

بسم الله الرحمن الرحيم



HOSSAM MAGHRABY



شبكة المعلومات الجامعية التوثيق الالكتروني والميكرو فيلم



HOSSAM MAGHRABY

جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
على هذه الأقراص المدمجة قد أعدت دون أية تغيرات



يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغبار



HOSSAM MAGHRABY



Healthy Needs and Problems of Primary School Students with Hearing Impairment

Thesis

*Submitted for Fulfillment of Requirement of Master
Degree in Community Health Nursing*

**Prepared by
Thanaa Saad Gad**

B.Sc. Nursing 2013, El- Menia University

**Ain Shams University
Faculty of Nursing
2020**



Healthy Needs and Problems of Primary School Students with Hearing Impairment

Thesis

*Submitted for Fulfillment of Requirement of Master
Degree in Community Health Nursing*

Supervised by

Prof. Dr. Hanan Ibrahim Ahmed

Professor of Community Health Nursing
Faculty of Nursing – Ain Shams University

Dr. Mona Abo Bakr Abd-Ellatif

Lecture of Community Health Nursing
Faculty of Nursing – Ain Shams University

**Ain Shams University
Faculty of Nursing
2020**



Acknowledgement

First and foremost, I will feel always gratitude to **Allah**, The most kind and most merciful.

I would like to express my sincere thanks and deepest appreciation to **Prof. Dr. Hanan Ibrahim Ahmed**, Professor of Community Health Nursing, Faculty of Nursing, Ain Shams University, for her continuous meticulous supervision, prudent guidance, support and unlimited help throughout this work.

I would like to express my deep thanks and appreciation to **Dr. Mona Abo Bakr Abd-Ellatif**, Lecture of Community Health Nursing, Faculty of Nursing, Ain Shams University, for her guidance, fruitful comments and efforts to complete this work.

I am deeply thankful to **my family and friends**, for their great help, outstanding support, active participation and guidance.

Thanaa Saad Gad



List of Contents

Title	Page No.
List of tables.....	I
List of figures.....	IV
Abbreviations.....	V
Abstract.....	VI
Introduction.....	1
Aim of the Study.....	5
Review of literature	6
• Part (I): Overview about Hearing Impairment	6
• Part (II): Health Needs and Problems of Primary School Student with Hearing Impairment.....	22
• Part (III): Healthful School Environment.....	31
• Part (IV): Community Health Nursing Role toward Primary School Students with Hearing Impairment through Level of Prevention	37
Subjects and Methods.....	49
Results.....	58
Discussion	95
Conclusion.....	119
Recommendations	120
Summary.....	121
References.....	127
Appendices.....	148
Protocol	
Arabic Summary	

List of Tables

No.	Table	Page
Table of Results		
1	Number and percentage distribution of the primary school students according to their socio-demographic data	59
2	Number and percentage distribution of the parents' data	61
3	Mean scores of the studied primary school students related to their communication needs	63
4	Mean scores of the studied primary school students related to their audio logical rehabilitation needs	65
5	Mean scores of the studied primary school students related to their social and emotional needs	66
6	Mean scores of the studied primary school students related to their personal needs	67
7	Mean scores of the studied primary school students related to their behavioral needs	68
8	Mean scores of the studied primary school students related to their academic needs	69
9	Mean scores of the studied primary school students related to their learning style needs	70

No.	Table	Page
10	Mean scores of the studied primary school students related to their physical problems and emotional problems	72
11	Mean scores of the studied primary school students related to their social problems and schooling commitment	73
12	Mean scores of the studied primary school students related to their behavioral problems and personal problems	74
13	Distribution of the studied primary school students according to their total health problems	76
14	Number and percentage distribution of the studied primary school students according to health status (general appearance, head, neck, hair, eyes and ear)	77
14	Number and percentage distribution of the studied primary school students according to health status (nose, mouth and throat, skin, nails, chest and respiratory system)	79
14	Number and percentage distribution of the studied primary school students according to health status (the circulatory system and the heart, abdomen and back, muscle skeletal system and nervous system)	81

 List of Tables

No.	Table	Page
15	Number and percentage distribution of the studied primary schools according to physical aspects and noise for four schools.	82
16	Number and percentage distribution of the studied primary schools according to education aspects	84
17	Number and percentage distribution of the studied primary school students according to psychological aspects	87
18	Correlation between studied variables	88
19	Relation between health problem and hearing impairment	89
20	Relation between level of health problems of the studied primary school students and their environment regarding physical aspects	90
21	Relation between level of health problems of the studied primary school students and their environment aspects	92
22	Relation between level of health problems of the studied primary school students and their environment regarding education aspects	93

List of Figures

No	Figure	Page
Figures in Review		
1	A cochlear implant should be implanted	18
2	Cochlear BAHA Attract system and its components	19
3	That help children to understand speech, cognitive development, hearing aid should be provide AS part of early intervention by six month of age	20
4	Remote microphone on Teacher	21
Figures in Results		
1	Percentage distribution of the studied primary school students according to their total health needs	71
2	Percentage distribution of the studied primary school students according to their total health problems	75

List of Abbreviations

Abb.	Meaning
CHI	Conductive hearing impairment
CMV	Cytomegalovirus
ENT	Ear, Nose, Throat
NIHI	Noise induced hearing impairment
SHIS	Student hearing impairment
WHO	The world Health Organization

Health Needs and Problems of Primary School Students with Hearing Impairment

By

Dr. Hanan Ibrahim Ahmed, Dr. Mona Abo Bakr Abd- Ellatef,
Dr. Thanaa Saad Gad

Community Health Nursing –Faculty of Nursing-Ain Shams University

ABSTRACT

Background: Primary school period is one of the most sensitive periods in which children acquire skills that effect their adulthood. **Aim:** Assess health needs and problems of primary school student with hearing impairment. **Setting:** The study was conducted at Beni Suief Governorate at four school of hearing impairment. **Sample:** A multi stage sampling was used in this study to get study participants and the final sample size was (150) participant. **Tools:** **Fist tool**, structure An interviewing questionnaire by the investigator to assess socio demographic data as regard name, age, education level, assess e of health needs and problems of primary school student related to physical, social, psychological, behavioral and education. **Second tool**, assess health status through medical record for every student in the health unit of school environment. **Third tool**, assess of school environment (Noise Worksheet) to assess physical, educational, social, psychological and behavioral environment. **Results:** This study showed that: 66.7% of the studied students had severe health problems. Also, (24%) of them had moderate level. While, (9.3%) of them had mild level. There was highly statistically relation between health problems of the primary school students and hearing impairment. There was highly statistically positive correlation between health needs of the primary school students and their total health problems. There was highly statistically positive correlation between health problems of the studied primary school students and their school environment. **Conclusion:** In the light of the study findings, it was conclude that, high percentage of the studied students had high level of total health needs. High percentage of the studied students had severe health problems. There was highly statistically positive correlation between health needs of the studied primary school students and their total health problems. Also, there was highly statistically relation between health problems of the studied primary school students and hearing impairment. **Recommendation:** More researches for students with hearing impairment to early detect of any physical, social and psychological health problems, improving cognitive skills for students through educational program for teacher to provide training for students-for example, improving problem –solving skills.

Keywords: Health Needs, problems, primary school student, Hearing impairment

Introduction

All over the world, people living with disabilities are recognized as a group of vulnerable people. Disability is described as impairment in the human body structure or function, activity limitations and participation restrictions. A significant 15% of the world's population lives with various forms of disability, out of which 360 million persons have hearing impairment of all kinds with a ratio of 91% adults and 9% children (*WHO, 2015*).

Hearing impairment from birth or early infancy may have lifelong consequences for an individual's social adjustment and mental well-being in terms of communication, education, identity and employment. A number of co-morbid conditions that often accompany this sensory impairment might contribute to the development of mental disorders encountered in deaf children. Specific environmental factors, including familial, social, cultural and educational influences, can be both the direct and the indirect basis for the development of emotional/behavioral problems and psychiatric disorders through a diversion of the child's developmental pathway (*Gentili et al., 2015*).

The provision of education as a social welfare service serves as an effort to ensure that the hearing impaired do not feel limited in terms of privileges and opportunities to become productive, employable and have successful and independent future. Education is a tool to empower the hearing impaired to lead an independent life. Empowerment through education begins at the basic level where skills and essential knowledge are acquired through taught programs in aid of preparing students for a higher level of education. Progress from one level of education to another is dependent on the student's academic performance. As a result, there is a greater need to emphasize the academic performance of all students, including student hearing impairment (SHIs) (*Agyire-Tettey et al., 2017*).

One indicator of successful learning in inclusive classes is the active participation of all students in the class, including students with hearing impairment. One of the main components of academic success is the ability of students with hearing impairment to communicate with teachers and peers. Communication between teachers and students or communication between students and students is the main learning tool in the classroom. Student