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ACTH

General:

ACTH (synonym corticotropin) is produced in the basophilic cells of the pituitary gland. The most important ACTH stimulating factor is CRH (corticotropin releasing hormone) formed in the hypothalamus. ACTH stimulates the synthesis of the steroidal hormones through feedback mechanisms in the suprarenal cortex (glucocorticoids, mineral corticoids and androgens.) The serum half-life is very short with 10 minutes.

Indication: Differential diagnosis of hypercortisolism, adrenal cortex insufficiency, suspicion

of ectopic ACTH production (paraneoplastic)

Material: 1 ml EDTA-plasma

Stability: 4 weeks at - 20°C

Preanalytics: ACTH is unstable; blood collection in the morning preferred because of diurnal

fluctuations of the ACTH level. Dispatch must be frozen!

TAT: same day, FML

Method: CLIA
Units: pg/ml

Ref.- range: 7.2 – 63.3

Note: ACTH concentrations vary physiologically; several blood collections in a short

time span (e.g. 3 collections every 5 min.) result in a more exact interpretation.

If the patient is taking multivitamins or dietary supplements containing high dose of Biotin (> 5 mg), the patient should stop taking it for at least 24 hours, before

having the blood collection

For complete list of laboratory test offered at Freiburg Medical Laboratory, please visit http://www.fml-dubai.com/parameter-listings/

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