WISCONSIN DIAGNOSTIC LABORATORIES

Testing Update

Effective September 17th, 2025
Aldosterone and Renin Measurement Change

WHO: All providers who order plasma aldosterone and renin testing, including Froedtert South.

WHAT: Renin evaluation is currently performed using Mayo Clinical Laboratories' plasma renin activity (PRA) assay. On Wednesday, September 17th, WDL will transition to direct renin concentration (DRC) testing in-house. DRC numeric results are approximately 8-fold higher than PRA values and are reported in different units. Both DRC and PRA are accepted by the Endocrine Society for the evaluation of hyperaldosteronism. Aldosterone will also transition from Mayo to in-house testing at WDL.

Standalone orders for aldosterone and PRA will be inactivated and replaced by a single order that includes both aldosterone and DRC (hyperaldosteronism evaluation, LAB9458). For adrenal vein sampling, the standalone aldosterone order will remain unchanged.

Hyperaldosteronism evaluation orders will be accompanied by the following result comment:

> *"Consider primary aldosteronism if direct renin concentration <8 pg/mL AND aldosterone ≥10 ng/dL*
>
> *To convert direct renin concentration (pg/mL) to plasma renin activity (ng/mL/h), divide direct renin concentration by approximately 8 (relationship is variable, factor may vary from 4-10)"*

Special Considerations: DRC may be lower in pregnant or breastfeeding women, or those taking estradiol-containing medications.

Aldosterone and DRC testing will be performed Monday through Friday.

PRA will remain available as a sendout (Mayo) but will transition to a miscellaneous request. The combined hyperaldosteronism eval (aldosterone + DRC, LAB9458) is the preferred order.

WHEN: September 17th, 2025

QUESTIONS:

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SUPPORT:

Any questions or concerns regarding this change can be directed to WDL Client Services at 414-805-7600. They will direct you to the appropriate person.

Thank you in advance for your prompt attention.