Duchenne Muscular Dystrophy Creatine Kinase Activity

Test Code	B0006
Test Summary	This biochemial test measues the level of creatine kinase.
Turn-Around-Time (TAT)*	3 days
Acceptable Sample Types	Dried Blood Spots
Acceptable Billing Types	Self (patient) Payment Institutional Billing

Indications for Testing

Individuals with a clinical suspicion of DMD. Individuals with a family history of DMD

Test Description

This test measures creatine kinase activity, which can be elevated in patients with Duchenne muscular dystrophy (DMD).

Condition Description

Duchenne muscular dystrophy (DMD) is a inherited muscular dystrophy. DMD usually presents in early childhood with delayed motor milestones. Proximal weakness causes a waddling gait and difficulty climbing stairs, running, jumping and standing up from a squatting position. DMD is progressive with affected children being wheelchair dependent by age 12. Cardiomyopathy occurs in almost all individuals with DMD after age 18. DMD in in herited in an X linked manner. (NCBI, genereviews)

Test Methods and Limitations

Fluoroimmunometric assay based on the direct sandwich technique in which two antibodies are directed against a given analyte. Calibrators and serum samples, containing the analyte are reacted with immobilized monoclonal antibodies directed against the analyte. Europium-labeled monoclonal antibodies directed against an antigenic site on the analyte are reacted with the analyte bound to the solid-phase antibody. The Inducer dissociates europium ions from the labeled antibodies into the solution where they form highly fluorescent chelates with components of the Inducer. The fluorescence in each cup is then measured. The europium fluorescence from each sample is proportional to the concentration of analyte in the sample.

Detailed Sample Requirements

Dried Blood Spots