

DATE:	2022 October 3
TO:	Edmonton, North, and Central Zones
FROM:	DynaLIFE Medical Labs and Alberta Precision Laboratories
RE:	Update to DHEA-S reference intervals (only applicable to locations that send testing to DynaLIFE)

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Key Message

Effective October 6, 2022 the method used to measure dehydroepiandrosterone sulfate (DHEA-S) at DynaLIFE will change. This change will allow samples from patients ≤11 years of age to be analyzed in-house for DHEA-S. Due to the difference in DHEA-S results obtained on the two methods, DHEA-S reference intervals will change.

Background

- With the previous method, samples from patients ≤11 years of age were sent to an external laboratory for DHEA-S measurement, prolonging turnaround time.
- Measuring DHEA-S on the new method will allow samples from patients ≤11 years of age to be analyzed accurately in-house
- DHEA-S results differ between the old and new method, requiring new reference intervals

How this will impact you

- The reference intervals for DHEA-S will change

Previous State

Age	DHEA-S (µmol/L)	
	Male, Unknown/X	Female
11-<30y	<17.5	<11.0
30-<50y	<14.0	<11.0
50-<60y	<8.5	<5.4
60-<70y	<7.9	<3.5
≥70y	<4.7	<2.4



New State

Age	DHEA-S (µmol/L)		
	Male	Female	Unknown/X
< 7 days	2.9-16.5		
7 days to <30 days	0.9-11.7		
30 days to < 1 year	<3.4		
1 year to < 5 years	<0.5		
5 years to < 10 years	<2.3		
10 years to < 15 years	0.7-6.7	0.9-7.6	0.7-7.6
15 years to < 20 years	1.9-13.4	1.8-10.0	1.8-13.4
20 years to < 35 years	4.3-13.4	2.7-11.0	2.7-13.4
35 years to < 55 years	1.2-11.6	1.0-9.2	1.0-11.6
55 years to < 75 years	0.9-8.0	0.3-6.7	0.3-8.0
≥75 years	0.4-3.3	0.3-4.2	0.3-4.2

Action Required

- Be aware of the new DHEA-S reference intervals

Questions/Concerns

- DynaLIFE Clinical Chemists, 780-451-3702 ext. 3572, clinical.chemists@dynamlife.ca

Approved by

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