in neuro-biological changes. Exposed to powerful, negative environment, lead to hyperactivation of the neurological, imune and endocrine system. This state is known as a Toxic stress.

## Methods

All participants are patients in Child And Youth Protection Center Of Zagreb. Sample is taken from database of 1954 patients suffered from Toxic stress (ACES≥4).

All patients with diagnosed FAS or NAS from the period between the end of 2015 and 2022 were included(n=94). The rest of the participants were chosen randomly from the data base.

Participants were between 2 and 17 years old, with the average age of 9 (sd=3.42).

**Visuospatial development** (presented on a scale from 1 to 4, 1 is representing below average, and 4 is representing above average score)

Cognitive development (presented on a scale from 1 to 4, 1 is representing below average, and 4 is representing above average score)

**Fine motor skills** (presented on a scale from 1 to 3; 1 is representing below average, and 3 is representing normal)

**Verbal skills** (presented on a scale from 1 to 3; 1 is representing below average, and 3 is representing normal)

Cognitive	Dordenine	5%	,,	I/IO	67%	
functions	Average	62%			01 70	
	Above average	23%		Below average	28%	
EEG	Disrithmic	22%	Verbal skills	Borderline	17%	
	Irregularities	4%				
	Normal	74%		Normal	54%	

BY GROUPS		FAS	FAS/NAS		Other Diagnoses		n /M \M/ II\	p/y2\
BY GROUPS			%		%	p(t)	p (M-W U)	p(χ²)
School results	Good		6%		6%			
	Very good		25%		38%	.550		
	Excelent		6%		19%			
School	Special program		19%		10%			.124
	Regular program		26%		45%			.127
	Below average		27%		9%			
Visuospatial development	Marginal		11%		16%	.004	.005	
	Average		9%		27%			
	Below average		8%		3%			
Cognitive functions	Borderline	5%		.034	.050			
Cognitive functions	Average		31%		31%	.004	.000	
	Above average		5%		18%			
	Disrithmic		20%		2%			
EEG	Irregularities		2%		2%			.010
	Normal		26%		48%			
	Below average		24%		9%			
Fine motor skills	Borderline		7%		24%	.174	.179	
	Normal		17%		20%			
Attention	Fluctuating		26%		13%			.040
Attention	Normal		22%		39%			.040
Impulsivity	Yes		22%		26%			.758
Impulsivity	No		26%		26%			.1 50
Llyporactivity	Yes		24%		9%			.016
Hyperactivity	No		24%		43%			.010
	Below average		17%		11%			
Verbal skills	Borderline		4%		13%	.566	.660	.266
	Normal		26%		28%			

