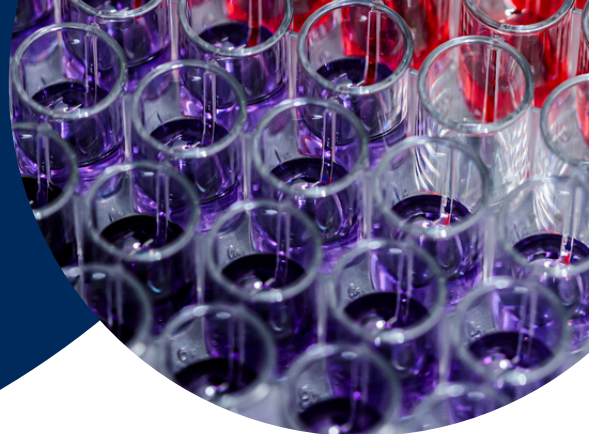




Cortisol assays list

Resource from the UofT
LMP Quality Council



January 2022

Cortisol assays are poorly standardized across different platforms and methods. A single cortisol cut-off for the ACTH Stimulation Test for adrenal deficiency often differs depending on the testing laboratory. Laboratories generally do not include thresholds for ACTH Stimulation Tests on their reports.

The list below provides the immunoassays used to assist Endocrinologists in the interpretation of cortisol levels where bias may exist between laboratories. Please contact the laboratory's biochemist for further information.

Manufacturer: Abbott

Laboratory	Platform	Method	Biochemist contact
LifeLabs	Architect	CMIA	Dr. Uvaraj Uddayasankar
Sickkids	Architect	CMIA	Dr. Lusya Sepiashvili
CAMH	Alinity	CMIA	Dr. Cristiana Stefan
UHN	Alinity	CMIA	Dr. Vathany Kulasingam

Manufacturer: Beckmann

Laboratory	Platform	Method	Biochemist contact
Scarborough	UniCel Dxl	CLIA	Dr. Zahraa Mohammed-Ali
Mackenzie	UniCel Dxl	CLIA	Maria De Oliveira

Manufacturer: Roche

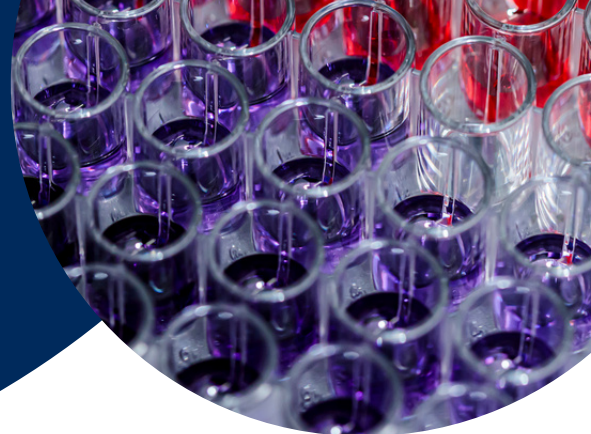
Laboratory	Platform	Method	Biochemist contact
Dynacare	Elecsys	ECLIA	Dr. Hui Li
Humber River	Elecsys	ECLIA	Dr. Atoosa Rezvanpour
Markham Stouffville	Elecsys	ECLIA	Dr. Daniel Beriault
Michael Garron	Elecsys	ECLIA	Dr. Paul Yip
Mount Sinai	Elecsys	ECLIA	Dr. Felix Leung
North York	Elecsys	ECLIA	Dr. Paul Yip
Sunnybrook	Elecsys	ECLIA	Dr. Lei Fu
Women's College	Elecsys	ECLIA	Dr. Felix Leung

Key to Method Principle in table

CMIA: Chemiluminescent Microparticle Immunoassay

CLIA: Chemiluminescence Immunoassay

ECLIA: Electrochemiluminescence Immunoassay



Cortisol assays list

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Manufacturer: Siemens

Laboratory	Platform	Method	Biochemist contact
Lakeridge	Centaur XPT	CLIA	Dr. Rajeevan Selvaratnam
St. Michael's	Centaur XP	CLIA	Dr. Daniel Beriault
St. Joseph's	Centaur XP	CLIA	Dr. Daniel Beriault
Trillium	Centaur XP	CLIA	Dr. Kun-Young Sohn
William Osler	Atellica	CLIA	Dr. Saranya Arnoldo

References

- Serum Cortisol: An Up-To-Date Assessment of Routine Assay Performance. <https://doi.org/10.1373/clinchem.2016.255034>
- Screening for Nonclassic Congenital Adrenal Hyperplasia in the Era of Liquid Chromatography-Tandem Mass Spectrometry. <https://doi.org/10.1210/jendso/bvz030>
- Clinical implications for biochemical diagnostic thresholds of adrenal sufficiency using a highly specific cortisol immunoassay. <https://doi.org/10.1016/j.clinbiochem.2017.02.008>

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This document was developed by the Clinical Laboratory Quality Indicators and harmonization across the GTA hospitals Working Group of the Quality Council, Department of Laboratory Medicine and Pathobiology, University of Toronto.