



A LabCorp Company

January 17, 2010

Endocrinology Service Update: Reporting Unit & Reference Range Change

Test Title: Estradiol by HPLC-MS/MS

Test Code: 500152

CPT Code: 82670 (no change)

Effective Date: March 8, 2010

Explanation of change: The new reporting unit and reference range for Estradiol by HPLC-MS/MS will be expressed in units of pg/mL.

In an effort to make Estradiol reporting units consistent with industry standards, Esoterix will be converting all results and reference ranges from the previous reporting unit of ng/dL to the new reporting unit of pg/mL. There is no change in the assay performance, methodology, specimen requirements, or pricing.

Please refer to the attached chart for updated reference range for the new reporting units. For additional information, please call us at (800) 444-9111. We value you as a customer and thank you for choosing Esoterix.

Description	Predicate Reference Range – ng/dL	New Reference Range – pg/mL																																																																																																
Reference Range Estradiol, HPLC-MS/MS	<p>Gender Range (ng/dL)</p> <p>Newborn: Levels are markedly elevated at birth and fall rapidly during the first week to prepubertal values of < 1.5 ng/dL.</p> <p>Male (1-6mo): Levels increase to 1.0 – 3.2 ng/dL between 30 and 60 days, then decline to prepubertal levels of < 1.5 ng/dL by six months.</p> <p>Female (1-11mo): Levels increase to 0.5 – 5.0 ng/dL between 30 and 60 days, then decline to prepubertal levels of < 1.5 ng/dL during the first year.</p> <p>Prepubertal Children 1-10 years: < 1.5 ng/dL</p> <p>Pubertal Males</p> <table border="1" data-bbox="440 1102 976 1339"> <thead> <tr> <th>Tanner Stage</th> <th>Age (Years)</th> <th>Range (ng/dL)</th> <th>Mean (ng/dL)</th> </tr> </thead> <tbody> <tr><td>1</td><td><9.8</td><td>0.5 – 1.1</td><td>0.8</td></tr> <tr><td>2</td><td>9.8 – 14.5</td><td>0.5 – 1.6</td><td>1.1</td></tr> <tr><td>3</td><td>10.7 – 15.4</td><td>0.5 – 2.5</td><td>1.6</td></tr> <tr><td>4</td><td>11.8 – 16.2</td><td>1.0 – 3.6</td><td>2.2</td></tr> <tr><td>5</td><td>12.8 – 17.3</td><td>1.0 – 3.6</td><td>2.1</td></tr> </tbody> </table> <p>Pubertal Females</p> <table border="1" data-bbox="440 1402 976 1640"> <thead> <tr> <th>Tanner Stage</th> <th>Age (Years)</th> <th>Range (ng/dL)</th> <th>Mean (ng/dL)</th> </tr> </thead> <tbody> <tr><td>1</td><td><9.2</td><td>0.5 – 2.0</td><td>0.8</td></tr> <tr><td>2</td><td>9.2 – 13.7</td><td>1.0 – 2.4</td><td>1.6</td></tr> <tr><td>3</td><td>10.0 – 14.4</td><td>0.7 – 6.0</td><td>2.5</td></tr> <tr><td>4</td><td>10.7 – 15.6</td><td>2.1 – 8.5</td><td>4.7</td></tr> <tr><td>5</td><td>11.8 – 18.6</td><td>3.4 – 17</td><td>11</td></tr> </tbody> </table> <p>Gender Range (ng/dL)</p> <p>Adult Males: 0.8 – 3.5</p> <p>Adult Females</p> <p>Follicular: 3 – 10</p> <p>Luteal: 7 – 30</p> <p>Postmenopausal: < 1.5</p>	Tanner Stage	Age (Years)	Range (ng/dL)	Mean (ng/dL)	1	<9.8	0.5 – 1.1	0.8	2	9.8 – 14.5	0.5 – 1.6	1.1	3	10.7 – 15.4	0.5 – 2.5	1.6	4	11.8 – 16.2	1.0 – 3.6	2.2	5	12.8 – 17.3	1.0 – 3.6	2.1	Tanner Stage	Age (Years)	Range (ng/dL)	Mean (ng/dL)	1	<9.2	0.5 – 2.0	0.8	2	9.2 – 13.7	1.0 – 2.4	1.6	3	10.0 – 14.4	0.7 – 6.0	2.5	4	10.7 – 15.6	2.1 – 8.5	4.7	5	11.8 – 18.6	3.4 – 17	11	<p>Gender Range (pg/mL)</p> <p>Newborn: Levels are markedly elevated at birth and fall rapidly during the first week to prepubertal values of < 15 pg/mL.</p> <p>Male (1-6mo): Levels increase to 10 – 32 pg/mL between 30 and 60 days, then decline to prepubertal levels of < 15 pg/mL by six months.</p> <p>Female (1-11mo): Levels increase to 5.0 – 50 pg/mL between 30 and 60 days, then decline to prepubertal levels of < 15 pg/mL during the first year.</p> <p>Prepubertal Children 1-10 years: < 15 pg/mL</p> <p>Pubertal Males</p> <table border="1" data-bbox="976 1102 1500 1339"> <thead> <tr> <th>Tanner Stage</th> <th>Age (Years)</th> <th>Range (pg/mL)</th> <th>Mean (pg/mL)</th> </tr> </thead> <tbody> <tr><td>1</td><td><9.8</td><td>5.0 – 11</td><td>8.0</td></tr> <tr><td>2</td><td>9.8 – 14.5</td><td>5.0 – 16</td><td>11</td></tr> <tr><td>3</td><td>10.7 – 15.4</td><td>5.0 – 25</td><td>16</td></tr> <tr><td>4</td><td>11.8 – 16.2</td><td>10 – 36</td><td>22</td></tr> <tr><td>5</td><td>12.8 – 17.3</td><td>10 – 36</td><td>21</td></tr> </tbody> </table> <p>Pubertal Females</p> <table border="1" data-bbox="976 1402 1500 1640"> <thead> <tr> <th>Tanner Stage</th> <th>Age (Years)</th> <th>Range (pg/mL)</th> <th>Mean (pg/mL)</th> </tr> </thead> <tbody> <tr><td>1</td><td><9.2</td><td>5.0 – 20</td><td>8.0</td></tr> <tr><td>2</td><td>9.2 – 13.7</td><td>10 – 24</td><td>16</td></tr> <tr><td>3</td><td>10.0 – 14.4</td><td>7.0 – 60</td><td>25</td></tr> <tr><td>4</td><td>10.7 – 15.6</td><td>21 – 85</td><td>47</td></tr> <tr><td>5</td><td>11.8 – 18.6</td><td>34 – 170</td><td>110</td></tr> </tbody> </table> <p>Gender Range (pg/mL)</p> <p>Adult Males: 8.0 – 35</p> <p>Adult Females</p> <p>Follicular: 30 – 100</p> <p>Luteal: 70 – 300</p> <p>Postmenopausal: < 15</p>	Tanner Stage	Age (Years)	Range (pg/mL)	Mean (pg/mL)	1	<9.8	5.0 – 11	8.0	2	9.8 – 14.5	5.0 – 16	11	3	10.7 – 15.4	5.0 – 25	16	4	11.8 – 16.2	10 – 36	22	5	12.8 – 17.3	10 – 36	21	Tanner Stage	Age (Years)	Range (pg/mL)	Mean (pg/mL)	1	<9.2	5.0 – 20	8.0	2	9.2 – 13.7	10 – 24	16	3	10.0 – 14.4	7.0 – 60	25	4	10.7 – 15.6	21 – 85	47	5	11.8 – 18.6	34 – 170	110
Tanner Stage	Age (Years)	Range (ng/dL)	Mean (ng/dL)																																																																																															
1	<9.8	0.5 – 1.1	0.8																																																																																															
2	9.8 – 14.5	0.5 – 1.6	1.1																																																																																															
3	10.7 – 15.4	0.5 – 2.5	1.6																																																																																															
4	11.8 – 16.2	1.0 – 3.6	2.2																																																																																															
5	12.8 – 17.3	1.0 – 3.6	2.1																																																																																															
Tanner Stage	Age (Years)	Range (ng/dL)	Mean (ng/dL)																																																																																															
1	<9.2	0.5 – 2.0	0.8																																																																																															
2	9.2 – 13.7	1.0 – 2.4	1.6																																																																																															
3	10.0 – 14.4	0.7 – 6.0	2.5																																																																																															
4	10.7 – 15.6	2.1 – 8.5	4.7																																																																																															
5	11.8 – 18.6	3.4 – 17	11																																																																																															
Tanner Stage	Age (Years)	Range (pg/mL)	Mean (pg/mL)																																																																																															
1	<9.8	5.0 – 11	8.0																																																																																															
2	9.8 – 14.5	5.0 – 16	11																																																																																															
3	10.7 – 15.4	5.0 – 25	16																																																																																															
4	11.8 – 16.2	10 – 36	22																																																																																															
5	12.8 – 17.3	10 – 36	21																																																																																															
Tanner Stage	Age (Years)	Range (pg/mL)	Mean (pg/mL)																																																																																															
1	<9.2	5.0 – 20	8.0																																																																																															
2	9.2 – 13.7	10 – 24	16																																																																																															
3	10.0 – 14.4	7.0 – 60	25																																																																																															
4	10.7 – 15.6	21 – 85	47																																																																																															
5	11.8 – 18.6	34 – 170	110																																																																																															



A LabCorp Company

January 17, 2010

Endocrinology Service Update: Reporting Unit & Reference Range Change

Test Title: Estrone by HPLC-MS/MS

Test Code: 500172

CPT Code: 82679 (no change)

Effective Date: March 8, 2010

Explanation of change: The new reporting unit and reference range for Estrone by HPLC-MS/MS will be expressed in units of pg/mL.

In an effort to make Estrone reporting units consistent with industry standards, Esoterix will be converting all results and reference ranges from the previous reporting unit of ng/dL to the new reporting unit of pg/mL. There is no change in the assay performance, methodology, specimen requirements, or pricing.

Please refer to the attached chart for updated reference range for the new reporting units. For additional information, please call us at (800) 444-9111. We value you as a customer and thank you for choosing Esoterix.

Description	Predicate Reference Range – ng/dL	New Reference Range – pg/mL																																																																																																
Reference Range Estrone, HPLC-MS/MS	<p>Gender Range (ng/dL) Newborn: Values are strikingly elevated at birth, then decrease rapidly during the first week to prepubertal levels of < 1.5 ng/dL</p> <p>Prepubertal Children 1-10 years: < 1.5 ng/dL</p> <p>Pubertal Males</p> <table border="1"> <thead> <tr> <th>Tanner Stage</th> <th>Age (Years)</th> <th>Range (ng/dL)</th> <th>Mean (ng/dL)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td><9.8</td> <td>0.5 – 1.7</td> <td>1.1</td> </tr> <tr> <td>2</td> <td>9.8 – 14.5</td> <td>1.0 – 2.5</td> <td>1.6</td> </tr> <tr> <td>3</td> <td>10.7 – 15.4</td> <td>1.5 – 2.5</td> <td>2.1</td> </tr> <tr> <td>4</td> <td>11.8 – 16.2</td> <td>1.5 – 4.5</td> <td>3.3</td> </tr> <tr> <td>5</td> <td>12.8 – 17.3</td> <td>2.0 – 4.5</td> <td>3.2</td> </tr> </tbody> </table> <p>Pubertal Females</p> <table border="1"> <thead> <tr> <th>Tanner Stage</th> <th>Age (Years)</th> <th>Range (ng/dL)</th> <th>Mean (ng/dL)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td><9.2</td> <td>0.4 – 2.9</td> <td>1.3</td> </tr> <tr> <td>2</td> <td>9.2 – 13.7</td> <td>1.0 – 3.3</td> <td>2.1</td> </tr> <tr> <td>3</td> <td>10.0 – 14.4</td> <td>1.5 – 4.3</td> <td>3.0</td> </tr> <tr> <td>4</td> <td>10.7 – 15.6</td> <td>1.6 – 7.7</td> <td>3.6</td> </tr> <tr> <td>5</td> <td>11.8 – 18.6</td> <td>2.9 – 10.5</td> <td>6.1</td> </tr> </tbody> </table> <p>Gender Range (ng/dL) Adult Males: 1.0 – 5.0 Adult Females Follicular: 3.0 – 10 Luteal: 9.0 – 16 Postmenopausal: < 4.0</p>	Tanner Stage	Age (Years)	Range (ng/dL)	Mean (ng/dL)	1	<9.8	0.5 – 1.7	1.1	2	9.8 – 14.5	1.0 – 2.5	1.6	3	10.7 – 15.4	1.5 – 2.5	2.1	4	11.8 – 16.2	1.5 – 4.5	3.3	5	12.8 – 17.3	2.0 – 4.5	3.2	Tanner Stage	Age (Years)	Range (ng/dL)	Mean (ng/dL)	1	<9.2	0.4 – 2.9	1.3	2	9.2 – 13.7	1.0 – 3.3	2.1	3	10.0 – 14.4	1.5 – 4.3	3.0	4	10.7 – 15.6	1.6 – 7.7	3.6	5	11.8 – 18.6	2.9 – 10.5	6.1	<p>Gender Range (pg/mL) Newborn: Values are strikingly elevated at birth, then decrease rapidly during the first week to prepubertal levels of < 15 pg/mL</p> <p>Prepubertal Children 1-10 years: < 15 pg/mL</p> <p>Pubertal Males</p> <table border="1"> <thead> <tr> <th>Tanner Stage</th> <th>Age (Years)</th> <th>Range (pg/mL)</th> <th>Mean (pg/mL)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td><9.8</td> <td>5.0 – 17</td> <td>11</td> </tr> <tr> <td>2</td> <td>9.8 – 14.5</td> <td>10 – 25</td> <td>16</td> </tr> <tr> <td>3</td> <td>10.7 – 15.4</td> <td>15 – 25</td> <td>21</td> </tr> <tr> <td>4</td> <td>11.8 – 16.2</td> <td>15 – 45</td> <td>33</td> </tr> <tr> <td>5</td> <td>12.8 – 17.3</td> <td>20 – 45</td> <td>32</td> </tr> </tbody> </table> <p>Pubertal Females</p> <table border="1"> <thead> <tr> <th>Tanner Stage</th> <th>Age (Years)</th> <th>Range (pg/mL)</th> <th>Mean (pg/mL)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td><9.2</td> <td>4.0 – 29</td> <td>13</td> </tr> <tr> <td>2</td> <td>9.2 – 13.7</td> <td>10 – 33</td> <td>21</td> </tr> <tr> <td>3</td> <td>10.0 – 14.4</td> <td>15 – 43</td> <td>30</td> </tr> <tr> <td>4</td> <td>10.7 – 15.6</td> <td>16 – 77</td> <td>36</td> </tr> <tr> <td>5</td> <td>11.8 – 18.6</td> <td>29 – 105</td> <td>61</td> </tr> </tbody> </table> <p>Gender Range (pg/mL) Adult Males: 10 – 50 Adult Females Follicular: 30 – 100 Luteal: 90 – 160 Postmenopausal: < 40</p>	Tanner Stage	Age (Years)	Range (pg/mL)	Mean (pg/mL)	1	<9.8	5.0 – 17	11	2	9.8 – 14.5	10 – 25	16	3	10.7 – 15.4	15 – 25	21	4	11.8 – 16.2	15 – 45	33	5	12.8 – 17.3	20 – 45	32	Tanner Stage	Age (Years)	Range (pg/mL)	Mean (pg/mL)	1	<9.2	4.0 – 29	13	2	9.2 – 13.7	10 – 33	21	3	10.0 – 14.4	15 – 43	30	4	10.7 – 15.6	16 – 77	36	5	11.8 – 18.6	29 – 105	61
Tanner Stage	Age (Years)	Range (ng/dL)	Mean (ng/dL)																																																																																															
1	<9.8	0.5 – 1.7	1.1																																																																																															
2	9.8 – 14.5	1.0 – 2.5	1.6																																																																																															
3	10.7 – 15.4	1.5 – 2.5	2.1																																																																																															
4	11.8 – 16.2	1.5 – 4.5	3.3																																																																																															
5	12.8 – 17.3	2.0 – 4.5	3.2																																																																																															
Tanner Stage	Age (Years)	Range (ng/dL)	Mean (ng/dL)																																																																																															
1	<9.2	0.4 – 2.9	1.3																																																																																															
2	9.2 – 13.7	1.0 – 3.3	2.1																																																																																															
3	10.0 – 14.4	1.5 – 4.3	3.0																																																																																															
4	10.7 – 15.6	1.6 – 7.7	3.6																																																																																															
5	11.8 – 18.6	2.9 – 10.5	6.1																																																																																															
Tanner Stage	Age (Years)	Range (pg/mL)	Mean (pg/mL)																																																																																															
1	<9.8	5.0 – 17	11																																																																																															
2	9.8 – 14.5	10 – 25	16																																																																																															
3	10.7 – 15.4	15 – 25	21																																																																																															
4	11.8 – 16.2	15 – 45	33																																																																																															
5	12.8 – 17.3	20 – 45	32																																																																																															
Tanner Stage	Age (Years)	Range (pg/mL)	Mean (pg/mL)																																																																																															
1	<9.2	4.0 – 29	13																																																																																															
2	9.2 – 13.7	10 – 33	21																																																																																															
3	10.0 – 14.4	15 – 43	30																																																																																															
4	10.7 – 15.6	16 – 77	36																																																																																															
5	11.8 – 18.6	29 – 105	61																																																																																															



A LabCorp Company

January 17, 2010

Endocrinology Service Update: Reporting Unit & Reference Range Change

Test Title: Total Estrogens by RIA

Test Code: 500148

CPT Code: 82672 (no change)

Effective Date: March 8, 2010

Explanation of change: The new reporting unit and reference range for Total Estrogens by RIA will be expressed in units of pg/mL.

In an effort to make Total Estrogens reporting units consistent with industry standards, Esoterix will be converting all results and reference ranges from the previous reporting unit of ng/dL to the new reporting unit of pg/mL. There is no change in the assay performance, methodology, specimen requirements, or pricing.

Please refer to the attached chart for updated reference range for the new reporting units. For additional information, please call us at (800) 444-9111. We value you as a customer and thank you for choosing Esoterix.

Description	Predicate Reference Range – ng/dL	New Reference Range – pg/mL																																																																																																
Reference Range Total Estrogens, RIA	<p>Gender Range (ng/dL)</p> <p>Newborn: Markedly elevated at birth and fall rapidly during the first week to < 2.5 ng/dL by seven days</p> <p>30 Days – 11 Months:</p> <p>Male Levels increase to 1.0 – 4.0 ng/dL between 30 – 60 days, then decline to < 2.5 ng/dL by 12 months</p> <p>Female Levels increase to 1.0 – 6.0 ng/dL between 30 – 60 days, then decline to < 2.5 ng/dL by 12 months</p> <p>Prepubertal Children 1-10 years: < 2.5 ng/dL</p> <p>Pubertal Males</p> <table border="1" data-bbox="410 972 948 1203"> <thead> <tr> <th>Tanner Stage</th> <th>Age (Years)</th> <th>Range (ng/dL)</th> <th>Mean (ng/dL)</th> </tr> </thead> <tbody> <tr><td>1</td><td><9.8</td><td>1.0 – 3.8</td><td>2.0</td></tr> <tr><td>2</td><td>9.8 – 14.5</td><td>1.7 – 4.5</td><td>3.0</td></tr> <tr><td>3</td><td>10.7 – 15.4</td><td>2.2 – 5.5</td><td>4.1</td></tr> <tr><td>4</td><td>11.8 – 16.2</td><td>2.7 – 8.0</td><td>5.3</td></tr> <tr><td>5</td><td>12.8 – 17.3</td><td>2.5 – 8.0</td><td>5.0</td></tr> </tbody> </table> <p>Pubertal Females</p> <table border="1" data-bbox="410 1276 948 1507"> <thead> <tr> <th>Tanner Stage</th> <th>Age (Years)</th> <th>Range (ng/dL)</th> <th>Mean (ng/dL)</th> </tr> </thead> <tbody> <tr><td>1</td><td><9.2</td><td>1.0 – 4.6</td><td>2.3</td></tr> <tr><td>2</td><td>9.2 – 13.7</td><td>2.2 – 6.3</td><td>4.1</td></tr> <tr><td>3</td><td>10.0 – 14.4</td><td>2.4 – 11</td><td>6.1</td></tr> <tr><td>4</td><td>10.7 – 15.6</td><td>4.0 – 18</td><td>9.1</td></tr> <tr><td>5</td><td>11.8 – 18.6</td><td>6.0 – 28</td><td>17</td></tr> </tbody> </table> <p>Gender Range (ng/dL)</p> <p>Adult Males: 2 – 8</p> <p>Adult Females</p> <p>Follicular: 6 – 20</p> <p>Luteal: 16 – 40</p> <p>Postmenopausal: < 5</p> <p>Note: Esoterix' assay is specific for estrone and estradiol, and does not measure estriol.</p>	Tanner Stage	Age (Years)	Range (ng/dL)	Mean (ng/dL)	1	<9.8	1.0 – 3.8	2.0	2	9.8 – 14.5	1.7 – 4.5	3.0	3	10.7 – 15.4	2.2 – 5.5	4.1	4	11.8 – 16.2	2.7 – 8.0	5.3	5	12.8 – 17.3	2.5 – 8.0	5.0	Tanner Stage	Age (Years)	Range (ng/dL)	Mean (ng/dL)	1	<9.2	1.0 – 4.6	2.3	2	9.2 – 13.7	2.2 – 6.3	4.1	3	10.0 – 14.4	2.4 – 11	6.1	4	10.7 – 15.6	4.0 – 18	9.1	5	11.8 – 18.6	6.0 – 28	17	<p>Gender Range (pg/mL)</p> <p>Newborn: Markedly elevated at birth and fall rapidly during the first week to < 25 pg/mL by seven days</p> <p>30 Days – 11 Months:</p> <p>Male Levels increase to 10 – 40 pg/mL between 30 – 60 days, then decline to < 25 pg/mL by 12 months</p> <p>Female Levels increase to 10 – 60 pg/mL between 30 – 60 days, then decline to < 25 pg/mL by 12 months</p> <p>Prepubertal Children 1-10 years: < 25 pg/mL</p> <p>Pubertal Males</p> <table border="1" data-bbox="956 972 1500 1203"> <thead> <tr> <th>Tanner Stage</th> <th>Age (Years)</th> <th>Range (pg/mL)</th> <th>Mean (pg/mL)</th> </tr> </thead> <tbody> <tr><td>1</td><td><9.8</td><td>10 – 38</td><td>20</td></tr> <tr><td>2</td><td>9.8 – 14.5</td><td>17 – 45</td><td>30</td></tr> <tr><td>3</td><td>10.7 – 15.4</td><td>22 – 55</td><td>41</td></tr> <tr><td>4</td><td>11.8 – 16.2</td><td>27 – 80</td><td>53</td></tr> <tr><td>5</td><td>12.8 – 17.3</td><td>25 – 80</td><td>50</td></tr> </tbody> </table> <p>Pubertal Females</p> <table border="1" data-bbox="956 1276 1500 1507"> <thead> <tr> <th>Tanner Stage</th> <th>Age (Years)</th> <th>Range (pg/mL)</th> <th>Mean (pg/mL)</th> </tr> </thead> <tbody> <tr><td>1</td><td><9.2</td><td>10 – 46</td><td>23</td></tr> <tr><td>2</td><td>9.2 – 13.7</td><td>22 – 63</td><td>41</td></tr> <tr><td>3</td><td>10.0 – 14.4</td><td>24 – 110</td><td>61</td></tr> <tr><td>4</td><td>10.7 – 15.6</td><td>40 – 180</td><td>91</td></tr> <tr><td>5</td><td>11.8 – 18.6</td><td>60 – 280</td><td>170</td></tr> </tbody> </table> <p>Gender Range (pg/mL)</p> <p>Adult Males: 20 – 80</p> <p>Adult Females</p> <p>Follicular: 60 – 200</p> <p>Luteal: 160 – 400</p> <p>Postmenopausal: < 50</p> <p>Note: Esoterix' assay is specific for estrone and estradiol, and does not measure estriol.</p>	Tanner Stage	Age (Years)	Range (pg/mL)	Mean (pg/mL)	1	<9.8	10 – 38	20	2	9.8 – 14.5	17 – 45	30	3	10.7 – 15.4	22 – 55	41	4	11.8 – 16.2	27 – 80	53	5	12.8 – 17.3	25 – 80	50	Tanner Stage	Age (Years)	Range (pg/mL)	Mean (pg/mL)	1	<9.2	10 – 46	23	2	9.2 – 13.7	22 – 63	41	3	10.0 – 14.4	24 – 110	61	4	10.7 – 15.6	40 – 180	91	5	11.8 – 18.6	60 – 280	170
Tanner Stage	Age (Years)	Range (ng/dL)	Mean (ng/dL)																																																																																															
1	<9.8	1.0 – 3.8	2.0																																																																																															
2	9.8 – 14.5	1.7 – 4.5	3.0																																																																																															
3	10.7 – 15.4	2.2 – 5.5	4.1																																																																																															
4	11.8 – 16.2	2.7 – 8.0	5.3																																																																																															
5	12.8 – 17.3	2.5 – 8.0	5.0																																																																																															
Tanner Stage	Age (Years)	Range (ng/dL)	Mean (ng/dL)																																																																																															
1	<9.2	1.0 – 4.6	2.3																																																																																															
2	9.2 – 13.7	2.2 – 6.3	4.1																																																																																															
3	10.0 – 14.4	2.4 – 11	6.1																																																																																															
4	10.7 – 15.6	4.0 – 18	9.1																																																																																															
5	11.8 – 18.6	6.0 – 28	17																																																																																															
Tanner Stage	Age (Years)	Range (pg/mL)	Mean (pg/mL)																																																																																															
1	<9.8	10 – 38	20																																																																																															
2	9.8 – 14.5	17 – 45	30																																																																																															
3	10.7 – 15.4	22 – 55	41																																																																																															
4	11.8 – 16.2	27 – 80	53																																																																																															
5	12.8 – 17.3	25 – 80	50																																																																																															
Tanner Stage	Age (Years)	Range (pg/mL)	Mean (pg/mL)																																																																																															
1	<9.2	10 – 46	23																																																																																															
2	9.2 – 13.7	22 – 63	41																																																																																															
3	10.0 – 14.4	24 – 110	61																																																																																															
4	10.7 – 15.6	40 – 180	91																																																																																															
5	11.8 – 18.6	60 – 280	170																																																																																															