

Figure 1. Flow of Participants

| | All | PA | Non-PA | p-value | |
|---------------------------------|--|---------------|---------------|---------|--|
| | (n=133) | (n=88) | (n=45) | - | |
| _ | Mean ± SD; Median (IQR); Frequency (%) | | | | |
| Age, years | 49.83±11.26 | 48.94±12.18 | 51.56±9.08 | 0.166* | |
| Sex at birth | | | | 0.635** | |
| Male | 45 (33.8) | 31 (35.2) | 14 (31.1) | | |
| Female | 88 (66.2) | 57 (64.8) | 31 (68.9) | | |
| Hypertension (n=123) | 113 (91.9) | 79 (94.0) | 34 (87.2) | .286† | |
| Diabetes mellitus (n=120) | 37 (30.8) | 27 (33.3) | 10 (25.6) | .393** | |
| eGFR ml/min/1.73 m ² | | | | .625** | |
| (based from 2021 CKD-EPI) | | | | | |
| (n=111) | | | | | |
| ≥ 90 | 64 (57.7) | 40 (54.1) | 24 (64.9) | | |
| 60-89 | 32 (28.8) | 23 (31.1) | 9 (24.3) | | |
| 45-59 | 13 (11.7) | 10 (13.5) | 3 (8.1) | | |
| 30-44 | 2 (1.8) | 1 (1.4) | 1 (2.7) | | |
| Spontaneous hypokalemia | 79 (61.2) | 57 (65.5) | 22 (52.4) | .151** | |
| (n=129) | | . , | . , | | |
| Baseline plasma | 18.43 (11.74- | 20.47 (13.85- | 13.25 (9.49- | 0.002‡ | |
| aldosterone concentration | 29.40) | 33.78) | 23.21) | | |
| (PAC), ng/dL | | , | , | | |
| Baseline plasma renin activity | 0.28 (0.15- | 0.26 (0.16- | 0.31 (0.15- | 0.452‡ | |
| (PRA), ng/ml/h | 0.52) | 0.51) | 0.56) | · | |
| Baseline Aldosterone-renin | 61.95 (31.74- | 80.62 (38.72- | 39.80 (29.86- | 0.010‡ | |
| ratio (ARR), ng/dL/ng/ml/h | 142.61) | 177.27) | 84.42) | | |

Table 1. Clinical characteristics between primary aldosteronism (PA) and non-PA patients (n=133)

Statistical tests used: *, Independent t-test; **, Pearson Chi-Square test; †, Fisher's Exact test; ‡, Mann-Whitney U test

| Table 2. CT-scan findings and histopathology in patients with positive saline infusion | |
|--|--|
| test (n=88) | |

| | Frequency (%) |
|----------------------------|---------------|
| Abdominal CT done | 72 (82.8) |
| Laterality | |
| Bilateral nodule | 5 (6.94) |
| Unilateral nodule | 52 (72.22) |
| No discrete nodule seen | 15 (20.83) |
| Surgery done | 20 (22.7) |
| Histopathology | |
| Adrenocortical adenoma | 14 (73.68) |
| Adrenocortical carcinoma | 1 (5.26) |
| Adrenocortical neoplasm* | 2 (10.53) |
| Adrenocortical hyperplasia | 1 (5.26) |
| Endothelial cyst | 1 (5.26) |

*Indeterminate findings (adenoma vs carcinoma)

Table 3. Diagnostic performance of laboratory findings for primary aldosteronism

| | Sensitivity, % | Specificity, % | PPV, % | NPV, % | LR+ | LR- | Accuracy, % |
|--|-------------------------------|---------------------------------|---------------------------------|-------------------------------|------------------------------|-----------------------------|-------------------------------|
| | Estimate (95% CI) | | | | | | |
| 3 | | | | | | | |
| combinations | | | | | | | |
| PAC > 10 ng/dL + PRA < 1.0 ng/dL/hr + spont. hypoK | 48.81% (37.74 – 59.96%) | 70.27% (53.02 – 84.13%) | 78.85% (68.44 – 86.50%) | 37.68% (31.02 – 44.84%) | 1.64 (0.96 - 2.82) | 0.73 (0.54 - 0.98) | 55.37% (46.06 - 64.41%) |
| A2: PAC > 15 ng/dL + PRA < 1.0 ng/dL/hr + spont. hypoK | 44.05% (33.22 - 55.30%) | 83.78% (67.99 – 93.81%) | 86.05% (74.04 – 93.02%) | 39.74% (34.23 – 45.53%) | 2.72 (1.26 – 5.87) | 0.67 (0.53 - 0.85) | 56.20% (46.89 - 65.20%) |
| A3: PAC > 20 ng/dL + PRA < 1.0 ng/dL/hr + spont. hypoK | 34.52% (24.48 – 45.69%) | 89.19% (74.58 - 96.97%) | 87.88% (73.30 – 95.04%) | 37.50% (33.13 – 42.09%) | 3.19 (1.21 - 8.43) | 0.73 (0.61 - 0.89) | 51.24% (41.99 - 60.43%) |
| A4: PAC > 25 ng/dL + PRA < 1.0 ng/dL/hr + spont. hypoK | 27.38% (18.21 - 38.20%) | 100.00% (90.51 - 100.00%) | 100.00% (85.18 – 100.00%) | 37.76% (34.72 – 40.89%) | - | 0.73 (0.64 - 0.83) | 49.59% (40.37 – 58.82%) |
| A5: PAC > 10 ng/dL + PRA < 0.6 ng/dL/hr + spont. hypoK | 46.43% (35.47 – 57.65%) | 72.97% (55.88 - 86.21%) | 79.59% (68.65 – 87.41%) | 37.50% (31.21 – 44.24%) | 1.72 (0.96 - 3.06) | 0.73 (0.56 - 0.97) | 54.55% (45.24 – 63.62%) |
| A6: PAC > 15 ng/dL + PRA < 0.6 ng/dL/hr + spont. hypoK | 41.67% (31.00 – 52.94%) | 89.19% (74.58 – 96.97%) | 89.74% (77.02 - 95.81%) | 40.24% (35.25 - 45.45%) | 3.85 (1.48 - 10.06) | 0.65 (0.53 - 0.81) | 56.20% (46.89 – 65.20%) |
| A7: PAC > 20 ng/dL + PRA < 0.6 ng/dL/hr + spont. hypoK | 34.52% (24.48 – 45.69%) | 94.59% (81.81 - 99.34%) | 93.55% (78.49 – 98.29%) | 38.89% (34.86 – 43.08%) | 6.39 (1.61 - 25.38) | 0.69 (0.58 - 0.82) | 52.89% (43.61 - 62.03%) |
| A8: PAC > 25 ng/dL + PRA < 0.6 ng/dL/hr + spont. hypoK | 27.38% (18.21 - 38.20%) | 100.00% (90.51 - 100.00%) | 100.00% (85.18 – 100.00%) | 37.76% (34.72 – 40.89%) | - | 0.73 (0.64 - 0.83) | 49.59% (40.37 – 58.82%) |
| 2 Combinations | | | | | | | |
| B1: PAC > 10 ng/dL + PRA < 1.0 ng/dL/hr | 79.76% (69.59 - 87.75%) | 35.90% (21.20 – 52.82%) | 72.83% (67.42 – 77.63%) | 45.16% (31.20 – 59.93%) | 1.24 (0.96 - 1.61) | 0.56 (0.31 - 1.02) | 65.85% (56.76 – 74.16%) |
| B2: PAC > 15 | 66.67% (55.54 – | 61.54% (44.62 – | 78.87% (70.94 – | 46.15% (36.69 – | 1.73 (1.13 - | 0.54 (0.37 | 65.04% (55.92 - |

| | Sensitivity, % | Specificity, % | PPV, % | NPV, % | LR+ | LR- | Accuracy, % |
|---|--|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-----------------------------|-------------------------------|
| | Estimate (95% CI) | | | | | | 70 |
| ng/dL + PRA < 1.0 ng/dL/hr | 76.58%) | 76.64%) | 85.10%) | 55.90%) | 2.65) | - 0.80) | 73.42%) |
| B3: PAC > 20 ng/dL + PRA < 1.0 ng/dL/hr | 48.81% (37.74 – 59.96%) | 79.49% (63.54 – 90.70%) | 83.67% (72.68 – 90.80%) | 41.89% (35.66 – 48.39%) | 2.38 (1.24 - 4.58) | 0.64 (0.50 - 0.84) | 58.54% (49.31 - 67.35%) |
| B4: PAC > 25 ng/dL + PRA < 1.0 ng/dL/hr | 41.67% (31.00 – 52.94%) | 89.74% (75.78 – 97.13%) | 89.74% (76.97 – 95.82%) | 41.67% (36.68 – 46.83%) | 4.06 (1.55 – 10.63) | 0.65 (0.53 - 0.80) | 56.91% (47.68 - 65.80%) |
| B5: PAC > 10 ng/dL + PRA < 0.6 ng/dL/hr | 67.86% (56.78 – 77.64%) | 43.59% (27.81 – 60.38%) | 72.15% (65.46 – 77.98%) | 38.64% (28.17 – 50.27%) | 1.20 (0.88 - 1.64) | 0.74 (0.46 - 1.18) | 60.16% (50.95- 68.88%) |
| B6: PAC > 15 ng/dL + PRA < 0.6 ng/dL/hr | 54.76% (43.52 – 65.66%) | 69.23% (52.43 – 82.98%) | 79.31% (69.73 – 86.45%) | 41.54% (34.15 – 49.33%) | 1.78 (1.07 - 2.96) | 0.65 (0.48 - 0.90) | 59.35% (50.12 – 68.11%) |
| B7: PAC > 20 ng/dL + PRA < 0.6 ng/dL/hr | 41.67% (31.00 – 52.94%) | 84.62% (69.47 – 94.14%) | 85.37% (72.82 – 92.70%) | 40.24% (34.97 – 45.75%) | 2.71 (1.24 - 5.90) | 0.69 (0.55 - 0.86) | 55.28% (46.06 - 64.25%) |
| B8: PAC > 25 ng/dL + PRA < 0.6 ng/dL/hr | 32.14% (22.36 – 43.22%) | 97.44% (86.52 - 99.94%) | 96.43% (79.19 - 99.48%) | 40.00% (36.33 – 43.79%) | 12.54 (1.77 – 88.95) | 0.70 (0.60 - 0.81) | 52.85% (43.64 - 61.91%) |
| Legend: PAC – plasma al PRA – plasma re Spont. hypoK – s PPV – positive p NPV – negative LR+ – positive lil LR- – negative lil | enin activity spontaneous hy redictive value predictive value kelihood ratio | ypokalemia | | | | | |

Table 4. Sparing confirmatory testing rate

| 3 combinations | Sparing confirmatory testing rate |
|--|--------------------------------------|
| A1: | 48.8% (41/84) |
| PAC > 10 ng/dL + PRA < 1.0 ng/dL/hr + spont. hypoK | |
| A2: | 44.0% (37/84) |
| PAC > 15 ng/dL + PRA < 1.0 ng/dL/hr + spont. hypoK | |
| A3: | 34.5% (29/84) |
| PAC > 20 ng/dL + PRA < 1.0 ng/dL/hr + spont. hypoK | |
| A4: | 27.4% (23/84) |
| PAC > 25 ng/dL + PRA < 1.0 ng/dL/hr + spont. hypoK | |
| A5: | 46.4% (39/84) |
| PAC > 10 ng/dL + PRA < 0.6 ng/dL/hr + spont. hypoK | |

| A6: | 41.7% (35/84) |
|--|---------------------------------------|
| PAC > 15 ng/dL + PRA < 0.6 ng/dL/hr + spont. hypoK | |
| A7: | 34.5% (29/84) |
| PAC > 20 ng/dL + PRA < 0.6 ng/dL/hr + spont. hypoK | 01.070 (20/01) |
| A8: | 27.4% (23/84) |
| PAC > 25 ng/dL + PRA < 0.6 ng/dL/hr + spont. hypoK | |
| 2 combinations | |
| B1: | 79.8% (67/84) |
| PAC > 10 ng/dL + PRA < 1.0 ng/dL/hr | , , , , , , , , , , , , , , , , , , , |
| B2: | 66.7% (56/84) |
| PAC > 15 ng/dL + PRA < 1.0 ng/dL/hr | |
| B3: | 48.8% (41/84) |
| PAC > 20 ng/dL + PRA < 1.0 ng/dL/hr | |
| B4: | 41.7% (35/84) |
| PAC > 25 ng/dL + PRA < 1.0 ng/dL/hr | |
| B5: | 67.9% (57/84) |
| PAC > 10 ng/dL + PRA < 0.6 ng/dL/hr | |
| B6: | 54.8% (46/84) |
| PAC > 15 ng/dL + PRA < 0.6 ng/dL/hr | |
| B7: | 41.7% (35/84) |
| PAC > 20 ng/dL + PRA < 0.6 ng/dL/hr | |
| B8: | 32.1% (27/84) |
| PAC > 25 ng/dL + PRA < 0.6 ng/dL/hr | |
| Legend: | |
| PAC – plasma aldosterone concentration | |
| PRA – plasma renin activity | |
| Spont. hypoK – spontaneous hypokalemia | |
| * The sparing confirmatory testing rate was defined as the num | abor of patients who can skin the |

* The sparing confirmatory testing rate was defined as the number of patients who can skip the confirmatory test for PA based on each criterion divided by the number of patients who were diagnosed as PA based on SIT confirmatory test.