

FACTORS INFLUENCING THE SELECTION OF DENTAL NURSING AS A PROFESSION

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ABSTRACT

Objective: To provide a current description of dental nursing students and to assess the reasons for choosing the dental nursing career.

Methods: Between 2008 and 2009, a questionnaire survey was administered to 85 dental nursing students from 3 Colleges of Health Technology undergoing external clinical posting in University of Benin Dental Clinic. The questionnaire requested information on age, gender, place of residence, type of school attended, previous employment, reason for choosing dental nursing as a career, career plans, parents' highest level of education and parents' occupations.

Results: The mean age of the respondents was 23 ± 4.4 years and the male: female ratio of was 1:7.5. Three-quarter (75.3%) of the respondents attended government secondary school and 87.1% were products of mixed school. Teaching was the commonest job among 27.1% of the respondent that had previous employment. Three-quarter (75.6%) of the respondents attested that their education was being sponsored by their parents.

Caring for the health of others was the main reason for pursuing dental nursing career. The decision to study dental nursing was taken by 44.7% of the respondents after their secondary

education and 50.6% were influenced in their choice of the career with parent being a strong force. More than half (56.5%) plan to work in Teaching hospital on completion of their training. The educational backgrounds of parents varied widely with mothers being reported to have less formal education than fathers. Three-quarter (75.3%) and one-third (35.3%) respondents' mother and father were traders respectively.

Conclusion: The study findings provide relevant information on the students' characteristics, factors influencing the selection of dental nursing career and will serve as a template, on which changes in the social composition of dental nursing students can be compared with over time.

Key words: Factors, selection, dental nursing, profession

INTRODUCTION

Oral disease prevalence and the demand for dental care have continued to increase in Nigeria. Establishment of new Dental schools in Southern and Northern parts of Nigeria and the incorporation of oral health into primary health care are obvious indicators of increased demand on the dental workforce, with dental nurses inclusive. The terminology 'dental nurse', 'dental surgery assistant' and 'dental

technicians' are used interchangeably in Nigeria. This group of health workers is referred to as dental nurses in this research because it is the most accepted nomenclature.

Dental nurses are valuable members of the oral health care team who greatly increase the efficiency of the dentist in the delivery of quality oral health care. A career as a dental nurse offers many challenges. In addition to assisting the dentist during a variety of procedures, other specific tasks that dental nurses may perform include: taking and developing dental radiographs; sterilizing instruments and equipment; and taking impressions of patients' teeth.

Dental nurses in Nigeria undergo a 3-year tertiary education from approved college of health technology. Dental nursing is ideal for responsible individual with good communication skills and sound use of their hands.

Students all over the world are usually faced with the task of career decision making. Choosing a career is one of the most important life decisions because of its obvious impact on a future life pattern of the individual. Career choice is a complicated process, thus it is expected that young people should seek all the information and advice available by sharing their thoughts and objectives with parents, educators, vocational experts and friends.

Many health care professionals made their career decision in high school or early in college. The choice of careers is influenced by many factors, including the context in which they live, their personal aptitudes (dreams, goals and personal preferences), and educational attainment¹. It is also influenced by personal interests. Personal characteristics and motives of the students are known to play a major role in shaping their career preferences. Parents and/or relations are known to have great influence on

the career choice of their children and wards. According to Danziger (1983), the career expectation of girls is influenced mainly by class background and parental expectations². Corder and Stephan (1984) stated that girls make decisions about how they will combine family and work before choosing a career³.

In Nigeria, many youths make the wrong career choices due to ignorance, inexperience, peer pressure, wrong advice from friends, parents and teachers, or as a result of the prestige attached to certain jobs, without adequate vocational guidance and career counselling⁴. Consequently, many of them are unsuited for their careers, as they usually find themselves in jobs that do not satisfy their value needs. When this occurs, they constitute a nuisance to themselves and their employers.

Better knowledge of these characteristics will also provide a basis for a better management of the future dental workforce in Nigeria.

Studies on reasons influencing career choice of dental students, dental hygiene students have been conducted both in Nigeria⁵ and internationally⁶⁻¹⁴ but literature search could not retrieve any such survey on dental nursing students.

The objective of this study is to determine the characteristics of dental nursing students and to assess the reasons for their choice of the dental nursing career.

MATERIALS AND METHODS

Questionnaire-based survey of the entire dental nursing students from the Colleges of Health Technology undergoing external clinical posting in University of Benin Dental Clinic was conducted between 2008 and 2009. The questionnaire elicited information on age, gender, place of residence, type of school attended, previous employment, reason for choosing

dental nursing as a career, career plans, parents' highest level of education and parents' occupations. Approval for this survey was obtained from University of Benin Teaching

Hospital Ethics Committee. Prior to the commencement of the study, informed consent was obtained from all intending participants after clear information on the objective of the survey have been given. Participation was optional. Statistical Package for Social Science (SPSS version 15.0) was used for data analysis and results were presented as tables.

RESULTS

Table I: DEMOGRAPHIC VARIABLE OF THE RESPONDENTS

Characteristics	Variable	Frequency	Percent
Age (Years)	<25	56	65.9
	25-30	26	30.6
	>30	3	3.5
Gender	Male	10	11.5
	Female	75	88.2
Marital status	Single	74	87.1
	Married	11	12.9
Ethnic group	Yoruba	75	88.2
	Non Yoruba	10	11.8
Religion	Christianity	73	85.9
	Islam	12	14.1
School of Health Technology	Akure	39	45.9
	Ilesha	24	28.2
	Offa	22	25.9

The age range of the students was 16-42 years, mean age was 23 ± 4.4 years and 65.9% were under 25 years. There was a male: female ratio of 1:7.5. Single: married ratio was 6.8:1 with only 12.9% of students being

married. Majority of the students were Yoruba (87.1%) and Christians (85.9%). College of health technology, Akure had the highest number of students (45.9%) (**Table I**).

Table II: TRACKING PRE-NURSING HISTORY OF RESPONDENTS

Characteristics	Variable	Frequency	Percent
Location	Same town	19	22.4
	Same LGA	6	7.1
	Same state	33	38.8
	Outside state	27	31.8
Type of secondary school	Government	64	75.3
	Missionary	3	3.5
	Private	18	21.2
Nature of secondary school	All boys	1	1.2
	All girls	10	11.8
	Mixed (girls& boys)	74	87.1
Boarding house in secondary school	Yes	17	20.0
	No	68	80.0
Career Decision Time	Primary school	9	10.6
	Junior secondary	6	7.1
	Senior secondary	18	21.2
	After secondary edu	38	44.7
	While Working	14	16.5
Worked before nursing education	Yes	23	27.1
	No	62	72.9

About one-third of the students (31.8%) were non-indigenes of the towns where their school is located while only 22.4% are indigenes. A greater percentage 68.3% are non-indigenes but they are from the same state where the school of health Technology is located (**Table II**).

Three-quarters (75.3%) of the students attended government secondary school, 3.5% and 21.2% attended missionary school and private school respectively. The products of mixed

schools (Girls and boys) were 87.1% while 13% were attended single sex school. Only 20% attended boarding schools. Those that had worked prior to dental nursing education constituted 27.1% of the students, of which 11.8% engaged in teaching, 8.4% in health related occupations. Decision about dental nursing career was made by 44.7% and 16.8% of students after secondary school education and while working respectively (**Table II**).

Table III: FAMILY BACKGROUND OF STUDENTS

Characteristics	Variable	Frequency	Percent
Educational status Father	Informal	6	7.1
	Primary	10	11.8
	Secondary	25	29.4
	Tertiary	44	51.8
Educational status Mother	informal	8	9.4
	Primary	23	27.1
	Secondary	29	34.1
	Tertiary	25	29.4
Occupational status Father	Civil servant	27	34.1
	Trader	30	35.3
	Self employed	10	15.4
	Professional	5	5.9
	Retired	4	4.7
	Not stated	4	4.7
Occupational status Mother	Trader	64	75.3
	Civil servant	12	13.0
	Self employed	6	7.1
	Professional	2	2.4
	Not stated	2	2.4
Sponsor	Father	42	49.4
	Mother	23	27.1
	Brother	3	3.5
	Uncle	2	2.4
	Aunt	2	2.4
	Husband	2	2.4
	Scholarship	1	1.2
	Self	10	11.8

Majority of the students has educated fathers. The percentage of the fathers of students that had university education was 51.8% and only 7.1% were uneducated. One third (34.1%) of mothers of students had secondary education. 29.4% and 27.1% attended university and primary education

respectively. Only a smaller percent 9.4% were uneducated. The majority of students' education was sponsored from private pockets with parent being responsible in 76.5% of cases. Only 1.2% went to school through scholarship (Table III).

Table IV: CAREER PLAN

Characteristics	Variable	Frequency	Percent
Type of establishment you intend to work	Teaching Hospital	48	56.5
	Federal Medical Centre	23	27.1
	General Hospital	5	5.9
	Private Hospital	1	1.2
	Military Hospital	1	1.2
	Abroad	4	4.7
	No Response	3	3.5

More than half (83.6%) of the students intend to work in federal owned hospitals with Teaching hospitals

(56.5%) and Federal Medical Centre (27.1%). Only 4.7% intended to seek job opportunities overseas (Table IV).

Table V: REASONS AND INFLUENTIAL FACTORS

Characteristics	Variable	Frequency	Percent
Reason	Care	76	89.4
	Respect	1	1.2
	Job opportunity	3	3.5
	Money and good life	1	1.2
	Forced	2	2.4
	No response	2	2.4
	Who Influenced	Father	9
Mother		12	14.1
Uncle		6	7.1
Aunt		5	5.9
Teacher		2	2.4
Dental nurse		3	3.5
Dentist		6	7.1
Not applicable		42	49.4

Majority of the students were motivated to make the career choice by love to care for others. Parents had great influence in the students' career choice; mothers influenced the choice in 14.1% of cases followed by fathers (10.6%).

Dentists only influenced in 7.1% of cases. A large percent (49.4%) was not influenced by others. The choice of dental nursing was based on personal interest (**Table V**).

Table VI: PERCEPTION OF DENTAL NURSING EDUCATION

Characteristics	Variable	Frequency	Percent
Dental nursing Education is stressful	Strongly agree	23	27.1
	Agree	30	35.3
	Neutral	16	18.8
	Disagree	11	12.9
	Strongly disagree	5	5.9
Any regrets	Yes	4	4.7
	No	81	95.3
Recommend For relatives/friends	Very likely	44	51.8
	Likely	27	31.8
	Undecided	9	10.6
	Unlikely	2	2.4
	Very unlikely	3	3.5

The percent that rated dental nursing education a stressful were 62.4%, only 4.7% expressed regrets studying

dental nursing and 83.6% would likely recommend dental nursing for relatives and friends (**Table VI**).

DISCUSSION

The gender difference, with higher female preponderance seen in this study is in consonant with the findings among other dental auxiliary students^{11,13}. The home of 68.3% was in the same state as the Colleges of Health Technology while 22.4% were indigenes of towns where Colleges of Health Technology are located. Closeness of home to school can be a factor that influences the students'

choice of school and indirectly career choice.

Three-quarter (75.3%) of the respondents attended government secondary school. This was similar to 74.1% reported in a study of Nigerian dental students⁵ and 77% reported in a study of Auckland medical students⁸. Research shows that young women in all-girls schools have higher self-esteem, and are less likely to take up stereotyped jobs and careers. They

are generally intellectually curious, serious about their studies and overall achieve more¹⁵. In this present study 87.5% of the students were products of mixed school and only 13% attended single sex school which contrasted with the finding in Auckland medical school in which 55% attended to single sex schools⁸.

The students who had worked prior to the dental nursing education constituted 27.1%. Of this, 11.8% engaged in teaching and 8.4% in health related occupations. This is expected as many young people take up teaching especially in private school as a stop gap opportunity. Taking up health related occupation prior to admission into school could have influenced the student's career choice. Previous employment experience in health sector has been documented to influence students in their career choice¹³. The decision to study dental nursing was taken later in life by most of the students. The decision to study dental nursing was taken by 44.7% of the respondents after their secondary education and 16.5% while working. There is a possibility that most of them may not have had career guidance in secondary school.

Nursing continues to be perceived as a caring profession as well as one that offers many personal benefits¹⁶. Caring for the health of others was the main reason for pursuing dental nursing career in this study and this is in agreement with the finding from earlier studies on nurses^{16,17}.

One of the most crucial roles of parents is helping their wards to prepare for the future. Career choice in the health profession in Nigeria is greatly influenced by family. This was documented in a Nigerian dental students based study, where 50% were influenced by family⁵. In this present study, 50.6% were influenced

by significant others in the choice of a career with parent (24.7%) being a strong force. Dentists, dental hygienists were influential in dental hygiene students' choice of career in a previous study. Half of the students were influenced by dental health professional in the previous study¹⁸ but only 10.6% were influenced by dentist and dental nurses in this study.

More than half (56.5%) plan to work in a Teaching hospital on completion of their training. This may not be unconnected with the better remuneration of federal government workers when compared with state and local government workers. This may constitute a substantial hindrance the success of oral health integration into primary health care in Nigeria as many of the students may prefer to take up jobs in urban centres after graduation.

The educational backgrounds of parents varied widely with mothers being reported to have less formal education than fathers. This reflects the paternalistic nature of Nigeria where male child education was previously given more preference. This belief is changing and girl-child education is now improving but it will take some time before the effect is seen on parents' level of education.

Three-quarter (75.3%) and one-third (35.3%) respondents' mother and father were traders respectively. This varied from the findings of parental occupation of Nigerian dental students as majority of the parents were professionals⁵.

In this study, the findings showed 62.4% agree that dental nursing education is stressful, only 4.7% expressed regret studying it and 83.6% would recommend the course to friend and relatives. This is an indication that Nigerian dental nurse may influence the choice of dental nursing as a career selection in future.

CONCLUSION

The study findings provide relevant information on the students' characteristics, factors influencing the selection of dental nursing career and will serve as a template, on which changes in the social composition of dental nursing students can be compared with over time.

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