Test Definition: LH

Luteinizing Hormone (LH), Serum

Reporting Title: Luteinizing Hormone (LH), S
Performing Location: Rochester

Specimen Requirements:

Container/Tube:
Preferred: Serum gel
Acceptable: Red top
Specimen Volume: 0.6 mL

Specimen Type	Temperature	Time
Serum	Refrigerated (preferred)	7 days
	Frozen	7 days

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
LH	Luteinizing Hormone (LH), S	Numeric	IU/L	10501-5

CPT Code: 1 × 83002

Reference Values:

Males
0-14 days: not established
15 days-10 years: 0.3-2.8 IU/L
11 years: 0.3-1.8 IU/L
12 years: 0.3-4.0 IU/L
13 years: 0.3-6.0 IU/L
14 years: 0.5-7.9 IU/L
15-16 years: 0.5-10.8 IU/L
17 years: 0.9-5.9 IU/L
> or =18 years: 1.8-8.6 IU/L

TANNER STAGES*
Stage I: 0.3-2.7 IU/L
Stage II: 0.3-5.1 IU/L
Stage III: 0.3-6.9 IU/L
Stage IV: 0.5-5.3 IU/L
Stage V: 0.8-11.8 IU/L
*Puberty onset occurs for boys at a median age of 11.5 (+/- 2) years. For boys there is no proven relationship between puberty onset and body weight or ethnic origin. Progression through Tanner stages is variable. Tanner stage V (adult) should be reached by age 18.

Females
0-14 days: not established
15 days-3 years: 0.3-2.5 IU/L
4-6 years: < or =1.9 IU/L
7-8 years: < or =3.0 IU/L
9-10 years: < or =4.0 IU/L
11 years: < or =6.5 IU/L
12 years: 0.4-9.9 IU/L
13 years: 0.3-5.4 IU/L
14 years: 0.5-31.2 IU/L
15 years: 0.5-20.7 IU/L
16 years: 0.4-29.4 IU/L
17 years: 1.6-12.4 IU/L
> or =18 years
Premenopausal
Follicular: 2.1-10.9 IU/L
Midcycle: 20.0-100.0 IU/L
Luteal: 1.2-12.9 IU/L
Postmenopausal: 10.0-60.0 IU/L

TANNER STAGES*
Stage I: < or =2.0 IU/L
Stage II: < or =6.5 IU/L
Stage III: 0.3-17.2 IU/L
Stage IV: 0.5-26.3 IU/L
Stage V: 0.6-13.7 IU/L
*Puberty onset (transition from Tanner stage I to Tanner stage II) occurs for girls at a median age of 10.5 (+/- 2) years. There is evidence that it may occur up to 1 year earlier in obese girls and in African American girls. Progression through Tanner stages is variable. Tanner stage V (adult) should be reached by age 18.

Pediatric ranges derived for DXI method from analytic comparison to reference method in: Elmlinger MW, Kuhnel W, Ranke MB: Reference ranges for serum concentrations of lutropin (LH), follitropin (FSH), estradiol (E2), prolactin, progesterone, sex hormone-binding globulin (SHBG), dehydroepiandrosterone sulfate (DHEAS), cortisol and ferritin in neonates, children and young adults. Clin Chem Lab Med 2002;40(11):1151-1160