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Solicitude of Caregivers toward their Children with Guillain-Barre Syndrome

Thesis

Submitted in Partial Fulfillment of the Requirement of Master Degree in Pediatric Nursing

By

Sara Mohamed Ata

B.Sc. Nursing (2015)

Demonstrator of Pediatric Nursing Department

Faculty of Nursing

Ain Shams University

Faculty of Nursing Ain Shams University 2022

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Under Supervision of

Dr. Safy Salah Eldin Al-Rafay

Professor of Pediatric Nursing
Faculty of Nursing – Ain Shams University

Dr. Asmaa Nasr El Din Mosbeh

Professor of Pediatric Nursing
Faculty of Nursing – Ain Shams University

Faculty of Nursing Ain Shams University 2022



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List of Contents

Subject	Page No	•
	ii	
Theoretical De	finition vi	i
Introduction		1
Aim of the Stu	dy	5
Review of Lite	rature	
Part I:	Overview about Guillain Barre Syndrome	7
Part II:	Solicitude of Caregivers toward their Children with Guillain-Barre Syndrome 43	3
Part III:	Nursing Intervention for children having Guillain Barre Syndrome	5
Subject and M	ethods 64	1
Results	72	2
Discussion	99	•
Conclusion)
Recommendati	ions11	L
Summary		2
References)
Appendices		I
Arabic Summa	ary	_

List of Abbreviations

166r. Full-term **AIDP** : The Acute Inflammatory Demyelinating Polyradiculoneuropathy : Acute Motor Axonal Neuropathy **AMAN** : Acute Motor Sensory Axonal Neuropathy **AMSAN CDC** : Center for Disease Control And Prevention **Cidps** : Chronic Inflammatory Demyelinating Poly-Radiculo-Neuropathies **CSF** : Cerebrospinal Fluid **DVT** : Deep Vein Thrombosis **ECG** : Electro-Cardio Gram GBS : Guillain-Barre Syndrome HIC : High-Income Countries Hrs : Hours **ICU** : Intensive Care Unit Ig : Immunoglobulin : Immunoglobulins **Igs** IVIG : Intravenous Immunoglobulin **LMIC** : Low-Income And Middle-Income Countries : Magnetic Resonance Imaging **MRI**

: Nasogastric

: Pearson Correlation

NG

R

SARS-Cov-2: Severe Acute Respiratory Syndrome

Coronavirus 2

SD : Standard deviation

SLE : Systemic Lupus Erythematous

SPSS : Statistical Package for Social Sciences

List of Tables in result

Table	No.	Title	Page No.
(1):		studied caregivers a	
(2):		the studied characteristics	
(3):	according to their	the studied ca r knowledge about	Guillian
(4):	according to the	the studied ca ir attitude toward re syndrome	children
(5):	according to th	the studied ca eir attitude towa buillain-Barre syndr	rd their
(6):	according to their	the studied ca reported-practices ents and personal ca	towards
(7):	according to their	the studied ca reported-practices	towards
(8):	according to their	the studied car r practices towards g and self-care	bladder
(9):	according to prevention of con	the studied ca their practices nplications and me	towards edication
	management		00

(10):	Relationship between caregivers' characteristic and their total knowledge about Guillian Barre syndrome.	92
(11):	Relationship between caregivers' characteristic and their total attitude towards children with Guillian Barre syndrome	94
(12):	Relationship between caregivers' characteristic and their total reported practices towards their children with Guillian Barre syndrome	96
(13):	Correlation between caregivers' knowledge, attitude and their reported-practices towards their children with Guillian Barre syndrome	98

List of Figures

Figur	e No. Title	Page No.
(1):	Guillain, Barre and Strohl	8
(2):	Octave Landry	10
(3):	Components of immune system and ana of each part	-
(4):	Cell components of Immune System	16
(5):	Physiology of Immune System	19
(6):	Compares between normal neuron and demyelination of myelin sheath	20
(7):	Pathophysiology of Guillain Syndrome	
(8):	Pathophysiology of Guillian Barre synd	rome 23
(9):	Types of Guillian Barre Syndrome	25
(10) :	Sub types of Guillian Barre Syndrome.	26
(11):	Clinical picture of guillain barre syndro	me 29
(12):	Thickening of the cauda-equina	32
(13):	Image of intra-thecal nerve root gadolinium enhancement	
(14):	Chronic inflammatory demyelinating neuropathy (CIDP)	- •
(15):	Ten- step approach to the diagnosis management of Guillain-Barré syndror of GBS	ne. nt

Figures in Results:

(1):	Percentage Distribution of the Studied Caregivers According to their Program Attendence Regarding to Gullain Barre Syndrome in Children
(2):	Percentage Distribution of the Studied Caregivers According to their Total Knowledge about Guillian Barre Syndrome 77
(3):	Percentage Distribution of the Studied Caregivers According to their Total Attitude toward their Children
(4):	Percentage Distribution of the Studied Caregivers According to their Total Subscales of Self-Reported Reported-Practices toward Children with Guillain-Barre Syndrome
(5):	Percentage Distribution of the Studied Caregivers According to their Total Reported Practices toward their Children with Guillain-Barre Syndrome

Abstract

Background: Guillain-Barré syndrome is the most common and most severe acute paralytic neuropathy that affects all aspects of a child's life. Aim of the study was to assess solicitude of caregivers toward their children with Guillain-Barre syndrome. Method: A descriptive research design was utilized in this study, A Convenient sample comprised of 44 caregivers with their children that have Guillain-Barre syndrome. This study was carried out at outpatient clinic in Children's Hospital and physiotherapy unit affiliated of Ain Shams University Hospitals, Egypt. Three tools were used to conduct the study. Tool I: Pre-designed Questionnaire Format, to assess caregiver's knowledge about Guillain-Barre syndrome, Tool II: Caregiver's attitude toward children with Guillain-Barre syndrome rating scale. Tool III: Caregivers self- reported practices format. **Results:** the study revealed that studied caregivers their mean of age was 33.5±8.08 years, and 77% of them were female. Also, (72.7%) of the studied caregivers had unsatisfactory level of total knowledge about GBS, (59.1%) of them had positive attitude toward their children and (63.6%) of them had unsatisfactory level of total practice towards children with GBS. Conclusion: The majority of studied caregivers had unsatisfactory level of total knowledge about GBS, positive attitude toward their children having GBS, and most of them have unsatisfactory level of total practice towards children with GBS. There was significant positive correlation between total caregivers' knowledge, total practices, and their total attitude towards children with GBS. Recommendations: Providing training program for caregivers about GBS, Additional studies should be done for to further investigating the factors affecting caregivers' knowledge and practice about GBS.

Key Words: Caregiver's Solicitude, Gullain Barre Syndrome.

Theoretical Definition

For the aim of this study, the following definition was used:

Solicitude: the state of being concerned and attentive care and protectiveness also: an attitude of earnest concern or attention expressed solicitude for someone health.

Introduction

palsy is a classic lower motor neuron disorder. It is a reactive self-limited auto-immune disease in which the body's immune system attacks part of the peripheral nervous system. It is described as a syndrome because it represents a group of demyelinating inflammatory poly radiculo-neuropathies (*Dirlikov et al.*, 2018).

The disorder of the peripheral nervous system that describing GBS is the most common cause of severe, acute weakness in children, and acute inflammatory demyelinating polyradiculoneuropathy which is the most common subtype in the western world. GBS is characterized by a monophasic, ascending, and symmetrical paralysis that progresses over days to weeks and is associated with areflexia (*Nguyen & Taylor*, 2022).

The acute inflammatory demyelinating polyradiculoneuropathy (AIDP) is typically a post infectious autoimmune process believed to be caused by molecular mimicry to peripheral nerves leading to inflammation and destruction of myelin. Preceding infection can be identified in the majority of cases. The most common infectious triggers are minor respiratory illness, but gastrointestinal illnesses, other viral syndromes, and immunizations have also been associated with GBS (*Estrade et al.*, 2019). The exact cause of GBS is unknown; GBS and its variants are considered post-infectious, immune-mediated-neuropathies. Many infections have been linked with GBS. The most common are gastrointestinal or respiratory illnesses. Up to 70% of cases have reported an antecedent illness in the 1 to 6 weeks before the presentation of GBS. Zika virus outbreak associated with many GBS cases. Other possible etiologies linked to GBS including medications and surgeries (*Dirlikov et al.*, 2022).

Four main subtypes are well defined of GBS: acute inflammatory demyelinating polyradiculoneuropathy (AIDP), acute motor axonal neuropathy (AMAN), acute motor sensory axonal neuropathy (AMSAN), in excitable motor nerve, and equivocal (*Padmanabhan et al.*, 2019).

The typical child with GBS presents 2-4 weeks following a relatively benign gastrointestinal or respiratory illness with complaints of finger dysesthesias and proximal muscle weakness of the lower limbs. This weakness may progress over hours to days to involve the arms, trunk, cranial nerves, and muscles of respiration. Variants of GBS may present as pure motor dysfunction or acute dysautonomia. A "Typical" 'GBS is monophasic, non-febrile illness manifesting as ascending weakness and areflexia. Sensory, autonomic, and brainstem abnormalities may also be seen (*Barzegar et al.*, 2019).