

Supplementary material

Sielski J, Kaziród-Wolski K, Siudak Z. Out-of-hospital cardiac arrest: data from the National Registry of Invasive Cardiology Procedures (ORPKI) in a long-term survival analysis of patients with acute coronary syndromes in a Polish region. Kardiol Pol. 2020; 78: 412-419. doi:10.33963/KP.15244

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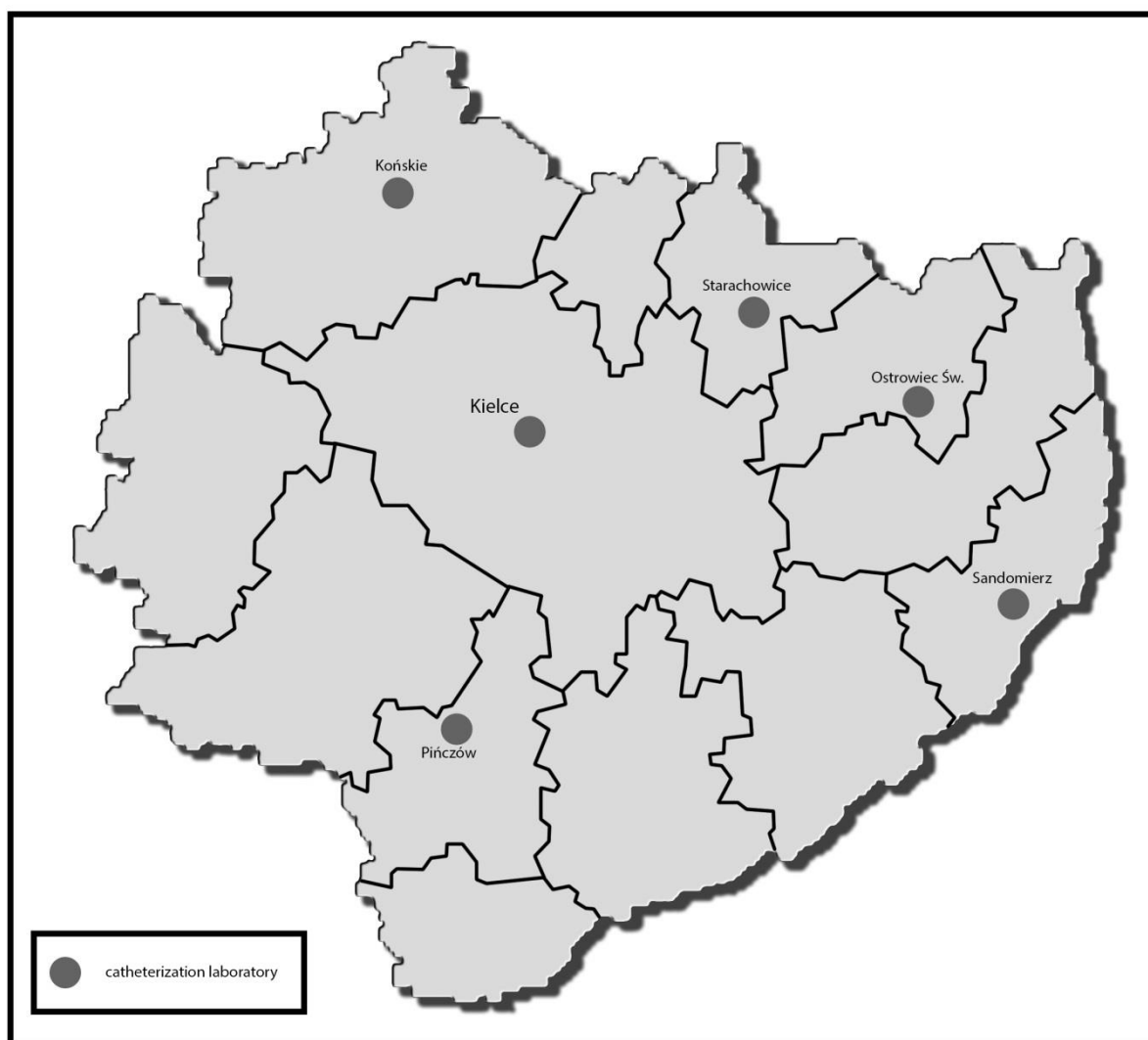


Figure S1. Map of Swietokrzyskie Province showing the location of catheterization laboratory

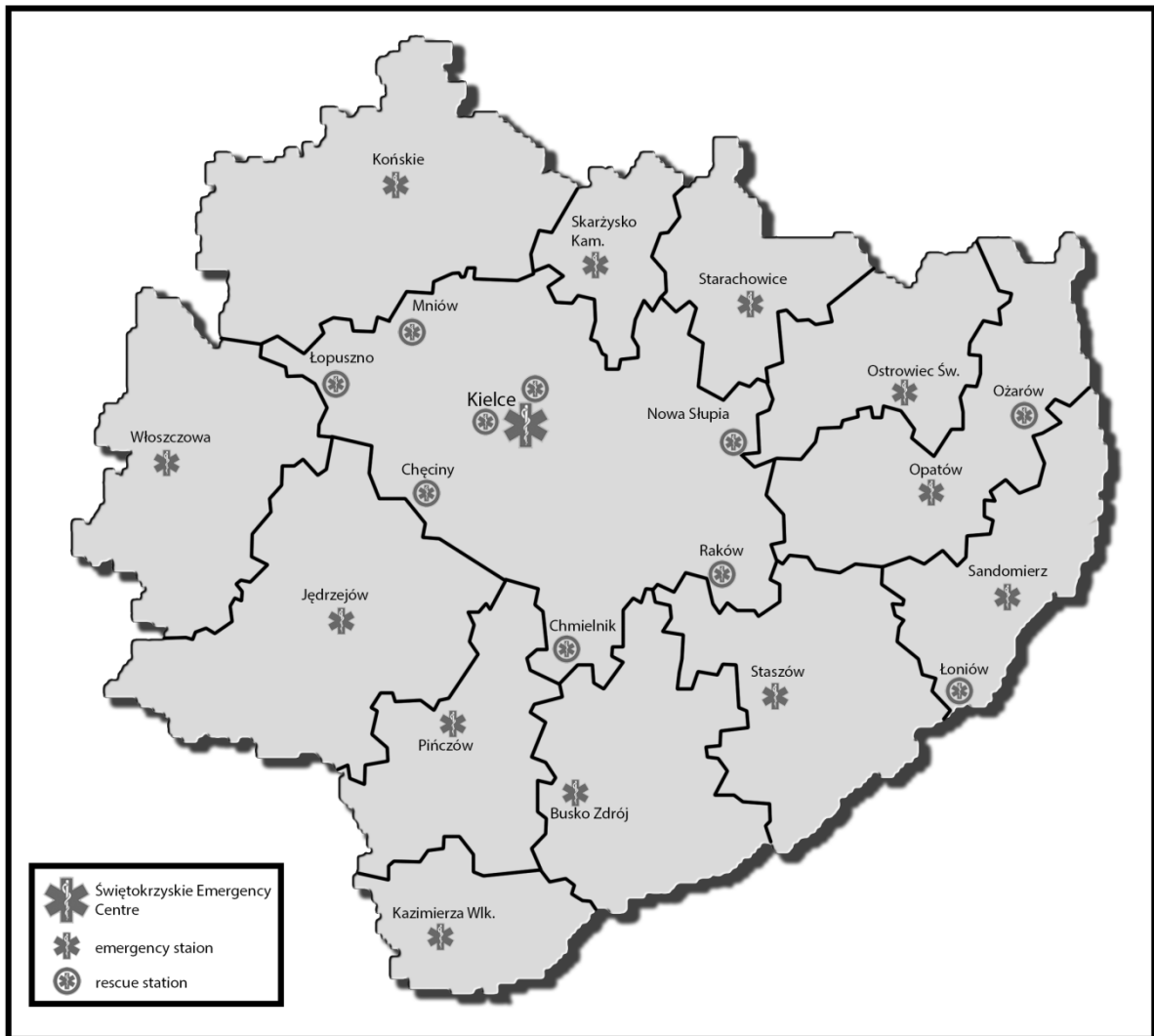


Figure S2. Map of Świętokrzyskie Province showing the location of emergency medical service stations.

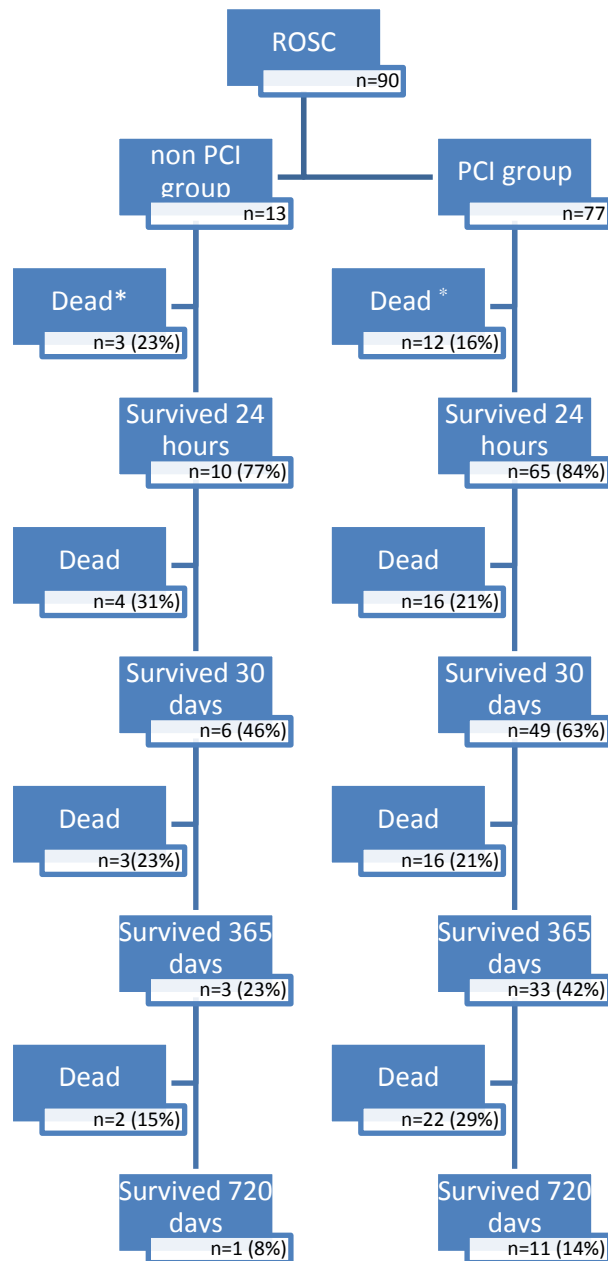


Figure S3. Study patient flow chart. ROSC – return of spontaneous circulation, PCI – percutaneous coronary intervention.

* Within 24h after admission

Table S1. Patients characteristics – registry data collected during three consecutive years.

Variable	2014	2015	2016	P value
All patients				
Number (n, %)	741 (34.4%)	785 (36,5%)	626 (29.1%)	
Age, years (mean, [SD]; median, [Q ₁ -Q ₃])	68.1 (14.9); M 69 (59,8 - 80)	67.9 (15.7); M 69 (58 - 80)	68.3 (14.6); M 67 (60 - 81)	0.93
Time to arrival, min (mean, [SD]; median, [Q ₁ -Q ₃])	10.2 (6.1); M 10 (6 - 15)	10.3 (6.1); M 10 (6 - 15)	9.5 (5.9); M 9 (6 - 14)	0.02
Sex				
Female (n, %)	243 (32.8%)	256 (32.6%)	256 (40.5%)	0.01
Male (n, %)	498 (67.2%)	529 (67.4%)	370 (59.5%)	
Area				
Urban (n, %)	244 (32.9%)	257 (32.7%)	277 (44.2%)	0.0001
Rural (n, %)	497 (67.1%)	528 (67.3%)	349 (55.7%)	
Location of OHCA				
Home (n, %)	594 (80.2%)	621 (79.1%)	487 (77.8%)	0.58
Other (n, %)	147 (19.8%)	164 (20.9%)	139 (22.2%)	
First eyewitness				
Family (n, %)	582 (78.5%)	618 (78.7%)	478 (76.3%)	0.0001
Other (n, %)	159 (21.5%)	167 (21.3%)	148 (23.6%)	
Dead on arrival (n, %)	182 (24.6%)	254 (32.4%)	191 (30.5%)	0.01
Patients with CPR				

Number (n, %)	559 (36.7%)	531 (34.8%)	435 (28.5%)	
Age, years (mean, [SD]; median, [Q ₁ -Q ₃])	66.9 (14.3); M 67 (59 - 78)	66.4 (15.3); M 67 (57.5 - 79)	67.8 (14.2); M 68 (60 - 80)	0.37
Time to arrival, min (mean, [SD]; median, [Q ₁ -Q ₃])	9.7 (6.0); M 10 (6 - 14)	9.6 (6.1); M 9 (6 - 14)	9.17 (5.7); M 9 (6 - 14)	0.36
Sex				
Female (n, %)	183 (32.7%)	172 (32.4%)	256 (39.1%)	0.06
Male (n, %)	376 (68.3%)	359 (67.6%)	179 (60.9%)	
Witnessed				
Yes (n, %)	146 (26.1%)	123 (23.2%)	171 (39.3%)	0.0001
No (n, %)	413 (73.9%)	408 (76.8%)	264 (60.9%)	
Cause of OHCA				
Cardiac (n, %)	375 (67.1%)	313(58.9%)	208(47.8%)	0.0001
Others (n, %)	184 (32.9%)	218(41.0%)	227(52.2%)	
Initial rhythm				
VT/VF (n, %)	98 (17.53%)	93 (17.51%)	68 (15.6%)	0.63
Other (n, %)	461 (82.5%)	438 (82.5%)	367 (84.4%)	
Transport destination				
CCU (n, %)	11 (4.5%)	17 (7.9%)	13 (7.4%)	0.15
ER (n, %)	236 (95.5%)	197 (92.1%)	162 (92.6%)	
ROSC (n, %)	247 (44.2%)	214 (40.3%)	175 (40.2%)	0.32
Overall mortality (n, %)	494 (66.8%)	571 (72.7%)	451 (72.0%)	0.02

CCU – coronary care unit; CPR – cardiopulmonary resuscitation; ER – emergency department; OHCA - out-of-hospital cardiac arrest; Q₁-Q₃ - interquartile range; ROSC – return of spontaneous circulation; SD – standard deviation; VT/F – ventricular tachycardia/fibrillation.

Table S2. Survival probability for statistical significant clinical factors after out of hospital cardiac arrest

Factor		Survival probability (%) (95% CI)			<i>P</i> value	HR 95% CI
		30 days	1 year	2 years		
Age (Fig.1)	≤66 years	70 (57 – 83)	59 (44 - 73)	51 (36 – 67)	0.02	1.99 1.10 – 3.59
	>66 years	51 (36 – 66)	40 (25 – 56)	27 (11 – 43)		
Diabetes (Fig.2)	No	67 (56 – 78)	56 (45 – 68)	45 (32 – 59)	0.03	2.36 1.12 – 4.98
	Yes	40 (18 – 62)	28 (8 – 49)	22 (4 – 42)		
CASVD (Fig.3)	Single	78 (65 – 92)	67 (52 – 83)	62 (46 – 79)	0.001	2.76 1.51 – 5.06
	Multi	48 (34 – 64)	39 (25 – 54)	22 (6 – 39)		
Any PCI (Fig. 4.)	No	46 (19 – 73)	31 (5 – 56)	21 (3 – 44)	0.1	2.10 0.88 – 5.03
	Yes	64 (53 – 74)	52 (41 – 64)	44 (31 – 57)		

CASVD - coronary arteries status of vessel diseases; HR – hazard ratio; PCI – percutaneous coronary intervention.