TOWARDS REDUCING CANCER DEATH: AN EXPLORATORY STUDY OF PHYSICIANS KNOWLEDGE ON CANCER BASIC FACTS.

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ABSTRACT

Objective: To explore the knowledge of basic facts on common female cancers amongst Physicians in active practice.

Materials and Methods: A descriptive study among 160 doctors working in a Nigerian Teaching Hospital.

Results: Majority of the physicians surveyed (86.2%) were in full time academic practice with 13.8% in combined academic and private practice. The experience (years in practice) of the Physicians varied from 1-22 years, with a majority (57.9%) in category A (1-5 years), while 40.3% were in category D (>15 years).

A large proportion of the Physicians had poor knowledge on basic cancer facts with regards to the prevalence (47.2%), mortality rate (54.1%), available screening tests (65.4%), and association between HPV and cancers of the anogenital region (56.6%). The type of practice did not significantly influence Physicians knowledge on basic cancer facts (P values > 0.05)

More Physicians in full academic practice had good knowledge about human papilloma virus compared to those in combined practice (23.3% vs. 5%; fulltime academics vs. combine practice). There was no significant

difference in the knowledge of the Physicians on the prevalence, available screening tests and mortality rate of the cancers based on their experience (P values > 0.05)

Conclusion: Physicians in active practice have poor knowledge of basic cancer facts irrespective of their number of years in practice. These portend serious setback for health education, policy formulation on prevention and reduction of Cancer related morbidity and mortality.

Keywords: Cancer, Human papilloma Virus (HPV), Knowledge, counselling

INTRODUCTION

Physicians in practice invariably are involved with counselling and or screening patients for cancer in the community. Their basic knowledge on the general facts and risk factors for cancer influences the participation of patients in gynaecological cancer service screening. uptake and compliance with treatment regimen ^{1, 2}. As a matter of fact, the knowledge of women on the risk factors and available screening modalities for gynaecological cancer are mainly obtained through contact with and information from their Physicians ²⁻⁵.

Cancer control and reduction of death from cancer in the community is influenced by participation rates in cancer screening programs. The knowledge of patients may influence their participation and compliance with these programs. Therefore, programs designed to reduce cancer related morbidity and mortality death will depend on the accuracy of the knowledge passed on by Physicians in practice to their patients. Published data abound on the relationship between the human papilloma virus (HPV) and neoplastic lesions of the anogenital tract 6-8. It is now firmly established that HPV is a causal factor in many anogenital cancers 9, 10.

study efforts have Most been concentrated on the role of patients' knowledge and availability of information to patients, on screening programmes and service uptake ^{11, 12}. Physicians should not only treat diseases but offer strategies to prevent them. This exploratory study was undertaken to evaluate the baseline knowledge of cancer facts amongst Physicians, especially those in active practice, on basic facts on common female cancers. The findings from this study will contribute towards the development of policies and strategies to reduce the morbidity and mortality from female cancers.

MATERIALS AND METHODS

In the months of April- June 2007, we surveyed 160 Doctors at the University of Benin Teaching Hospital, Benin City with a structured questionnaire. The questionnaire contained sections on personal data, years of practice (experience), specialty and type of practice (full time academic, private practice or combined).

The other sections contained questions to test the knowledge of the Physicians on basic facts on six common female cancers. The

respondents were presented 3 tables with two columns each; the first column had six common female cancers randomly listed, in the blank second column, the respondent were requested to arrange in order of decreasing magnitude the Prevalence, Mortality rates, and the order in which they would arrange for screening tests. In addition, there was a table to evaluate Respondents knowledge on association between Human Papiloma virus (HPV) and anogenital cancers; a separate table required the Physicians to list six available screening tests for cancers in contemporary practice.

Data management

159 guestionnaires were returned sufficiently filled for analysis. The answers given by the respondents in Items 7 -11 on the questionnaire were scored and graded as Good (if at least 5 of the 6 items were correctly completed), Average (if 3 or 4 correct answer) or Poor Knowledge (less than 4 correct answers). The years in practice (Experience) was stratified into four categories: A (1-5 years), B (6-10 years), C (11-15 years), and D (>15years). The data generated was analvzed using SPSS statistical software, version 15 (SPSS, Chicago, IL, USA). Analysis was done to compare mean values, Chi-square tests and the Fisher's exact test where appropriate at 95% confidence level with a P value of <0.05 as significant.

RESULTS

The mean age of the respondents was 30.95 years \pm 4.4, range 24 to 51 years. There were 44 female doctors compared to 115 male doctors. There was a significant difference in the mean age of both sexes (Female vs. Male: 28.6 vs. 31.9 years, P < 0.001). The experience (years in practice) of the Physicians varied from 1-22 years, mean 4.4 \pm 3.9 years. Majority of the

Physicians 92 (57.9%) were in category A (1-5 years) experience, 1 (0.6%) in category B (6-10 years), 2 (1.3%) in category C (11-15 years) while 64 (40.3%) were in category D (>15 years). Physicians in full time academics were 137(86.2%), while 22 (13.8%) were in combined academics and private practice. There were no full-time Private Practitioners in the study.

Basic facts

Majority of the physicians (47.2%) had poor knowledge about the prevalence, mortality rates and available screening tests for the common female cancers (47.2%, 54.1% and 65.4% respectively) as shown in **Table I**.

Table I: PHYSICIANS' KNOWLEDGE ABOUT THE PREVALENCE, MORTALITYRATE, AND AVAILABLE SCREENING TESTS FOR THE COMMON FEMALECANCERS

Physicians' knowledge on	Prevalence rate Number (%)	Mortality rate Number (%)	Screening tests Number (%)
Poor	75 (47.2)	86 (54.1)	104 (65.4)
Average	49 (30.8)	54 (34.0)	35 (22.0)
Good	35 (22.0)	19 (11.9)	20 (12.6)
Total	159 (100.0)	159 (100.0)	159 (100.0)

Type of practice and Knowledge on Basic cancer facts

Good knowledge about the available screening tests was significantly more physicians among in full time academic practice than those in combined practice in Table II (23.3% vs. 5%, P=0.025). The Physicians knowledge prevalence. on the mortality rate of the different cancers and the relationship between HPV and anogenital cancers was not significantly influenced by their type of practice (P values >0.05).

Experience and Knowledge on Basic cancer facts

There was no significant difference in the knowledge of the prevalence, mortality rates and available screening tests when compared to the years of experience of the physicians. However, further analysis showed that Physicians in category A experience significantly had more good knowledge about association between HPV and cancers of the anogenital region compared to category D experience (20.8% vs. 5.7%, P=0.005.

BASIC CANCER FACTS			
Variable	Type of Practi	Type of Practice	
	Academic	Combined	
	N=137 (%)	N=22(%)	
Knowledge of Prevalence			
Good	29	6	
Average	46	3	0.171
Poor	62	13	
Knowledge of Morality rate			
Good	16	3	
Average	48	6	0.773
Poor	73	13	
Knowledge of available screening tests			
Good	19	1	
Average	34	1	0.025
Poor	84	20	
Association between HPV an anogenital cancer	ld		
Good	37 (23.3)	8 (28.3)	0.545
Average	22 (13.8)	2 (1.3)	
Poor	78 (49.1)	12 (7.5)	

Table II: PHYSICIANS TYPE OF PRACTICE AND THEIR KNOWLEDGE ON BASIC CANCER FACTS

DISCUSSION

This study shows that the knowledge of Physicians in active practice on basic facts about common female cancers was poor. This trend may partly explain the low levels of awareness and poor service uptake by prevention patients of cancer programs observed other by reports.4,11,12 This particularly is Physicians are important because important avenue for health information dissemination among patients especially in developing countries and if their knowledge base is not adequate, it raises important

public health concerns. Ameliorating this lack of accurate information may influence the perception of cancer and result in higher participation rates in cancer screening programmes especially in an environment where largely preventable cancer death, like cervical cancer, is still high.4,12 The need for continuous medical education and re-training is therefore necessary. Infection with the human papilloma virus (HPV) is the most common sexually transmitted disease and is now firmly established as a necessary factor causal in cervical carcinogenesis and other anogenital

cancers in both male and female ⁸⁻¹⁰. The importance attached to the oncogenic effects of HPV has led to the development of vaccines against HPV.¹³⁻¹⁵ This presents an important opportunity for reducing the HPV related genital cancer especially in our environment with a largely nonexistent organised screening program for genital tract cancers.^{4,12} However, the success or failure of such a program in reducing HPV related genital tract cancer burden may depend largely on the availability and management of accurate information by health professionals including Physicians. This study revealed that less than a third of our Clinicians are aware of the oncogenic property of the HPV Knowledge virus. was significantly better for the young physician within five vears of graduation compared to the group who were at least fifteen years post graduation. This trend may reflect the information acquired by the younger Physicians during their basic medical training in an era where HPV and tumorigenesis was topical compared to the older Physicians.

The type of practice, full time academic or combined practice, did not however significantly influence the knowledge of the Physicians. This may be due to the small number of Physicians in these groups. Also, although the study population was of a limited size and they were from a single institution, the findings from this work is very relevant as a preliminary survey considering the overall poor knowledge base of the Physicians surveyed. Larger community based studies are necessary to provide more insight into the knowledge base of Physicians in active practice and factors that determinant it.

CONCLUSION

Conclusively, the poor knowledge base of the physicians raises important public health questions especially if programs designed to reduce morbidity and mortality from genital tract cancers are to succeed. There is a need therefore to urgently start the much proposed periodic continuous medical education program for practicing physicians in Nigeria before renewal of Professional Practice Licence.

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