

K. Biochemical and Genetic Studies for Glycogen Storage Disorders

	Inborn Errors of Metabolism – Biochemical Studies		
1	GSD Screen (Includes : Glycogen content, Glucose – 6 – Phosphatase (Liver only), Debranching Enzyme, Total Phosphorylase)		
	Liver Muscle		
2	Glycogen Content And STRUCTURE		
	Liver Muscle		
3	Glucose – 6 – Phosphatase (GSD Type Ia)	GSD I	
	Liver		
4	Alpha Glucosidase (GSD Type II)	GSD II	
	Liver, Muscle, Fibroblast, Amniocytes, Chorionic Villi cultures		
5	Debranching Enzyme (GSD Type III)	GSD III	
	Liver Muscle		
6	Branching Enzyme (GSD Type IV)	GSD IV	
	Liver Muscle Fibroblast		
7	Phosphorylase (GSD Types V or TypeVI)	GSD Types V or Type VI	
	Liver Muscle		
8	Phosphorylase Kinase (GSD Type IX)	GSD Type IX	
	Liver Blood (RBC) Muscle Heart		
9	Phosphofructokinase (GSD Type VII)	GSD Type VII	
	Muscle		
10	Fructose Assay (includes: Fructose 1,6 Diphosphatase & Fructose 1 – Phosphate		

	Aldolase)		
	Liver		
11	DNA Test for Glucose – 6 – Phosphatase Gene (GSD Type Ia)	GSD Type Ia	
	Blood (WBC) Liver Muscle Fibroblast Amniocytes Chorionic villi cells		
12	DNA Glucose – 6 – Phosphate Translocase (GSD Type Ib)	GSD Type Ib	
	Blood (WBC) Liver Muscle Fibroblast Amniocytes		
13	DNA TEST FOR IIIB only (liver Debranching Enzyme deficiency)		
	Blood (WBC) Liver Fibroblast Amniocytes Chorionic Villi		
14	LINKAGE STUDY FOR TYPE III (IIIa & IIIb)		
	Blood (WBC) Liver Muscle Fibroblast Amniocytes Corionic Villi		
15	DNA Test for Myophosphosrylase Gene (GSD Type V) McArdles	GSD Type V	
	Blood (WBC) Muscle Fibroblast Amniocytes Chorionic Villi		