HEALTH-RELATED QUALITY OF LIFE OF CHILDREN WITH CEREBRAL PALSY AT A TERTIARY HOSPITAL IN NIGERIA

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Introduction

Globally, the focus of care for children chronic illnesses has shifted to with maintaining a good quality of life rather Health-Related survival alone. than Quality of Life (HRQoL) measures the effect of the disease and therapy on the life of the patient

Studies in Nigeria and a lot of African countries have focused on classification and/or comorbidities without relating them to quality of life in children with Cerebral Palsy (CP).

Objectives

(1) Determine the HRQoL in children with CP in a tertiary hospital in Nigeria, (2) compare with that of typically developing children and ③determine comorbidities and sociodemographic variables that affect

In this cross-sectional study, a total of 120 children (CP, 60 and TD, 60) aged 2-14 years had HRQoL assessed using PedsQL[™] generic questionnaire with an additional CP module for children with CP. The Gross Motor Function Classification System (GMFCS) was used to classify severity of CP. Multiple regression determined the relationship between the interpreted HRQoL and social class, gender, Gross Motor Function Classification System (GMFCS) level, and type of comorbidities; with statistical significance set at $p \le 0.05$.

The mean (SD) total HRQoL score for children with CP was 57.4 (18.2) while that for the typically developing children was 90.2 (9.0). Comorbidities were present in 51 (85%) subjects, the commonest being speech impairment in 50 (83.3%) followed by epilepsy in 24 (40%), and feeding problems in 21 (35%).

Table-I: Interpreted HRQoL for all participants

							associated with HKQUL of children with CI							
	Mean				Chi-	P		β	SE	Р	Ехр	95%	CI	for
	(SD)	Interpreted			square	(<0.05)				(≤0.05)	(β)	Exp(β)		
Scales (N)		HRQoL	TD (%)	CP (%)			Co-morbidities			(_0.05)	(P)			
Total (120)	73.83 (21.83)	Impaired	0(0.0)	42(70.0)	-	0.000			1	· ·	1	Lower	Upp	
		Not impaired	60(100.0)	18(30.0)			Epilepsy	1.77	0.87	0.043*	5.84	1.06	32.2	
	64.16 (34.62)	Impaired	5(8.3)	49(81.7)		0.000	Speech impairment	0.78	0.82	0.340	2.18	0.44	10.7	77
		Not impaired	55(91.7)	11(18.3)			Feeding problems	2.38	1.11	0.033*	10.78	1.22	95.3	25
Emotional (120)	81.00 (15.20)	Impaired	3(5.0)	10(16.7)	4.2	0.075	reeding problems	2.30	1.11	0.055	10.70	1.22	95.5	J
		Not impaired	57(95.0)	50(83.3)			Hearing impairment	0.73	0.31	0.577	2.078	0.16	27.1	15
	82.46 (20.92)	Impaired	2(3.3)	22(36.7)	20.8	0.000								
		Not impaired	58(96.7)	38(63.3)			Demographics							
School Functionin g (81)	83.82 (17.75)	Impaired	3(5.2)	5(21.7)	5.1	0.038	Social class	0.21	0.35	0.54	1.23	0.63	2.43	3
		Not impaired	55(94.8)	18(78.3)			Sex	0.15	0.82	0.86	1.16	0.24	5.73	3
Psychosoci	81.11 (14.87)	Impaired	2(3.3)	12(20)	8.1	0.008	GMFCS	2.08	0.72	0.004*	8.00	1.97	33.3	33
		Not impaired	58(96.7)	48(80)			Child's Age	0.16	0.13	0.22	1.18	0.91	1.52	2
SD=standard deviation, *statistically significant, TD= typically developing							Constant	2.393	2.15	0.27	10.95			

children, CP= cerebral palsy

Methods

Results

TABLE II: Comorbidities and demographics associated with HROoL of children with CP

*Statistically significant, SE= Standard Error, CI= Confidence Interval



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Conclusions

- The overall HRQoL was lower in
- children with CP compared to TD.
- Scores were lower on the CP module.
- Higher GMFCS level, epilepsy and
- feeding problems predicted impaired HRQoL.
- The major predictors of poor quality of life are modifiable.

References

- WHO. Development of the World Health Organization WHOQOL-BREF quality of life ssessment. The WHOQOL Group. Psychol Med. 1998;28:551-8
- 2. Lim MSY, Wong CP. Impact of cerebral palsy on the quality of life in patients and their families. Neurol Asia. 2009:14:27–33.
- 3. Selber P, Graham HK. Musculoskeletal aspects of cerebral palsy. J bone Jt Surg. 2003;85:157-
- 4. Krigger KW. Cerebral Palsy : An Overview. Am Fam Physician. 2006;73:91–100.
- 5. Lagunju I., Okafor O. An Analysis of Disorders seen at the Paediatric Neurology Clinic, University College Hospital, Ibadan, Nigeria. West Afr J Med . 2009 ;28:328–33.
- <u>6. Varni JW, Burwinkle TM, Berrin SJ, Sherman SA, Artavia K, Malcarne VL, et al. The PedsQL</u> in pediatric cerebral palsy: Reliability, validity, and sensitivity of the Generic Core Scales and Cerebral Palsy Module. Dev Med Child Neurol. 2006;48:442-9.

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