

Patient Name :	Bill Date :
DOB/Age/Gender :	Sample Collected :
Patient ID / UHID :	Sample Received :
Referred By :	Report Date :
Sample Type :	Barcode No :
Client :	Report Status :

Test Description	Value(s)	Unit(s)	Reference Range
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## BIOCHEMISTRY REPORT

### Adrenocorticotrophic Hormone (ACTH)

ACTH, EDTA PLASMA Method : CLIA	56.24	pg/mL	7.2 - 63.60
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**Interpretation:**

**Comment :**

Adrenocorticotrophic hormone (ACTH) or corticotropin is a peptide hormone consisting of 39 amino acids. It is produced in the anterior pituitary of the brain as part of the precursor molecule proopiomelanocortin (POMC). Tissue-specific cleavage results in ACTH and a range of related peptides. ACTH stimulates formation and secretion of glucocorticoids (especially cortisol) by the adrenal cortex.

**Note:**

Since secretion of ACTH is both pulsatile and circadian in nature, it is recommended to draw ACTH samples between 7-10 a.m.

**Clinical Use**

- Diagnose disorders of the hypothalamic pituitary system
- Differentiate Cushing's syndrome from normal patients when ACTH levels are low

**Increased levels**

- Stress
- Addison's disease
- Pituitary Cushing's disease
- ACTH secreting tumor

**Decreased levels**

- Secondary adrenal insufficiency
- Adrenal adenoma
- Adrenal carcinoma



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### BIOCHEMISTRY REPORT

#### Cortisol, Morning Sample

Cortisol	16.8	µg/dL
Method : ECLIA		

#### Interpretation:

CORTISOL, MORNING	6.7 – 22.60
CORTISOL, EVENING	< 10
CORTISOL, RANDOM	3.0 – 22.6

**Note:**  
Cortisol is best measured in the morning when evaluating for possible Adrenal Insufficiency and best measured in the afternoon or evening to differentiate normal and Cushing's Syndrome subjects. Diurnal rhythmicity of cortisol is increased by systemic disease and stress.

#### Clinical Use :

Direct assessment of Adrenal function

**Increased levels:** Cushing's Syndrome, Ectopic ACTH syndrome, Ectopic CRH syndrome, Adrenal adenoma / carcinoma, Adrenal micronodular dysplasia, Adrenal macronodular hyperplasia, Stress

**Decreased Levels:** Addison's disease, Pituitary dysfunction



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