Lab Dept: Urine/Stool

Test Name: 17-HYDROXYPROGESTERONE, URINE

General Information

Lab Order Codes: 17HU

Synonyms: 17-Hydroxy Progesterone, Urine; 17-OH Progesterone, Urine

CPT Codes: 83498 – Hydroxyprogesterone, 17-d

Test Includes: Urine 17-Hydroxy Progesterone is measured by radioimmunoassay following extraction of specimens.

Logistics

Test Indications: 17-Hydroxy Progesterone is a steroid derived primarily from enzymatic metabolism of Progesterone and 17-Hydroxy Pregnenolone. It is converted enzymatically to Androstenedione and 11-Deoxycortisol. It is produced in both the gonads and adrenal glands. It is excreted into the urine in conjugated and unconjugated forms of 17-Hydroxy Progesterone and as Pregnanetriol. This assay measures the total of the conjugated and unconjugated forms. It is stimulated by ACTH and suppressed by Dexamethasone. Levels of urine 17-Hydroxy Progesterone are greatly increased in patients with Polycystic Ovarian Disease and Congenital Adrenal Hyperplasia and show exaggerated responses to ACTH in these cases. 17-Hydroxy Progesterone is the marker steroid for determining cases of 21a-Hydroxylase Deficient Congenital Adrenal Hyperplasia. Urine levels are frequently elevated in patients with idiopathic hirsutism.

Lab Testing Sections: Urine/Stool - Sendouts

Referred to: Mayo Medical Laboratories (MML Test: ZW71 - Misc) and forwarded to Inter Science Institute

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 5 – 9 days; performed Monday - Friday

Special Instructions: Refrigerate or keep specimen on ice during 24 hour collection. There is no preservative. See Patient Preparation.

Specimen
**Specimen Type:** Urine, 24 hour collection

**Container:** Plastic, leak-proof urine collection container

**Draw Volume:** Entire collection

**Processed Volume:** 10 mL (Minimum: 5 mL) urine from a well-mixed 24 hour collection

**Collection:** Routine 24 hour urine collection, refrigerate during collection

**Special Processing:** Lab Staff: Mix 24 hour specimen well. Measure and record total urine volume. Remove aliquot into a screw-capped round bottom plastic vial. Provide total 24 hour volume. Store and ship at frozen temperatures. Forward promptly.

**Patient Preparation:** Patient should not be on any Corticosteriod, ACTH, steroid, estrogen, or gonadotropin medication, if possible, for at least 48 hours prior to start of urine collection.

**Sample Rejection:** Specimens other than urine, mislabeled specimens or unlabeled specimens

### Interpretive

**Reference Range:**

| 17-Hydroxyprogesterone: |  
|------------------------|--
| Age | Range |
| Adult Males: | Up to 2.0 ug/24 hours |
| Adult Females: | Up to 4.5 ug/24 hours |

**Critical Values:** N/A

**Limitations:** N/A

**Methodology:** Radioimmunoassay (RIA) following extraction of specimens

**References:**

- Mayo Medical Laboratory Web Page November 2017
- Inter Science Institute November 2017

**Updates:** 11/13/2017: Updated reference range and order codes.