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Effect of Nursing Intervention on Reproductive Health knowledge among Adolescent Females with Educable Intellectual Disabilities

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Abstract: Background: Persons with disabilities represent a significant portion of the world's population, and they are part of every community. Information on reproductive health is often inaccessible to them. The purpose of this study was to investigate the effect of nursing intervention on sexual and reproductive health knowledge among adolescent females with educable intellectual disabilities. Design: A quasi- experimental research design was utilized (pretest-posttest test). Sample: Twenty adolescent females with an educable intellectual disability were enrolled in the study. **Instrument:** Two instruments were used. An interview questionnaire was developed to collect information about social characteristics. Second instrument was developed to assess knowledge of adolescent females having educable intellectual disability about reproductive health. Results: significant difference between the girls' pre, post intervention regarding their knowledge about female reproductive system (P value < 0.001) Pre 20 (100%) And post3 (15%). Conclusion: The present study concluded that the educational guidelines had a positive effect on the awareness of adolescent females with educable intellectual disability regarding reproductive health. Recommendation: Further studies should be conducted on the reproductive health care needs of adolescents with disabilities.

Keywords: Nursing intervention, Reproductive health knowledge, adolescent females with educable intellectual disabilities.

Introduction

In Egypt young people with disabilities (YPWD) are more likely than the general population to be illiterate, unemployed, and impoverished. They often lack equal access to information and education for reasons ranging from barriers regarding physical access to services to varied special learning needs. Very little is known about knowledge, attitude, and practice (KAP) of YPWD regarding reproductive health

(RH) related issues. (Curtis, Geagan, 2016)

Persons with disabilities represent a significant portion of the world's population and are part of every community. About 10 percent of the world's population, 650 million people, live with a disability. Approximately 1.4 million children in the world are blind; 75% of them live in developing countries. Persons with disabilities often face stigma, discrimination, violence and poverty

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Adolescent Females with Educable Intellectual Disabilities

also; being female and disabled has been described as 'double jeopardy'. They experience the deprivation of opportunities in all aspects of life, including access to essential services (WHO, 2009 & Smeltzer, 2013).

Adolescence is one of life's most fascinating and complex stages of The World Health human life. Organization (WHO) defines adolescents as young people aged 10-19 years. Attitudes and behaviors in physical formed the psychological maturation process are crucial to the current and future Reproductive Health (RH) individuals and affect the well-being of their families and communities 2001; UNICEF, (USAID, &WHO, 2013).

People who are blind, deaf, or have intellectual or cognitive impairments find that information on reproductive health is often inaccessible to them. In particular, their sexuality has been ignored and their reproductive rights denied. Informing young persons with disabilities about RH is often difficult because parents, educators, and RH counselors often do not know how to broach the subject. As a result, many young people with disabilities do not receive even basic information about how their bodies develop and change as they mature (UNFPA, 2009, WHO, 2009 & TARSHI, 2014).

Raising awareness about RH for persons with disabilities frequently fighting misconceptions, requires stigma, and discrimination communities. A key message is that negative attitudes and barriers in societies are often more disabling than the actual impairments. Community health nurses are in a prime position to advocate for the health needs of the disabled person. (DDG, 2017).

Significance of the study

Approximately 56 million people in the United States, or 20% of Americans, live with a disability, and this number is expected to rise as the baby boomer population ages. (National Association of County and City Health Officials, 2014)

According to Egyptian National Review report (2018) it was found percent of disabilities approximately 12.2% of Egyptian population 9.71% of them are living in village. Egypt health issues survey (2015) found that the number of adolescent girls aged 15-19 years is 8 million, only 4,1% of them have enough information reproductive health, 8,22% of them are living in towns but4,7 % of them are living in villages (Egypt Demographic Health Survey, 2018) People with disabilities are four times more likely to report fair or poor health when compared to those without disabilities. For instance, people with disabilities are more likely to experience physical, emotional problems. (Havercamp& Scott, 2015)

It founded that this study isn't discussed in Menofia or in Egypt before so the researcher found that disabled adolescent females are neglected, and it is important to shed the light for disabled youths for reproductive health education can no longer be ignored and neglecting their reproductive health and wellbeing to avoid adverse effects both now and on their future health and wellbeing.

Purpose of the Study

The purpose of the study is to evaluate the effect of nursing intervention on reproductive health knowledge among adolescent females with educable intellectual disabilities.

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Research Hypotheses

Disabled adolescent females who receive reproductive health knowledge will have higher scores on posttest than before intervention.

Method

Research Design: -

The study was conducted using a Quasi- experimental research design utilized (pretest – posttest test).

Research Setting: -

The study was conducted at agriculture secondary school for dual education at El Sadat city

Type of sample

Purposive sampling

Sample size:

The total number of all female students with educable intellectual disabilities for the three levels is 34. The researcher selected 20 adolescents. They were selected from the three levels of the school: -4 from the first level, 10 from second level and 6 from the third level as regards the inclusion criteria.

Inclusion criteria:

Adolescent female with educable intellectual sdisability (F.E.I.D) age ranged between (14-18).

Exclusion criteria

Adolescent female with educable intellectual disability dependent on shadow teacher.

Instruments of data collection

The data was collected through two instruments

Instrument One: It was a structured interviewing questionnaire. It contained 16 questions.

It included 2 parts as follows: d Part one: Social characteristics such age, educational level, number of sisters and brothers, educational level of parents and living with both parents or not, etc......

Part Health history: It contained questions about puberty, about menstruation, reproductive system, etc.....

Instrument two: Knowledge about reproductive health. It developed by the researcher after a review of related literature to assess adolescence awareness reproductive health which include anatomy of adolescence reproductive system (4 items), puberty (5 items), menstrual hygiene (19 items). marriage (2 items), pregnancy labor (8 items) and family planning methods (8 items)

Pilot study: - A pilot study was conducted on 10% of the total sample (n=....) to test the feasibility, clarity and applicability of the instruments, and to estimate the time needed to fulfill then. Necessary modifications were done. Sample of the pilot study was excluded from the total study.

Ethical consideration: A written approval was obtained from the ethical and research committee of the Faculty of Nursing, Menoufia University. There were no risks or any cost of participation, also there were voluntary participation and confidentiality of each subject who was agreeing to participate in the study was assured.

Procedure:

Data collection the data collection of the study took two months starting in October 2021 and ending in November 2021. In this study the participant female in adolescent age (15-18), divided into four groups according to their attendance days. Each group contained....... The researcher presented to the school from 8am to 12pm and interviewed females in presenting days. Health visitor attended meeting with study participant.

Preparatory phase:

A comfortable and private place was chosen for interventions. Orientation was done about researcher name, purpose, and content of the study. Subjects were interviewed individually at their rooms where pre-test was done using semi structured questionnaire about reproductive health.

Implementation phase: this training was divided into 7 sessions; conducted two times\ week each session has a set of specific objectives. This was achieved through several teaching methods such as Charts, pictures, and graphs. Presentation with power point and Simulator.

First session the researcher introduced herself; explained the purpose of the study and introduced the (Sociodemographic data and pretest). then analyzed pretest findings to identify needs of girls Knowledge about reproductive health (needs assessment). Time allowed: half hour.

The second and third sessions: Separate the second session from the third session. Anatomy of reproductive system). It included Definition of reproductive system, structure of female reproductive system and functions of female reproductive organs.

The fourth session: (Menstruation)
Intended learning Out comes
(ILOs) of the fourth session
(knowledge and understanding
skills): It included definition of
menstrual cycle, List symptoms of
menstruation and Identify methods of
relieving menstrual pain.

The fifth session It included define menstrual hygiene, List steps of prenatal care during menstrual hygiene and Enumerate types of pads used

The sixth and seventh sessions: - Separate the sixth from the seventh session It involved Family planning methods.

A post test was conducted one week following the health education intervention using the same data collection instruments

Limitation of the study: -

The researcher forced to change the place of the study because of the schools prevents any visitor related to spread of corona virus and low immunity of students.

Data analysis:

The data obtained were reviewed, prepared for computer entry, coded, analyzed, and tabulated. Descriptive statistics (i.e., frequencies, standard percentage, mean and deviation, etc.) was done using computer program SPSS version 16. Chi-square test used to compare differences in the distribution of frequencies among group. It is considered * significant when P values were less than 0.05 or (P< 0.05).

Results

Table (1): describes the social characteristics of the studied FEID student's as regards their age group, number of family members, education level and occupation father& mother and living with both parents or not. The table shows that the largest age group in the study was the age 16 years old (50%). Most of mothers represented (75%) had high educational level. Almost of them (81.7%) were employed.

<u>Table 2:</u> shows information for FEID about the female reproductive system. This table reveals that there was a highly statistically significant difference between the girls' pre, post intervention regarding their

knowledge about female reproductive system (P value < 0.001).

Table (3): shows the studied FEID students' level of knowledge about puberty. This table reports that there was a highly statistically significant difference between the pre, post intervention regarding their knowledge about puberty where (p value <0.001).

Figure 3:- This figure shows that the study FEID students' knowledge about **puberty** was significantly increased in the girls who had good communication with parents than those who had no communication with parents (P value<0.05).

Table 1: Distribution of adolescence according to their social characteristics

Social Characteristics	N=20			
Age				
15 years	1 (5%)			
16 years	10 (50%)			
17years	8 (40%)			
18 years	1 (5%)			
Number of families members	(= 1.1)			
From 3-4	14 (70%)			
From 4-6	4 (20%)			
7 or more	2 (10%)			
Number of sisters	· /			
One	14 (70%)			
Two	2 (10%)			
Four or More	2 (10%)			
None	2 (10%)			
Number of Brothers				
One	7 (35%)			
Two	7 (35%)			
Four or More	2 (10%)			
None	4 (20%)			
Number of rooms in the house				
Three rooms	20 (100%)			
Father educational level				
Read & write	7 (35%)			
Secondary school	8 (40%)			
University	5 (25%)			
Father job				
Employed	20 (100%)			
Mother educational level				
Read & write	2 (10%)			
Secondary school	3 (15%)			
University	15 (75%)			
Mother job				
Employed	16 (80%)			
Unemployed	4 (20%)			
Your order in brothers and sisters				
The eldest	14 (70%)			
Middle	4 (20%)			
Number	2 (10%)			
Do you live with your parents				
Both	18 (90%)			
One of them	2 (10%)			

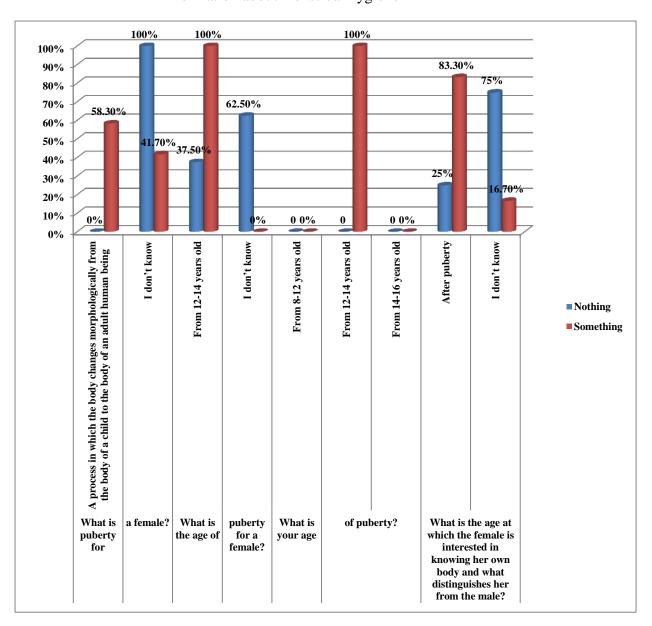
Table 2: Knowledge of FEID about reproductive system before and after intervention

intervention				
Reproductive system	Before nursing Intervention	After nursing Intervention	P value	
Do you know what the reproductive system is?				
Yes	0 (0%)	17 (85%)		
I don't know	20 (100%)	3 (15%)	<0.001*	
Do you know what the female reproductive system is made of?				
Fallopian tubes, ovaries, uterus and vagina	2 (10%)	0 (0%)		
All of the above	0 (0%)	18 (90%)		
I don't know	18 (90%)	2 (10%)	<0.001*	
Have you heard of the hymen				
Yes	7 (35%)	20 (100%)		
No	13 (65%)	0 (0%)	<0.001*	
What are the types of hymen				
All of the above	0 (0%)	20 (100%)		
I don't know	20 (100%)	0 (0%)	<0.001*	

Table 3: Knowledge of adolescence about puberty before and after intervention

D 1 4					
Puberty	Before nursing Intervention	After nursing Intervention	P value		
		intervention			
	erty for a female?	T	T		
A process in which the body changes		4.4.400			
morphologically from the body of a child to the	7 (35%)	16 (80%)			
body of an adult human being			<0.001*		
All of the above	0 (0%)	4 (20%)			
I don't know	13 (65%)	0 (0%)			
What is the age of puberty for a female?					
From 12-14 years old	15 (75%)	20 (100%)	0.047*		
I don't know	5 (25%)	0 (0%)	0.047		
What is your age of puberty?					
From 8-12 years old	4 (20%)	0 (0%)			
From 12-14 years old	14 (70%)	14 (70%)	0.050*		
From 14-16 years old	2 (10%)	6 (30%)			
What are the changes that happen to a girl at puberty?					
Menstruation	4 (20%)	5 (25%)			
The appearance of hair in some areas	2 (10%)	0 (0%)			
Other is	0 (0%)	11 (55%)	<0.001*		
I don't know	9 (45%)	4 (20%)	<0.001		
Menstruation and the growth of sexual	5 (25%)	0 (0%)			
Organs	- (,	. (****)			
What is the age at which the female is interested in knowing her own body and what					
distinguishes l	ner from the male?				
Before puberty	0 (0%)	5 (25%)			
After puberty	12 (60%)	15 (75%)	0.001*		
I don't know	8 (40%)	0 (0%)			

Figure 1: Relationship between communication with parents and girls' information about menstrual hygiene



Discussion

Reproductive health care addresses the reproductive processes, functions, and systems at all stages of life. It encompasses the reproductive health of both men and women, as well as maternal and child health. Reproductive health includes issues of adolescent sexual development, sexual orientation, sexual behaviors, pregnancies, and. if indicated. contraception (Wolgemuth et al., 2021).

In general, the needs of adolescent with disabilities are less likely to be met in developing countries. Still, developed countries also continue to face significant challenges, particularly as their population's age. adolescents with disabilities have the same sexual and reproductive health

(SRH) needs as other people. Yet face barriers they often information and services. The ignorance and attitudes of society and individuals, including health-care providers, raise most of these barriers -- not the disabilities themselves. In fact, existing services usually can be adapted easily to accommodate persons with disabilities. Increasing awareness is the first and biggest step (Magson et al., 2022).

the knowledge to of researcher, few studies have been carried out among disabled young concerning people to sexual reproductive health especially in middle east. Also, all researches which carried out in the developed countries had different topics in reproductive health which include if the studied sample had sexual intercourse, types of contraceptive during their first sexual encounter, unintended pregnancy, history of abortion and use of condom. All of these topics didn't fit with our communities. So, the present study aimed to evaluate of the effect of nursing intervention on reproductive health knowledge for adolescent females with educable intellectual disabilities.

So, the present study aimed to evaluate of the effect of nursing intervention on reproductive health knowledge for adolescent females with educable intellectual disabilities. The findings of the current study succeeded in achieving the hypothesis that was formulated to achieve the purpose of the study.

A study was carried out by Abdul-Aziz Seidu et al., 2020 to assess the challenges young people with disabilities (YPWD) s face in accessing sexual and reproductive health services (SRHS) in Ghana. Sample of the 2127 respondents, more than half were males and the

rest were females. The highest proportion of the respondents were aged 15–19.

Also in agreement with Sabra et al., 2019 who conducted a study about of Health Educational "Effect Program for Females Blinded Adolescents Students regarding Reproductive Health" in El-Nor and El- Amal School Elfayoum City& Benisuef City.. The results showed that the age of them between 12-14 years old (36.6%).

Conclusions

In the light of the present study results, it can be concluded that adolescent females with educable intellectual disabilities showed a significant improvement after nursing intervention regarding information female reproductive about the system, puberty, menstruation, menstruation symptoms, hygiene, planning methods family and types contraceptive and contraceptives compared to before nursing intervention.

Based on the findings of the current study succeeded in achieving the hypothesis that was formulated to achieve the purpose of the study.

Recommendations

Based on the findings of the present study, the following recommendations are suggested:

Continues health education programs should be implemented for increasing awareness of adolescents with intellectual disabilities about reproductive health and further studies should be conducted in reproductive health care needs of adolescents with disabilities

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