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# SUPPORTING IMPAIRED CHILDREN THROUGH PHYSIOTHERAPY: AN INVESTIGATIVE APPROACH

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#### Abstract:

This study investigated the importance of physiotherapy in improving the well-being of physically and health-impaired children (PHIC). Conducted at the Federal College of Education (Special), Oyo, Oyo State, Nigeria, the study involved 20 PHIC participants randomly selected from 100-300 level students in the School of Special Education. The sample consisted of 40% males and 60% females, aged between 19 and 30 years. Data were collected using a validated 20-item structured questionnaire. Frequency counts and simple percentages were employed for data analysis. Findings revealed that physiotherapy significantly contributes to enhancing the quality of life of PHIC, promoting physical function, independence, and overall well-being. The study underscores the essential role of physiotherapy in supporting the physical and emotional development of students with physical and health impairments.

**Keywords**: Physiotherapy, Special education, Physical impairment, Well-being

#### INTRODUCTION

Physiotherapy (also known as Physical Therapy) is an arm of Rehabilitation Medicine and a health care profession that used physical approaches to promote, maintain and restore physical, psychological and social welltaking into consideration being varieties in health status. It is science – based that is committed to extending, applying, evaluating and reviewing the evidence that underpins and informs its practice and delivery (Chartered Society Physiotherapy of (CSP), 2002b). Physiotherapy also with identifying concerned and maximizing quality of life and movement potential with the spheres of habitation and rehabilitation; which encompasses physical, psychological, emotional and social well-being.

Professionals trained to administer physiotherapy are known as Physiotherapists (PTs). PTs interact with patients/clients; other health professionals, families, care givers and communities in a process where movement potentials is assessed and goals are agreed upon using knowledge and skills that are unique to physiotherapy. According to Gardiner and Turner (2002), physiotherapy functions to help those individuals who are crippled, deformed or otherwise physically handicapped and those who have health problems by assisting them to learn how to use parts of the body and develop physical skills, also

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helping the child to become mobile and parents to become skillful in assisting their child including lifting, positioning an physical care.

Part of physiotherapy services is to assist people with movement disorders that may be present from birth (such as cerebral palsy), acquired through accident or injuries or the result of lifechallenging major events (such as stroke) or the development of a disease of the nervous system (Deploy and Gilson, 2004). Physiotherapy used a variety of techniques to help the muscles and joints to work to their full potentials. Apart from offering of treatment, PT also give advice that help prevent problems from returning or even happening in the first place (Charlotte, 2006). Physically and Health Children (PHIC) are those that have problems with the muscles, joints or bones and nerves. They suffer from different types of impairments that range from orthopaedic, neurologic and health wise. They are those that are crippled, deformed or otherwise physically handicapped (exclusive of the visually, auditory and other sensory handicapped) and those who have health problems which interfere with normal health in a normal classroom. Physical and health impairment can be caused by infectious diseases like poliomyelitis, syphilis, gonorrhea, rubella (pre-natally); prolonged labour and use of forceps and spina bifida (peri-natally); infectious diseases like German meascles, whooping cough, meningitis, selfmedications and accidents (post-natally) (Obani, 2004; Smith, 2001). Examples of conditions that lead to physical and health impairments are muscular dystrophy, spinal cord injuries, cerebral palsy, anterior poliomyelitis, spina bifida, asthma, sickle cell anaemia, cancer, stroke and so on.

Physiotherapy helps these PHIC to become mobile (either independently or by using equipment/assistive devices). Services that help restore function, improve mobility, relieve pain, and prevent permanent disabilities of individuals who have an injury or diseases are being rendered by PTs. Physiotherapists restore, maintain and promote general fitness and health of people.

## Varieties of techniques being used in physiotherapy include:

- 1. Exercise programs including hydrotherapy,
- 2. Massage,
- 3. Joint manipulation and mobilization to reduce pain and stiffness,
- 4. Hot and cold packs and electrotherapy to reduce swelling, relieve pain, speed up healing process and so on,
- 5. Muscle re-education,
- 6. Airway clearance technique with breathing exercises to assist people with a variety of breathing difficulties and assistance and the use of aids like crutches, canes, wheelchairs and so on.

In order to know whether these techniques above are also being used on the PHIC, so the study of importance of physiotherapy on these children is worth investigating.

# Statement of the problem

Part of being physically fit is to be able to move from one place to another and some of PHIC have these mobility problems. This study set to investigate the importance of physiotherapy on the physically and health impaired children.

# Scope of the study

The study covered Federal College of Education (Special), Oyo, Oyo State, Nigeria. This College was chosen because PHIC are also found in this institution, being the only special college in the Sub-saharan Africa. PHIC are found in all the three levels of the School of Special Education which is one of the schools in the institution and all students pass through the school.

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## **Research Questions**

- 1. How important is physiotherapy to the physically and health impaired children?
- 2. Does physiotherapy have any effect on the physically and health impaired children?
- 3. Does physiotherapy provide any role to the PHIC?

#### Methodology

The study made use of descriptive survey research design. The sample consisted of twenty (20) physically and health impaired students who were recruited through random sampling technique.

A 20-item structured questionnaire tagged "The Importance of physiotherapy to the physically and health impaired questionnaire" was used to collect data for the study. It consists of two sections, section A and B. Section A required respondents personal background information that include sex, age, marital status, and level while section B contains items, data of which when collected will give clues to the research questions to justify study's objectives. The questionnaire was validated by given it to experts in the field of education to correct, modify, remove and add some things before the final copy was produced. Twenty copies of the validated questionnaire were produced and randomly administered by the researcher to the physically and health impaired students in all the three levels during their lectures. They were allowed some time to fill it after which they were collected. All were returned. The responses were presented in table 1 below and simple percentages were used to analyze them.

#### **Results**

Table 1: Data from responses of participants to items 1 - 20 on the questionnaire

S/N	ITEMS	RESPONSES						
		YES	%	NO	%	TOTAL		
1	Do you think all physically and health impaired	18	90	2	10	20	100	
	children (PHIC) need physiotherapy skills and							
	services?							
2	Do Physiotherapists recommend mobility aids for	17	85	3	15	20	100	
	the PHIC?							
3	Have you benefitted from physiotherapy services	19	95	1	5	20	100	
	before?							
4	Do you think without physiotherapy, the life of	15	75	5	25	20	100	
	PHIC will be useless?							
5	Do the roles of physiotherapy in the life of PHIC be	16	80	4	20	20	100	
	overlooked?							
6	Do PHIC are able to live their lives joyfully through	20	100	0	0	20	100	
	the help of physiotherapy?							
7	Does physiotherapy use a variety of techniques to	20	100	0	О	20	100	
	help muscles, bones and joints of PHIC work to their							
	full potential?							
8	Does physiotherapy help in early identification and	12	60	8	40	20	100	
	diagnosis of PHIC?							
9	Physiotherapy skills are meant for PHIC alone	8	40	12	60	20	100	

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10	Does physiotherapy help parents to become skillful	14	70	6	30	20	100
	in assisting their PHIC?						
11	Does physiotherapy contributes immensely to social	12	60	8	40	20	100
	adjustment of the PHIC in the societies?						
12	Are massage, stretching and hydrotherapy are some	19	95	1	5	20	100
	of the approaches employed by physiotherapists for						
	PHIC?						
13	Do physiotherapy have adequate equipment and	16	80	4	20	20	100
	facilities to help PHIC?						
14	Are Physiotherapists are involved in	18	90	2	10	20	100
	multidisciplinary team working with other health						
	professionals to help PHIC enjoy their life to the						
	full?						
15	Do physiotherapists teach PHIC how to use	20	100	0	0	20	100
	prostheses and wheelchairs in order to reduce pain						
	and encourage mobility?						
16	Do physiotherapists prescribe walking aids for	20	100	0	0	20	100
	PHIC						
17	Do physiotherapists work with client to learn how to	18	90	2	10	20	100
	manage his/her condition independently?						
18	Does physiotherapy enhance your mobility?	18	90	2	10	20	100
19	Has physiotherapy solved a lot of your problems?	18	90	2	10	20	100
20	Did physiotherapy skills have effect on your	19	95	1	5	20	100
	muscles, bones and joints?						

## **Discussion of Results**

## Research Question 1: How important is physiotherapy to the PHIC?

The data collected from responses to items 1, 2, 4, 5, 6, 7, 8, 12, 16, 17 and 20 in table 1 above revealed that physiotherapy is very important to the physically and health impaired children. The responses showed that physiotherapy helps PHIC to relieve pains, enhance their mobility, live independently so that they can contribute their own quota to the society they belong. This finding is in line with what David (2004) documented that physiotherapy restores, maintains and promotes general fitness and health of people which shows that, it is very important in the lives of all including PHIC.

# Research Question 2: Does physiotherapy have any effect on PHIC?

The data collected from responses to items 18, 19 and 20 in table 1 above revealed that physiotherapy has effect on muscles, bones and joints problems being experienced by PHIC. The effect is being felt when their pain are reduced, their joints mobilized and they are able to live independently. This agrees with the opinion of Dorman and John (2000) that, physiotherapy helps to reduce pain, encourage mobility and teach people how to use prostheses, crutches, wheelchairs and other adaptive devices. Physiotherapists prescribe walking aids and other adaptive devices for PHIC to improve functioning.

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## Research Question 3: Is there any role being played by Physiotherapists for PHIC?

The responses to items 4 and 10 revealed that physiotherapy plays a major role in the life of PHIC. Responses to item 4 showed that 80% of the respondents said the roles of physiotherapy to the PHIC cannot be overlooked. This is in line with Deploy (2004 submission that physiotherapy plays important roles in the rehabilitation of physically impaired by assisting them to learn how to use parts of the body and develop physical skills, helping them to become mobile independently or by using equipment.

#### **CONCLUSION**

The study has investigated the importance of physiotherapy on PHIC. It can be concluded from the findings of this study that the importance of physiotherapy over physically and health impaired cannot be overemphasized. It helps to relieve their pains, improve their joint mobility form one place to another, prevent or correct deformities if already present; restores, maintains and promotes their general fitness and health; and live independently. Therefore, physically and health impaired children who undergo physiotherapy are better off in living a meaningful and joyful life than those who did not.

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