

### 17-Hydroxyprogesterone and Pregnenolone

**Effective Date: May 3, 2016**

Effective May 3, 2016 the 17-Hydroxyprogesterone and Pregnenolone will be moving from Esoterix (LabCorp) to ARUP. In doing so, the reference ranges will be changing. Any patient being trended will need to have a new baseline.

Specimen collection and processing will remain unchanged

<b>Synonyms</b>	Pregnenolone: XPRGN, LAB6135 17-Hydroxyprogesterone: X17YP
<b>Specimen Collection Criteria</b>	Specimen collection is unchanged. One Gold-top SST or plain red-top clot tube.
<b>Physician Office/Draw Site Specimen Preparation</b>	Let specimen clot then centrifuge to separate serum from cells within one hour of collection. Transfer serum to a plastic transport tube and freeze (-20°C/-4°F or below)
<b>Specimen Preparation for Courier Transport</b>	1.0 mL serum, frozen (-20°C/-4°F or below).

### Pregnenolone

Age	ARUP		Esoterix (LabCorp)	
	Female	Male	Female	Male
6-12 months	13-327 ng/dL	13-327 ng/dL	Premature (26-28w) Day 4 260-2104	
13-23 months	12-171 ng/dL	12-171 ng/dL	Premature (34-36w) Day 4 203-1024	
2-4 years	15-125 ng/dL	10-125 ng/dL	Neonates(1-7d) 150-2000	
5-6 years	13-191 ng/dL	10-156 ng/dL	Pubertal and adults <151 ng/dL	
7-9 years	14-150 ng/dL	13-205 ng/dL	Prepubertal 20-140 ng/dL	
10-12 years	19-220 ng/dL	15-151 ng/dL		
13-15 years	22-210 ng/dL	18-197 ng/dL		
16-17 years	22-229 ng/dL	17-228 ng/dL		
18 years and older	15-132 ng/dL	23-173 ng/dL		
Tanner Stage I	15-171 ng/dL	13-156 ng/dL		
Tanner Stage II	22-229 ng/dL	12-143 ng/dL		
Tanner Stage III	34-215 ng/dL	16-214 ng/dL		
Tanner Stage IV-V	26-235 ng/dL	19-201 ng/dL		

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### 17-Hydroxyprogesterone

Age	ARUP		Esoterix (LabCorp)	
	Female	Male	Female	Male
Premature (26-28 weeks)	124-841 ng/dL	124-841 ng/dL	124-841	124-841
Premature (29-35 weeks)	26-568 ng/dL	26-568 ng/dL	26-568	26-568
Full term Day 3	7-77 ng/dL	7-77 ng/dL	<78	<78
4 days-30 days	7-106 ng/dL	Less than 200 ng/dL	1-11 Months 13-106	Values increase after the first week from 40-200 between 30 and 60 days. Then decline to <91 by 1 year
1 month-2 months	13-106 ng/dL	Less than 200 ng/dL		
3 months-5 months	13-106 ng/dL	3-90 ng/dL		
6 months-1 year	Less than or equal to 148 ng/dL	Less than or equal to 148 ng/dL	Prepubertal <91	Prepubertal <91
2-3 years	Less than or equal to 256 ng/dL	Less than or equal to 228 ng/dL		
4-6 years	Less than or equal to 299 ng/dL	Less than or equal to 208 ng/dL		
7-9 years	Less than or equal to 71 ng/dL	Less than or equal to 63 ng/dL		
10-12 years	Less than or equal to 129 ng/dL	Less than or equal to 79 ng/dL		
13-15 years	9-208 ng/dL	9-140 ng/dL		
16-17 years	Less than or equal to 178 ng/dL	24-192 ng/dL	27-199	
18 years and older	Less than 207 ng/dL	Less than 139 ng/dL		
Follicular	15-70 ng/dL	Does Not Apply	15-70	NA
Luteal	35-290 ng/dL	Does Not Apply	35-290	NA
Tanner Stage I	Less than or equal to 74 ng/dL	Less than or equal to 62 ng/dL	<83	<91
Tanner Stage II	Less than or equal to 164 ng/dL	Less than or equal to 104 ng/dL	11-98	<116
Tanner Stage III	13-209 ng/dL	Less than or equal to 151 ng/dL	11-155	10-138
Tanner Stage IV-V	7-170 ng/dL	20-173 ng/dL	IV - 18-230 V-20-265	IV - 29-180 V- 24-175

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If you have questions, please contact Client Services (1-800-551-0488, option 5).

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**Date submitted:** 04/01/2016

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