

LH															
Description	Luteinising hormone is an anterior pituitary hormone.														
Indication	Determination of LH in conjunction with FSH is utilised for the following indications: infertility, menopause, clarifying the causes of amenorrhoea, polycystic ovaries (PCO), congenital diseases with chromosome aberrations (e.g. Turner's syndrome), and suspected Leydig cell insufficiency.														
Additional Info	LH is a glycoprotein consisting of two subunits (alpha- and beta chains). In women the gonadotrophins act within the hypothalamus-pituitary-ovary axis regulating circuit to control the menstrual cycle. LH and FSH are released in pulses from the gonadotrophic cells of the anterior pituitary (under the influence of gonadotrophic releasing hormone GnRH) and pass via the bloodstream to the ovaries. Here the gonadotrophins stimulate the growth and maturation of the follicle and hence the biosynthesis of oestrogens and progesterones. The highest LH concentrations occur during the mid-cycle peak and induce ovulation and the formation of the corpus luteum, the principle secretion product of which is progesterone. In the Leydig cells of the testes, LH stimulates the production of testosterone.														
Concurrent Tests	Oestradiol, SHBG, testosterone														
Dietary Requirements	The patient need not be fasting and no special preparations are necessary.														
Interpretation	<p>It is important to note the time during the menstrual cycle In women.</p> <p>Reference ranges -:</p> <table> <tr> <td>Male <75</td> <td>2-10 U/L</td> </tr> <tr> <td>Male >75</td> <td>2-20 U/L</td> </tr> <tr> <td colspan="2">Female</td> </tr> <tr> <td>Follicular phase</td> <td>3-8 U/L</td> </tr> <tr> <td>Midcycle</td> <td>20-80 U/L</td> </tr> <tr> <td>Luteal phase</td> <td>3-13 U/L</td> </tr> <tr> <td>Post-menopausal</td> <td>>40 U/L</td> </tr> </table>	Male <75	2-10 U/L	Male >75	2-20 U/L	Female		Follicular phase	3-8 U/L	Midcycle	20-80 U/L	Luteal phase	3-13 U/L	Post-menopausal	>40 U/L
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Collection Conditions	N/A														
Frequency of testing	As required														