EVALUATION OF THE RISK FACTORS, FUNCTIONALITIES, LIFE QUALITIES OF THE PATIENTS WITH THE DIAGNOSIS OF PEDIATRIC ACUTE ARTERIAL ISCHEMIC STROKE Authors: Fatih Mehmet Akif ÖZDEMİR^{1a}, Ülkühan ÖZTOPRAK^{1a}, Ali FETTAH^{1b}, Utku Arman ÖRÜN^{1c}, Mustafa KILIÇ^{1d}, Fatma Gül SARIKAYA^{1e}, Betül DERİNKUYU^{1f}, Deniz YÜKSEL^{1a} ¹University of Health Sciences Turkey, Dr. Sami Ulus Maternity and Child Health and Diseases Training and Research Hospital ^{1a} Department of Pediatric Neurology, Ankara, Turkey

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OBJECTIVES

We aimed to evaluate etiology, prognosis of patients who were followed up with diagnosis of childhood acute arterial-ischemic stroke.

METHODS

Clinical features, etiology of patients with acute arterial-ischemic stroke between 2010-2020, aged 1 month-18 years were retrospectively evaluated. At the last control, functionality (Barthel¹, Functional Independence Measure scores²), quality of life (SF36 scale³), motor results (gross motor function classification system) of the patients were recorded prospectively/crosssectionally.

RESULTS

Forty children were included in the study (25 of whom male), current age was median 112.5 (3.6-294) months and the most common etiologic factor was prothrombotic state (Table-1). Of the 27 surviving patients, 29.62% had positive motor results. 29.62% of surviving patients were independent according to Barthel scoring (Table-2). In terms of quality of life, SF36 scores were found to be highest in pain and lowest in emotional role difficulty (Table-2). The most important factor affecting long-term mortality is the presence of valvular heart disease (Table-3).

Current age-mor

Sex (male, n/%)

The most often i

(n/%)

The most often f

presentation clin

Aphasia (n/%)

Hemiplegia (n/%

Development of

epilepsy (n/%)

Recurrence (n/%)

Acute/Long-term

mortality (n/%)

Table-1: Patients' demographic and clinic qualities Table-2: Our patients' functionalities, life qualities and motor outcomes in prognostic terms

nths (m	ed/IR)	112.5/3.6-294	A-Barthel Functionality Scale					
		25/62.5	Fully independent		8/20	Posi		
risk factor		Prothrombotic	(n/%)			prog		
		reasons (27/67.5)	Barthel score (Average		68.0 ± 28.9			
first		Seizure (17/42.5)	± SD) B-WeeFIM Functionality Scale (Average :					
nic (n/%)			Motor		66.0±23.3			
	1/2.5		Cognitive		28.6±8.4			
%)	16/40		Total		94.5±29.8			
F			C-SF36 Life Quality Scale (Average ± S					
		24/60	Pain		83.6±27.5	The hi		
%)	3/7.5		Emotional role		36.4±49.2	The lo		
•	6/15	13/32.5	difficulty D-Motor Outcomes with GMFCS (n/%					
m			D-IVIOLOF OUI	lcome		·C3 (n/ %		
			1		8/20	Posi		



		Univariate OR	р	Multivariate OR	р							
tive		(%95CI)		(%95CI)								
	Valvular heart disease	5.3	0.02	268.2	0.04							
nosis	Follow-up period	0.9	0.02	0.9	0.04							
	Wbc	1	0.01		0.03							
	* (reference category), Backward: Wald model was used in including the independent risk factors in multivariate model.											
SD)	Table-3: The most important factors affecting long-term mortality											
	CONCLUSIONS											
	The most frequent etiology of pediatric AIS in our study was prothrombotic risk factors. Mortality rates were 15% in the acute period and 32.5% in the long term. The most important factor associated with long-term mortality was the presence of valvular heart disease. When the survivors were evaluated, nearly 30% were independent or had positive motor outcomes and 60% had epilepsy. It is important to know the											
))	etiology, to evaluate the prognosis in order to plan effective treatment											
ghest	and rehabilitation. Acknowledgments: We would like to thank all children, their parents, and all health professionals working in the care of patients.											
west	Contact: fatihmehmetakif@	Hotmail.com										
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