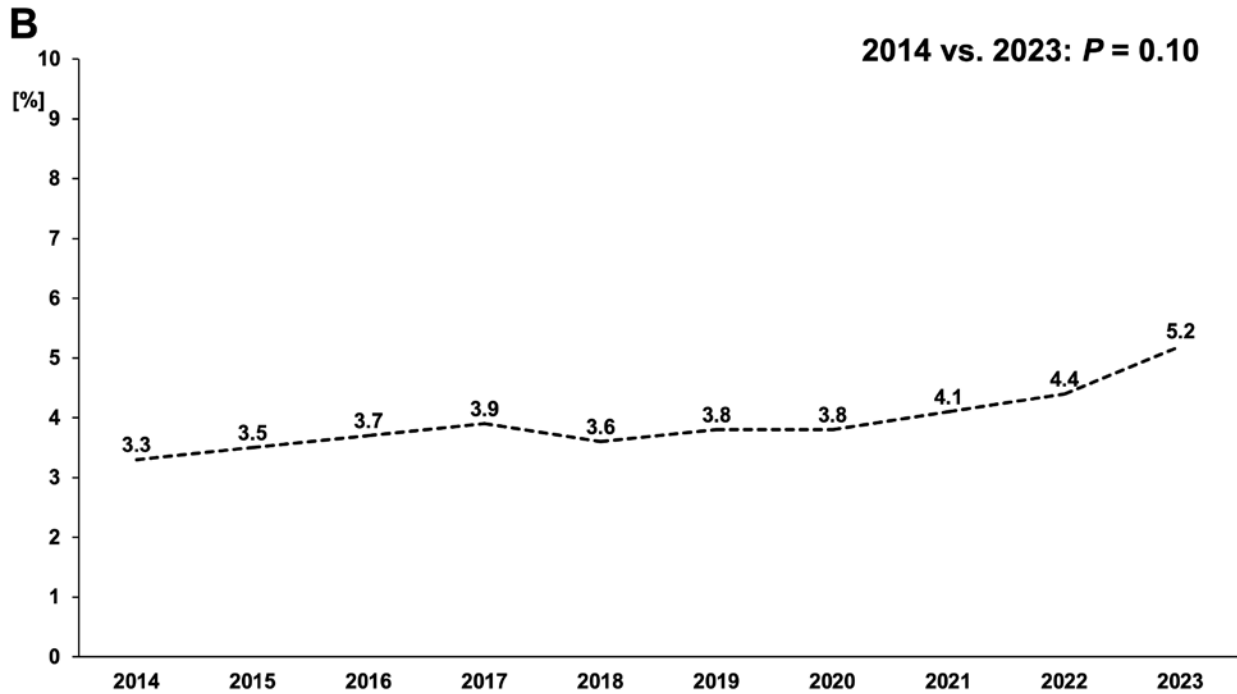
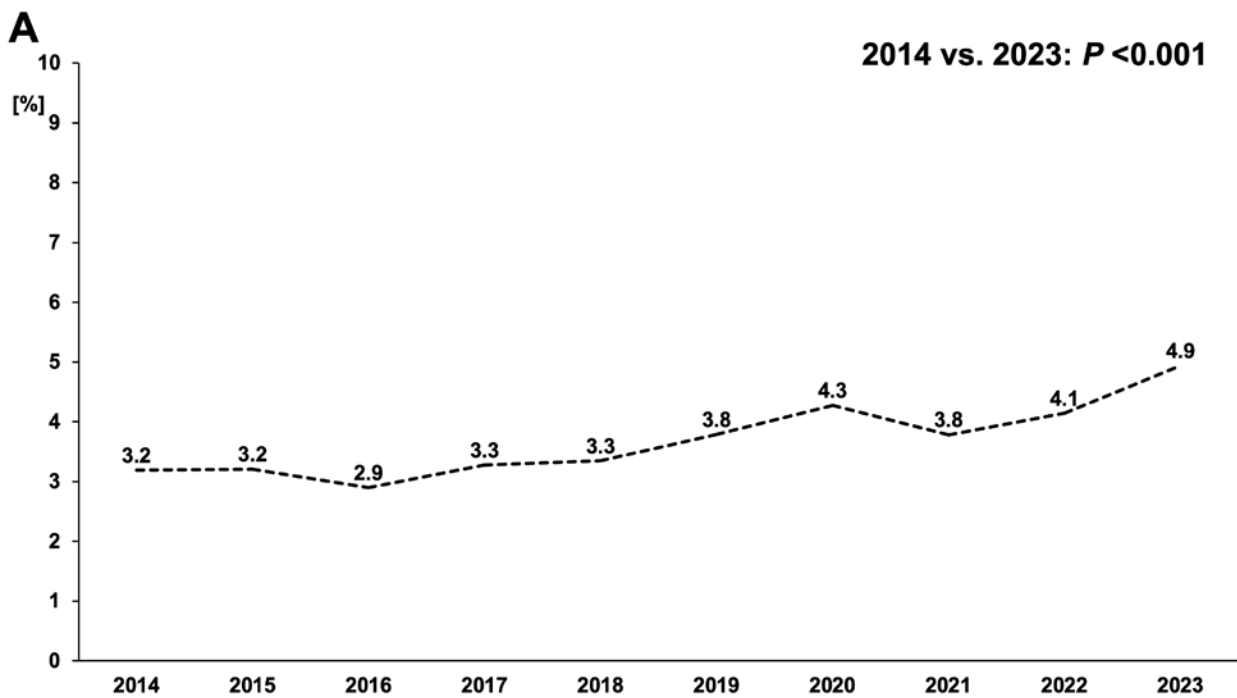


Figure S1. Trends in the percentage of female operators performing invasive cardiac procedures from 2014 to 2023. **A.** Coronary angiographies. **B.** Percutaneous coronary interventions



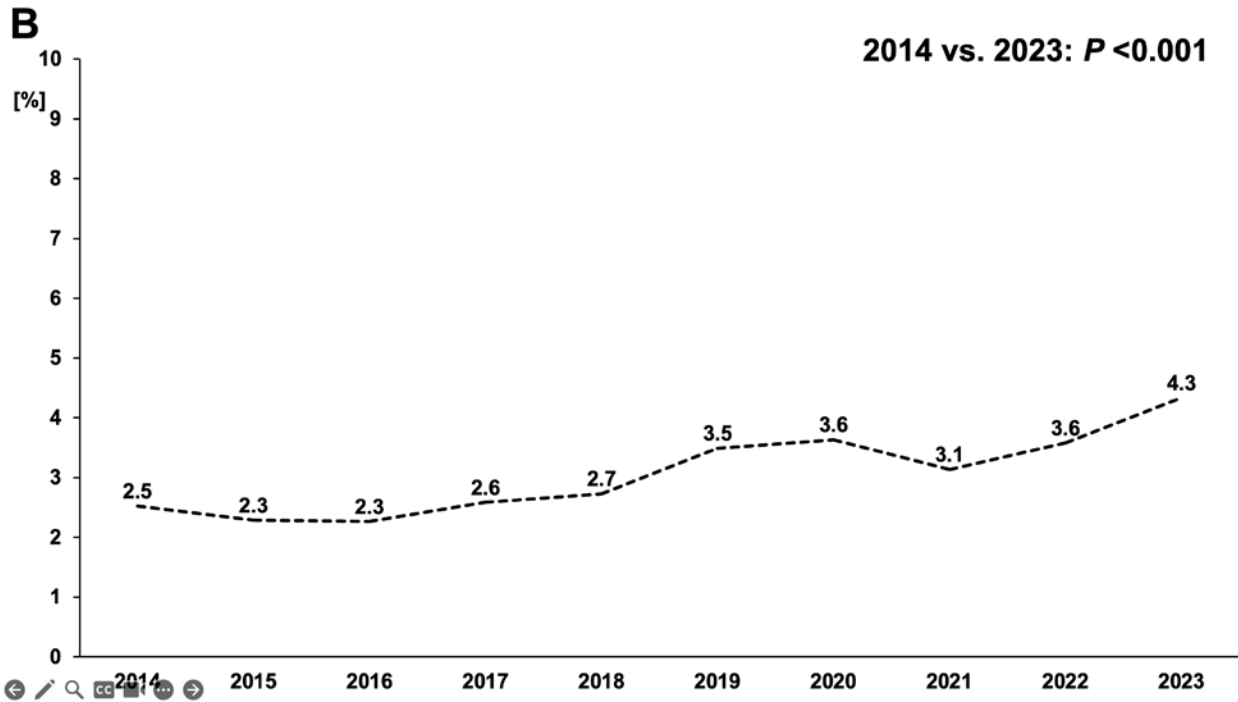


Figure S2. Evolution of female operator contribution to invasive cardiac procedures from 2014 to 2023. **A.** Percentage of coronary angiographies performed by female operators. **B.** Percentage of percutaneous coronary interventions performed by female operators

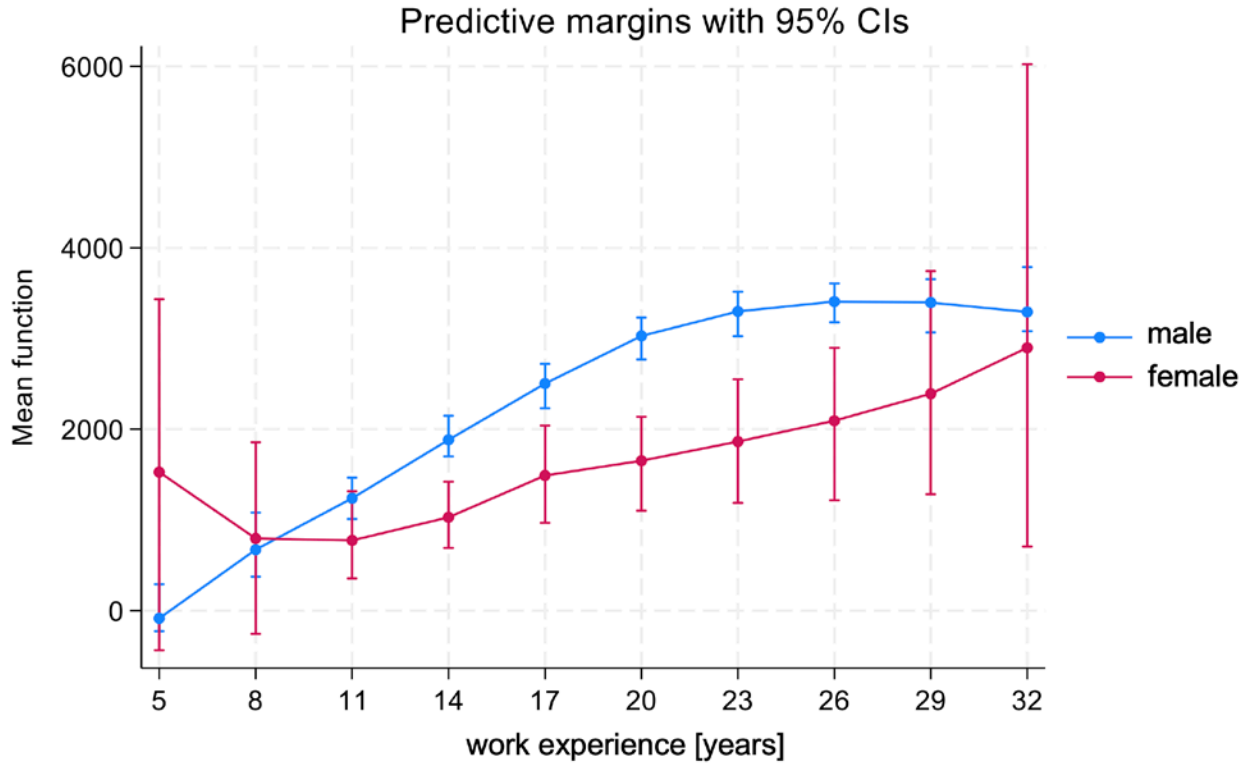


Figure S3. Relationship between work experience and procedural volume stratified by gender
Abbreviations: CI, confidence interval

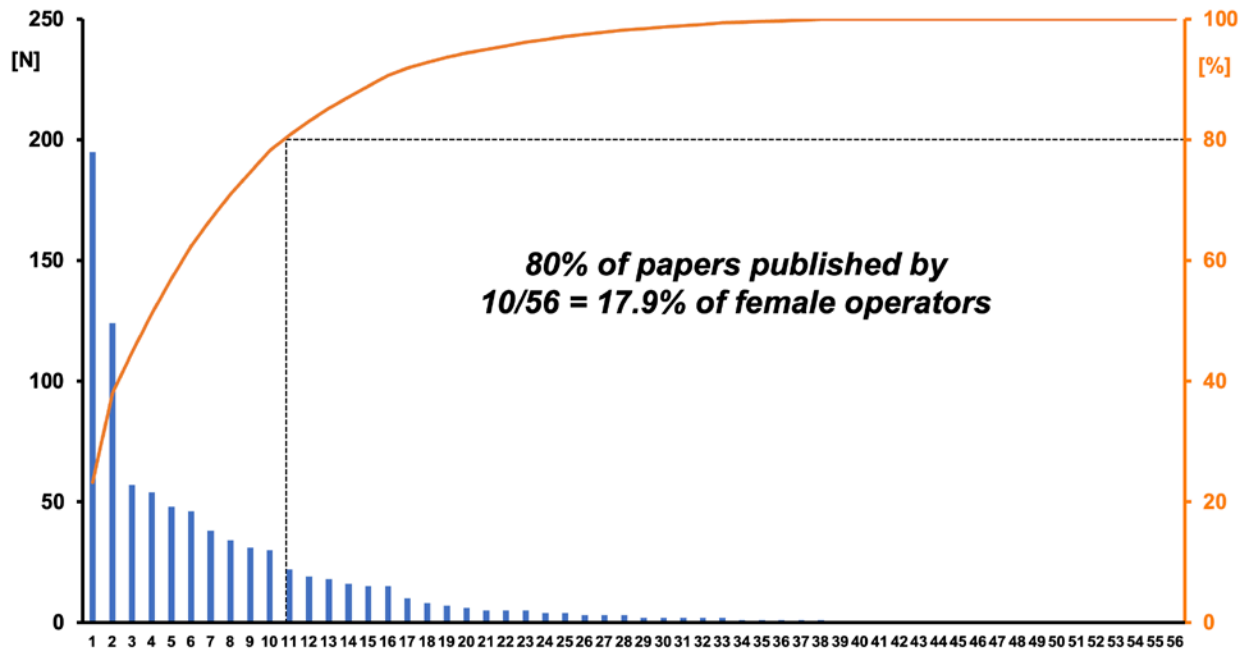


Figure S4. Distribution of scientific publications among female interventional cardiologists. Bar graph showing the number of publications per individual female operator (blue bars, left y-axis, N) and cumulative percentage of total publications (orange line, right y-axis, %) based on Web of Science Core Collection data. The x-axis represents individual female operators (n = 56) ranked by publication count in descending order. The dashed line indicates that 80% of all publications were produced by 10 operators (17.9% of all female operators), demonstrating a Pareto-like distribution. Similarly, 153 male operators (16.1%) were responsible for 80% of papers published by male operators