

Supplementary material

Łebek-Szatańska A, Papierska L, Glinicki P, Zgliczyński W. Withdrawal of all medications is not necessary for accurate screening for primary aldosteronism: preliminary results. *Pol Arch Intern Med.* 2021; 131: 578-581. doi:10.20452/pamw.16016

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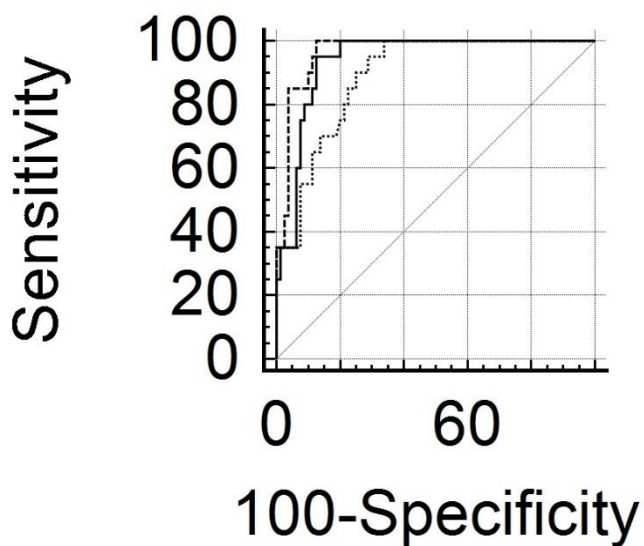
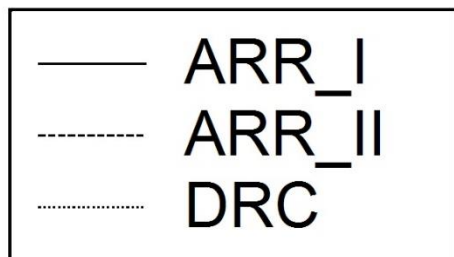
Table S1. Drug characteristics in the hypertensive cohort.

Drug classes	All participants with hypertension (n=95)	Primary aldosteronism (n=19)	Control group (n=76)	P
ACEI (n,%)	36 (37.9)	7 (36.8)	29 (38.2)	0.92
ARB (n,%)	17 (17.9)	1 (5.3)	16 (21)	0.18
BB (n,%)	55 (57.9)	8 (42.1)	47 (61.8)	0.12
CaB dh (n,%)	44 (46.3)	14 (73.7)	30 (39.5)	0.01
CaB ndh (n,%)	5 (5.3)	3 (15.8)	2 (2.6)	0.053
Thiazides (n,%)	26 (27.4)	2 (10.5)	24 (31.6)	0.09
Loop diuretics (n,%)	5 (5.7)	1 (5.3)	4 (5.3)	1.0
Alfa-blockers (n,%)	18 (18.9)	5 (26.3)	13 (17.1)	0.35
Neutral for RAAS (n,%)	13 (13.7)	4 (21)	9 (15.8)	0.36

* Drug abbreviations: ACEI, angiotensin converting enzyme inhibitors, ARB, angiotensin receptor blockers, BB, betablockers, BP, blood pressure, CaB dh, dihydropyridine calcium blockers, Ca ndh, non-dihydropyridine calcium blockers, MRA, mineralocorticoid receptor antagonists. RAAS, renin-angiotensin-aldosterone system.

Figure S1. A. The comparison of ROC curves for DRC, ADRR I (the first screening test) and ADRR II (after patients' preparation). B. Sensitivity, specificity, positive (PPV) and negative (NPV) predictive value of chosen screening parameters.

A.



B.

Variable	Sensitivity	Specificity	PPV	NPV	AUROC (95% CI)
ADRR ≥ 2	95	87.5	65.5	98.6	0.938 (0.892-0.983)
ADRR ≥ 2 after patient's preparation	100	87.5	66.7	100	0.966 (0.934-0.997)
ES guidelines ADRR ≥ 3.7	75	91.2	75	93.6	
ES guidelines ADRR ≥ 3.7 after patient's preparation	85	96.2	85	96.2	
DRC ≤ 8.2 mIU/L	85	76.2	47.2	95.3	0.891 (0.827-0.956)
DRC ≤ 10.47 mIU/L	95	71.2	45.2	98.3	
DRC ≤ 12	95	68.7	43.2	98.2	

* Abbreviations: ADRR, aldosterone-to-direct renin ratio, AUROC, area under ROC curve,

DRC, direct renin concentration

Table S2. Odds ratios (ORs) for the association of hypokalemia and patients' category with primary aldosteronism diagnosis.

Variable	Odds Ratio (OR)	95%CI (Confidence Interval)	P
Categories of patients:			
Isolated hypertension	1 (referent)		
Hypertension plus adrenal lesions	0.67	0.10-4.39	0.68
Hypertension plus adrenal lesions and hypokalemia	7.79	1.45-41.73	0.016
Hypertension plus hypokalemia	2.83	0.39-20.18	0.29
Hypokalemia:			
Normokalemia	1 (referent)		
Overall hypokalemia	6.6	2.16-29.17	<0.001
Spontaneous	11	3.26-37.11	<0.001
Diuretic-induced	2.54	0.54-12.00	0.24