Laboratory Service Manual

Lab Dept: Chemistry

Test Name: 17-OH PROGESTERONE

General Information

Lab Order Codes: 17OHP

Synonyms: Hydroxyprogesterone 17; Progesterone 17-OH; 17OHP

CPT Codes: 83498 – Hydroxyprogesterone, 17d

Test Includes: N/A

Logistics

Test Indications: Marker for adrenal (21-hydroxylase) enzyme deficiency

Lab Testing Sections: Chemistry - Sendouts

Referred to: Esoterix, Inc. (Test# 500270)

Phone Numbers:

Minneapolis: 612-813-6280

Saint Paul: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 2 - 4 days

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: Red top tube

Draw Volume: 3.0 mL blood

Processed Volume: 1.0 mL (Minimum: 0.1 mL) serum

Note: Minimum volume does not permit repeat analysis.

Children's Hospitals and Clinics of Minnesota

Collection: Routine venipuncture

Special Processing: Lab Staff: Centrifuge specimen within 1 hour of collection. Remove serum aliquot into a screw-capped round bottom plastic vial. Store and ship at frozen temperatures. Forward promptly.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimens

Interpretive

Reference Range:

Premature Infants:				
26 – 28 weeks, day 4	124 – 841 ng/dL			
31 – 35 weeks, day 4	26 – 568 ng/dL			
Full Term Infants:				
3 days	7 – 77 ng/dL			
1 – 11 months	Male:	Female:		
	Levels increase after the first week to peak values ranging from 40 – 200 ng/dL between 30 and 60 days. Values then decline to Prepubertal range for 1 year.	13 – 106 ng/dL		
Prepubertal Children:				
1 – 10 years:	3 – 90 ng/dL			
Puberty:	Male:		Female	
Tanner Stage:	Age (yrs)	Range ng/dL	Age (yrs)	Range ng/dL
1	<9.8	3 – 90 Mean: 38	<9.2	3 – 82 Mean: 31
2	9.8 – 14.5	5 – 115 Mean: 51	9.2 – 13.7	11 - 98 Mean: 49
3	10.7 – 15.4	10 - 138 Mean: 57	10.0 – 14.4	11 - 155 Mean: 70

4	11.8 – 16.2	29 - 180 Mean: 80	10.7 – 15.6	18 - 230 Mean: 91
5	12.8 – 17.3	24 – 175 Mean: 97	11.8 – 18.6	20 - 265 Mean: 108
Adults:	Male:		Female:	
	29 – 199 ng/dL		Follicular:	15 – 70 ng/dL
			Luteal:	35 – 290 ng/dL

Critical Values: N/A

Limitations: N/A

Methodology: HPLC tandem mass spectrometry

References: Esoterix, Inc. Web Page www.esoterix.com

Updates: 9/29/2009: Updated method, reference values