SCHOOL BASED REPRODUCTIVE HEALTH EDUCATION OF ADOLESCENT GIRLS IN BENIN CITY: A COMPARATIVE STUDY

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Abstract

This study investigates the impact of school-based Reproductive Health Education (RHE) amongst adolescent girls in selected secondary schools in Benin City. A cross-sectional descriptive study design with both qualitative and quantitative (mixed-method) approach was used to collect data. A total of 1563 female students from Federal Government Girls' College (Group A) in Egor LGA . The association between respondents' practice of SRH revealed that a greater proportion 626(90.2%) and 779(89.6%) respectively for Group A and B had no intimate partner. This association was not statistically significant (p = 0.716). Consequently, more than 80% from both schools never had sexual experience. This association was statistically significant (p <0.001). Frequency of sexual intercourse shows that most of the respondents with sexual experience in Group A and Group B practice intercourse just once in a while even though 194(28.0%) and 332(38.2%) respectively claimed that condos make sex less pleasurable. This association was statistically significant (p <0.001).

70% of Group A respondents confirmed that the RHE from school helps them make positive decisions. There is need for advocacy and enlightenment programmemes to aid policy making that enables adequate manpower training, curriculum development, monitoring and the evaluation of RHE in schools.

Keywords: Reproductive Health Education, Reproductive Health behaviour and female secondary school students.

Introduction

Studies have shown that environmental influences are critical determinants of Reproductive Health (SRH) amongst adolescents. There is a surge in the challenges that this population Group currently faces, specifically in SRH. Several factors could be responsible for the overwhelming sexual health concerns among the adolescents. It is worthy of note that information sources about sexual activities and behaviours are often unguided or uncontrolled in many resource-constrained settings. Sexual life information emanates from several sources, including but not limited to the internet, social media, televisionprogrammes amongst others. The adolescents are flooded daily with sexual cues and their senses mired in halfbaked knowledge on the act of sex. Yet, in most instances, adolescents are taught to abstain from sexual acts without further details regarding the consequences, reasons, period and dangers of sexual violence. The desire for involvement in

sexual activities due to exposure to odd messages from the internet/social media, music, movies and magazines have remained unabated among the adolescents. This has replaced current RHchallenges faced by this population Group.

With this kind of environment that adolescents have to grapple with, it is no wonder that sexuality has been highly amplified in their minds as sexual feelings, thoughts and behaviours are often accentuated during adolescence. This is largely part of the reasons why the international human right treaties stated that governments have the obligation to protect and ensure the rights to life, health, information, education and nondiscrimination of key population, particularly adolescents. It is a fact that adolescents have the right to be healthy holistically and live all-round happy lives. They also need understanding, constructive criticism, correction, guidance and support from their leaders such as parents, guardians, teachers, health workers, community

and religious leaders amongst others (Godswill 2014; Woog & Kagesten 2015). There is need for adolescents to make positive RHdecisions. The majority of adolescents have inadequate knowledge required to make informed sexual decisions. This makes them more vulnerable to sexual violence and adverse sexual outcomes such as unwanted pregnancy, sexually transmitted infections (STIs) and childhood/underage marriage. An understanding of comprehensive SRH is crucial for adolescents to protect their sexuality and RH.

The period of adolescence is crucial in an individual's life because of its transitory nature. This stage transits between childhood and adulthood wherein young people experience developmental changes in physical, cognitive, mental, social and emotional development (Haruna, Hu & Wah 2018; Haruna et al 2018; Haruna, Dandeebo & Galaa 2019). It also doubles as a period of individual autonomy, which leads to a growing sense of identity and self-esteem. Young people are Group ed in three age-Group s; 10 to 14 years as teenage, 15 to 19 years as early adolescent and 20 to 24 years as post-adolescent. Generally, young people between the age 10 to 19 years are Group ed as adolescents . Adolescents constitute approximately one-fifths of population worldwide and one of the active Group s in most populations anywhere in the world (Haruna, Hu & Wah 2018; WHO 2011). More than 30 million Nigerians aged 10 to 19 years and approximately one-third of the total population (summing up to 50 million) are aged 10 to 24 years. Predictably, the population of young Nigerians will go beyond 57 million by the year 2025, accounting for a large number of adolescents.

Demystifying adolescence is multifaceted, as many of the challenges of adolescence arise from lack of awareness as well as the inability to properly respond to the changes that occur during the developmental stage, due to peer pressure, raging emotions and inadequate experience of the social system and its interactions with physical development. This is why many sexually active adolescents lack the knowledge required to handle their sexual behaviour; instigated by hormonal changes, cultural and biological factors(Mlyakado 2013; Adeokun et al 2009; Walcott, Meyers & Landau 2008). In Nigeria, approximately 25% of

adolescents are sexually active with staggering age of sexual debut ranging between 10 to 15 years (Obare, Kabiru & Chandra-Mouli 2018; Kasedde et al 2013). This could be accounted for by the turbulence that comes during adolescence, especially considering the developmental changes (WHO 2018). This presupposes that sexual behaviours and practices are major parts of adolescents' general health. RHis a state of complete physical, mental and social wellbeing in all matters related to reproductive systems, functions and processes and cannot be undermined . By implication, adolescents are able to have a satisfying and safer sexual life, the freedom to decide when, what and how to maintain their sexual health.

Review of related literature.

Reproductive Health Education is an important information, regarding ones intimacy and relationships, sex and sex identity, for the development of proper attitude, credence and trust towards his or her sexuality. The procedure through which these relevant information are gotten is termed sex education or sexuality education. Sexuality education aids in the development of skills that help the adolescent in making informed decisions about sexual related matters, RHbehaviour and perceptions to SRH, among teenagers and young people, thereby affording them the capacity to act on these choices . Adolescents and young people are prone to being victims of false information that often lead them to forming different notion and beliefs about sexuality. For example, there are health messages that stress the danger and perils associated with sexuality, others seek to encourage risky sexual activities. An effective and detailed sexuality education and intervention programmes on diseases such as HIV has been identified to achieve positive impacts on health.

Wholesome and all encompassing sexuality education can help young people and adolescents make health sexual decision. According to available evidence worldwide, programmes aimed at improving the sexual well-being of adolescent girls have proven effective in helping adolescents to either completely refrain from, or delay sexual practices. Eventually, this helps in plummeting the rate at which unsafe sex and significantly reducing the amount of sex partners they have as well as their

vulnerability to sexual vices. Based on the WHO framework of action on sexual health, there is a well-documented correlation between one's level of education and corresponding sexual health outcomes. Among many effective ways through which sexual health can be improved in the longterm is by being committed to making sure that these Group of people are appropriately educated thereby making them able to make healthy sexual decisions. Precise and validated information on sexual health and proper and effective counseling when provided will help the adolescent in having proper perspective. This type of education can be made available through religious institutions, community centers, health facilities and educational institutions.

Globally, adolescents are largely unaware or misinformed when it comes to their bodies, their sexuality and their health promoting behaviours. Report has it that only 19–26% of adolescent girls of between 15-19 years old in sub-Saharan Africa and South Asia showed or demonstrated comprehensive knowledge about STIs and HIV/AIDS, while in other regional level, the figure ranges from 6% to 42%. Though a huge proportion of adolescents who are in marriage or in union are aware of one modern contraceptive or another, majority do not have in-depth knowledge of these contraceptive methods. A report from a study conducted in India shows that only 26% of the study participants knew condom to be a one-time use contraceptive. The study further revealed that only 34% knew that pills (oral contraceptive pills) were meant to be a daily dosage pill.

A qualitative study on school -based reproductive health done by Aransiola *et al* (2013) involved 16 focus group discussions amongst instructors in 8 high schools in Ile-Ife and Ilesa, Osun State, Nigeria. The study's aim was to inspect how teachers are involved in the teaching of RHE and their perception on how they would wish adolescent RHE be taught in schools. The results showed that teachers preferred RHE to be school-based, though varied thoughts were on what topics should be included in RHE. Most of the teachers were not comfortable and enthusiastic with direct involvement in personal counseling of their students, nonetheless they were comfortable to teach RHE in a classroom setting. They were also

in support of the present approach which involves the expelling of any pregnant school girl.

Statement of the Problem

The need for urgent intervention in adolescents' reproductive health can not be over emphasized. It is sad to note that adolescents' reproductive health concerns are yet to receive proper intervention in Nigeria, despite the fact that youth-friendly RH services have been identified as a channel for improving access and utilization of SRH services. Also, high predominance of unsafe and premarital sex has been reported among in-Group Adolescents in several settings, resulting in adverse sexual health outcomes. Poor sexual health knowledge is one of the factors indicated as contributing to early and unprotected sex and other risky sexual behaviour among in-Group Adolescents (Esiet 2012; Cortez et al 2015).

Objective of the study

To investigate and compare the impact of school-based RHE among adolescent girls in selected Federal (Unity) and state secondary schools in Benin-city.

Specific Objectives

- 1. To determine the level of knowledge of RHknowledge among adolescent girls in the selected secondary schools for the study.
- 2. To investigate the impact of school-based RHEprogrammemes on the respondents' practice of sexual risky behaviours in the selected schools for the study.

Research Questions

- 1. What is the level of RHknowledge among the respondents?
- 2. What is the impact of Group Based RHEprogrammeme on sexual risky behaviours of the respondents?

Research Hypotheses

- 1. The group responses does not relate significantly to the Reproductive health knowledge of the respondents
- 2. There is significant impact of the Group Based RHE on the sexual risky behaviours of the respondents

Scope of the Study

The study is narrowed to in-Group Adolescent girls attending public secondary school in Benin City. The sample will include only a limited number of respondents in a specific location therefore the results of this study would be interpreted carefully because they will be derived from this single preliminary investigation. Thus, only in-Group Adolescent girls of age 10 to 19 years will participate as respondents in the study, while the focal point of study will be SRHE, sexual health knowledge (SHK) and sexual health behaviour (SHB).

Methodology

The research was based on a cross-sectional study design. It compared the study and control groups. The intention was for the characteristics of sampling units to be homogenous in nature. They were adolescent girls between the ages of 10-19 who were in secondary schools in Benin City. The quasi-experimental and equivalent control group design was used to evaluate the effectiveness of the SRHE intervention package.

Study Area

Edo state lies between longitude 5 degrees East and 6.45 degrees East, and latitudes 6.1 degrees North and 7.30 degrees North with total land mass of 17,802km². The state has a population growth rate of 2.74% per annum with population density of about 168 persons per square kilometers. Currently the population of Edo State is projected at 4,847,769 in 2021 and a density of 207.9km². The 2006 census puts the population of Edo State at 3,218,332; made of 1,640,461 males and 1,5777,871 females.

Study/Target Population

The study population comprised of students, teachers and principals and Ministry of Education officers in Edo State. The students were randomly selected from two secondary schools, Federal Government Girls' College (FGGC) in Egor LGA and Emotan College in Oredo LGA which are both within Benin metropolis. The FGGC was selected purposively because it is the only girls' secondary college [Unity School] in Benin City that has benefited from FLHE programme. Emotan College was selected by simple random method out of the girls' secondary schools in Oredo Local Government Area. Three teachers including the

school principals participated in the study from each school while two officers each from Federal Ministry and State Ministry of Education, which represented the policy makers were also involved. The school enrolment for Emotan College for 2018/2019 sessions was 3981 while it was 1846 for FGGC. The total population of the students for the study was 5827.

Sample and Sampling Techniques

The Taro Yamane method for sample size calculation which was formulated by the statistician Tara Yamane in 1967 to determine the sample size from a given population was adopted for this study. The formula is given and interpreted below;

$$n = N/1 + N(e)^2$$

Where:

= 1563

n = Sample size

N = Population size

e = Margin error (P- value used = 0.03)

Therefore, the total sample size of 694 and 869 was selected from Federal Government Girls College and Emotan College respectively.

Instruments for Data Collection

To achieve the objectives of this study, a survey was conducted among 1563 respondents which were students of FGGC. using a structured questionnaire.

The instruments for the qualitative data collection included: FLHE indicator developed by FME, FMH and NACA, Focus Group Discussion

[FGDs] and In-depth Interview [IDI] Guides. These were used to generate primary data for the study. They helped the study to elicit comprehensive and richer information on the study.

Validity and Reliability of Research Instrument

According to Wamick and Lininger (1975), the basic goal of a research instrument is to obtain information relevant to the purpose of the study; to collect information with maximal reliability and validity. Mason and Brauble (1989) opine that validity has to do with the degree to which a text measures what it is supposed to measure. The content validity was adopted to authenticate that the study instruments measured exactly what they were designed to measure. The questionnaires and other instruments were given to experts in SRH and the supervisors for proper review. The reliability of the research instruments was established by

administering the instruments in a pre-test to a replica of the proposed study population and the data were analyzed by Cronbach 't' test which gave reliability test of 80.6% hence the instrument was reliable. The lessons learnt from the pre-test was used to modify the study instrument and further improved the actual data collection.

Administration of Research Instruments

The administration of the research instruments for this study was carried out with the help of my research assistance.

Method of Data Analysis

Efforts were made to ensure that no questionnaire was lost after administration. The administered copies of the questionnaires were collated, labelled /coded, screened and analysed using SPSS version 20

RESULTS Table 1a: Knowledge of Reproductive Health related Issues among the Study Population

Variables	Group A	Group B	Chi-Square	P-value
	n=694(%)	n=869(%)		
Ever heard of Reproductive Hea	lth			
No	72(10.4)	433(49.8)	274.610	<0.001*
Yes	622(89.6)	436(50.2)		
Ever heard of contraceptive use				
No	134(19.3)	357(41.1)	84.901	<0.001*
Yes	560(80.7)	512(58.9)		
List of contraceptive methods kn	own*			
Condom	434(77.5)	145(28.3)	260.435	<0.001*
Injectables	126(22.5)	92(18.0)	3.390	0.066
Pills	255(45.5)	57(11.2)	152.983	<0.001*
Female condom	194(34.6)	372(72.7)	155.081	<0.001*
Diaphragm	103(18.4)	95(18.6)	0.005	0.946
Females responsibility to ensure				
contraceptive during sex				
No	234(33.7)	405(46.6)	26.517	<0.001*
Yes	460(66.3)	464(53.4)		
Pregnancy can occur even with contraceptive				
No	316(45.5)	224(25.8)	66.601	<0.001*
Yes	378(54.5)	645(74.2)		
STIs are caused by Witchcraft				
No	623(89.8)	748(86.1)	4.885	0.027*
Yes	71(10.2)	121(13.9)		
Abstinence can prevent STIs				
No	134(19.3)	259(29.8)	22.584	<0.001*
Yes	560(80.7)	610(70.2)		
Use of Condom can prevent STIs	S			
No	279(40.2)	676(77.8)	229.377	<0.001*
Yes	415(59.8)	193(22.2)		
Women are responsible for infertility				
No	546(78.7)	657(75.6)	2.052	0.152
Yes	148(21.3)	212(24.4)		

^{*}Statistically Significant

Table 1a revealed the knowledge of SRH related issues among the respondents. It however shows that a larger fraction of the respondents 622(89.6) of Group A and 436(50.2) from Group Bhave heard of reproductive health. This was statistically

significant p<<0.001. Over three quarter 80.7% of respondents from the Group A have heard about contraceptive use in contrast to about 58.9% of the Group B. This was statistically significant. Female condom (72.7%) was the most mentioned

contraceptive known among Group B followed by condom (28.3%) diaphragm (18.6%) and injectables (18.0%). The least mentioned contraceptive among the Group A was diaphragm (18.4%)..

Four hundred and sixty (66.3%) of respondents from Group A affirmed that it is the female responsibility to ensure the use of contraceptive during sex while 464(53.4%) from Group B shared the same opinion. This relationship was found to be statistically significant (p<0.001). On whether there are possibilities of pregnancy occurring even when contraceptive is used during sexual intercourse, 54.5% and 74.2% from the

Group A and Group B respectively concurred to this view. This relationship was found to be statistically significant (p<0.001). A good number of respondents (89.8% and 86.1%) respectively from both schools correctly answered that STIs are not caused by witchcraft. More so, greater proportions (80.7% and 70.2%) respectively of the two Groups answered correctly that abstinence from sexual activities prevents STIs, while only (59.8% and 22.2%) of the Group A and Group B affirmed that condom cannot always prevent STIs. Moreover, 78.7% and 75.6% of the Group A and Group B respectively reacted that not only women are responsible for infertility as men have been proved to contribute 40% of infertility.

Table 1b: Knowledge of Reproductive Health related Issues among the Study Population

Variables	Group A n=694(%)	Group B n=869(%)	Chi-Square	P-value
Menstruation occurs throughout the life time of a woman				
No	561(80.8)	663(76.3)	4.685	0.030*
Yes	133(19.2)	206(23.7)		
Pregnancy can occur by touching				
No	585(84.3)	716(82.4)	0.999	0.318
Yes	109(15.7)	153(17.6)		
Hug, kiss and touch can transfer H	IIV			
No	567(81.7)	650(74.8)	10.663	0.001*
Yes	127(18.3)	219(25.2)		
All HIV pregnant women infect				
their babies with HIV				
No	542(78.1)	621(71.5)	8.924	0.003*
Yes	152(21.9)	248(28.5)		
Having multiple sexual partners can result to contracting HIV				
No	111(16.0)	248(28.5)	34.317	<0.001*
Yes	583(84.0)	621(71.5)		
Mosquitoes can spread HIV				
No	613(88.3)	737(84.8)	4.058	0.044*
Yes	81(11.7)	132(15.2)		
Good condom can be used twice				
No	678(97.7)	715(82.3)	94.598	<0.001*
Yes	16(2.3)	154(17.7)		

^{*}Statistically Significant

Most of the respondents (80.8% and 76.3%) from Group A and Group B respectively affirmed that

menstruation in women does not continue throughout the life time of the woman. This however was statistically significant p = 0.030. On whether a girl can become pregnant by being touched by a boy, 84.3% of the respondents from Group A did not succumbed to that opinion while 82.4 answered correctly from Group B. This was found not to be statistically significant p = 0.318. About Eighty two percent (542) and 650(74.8%) of respondents from Group A and Group B respectively admitted that neither hug, kiss nor touch can cause one to be infected with HIV from a carrier of the disease. A little more than that number from both Group s (88.3%) for respondents from

Group A and 84.8% from Group B also attest to the fact that mosquitoes cannot spread HIV. On whether a good condom can be used twice and having multiple sexual partners can result to contracting HIV, 97.7% and 82.3% for Group A and Group B respectively answered correctly. 78% of Group A and 71% of Group B had a good knowledge of mothere to child transmission of HIV. The findings in this table shows that the respondents in both Group A and B has a generally good knowledge of reproductive health related issues.

Table 2: Impact; Respondents' practice of SRH

Variables	Group A	Group B	Chi-Square	P-value
	n=87(%)	n=58(%)	_	
Do you have an intimate part	ner			
No	626(90.2)	779(89.6)	0.132	0.716
Yes	68(9.8)	90(10.4)		
Ever had sexual intercourse				
No	607(87.5)	811(93.3)	15.752	<0.001*
Yes	87(12.5)	58(6.7)		
Age at sexual debut (years)				
5-10	14(16.1)	13(22.4)	1.814	0.404
11-15	26(29.9)	20(34.5)		
16-21	47(54.0)	25(43.1)		
Frequency of sexual intercou	rse			
Weekly	12(13.8)	2(3.4)	11.481	0.009*
Monthly	15(17.2)	9(15.5)		
Yearly	19(21.8)	5(8.6)		
Once in a while	41(47.1)	42(72.4)		
Do you use condom during sex				
No	55(63.2)	33(56.9)	0.583	0.445
Yes	32(36.8)	25(43.1)		
Condoms make sex less				
pleasurable				
No	500(72.0)	537(61.8)	18.159	<0.001*
Yes	194(28.0)	332(38.2)		
Do you know where to get				
condom				
No	474(68.3)	282(32.5)	198.558	<0.001*
Yes	220(31.7)	587(67.5)		
Would you feel comfortable				
getting condom				
No	660(95.1)	787(90.6)	11.560	0.001*
Yes	34(4.9)	82(9.4)		

Ever gone for voluntary HIV test				
No	631(90.9)	752(86.5)	7.284	0.007*
Yes	63(9.1)	117(13.5)		
What was the result				
Negative	7(11.1)	3(2.6)	5.701	0.017*
Positive	56(88.9)	114(97.4)		
What is sexual orienta tion				
Homosexual	8(1.2)	9(1.0)	0.049	0.825
Heterosexual	686(98.8)	860(99.0)		

^{*}Statistically Significant

More than half among the respondents in Group B 587(67.5%) knows where to get condom compared to 220(31.7%) from Group A. More so, more than 90% from both schools would not feel comfortable getting the condom. This association was statistically significant (p<0.001).

Not many of the respondents from both schools have gone for voluntary HIV test but the result turned out to be positive for a good number of those who voluntarily undergo the test for Group A and Group B respectively. This association was statistically significant (p < 0.001). As regards the respondents sexual orientation is large percentage of 98% Group A and 99% in Group B are heterosexual while less than 10 about 1% in each Group are homosexual. This does not show a significant relationship between the two Group s in terms of their difference in sexual orientation. The study reveals that there are both heterosexual and homosexuals in the two Group's compared and they are bold to declare their sexual orientation.

Discussions

The findings of this study are presented in comparison with the similarities or differences observed in the literature review. Probable reasons for these similarities or differences are also made. This study considered the impact of Group Based RHE and sexual behaviours of adolescent girls in Benin City, by comparing two girls-only secondary schools located in the metropolis. The study components include the level of the respondents knowledge on SRH related issues, their SRH behaviours, their perception to Group Based reproductive health education.

The higher level of RH and contraceptive use showed a significant increase among Group A

compared to Group B. The low level of knowledge witnessed among Group B may be associated with the fact that majority of the public secondary schools in Edo State and other parts of the country do not include FLHE in their curriculum. It is a thing of interest to note that the media/internet (mass media) played a significant role in the dissemination of information on reproductive health, especially among the participants from the Group A. Nevertheless, information disseminated from most mass media may be incomprehensive, incomplete, insufficient and coloured with biases from religious and cultural perspectives.

It was also observed that students from School A got information about RH and sexual health by reading of material, school teacher and friends, while majority of Group B got theirs from irregular sources such as Group Alumni and non governmental activities. Group A is made up of students from different parts of the region or the country since the school is a unity school which means that the students are drawn from other parts of the country as well as from Edo State. This may have contributed to their better access to the internet as most of them are from middle and upper-class families and also educated homes. It is also observed that many students heard about RH and contraceptive use from their friends and peers, who are also uninformed. This is not in agreement with the finding of a study in Tanzania where parents and religious leaders were the most preferred source of SRH information. Inadequate and incomplete information on reproductive and sexual health and poor supervision for adolescent population in many rural and semi-urban schools have been highlighted in previous study.

Conclusion

This study was able to identify good overall

knowledge of SRH among the federal governmentowned secondary school, but poor knowledge among the state government-owned secondary school.

The study found that there was significant relationship between the level of knowledge of SRHE and the respondent's knowledge and perception of RH. Also, it was found that the existing SRHE in group A is inadequate while there is no structural SRHE in group B. furthermore, majority of the respondents advocated for the provision of adequate and age appropriate schoolbased SRHE in all primary and secondary schools. However, there was no significant impact of SRHE on the attitude and practice of the two groups compared. It may be that the existing SRHE curriculum for group A is inadequate. The two groups compared was also found to depend heavily on internet and social media handles as their major sources of information on SRH and RHB. Finally, there was an overall negative attitude and poor practice of SRH among both Groups.

On this note, the provision of proper and adequate information on SRH will be hinged on providing prevention and treatment programmes that are poised to alleviate RH problems facing adolescents and young people. It appears, no doubt that the schools stand the better chance and position to provide this information for our young people, since they will be taught directly in the cause of their formal lessons in classes. The integration of

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SRHE in the curriculum of secondary schools in Edo State will help to improve and enhance the quality and accurateness of SRH information that are made available to adolescents and young people.

Recommendations

The following policy recommendations are made:

- There is need to incorporate structured teaching programmes on SRH in the school curriculum.
- 2. Parents, religious institutions and communities need to be educated on the need to help in the education of the adolescents and young people to be aware of SRH issues.
- 3. There is need to expand, update and improve on available information on SRHE as well as communication activities and materials for the young people.
- 4. Education ministry, in collaboration with schools; should encourage the formation of SRH clubs and peer education in schools.
- 5. There is need to introduce sex education at an early age so that young people can be educated early enough on how to decrease SRHcomplications.
- 6. There is also a need for intervention to improve and advance on the adolescent girls' SRH status which should aim to influence their decision-making powers in terms of SRH through increasing level of awareness.
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