

Date 17 June 2020

**Re: Updated reference ranges for Biochemistry tests**

**To: All service users**

Following routine review and in line with manufacturer's instructions and/or updated guidelines, MedLab pathology will be updating the reference ranges for the tests listed below.

TEST NAME	TEST ABBREV.	SAMPLE TYPE	UNITS	GENDER/AGE	Current values	New values*
GENERAL CHEMISTRY						
UREA	UREA	SERUM	mmol/L	Adults	2.7-8.0	2.8 - 8.1
ALKALINE PHOSPHATASE	ALP	SERUM	U/L	ADULT(Male)	40-130	40-129
ALKALINE PHOSPHATASE	ALP	SERUM	U/L	ADULT(Female)	35-105	35-104
PHOSPHATE	PHOS	SERUM	mmol/L	Adults	0.80-1.45	0.81-1.45
URIC ACID	UA	SERUM	µmol/L	FEMALE	142-340	143-339
IMMUNOCHEMISTRY/ENDOCRINOLOGY						
ESTRADIOL	E2	SERUM	pmol/L	MALE	94.8-223	41.4-159
ESTRADIOL	E2	SERUM	pmol/L	FEMALE(FP)	45.4-854	114-332
ESTRADIOL	E2	SERUM	pmol/L	FEMALE(OP)	151-1461	222-1959
ESTRADIOL	E2	SERUM	pmol/L	FEMALE(LP)	81.9-1251	222-854
ESTRADIOL	E2	SERUM	pmol/L	FEMALE(PM)	<18.4-505	<505
PROGESTERONE	PROG	SERUM	nmol/L	FEMALE(FP)	0.18-2.84	<0.62
PROGESTERONE	PROG	SERUM	nmol/L	FEMALE(OP)	0.39-38.1	0.18-13.2
PROGESTERONE	PROG	SERUM	nmol/L	FEMALE(LP)	5.82-75.9	13.1-46.3

\*values based on manufacture's recommendations

This above changes will be effective as of 20 July 2020.

If you have any queries or would like additional information regarding these updates please do not hesitate to contact us on 1800 303 349 or email is at [info@medlabpathology.ie](mailto:info@medlabpathology.ie)

Kind regards,



Dr Saradha Srinivasan  
MCRN: 16390  
Consultant Chemical Pathologist

MedLab Pathology Ltd., Unit 3, Sandyford Business Centre, Sandyford Business Park, Dublin 18, Ireland  
Tel: +353 (0) 1 2933690 Fax: +353 (0) 1 2933671 [www.medlabpathology.ie](http://www.medlabpathology.ie)

**MedLab Pathology Limited** is a member of the sonic healthcare group of companies. Registered Office: 25-28 North Wall Quay, Dublin 1.  
Directors: Eamonn Madden (Irish), David Byrne (British), Colin Goldschmidt (Australian), Christopher Wilks (Australian).  
Registered in Ireland No: 484276.