ALBERTA PRECISION

Leaders in Laboratory Medicine



DATE:2022 June 13TO:All healthcare professionals in Central, Edmonton, and North Zone

**FROM:** Alberta Precision Laboratories (APL) North Sector, and DynaLIFE Medical Labs

**RE:** Standardization of Estradiol Reference Intervals and Interpretive Comments

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### Key Message

- Effective **June 21**, **2022**, provincially standardized reference intervals (RIs) and interpretative comments for Estradiol will be implemented at DynaLIFE Medical Labs and University of Alberta Hospital.
- These changes will help optimize test interpretation and are important for supporting laboratory standardization efforts across the province.

#### How this will impact you

Current Estradiol RIs and Selected Interpretative Comments			Provincially Standardized Estradiol RIs and Interpretive Comments			
Age	Gender	RI, pmol/L		Age	Gender	RI, pmol/L
0 to <1 month	F, M, U, X	<370		0 to <1 month	F, M, U, X	<350
1 month to <10 years	F, M, U, X	<70		1 month to <10 years	F, M, U, X	<30
>=10 years	F	*Comment		>=10 years	F	*Comment
>=10 years	М	<200		>=10 years	М	<160
>=10 years	U, X	**Comment		>=10 years	U, X	**Comment
* Reference Interval: Follicular: 70 - 680 pmol/L Midcycle: 550 - 1950 pmol/L Luteal: 200 - 780 pmol/L Post-menopausal: <= 115 pmol/L			* Reference Interval: Follicular: 110 - 330 pmol/L Midcycle: 220 - 1960 pmol/L Luteal: 220 - 850 pmol/L Post-menopausal: <= 500 pmol/L			
** Appended comment includes male and female reference intervals.			** Appended comment includes male and female reference intervals.			
			Additional comment for F, M, U, X ages 10 to <18 years Clinical correlation with puberty status suggested.			

F, Female; M, Male; U, Unknown; X, Gender X

### **Action Required**

• Be aware of updates to Estradiol RIs and interpretative comments outlined in the above table.

## **Questions/Concerns**

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## Approved by

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