



# Pubertal Communication between School Nurses and Adolescent Girls in Nigeria

Presenter/Author: Omowumi R. Salau (RN, MSc)

Other Author: Adesola Ogunfowokan (RN, PhD)

Department of Nursing Science Obafemi Awolowo University, Ile-Ife, Nigeria

### **Faculty Disclosure**

	WAR AND	
Faculty Name:	Omowumi R. Salau, MSc (Nursing),BNSc, RN, RM, RPHN	
Conflicts of Interest:	Nil	
Employer:	Obafemi Awolowo University, Ile-Ife, Nigeria	
Sponsorship/ Commercial Support:	Travel grant given by The Association of Commonwealth Universities and The Learned Conference, Obafemi Awolowo University	
Faculty Name:	Adesola A. Ogunfowokan, MSc (Nursing), PhD, RN, RM, RPHN, FWACN	
Conflicts of Interest:	Nil	
Employer:	Obafemi Awolowo University, Ile-Ife, Nigeria	
Sponsorship/ Commercial Support:	Nil	

### Goals and Objectives



#### Session goal:

 to describe the communication process that exists between the school nurse and adolescent girls on pubertal changes in Nigeria.

#### **Session objectives**:

The Learner will be able

- to describe the contents of pubertal communication that occurs between the school nurses and adolescent girls in Nigeria.
- to identify the challenges encountered by school nurses in the course of communicating w with the adolescents

### Introduction

- After the home, the school represents the second most influential environment in a child's life.
- Limited information available on puberty and sex is buried in biology and integrated science/basic sciences courses
- Link has been found between adequate information during puberty and reduction in teenage pregnancy in other countries(Jimmy et al.,2011;UNAIDS, 2012)

#### Introduction



- In Nigeria sex education in schools is yet to be introduced due to the country's socio-cultural background, religious belief and political systems. (Jimmy, Abeshi, Osonwa, Kalu, Uwanede & Offiong, 2013).
- In Nigeria sex education is still seen as a taboo to be talked about as a result of several misconceptions
- Hence, the need to explore pubertal communication between the school nurse and adolescent girls

### Statement of Problem

- Poor involvement of families in sexual education resulted in early sexual initiation, unprotected sex and increased teenage pregnancy (Ugochukwu et al., 2011).
- Several physical and psychological problems have been linked with this period if not well handled (Mitra et al.,2013).
- Teachers do shy away from certain aspect of adolescent reproductive health. (Aktar et al., 2014)
- Little empirical studies exist on the involvement of school nurses in providing pubertal information in Nigeria

### Objectives of the study



 to examine the contents and methods of pubertal communication provided by school nurses to adolescent girl

 Assess the knowledge possessed by adolescent girls on pubertal changes

 Identify the challenges faced by school nurses when communicating with adolescent girls on puberty

### Hypotheses tested

 There is no significant relationship between adolescent girls' knowledge and frequency of communication of pubertal changes by the school nurses

 There is no significant association between selected socio demographics (age, parental educational level) and adolescent girls' knowledge of pubertal changes

### **Conceptual Framework**

- Berlo's model (1963)



#### **School nurse(Sender)**

Characteristics of the school Nurse

Years of experience, Age, Knowledge, belief, school culture, school management)

#### **Content (Message)**

Physical, emotional, cognitive changes menstrual hygiene, Self breast examination, Contraception, Teenage pregnancy prevention, STIs

#### **Channel (Method and Medium)**

Individual & Group, Classroom teaching Demonstration

Verbal means, Posters, Pamphlet, Audio visual display, Pictures

#### School adolescent girls (Receiver)

Age, Previous knowledge of pubertal changes,

Societal belief &system

Family characteristics (parental educational level, age, class)

### Methodology



- Research Design Descriptive mixed-method design
- Research setting Private secondary schools in Ile-Ife,
   Osun State, Nigeria.
- Sample Size determination: Cochrane's sample size formula (Ofole & Agokei,2013)(n=Z²pq/d²)
- **Sample Size**= 420 adolescent girls [384 + 36 (9% attrition)], 10 school nurses
- Sampling Technique (multistage):
  - -3 Local government Areas were randomly selected
  - -5 private secondary schools were purposively selected
  - random selection of arms of classes
- -Systematic random selection of girls with interval of 3.

### Methodology (ctd.)



- -Purposively selection of school nurses
- Research Instruments: Questionnaire & Interview guide.
- Validity by Face and Content methods
- Internal consistency- Cronbach's Alpha (0.9)
- Ethical Clearance: IRB from Institute of Public Health, OAU, Ile-Ife Nigeria
- Informed consent from parents and assent from respondents
- Analysis SPSS Version 20, descriptive & Inferential (Chi-square & Spearman's rho correlation),
- ATLAS ti 7 software with content analysis
- Level of significance = P ≤0.05

#### Results

## THE REPORT OF THE PARTY OF THE

#### Table I: Socio demographics

Variable	Adolescent Girls	School Nurses
Age range (years)	10 -18	22- 43
Mean age	14±1.66	31.4±6.04
Highest age range	10-14 (67.9%)	20-39 (90%)
Age at onset of puberty (years)	Below 9 – 88.3% 9-12 - 9.28% 13-15 – 2.38%	-
Months of experience	_	4 -180

Some topics were avoided (Jimmy et al., 2013; Farih et al., 2014)

Knowledge vs frequency of communication (r=-0.099; p=0.043)

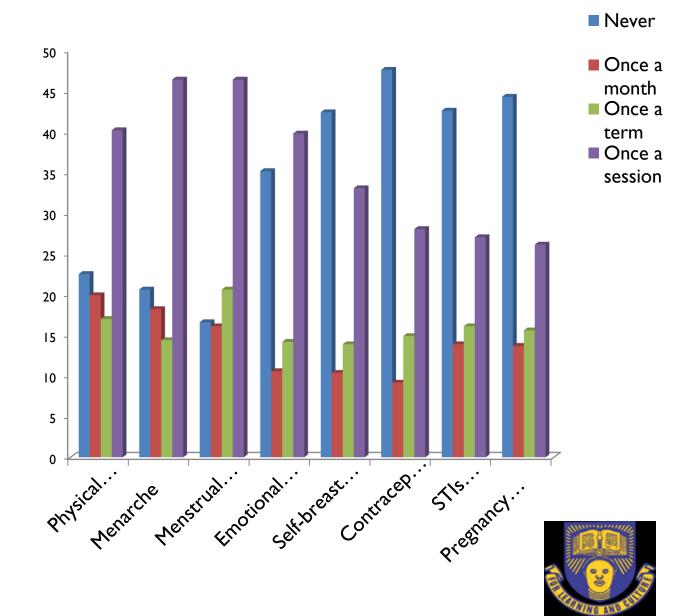


Fig 1: Contents and Frequency of Communication

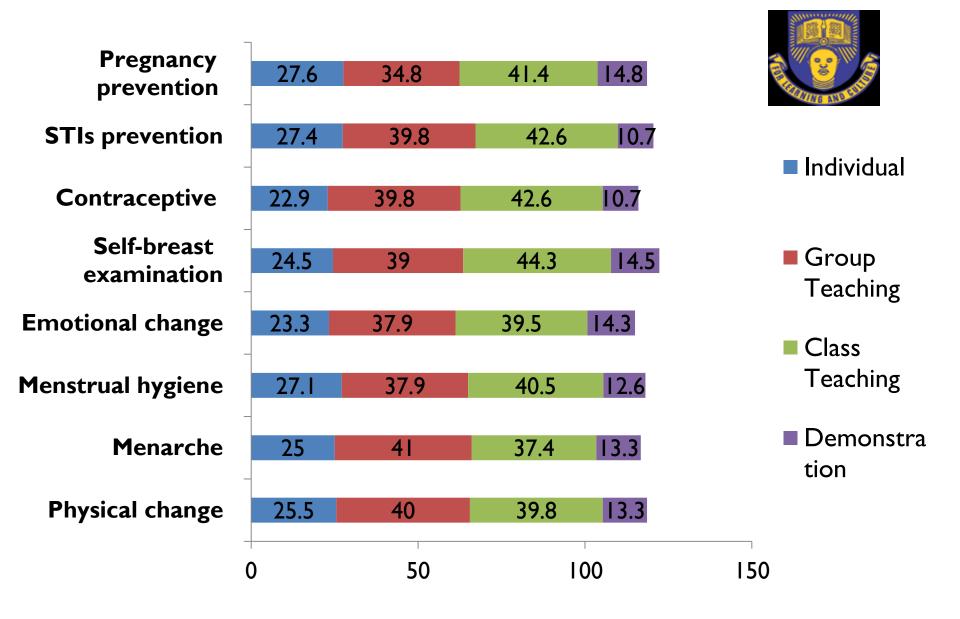


Fig 2: Methods of Communication

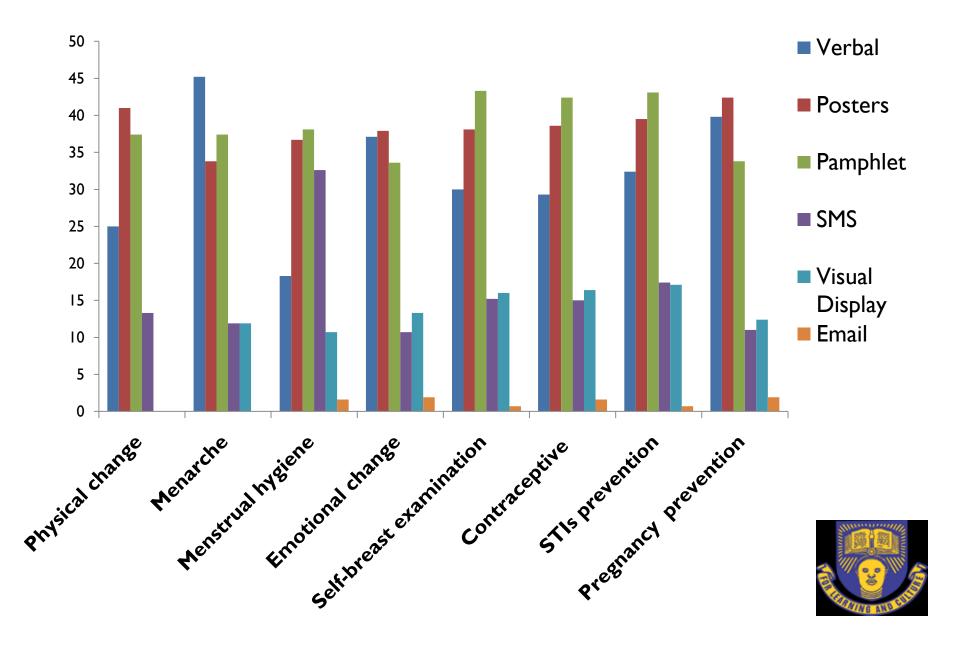


Fig 3: Medium of Communication

#### Fig 4: Knowledge of pubertal changes

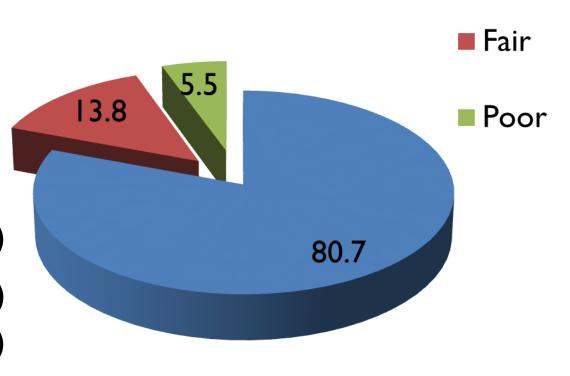
Knowledge vs maternal, paternal educational & grade levels

$$(X^2=20.61; p=0.008)$$

$$(X^2=27.55; p=0.001)$$

$$(\chi^2 = 31.85; p = 0.000)$$

(Sahar et al., 2015)





Good

### **Qualitative results**



 The findings from the interviews showed that the communication took place majorly verbally

"We teach them orally and sometimes we demonstrate to them" (Middle aged school nurse)

 The school nurses also reported that pubertal communication do not occur frequently.

"The school does not make it part of the school work but since I have interest in it, I do it but not really regular or often" (Middle aged school nurse)

### **Qualitative results (ctd)**

- Challenges encountered by school nurses include topic censorship by school management, time constraint and non availability of teaching/visual aids (Jimmy et al.,2013; Aktar et al.,2014, Farih et al.,2014)
- "I don't have any virtual materials to explain about these changes or teach them well and in depth" (young adult school nurse)
- Majority of the adolescents girls and nurses suggested that pubertal education be included in the school timetable.

### Conclusion



- Pubertal communication do not cover certain aspects of pubertal and reproductive health; some topics were intentionally avoided;
- School adolescent girls have good knowledge of pubertal changes
- Positive relationship exist between their knowledge level and school nurse communication on pubertal changes;
- Several challenges were encountered by the school nurses in the course of the communication.

#### Recommendations



 Availability of educational aids made accessible to school nurses at the school clinic for pubertal education

- Inclusion of pubertal education into the extra curriculum activities in schools coordinated by the school nurse
- Revision of the country school curriculum with inclusion of pubertal and sexual contents taught by school nurses.

### Implication for school nursing



- Effective communication is an integral aspect of the school nurse responsibility towards the adolescent girls.
- Provision of frequently planned and explicit pubertalage appropriate educational programs by school nurses.
- Use of well understood methods and media in providing the information
- Serving as support system for the adolescent girls during the period.

#### References



- Adedayo, S., Fatusi, A., Elusiyan, J. and Sabageh, D. (2014). Quantitative Assessment of Pubertal Development among Rural and Urban Adolescents in Osun State, Nigeria: A Comparison of Two Standard Instruments. *JMSCR*, Volume 2 (6) Page 1333-1343
- Aktar, B., Sarker, M. and Jenkins, A. (2014). Exploring Adolescent Reproductive Health, Knowledge, Perceptions, and Behavior Among Students of Non-Government Secondary Schools Supported by BRAC Mentoring Program in Rural Bangladesh. *Journal of Asian Midwives*, 1(1):17–33
- Berlo, D. K. (1963). The communication process; An Introduction to Theory and Practice. Retrievedfrom <a href="http://www.cultsock.ndirect.co.uk/MUHome/cshtml/introductory/smcr.htm">http://www.cultsock.ndirect.co.uk/MUHome/cshtml/introductory/smcr.htm</a>
- Farih, M., Khan, K., Freeth, D. and Meads, C. (2014). Protocol study: sexual and reproductive health knowledge, information seeking behaviour and attitudes among Saudi women: a questionnaire survey of university students. Reproductive health journal, 11(1)34.
- Federal Ministry of Health National School Health Policy November (2006). Statistics from the National Study of the School Health System in Nigeria by FMOH and FME &WHO
- Jimmy, E., Abeshi, S. E., Osonwa-Kalu, O., Uwanede, C. C. and Offiong, D. A. (2013).
   Perception of Students' Teachers' and Parents' towards Sexuality Education in Calabar South Local Government Area of Cross River State, Nigeria . Journal of Sociological Research, Vol. 4, No.2

#### References



- Mitra, M., Nosrat, Z., Golam-Reza, S. and Hossein, S.. (2013). Evaluating puberty health program effect on knowledge increase among female intermediate and high school students in Birjand, Iran. *Journal of Education Health Promotion*, 2(57).doi 10.4103/2277-9531.120851
- Ofole, N. M. and Agokei, S. P. (2014) Risky Sexual Behaviours Among Female In-School Adolescents In Delta, Nigeria: Self-Esteem, Parental Involvement And Religiosity As Predictors. *European Scientific Journal*, Vol.10, No.31
- Sahar, M., L., Hoda, A., El-Azim, M. and Sahar, M. E. (2015). Knowledge, attitude and practices of adolescent females regarding reproductive health at makkah al Mukaramah. *Life Science Journal*, 12(3):146-158
- Ugochukwu, U., Onyeonoro, D. C., Oshi, E. C., Ndimele, N. C., Chuku, I. L.,
  Onyemuchara, S. C., Ezekwere, S. N., Oshi, O. F. and Emelumadu (2011). Sources of Sex
  Information and its Effects on Sexual Practices among In-school Female Adolescents in
  Osisioma Ngwa LGA, South East Nigeria. North American Society for Pediatric and
  Adolescent Gynecology, 3:23



# THANK YOU FOR YOUR ATTENTION