

LABORATORY MEDICINE BULLETIN

Official communication from the Division of Laboratory Services Date: 2016-03-07

Estradiol (E2) Reference Interval Update - Amended

Audience:	Internal and External Clients
ssuing Dept.:	Biochemistry, Dept. of Clinical Pathology
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Due to a recent change in reagent formulation, the reference intervals for serum estradiol (E2) concentrations are revised as follows, effective Mar 2, 2016:

	E2, pmol/L
Adult Males	<223
Adult Females	
Follicular phase	<854
Ovulation phase	151-1461
Luteal phase	82-1251
Postmenopausal	<505

Each reference limit/interval above represents either the 97.5th centile (limit) or the 2.5th and 97.5th centiles (interval) of a population of healthy Caucasian adults. Reference limits/intervals for postmenopausal women have been verified locally. A more detailed summary of the manufacturer's data is appended below (see Appendix). Given the large variability and uncertainty (grey zone) of reference limits, results should be interpreted with caution and due attention to the clinical context.

If you have further questions or comments, please contact the Sunnybrook Laboratories directly.

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Appendix:

Reference intervals for Serum Estradiol Concentrations (pmol/L) in Caucasians

	2.5 th centile (90% CI)	97.5 th centile (90% CI)	Ν
Adult Males	-	223 (194-232)	146
Adult Females			
Follicular phase	45 (23-61)	854 (633-1154)	146
Ovulation phase	151 (105-158)	1461 (1162-1925)	150
Luteal phase	82 (28-127)	1251 (1077-2759)	151
Postmenopausal	-	505 (189-1150)	142
Pregnant Females			
1 st trimester	563 (467-636)	11902 (9891-15271)	136
2 nd trimester	5729 (4173-7457)	78098 (69143-92227)	140
3 rd trimester	31287 (27151-34175)	>110100 (107164->110100)	138

Note: Reference intervals for individuals under the age of 18 were not available.

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