

## Supplementary material

Góra M, Kiliszek M, Maciak K, et al. A novel microRNA differentially expressed in patients with persistent and paroxysmal atrial fibrillation. *Pol Arch Intern Med.* 2024; 134: 16650. doi:10.20452/pamw.16650

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**Table S1** Clinical characteristics of patient groups

Characteristic	Study group (n=19)	Validation group (n=75)	P-value
Age, years	<b>61.2 (7.8)</b>	<b>60.7 (10.2)</b>	0.82
Gender (female/male)	5/14	32/43	0.29
Type of AF (persistent/paroxysmal)	8/11	24/51	0.43
Body Mass Index, kg/m <sup>2</sup>	<b>30.2 (5.3)</b>	<b>29.6 (4.3)</b>	0.66
Diabetes	6 (31.6%)	17 (22.7%)	0.55
Hypercholesterolemia	8 (42.1%)	32 (42.7%)	1.00
Hypertension	13 (68.4%)	57 (76.0%)	0.56
Coronary artery disease	2 (10.5%)	8 (10.7%)	1.00
Left ventricular ejection fraction, %	60 (55-60)	60 (59-65)	0.20

Data are presented as **mean (SD) for normally distributed data**, median (first quartile – third quartile) **for non-normally distributed data**, or number (%) **for categorical data**. For variables with a normal distribution, the Student's t-test was used, and in the remaining cases the Mann-Whitney U test. Comparisons of categorical variables were made using Fisher's exact test.

**Table S2** Putative miRNAs differentially regulated in the study group (persistent versus paroxysmal atrial fibrillation patients)

Name	Sequence (5'-3')	Fold change	P-value	Tags per Million
put-miR-25	TGGTAGTGGGTTATCAGAACTTATT	0.566	<b>0.005</b>	21.95
put-miR-11	AGGATTTTGGGTTGGAG	1.828	<b>0.04</b>	8.21

put-miR-29	TACACTGGGACTGAGACACGG	1.590	<b>0.04</b>	7.11
put-miR-104	AGCTAGTCGTGGATGCTGT	0.272	<b>0.03</b>	4.37
put-miR-3	TCCATCAGGATAGCTGGAGCTTT	2.711	<b>0.001</b>	3.95
put-miR-88	ATTTTGTGGTTTTGTAGA	0.164	<b>0.001</b>	2.89
put-miR-35	AGTATGTGCGATGCCAATT	2.612	<b>0.01</b>	2.11
put-miR-53	CTGAAGTGGAGAAAGG	1.737	<b>0.049</b>	1.84

**Table S3** Predicted target genes of put-miR-25

Gene	Name
<i>ADCY4</i>	Adenylate Cyclase 4
<i>ANKRD17</i>	Ankyrin Repeat Domain 17
<i>ASAH2</i>	N-Acylsphingosine Amidohydrolase 2
<i>ASAH2B</i>	N-Acylsphingosine Amidohydrolase 2B
<i>C3orf62</i>	Chromosome 3 Open Reading Frame 62
<i>CCNL1</i>	Cyclin L1
<i>COBLL1</i>	Cordon-Bleu WH2 Repeat Protein Like 1
<i>CSGALNACT2</i>	Chondroitin Sulfate N-Acetylgalactosaminyltransferase 2
<i>FLT1</i>	Fms Related Receptor Tyrosine Kinase 1
<i>GON4L</i>	Gon-4 Like
<i>GVQW3</i>	GVQW Motif Containing 3
<i>ITPR1</i>	Inositol 1,4,5-Trisphosphate Receptor Type 1
<i>MARCHF8</i>	Membrane Associated Ring-CH-Type Finger 8
<i>NLRP1</i>	NLR Family Pyrin Domain Containing 1
<i>OFD1P5Y</i>	OFD1 Pseudogene 5 Y-Linked
<i>OR4A10P</i>	Olfactory Receptor Family 4 Subfamily A Member 10 Pseudogene
<i>OR4A42P</i>	Olfactory Receptor Family 4 Subfamily A Member 42 Pseudogene
<i>OR7E2P</i>	Olfactory Receptor Family 7 Subfamily E Member 2 Pseudogene
<i>PEG10</i>	Paternally Expressed 10
<i>PGGT1B</i>	Protein Geranylgeranyltransferase Type I Subunit Beta
<i>SCLY</i>	Selenocysteine Lyase
<i>UGGT1</i>	UDP-Glucose Glycoprotein Glucosyltransferase 1
<i>ZNF462</i>	Zinc Finger Protein 462