STUDY OF NR112 GENE POLYMORPHISM (A7635G) AND STEROID RESISTANCE IN EGYPTIAN CHILDREN WITH **IDIOPATHIC NEPHROTIC SYNDROME**

Doaa Ibrahim Hashad *, Hanan Mohamed Fathy, Eman Tayae El Sayed*, Rofaida Mohamed Reda Rakha

Clinical and Chemical Pathology^{*}, Faculty of Medicine, University of Alexandria.

					01	/					
	Introduction					Me	ethod	S			
Nephrotic Syndrome (NS) is chronic disorder, characterized by alterations of the permeability of the glomerular capillary wall, resulting in its inability to restrict the urinary loss of protein. Idiopathic nephrtic syndrome (INS) (also called nephrosis) is defined by the combination of a nephrotic syndrome (proteinuria, hypoalbuminemia, hyperlipidemia, and edema) and non-specific histological abnormalities of the kidney including minimal changes (MC), focal and segmental glomerular sclerosis (FSGS), and diffuse mesangial proliferation. As INS response to treatment with steroids varies ,several studies was done to analyze the association between patient genetic profile and the response to steroid				Genotyping for <i>NR112</i> polymorphism (rs6785049) was done Mx3000P Q PCRsystem.							
				Results							
treatment, which help in predicting the treatment response of children with INS			Tabl acco	Table 1: Comparison between nephrotic sensetive and nephrotic resistance according to genotype and allele frequency							
Nowadays it is clear that NR1I2 gene is also involved in regulation of steroid						N	IC		D		
metabolism through trans-activation and trans-repression of genes co						No	0/		K 0/_	<mark>χ²</mark>	
glucose, lipid, cholesterol, bile acid, and bilirubin homeostasis.				Gene		(n-50) $(n-50)$		- 50)			
						(n – 14	$\frac{1}{280}$		80	•	
				AG		30	60.0	30	60.0	10 101*	
				GG		6	12.0	16	32.0	10.101	
				Allele fr	requency	(n =	100)	$(\mathbf{n} =$	100)		
				A®	1	58	58.0	38	38.0	*	
	Aim of the work		l	G		42	42.0	62	62.0	8.013 [*]	
The aim of this work was to study association between NR1I2 gene polymorphism (A7635G) rs6785049 and steroid resistance in Egyptian children with idiopathic nephrotic syndrome.				tistically sign Nephrotic eference ty	st inificant at $p \le 0.05$ sensitive , NI pe 70	R: Neph	p: p protic res	o value for	comparing	between th	
[Subjects]			60 - 50 -					■NS ■NR	
After approval of the Alexandria ethics committee, 100 INS patients and 50 healthy individuals were included in the current study. INS patients were enrolled consecutively from Nephrology Units in Alexandria Children Hospital, and were further subdivided into two groups. The first group included 50 nephrotic sensetive patients and the second group included 50 nephrotic resistant patients.					5 40 20 10 0 Figure1cor	AA	n betwee	AG en NS and	GG GG	ording to	

