MOLECULAR ANALYSIS OF DYSTROPHIN GENE IN PATIENTS WITH DUCHENNE MUSCULAR DYSTROPHY.

Research center: Human Genome Center, School of Medical Sciences, Universiti Sains Malaysia, Kelantan, Malaysia.

Current status of project: Ongoing

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Introduction:

Duchenne Muscular Dystrophy (DMD) is one of the muscular dystrophies characterized by the enlargement of muscle. DMD occurs when there are out of frame deletion of some exons of dystrophin gene. DMD affects only males with rare exception in ratio 1:3500 boys worldwide.

Objectives:

1. To detect the deletion of hotspot exons in dystrophin gene based on previous studies.

Methodology:

PCR analysis of the 7 hotspot exons. Seven pairs of primers are used, 2 self-designed and 5 obtained from previous studies. Extraction of DNA from patients blood samples, followed by PCR amplification and gel electrophoresis to analyze the results.

Expected outcome:

The frequency of deletion of the 7 hotspots of the dystrophin gene in patients with Duchenne Muscular dystrophy.