



To: UPHS Physicians and Staff

From: **Daniel Herman, HUP Endocrinology Lab Director**
Ping Wang, HUP Auto Lab Director
Ted Rutledge, HUP Auto/Endocrinology Lab Manager

Date: May 16, 2023

Re: **Changes to HUP Prolactin testing**

The HUP laboratory will be changing the method for prolactin testing on 05/31/2023. The performance of these immunoassays will be moved from a Beckman instrument in the Endocrinology laboratory to a Roche instrument in the Automated laboratory. The prolactin results are expected to be approximately 30% higher on average.

To facilitate rebaselining of patients being monitored longitudinally, we will be performing and reporting both prolactin tests for 3 months (through 08/31/2023).

Other relevant changes:

- Prolactin testing will now be available 24/7.
- The new method reports results up to 23,500 ng/mL. (The method is FDA-cleared up to 4,700 ng/mL and we have verified further dilution).
- The method is reported to not be affected by hook effect up to 12,690 ng/mL and all results > 470 ng/mL are reported following dilution.
 - For results <= 470 ng/mL, if suspicion that results are falsely low due to hook effort, please contact the laboratory for evaluation.

- There are now single reference intervals reported for female and non-binary patients:

<i>Prolactin reference interval (ng/mL)</i>	
<i>Male</i>	4.04 – 15.20
<i>Female (not pregnant)</i>	4.79 – 23.30
<i>Gender X</i>	4.79 – 15.20

For clinical questions related to this change, please contact the Chemistry Resident on-call. For operational questions related to this change, please contact laboratory manager Ted Rutledge (Theodore.Rutledge@penmedicine.upenn.edu).

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