

Leaders in Laboratory Medicine

Laboratory Bulletin

DATE:	31 May 2021
	Calgary and South Zone Physicians, Central Zone Sites Referring to Calgary, Nursing Staff and Laboratory Staff
FROM:	Clinical Biochemistry, South Sector, Alberta Precision Laboratories (APL)
RE:	Change in Urine and Salivary Cortisol Testing Methodology

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Key Message

- Effective June 1, 2021, urine and salivary cortisol testing in Calgary and Southern Alberta will be performed by Liquid Chromatography-Mass Spectrometry (LC-MS/MS)
- Reference intervals will be updated for 24 hour urine and salivary cortisol as below to harmonize with the Edmonton zone

Test	Updated Range
Urine 24 Hour Cortisol	< 230 nmol/day
Salivary Cortisol	AM (07:00 - 09:00): 2.8 – 21.0 nmol/L PM (23:00 – Midnight): < 2.8 nmol/L

 Salivary cortisol reference intervals will be appended as comments and will no longer flag in Millennium, Netcare or SCM

Why this is Important

- LC-MS/MS Methods are more specific than immunoassays, thus are less prone to interferences by exogenous or endogenous steroids
 - To accommodate the higher specificity, new reference intervals are employed
 - o A comment will be appended stating the new methodology was used for testing
- AM and PM Salivary Cortisol test orders will be consolidated into a single orderable test
- Consult the Test Directory for details on how to obtain a Salivary Cortisol collection device and changes in Urine Cortisol reference interval

Action Required

- No change for 24 Hour Urine Cortisol
- Salivary Cortisol will no longer flag as elevated

Inquiries and feedback may be directed to

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