

Full Length Research Paper

Nursing instruction and workforce advancement: Implications for maternal wellbeing: A Case study in Anambra State, Nigeria

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Accepted 22 September, 2014

The relationship in the middle of nursing and maternal wellbeing displays a honest to goodness arrangement talk. In this subjective spellbinding study, the perspectives of attendant masters on the current status of nursing and birthing assistance training, and workforce advancement issues as they identify with maternal wellbeing in Nigeria was investigated. Center was on masters as they constitute imperative players in approach choices identified with nursing workforce and maternal wellbeing administrations conveyance. Subjective substance investigation was utilized to dissect meeting information. The discoveries of this study demonstrated that nursing and maternity care schools use a thorough educational module commanded by the Nursing and Midwifery Council of Nigeria (NMCN). It was additionally observed that nursing workforce improvement is tormented by pedagogical issues, sex issues, and multi-faceted wellbeing frameworks challenges. These discoveries propose that Nigerian nursing workforce is profoundly shaky and more extensive approaches on workforce preparing, recruitment and maintenance are expected to enhance maternal wellbeing conclusions.

Key words: Nursing education, midwifery education, nursing workforce development, health policies.

INTRODUCTION

Attendants in Nigeria assume noteworthy parts in maternal wellbeing administrations procurement. The abnormal amounts of maternal mortality proportion (MMR) in Nigeria, assessed at 630 every 100,000 live births (World Health Organization (WHO), 2011), is a pointer of genuine maternal wellbeing needs. Recruitment and maintenance of proper number of wellbeing staff, especially prepared attendants and birthing specialists (the center of wellbeing administrations conveyance in Nigeria) are critical for mama ternal demise lessening. Despite the fact that Nigeria has a generally high number of nursing work force (a pool of 210,306 medical attendants contrasted with other African nations) (WHO, 2006), there is still a critical lack of attendants that are

obliged to meet the wellbeing needs of a nation of in excess of 154.7 million individuals (WHO, 2012) that slacks in positive maternal health outcomes. With a population of 4.2 million people (Anambra State Government, 2011a), Anambra state is one of the densely populated States in Nigeria with an estimated 1,500 to 2,000 persons living within every square kilometer. Women make up 53% of this population (National Bureau of Statistics, 2010).

Evidence shows that as the density of health workers increase, maternal mortality falls; and a 10 percent increase in the density of the health workforce correlates with about a 5 percent decline in maternal mortality (The Joint Learning Initiative (JLI), 2004). Studies also show that countries with more nurses per proportion of the population have less maternal deaths than those with

fewer nurses (Shiffman, 2007; Buor and Bream, 2004; Bulatao and Ross, 2003). For example, United Kingdom and United States have nurse-density-to-population ratios of 12.12 and 9.37 per 1,000, respectively, while Nigeria has only 1.7 per 1,000 (WHO, 2006). United Kingdom and United States also have corresponding MMR of 12 and 21 per 100,000 live births, respectively, while Nigeria has a MMR of 630 per 100,000 live births in 2010 (WHO, 2011).

Chankova et al. (2006) estimated that there were 122,000 nurses and midwives in the public sector in 2005 and for Nigeria to meet the health-related MDGs, it would need 157,315 public sector nurses and midwives by 2015 (a deficit of about 39,880 taking the annual population growth into consideration). In addition, they projected that the public sector full time equivalent (FTE) requirement for doctors for reaching the Millennium Development Goals (MDGs) for maternal health in 2015 is 1,049; while the nurse/midwife FTE requirement is 7,145 (over six times greater than the doctors' FTE). Nurses are the backbone of maternal health services delivery. Emphasis on nursing and midwifery education, recruitment, and retention is therefore important in pursuing efforts to improve maternal health.

Nigeria is among 57 countries (36 in Africa) that lack the critical mass of health workers necessary to meet the health-related MDGs (WHO, 2006). Nurses are important part of the health workforce as they constitute 45 to 60% of the entire workforce in sub-Saharan Africa (Dovlo, 2007). Furthermore, staff nurses and midwives direct and provide most obstetric care more than any other providers, and they are highly preferred in Nigeria (Ezeonwu, 2011). However, nursing education and work-force development had been beset by multiple challenges including health systems issues, and various structural push and pull factors that drive migration (Hagopian et al., 2005; Gerein et al., 2006). These factors are broad and include the health system's inability to create jobs and absorb nurse graduates, debilitated infrastructures, poor remunerations, poor working conditions, and occupational risk exposures that push the employed out and away from the system. These result in shortage of nurses who are actively engaged in providing health services in the country.

Nursing and midwifery education in Nigeria have continued to evolve. The Nursing and Midwifery Council of Nigeria (NMCN), a parastatal of the Federal Government of Nigeria and the only professional regulatory body for all cadres of nurses and midwives in Nigeria (NMCN, 2007), strives to upgrade and standardize the nursing and midwifery program curriculum. There are significant numbers of hospital and mission-based nursing programs that offer basic nursing diplomas and certificates. General nursing program constitutes the entry level for all nursing and midwifery programs

(NMCN, 2005). Multiple post basic certificate programs are also available. The path to higher degree is still complicated for Nigerian nurses, and according to Ndatsu (2004), nurses have to go through routes that are not clearly defined to obtain higher qualifications.

Nursing education at the baccalaureate level and beyond is still not popular and only offered by few universities in the country. For example, of the 124 federal, state and private universities approved by the National Universities Commission (NUC) in Nigeria (NUC, 2012), only four universities have fully accredited departments of nursing; eleven universities have provisional accreditation status; and one of these eleven schools is located in Anambra State (NMCN, 2010). Despite the slow movement toward university-based program, and the many logistical challenges, the schools engage in strong and competitive curriculum and produce different cadres of competent practitioners in the country. The purpose of this study is to describe the system of nursing and midwifery education, the challenges to nursing workforce development and their impact on maternal health in Anambra State, Nigeria.

METHODOLOGY

Design

In this descriptive study, qualitative content analysis was utilized to analyze the views of nurse experts in Nigeria on the current status of nursing and midwifery education, and nursing workforce issues as they relate to maternal health. Specific interview data collected include admission and graduation requirements of the nursing and midwifery schools, theoretical and clinical training, workforce development challenges and their implications for maternal health services provision and utilization. Approval for use of human subjects was obtained from the Institutional Review Board (IRB), Human Subjects Division of the University of Washington.

Sample

A convenient sample of twelve participants was recruited for this study. This non-probability sampling of nurse experts at different institutions was heavily influenced by accessibility factors such as the weather, transportation and road conditions during the study period. Two of the participants were members of the top management staff of the NMCN. Five were nurse educators, with the job title of "principal" or "director" of their respective nursing or midwifery schools. Five were health administrators, and they direct nursing care services at their respective hospitals. The general inclusion criteria include: (1) All participants must be over 18 years of age, (2) they must speak and understand English, (3) the management staff of the NMCN must be active representatives of the governing body of the Council, (4) the nurse educators must direct their nursing and midwifery schools, and (5) the hospital administrators must direct the relevant health facility. All participants were high-level administrators who influence policy decisions in their respective institutions and impact nursing workforce development and women's health in the country. Each of the participants has extensive practice, teaching, leadership and management

Table 1. Participant demographic characteristics (n = 12).

Characteristic	Value
Gender	
Female (%)	100
Male (%)	0
Age	
Range	41->50
Highest education level	
Staff nursing and midwifery certificate	3
Diploma in midwifery education	2
Baccalaureate in nursing and midwifery education	2
Masters of science in nursing education	1
Masters in public health	1
Masters in nursing administration and management	1
Masters in public administration	1
Masters in educational planning and policy	1
Number of years of service	
Mean	32
Range	16-48
Number of years in current position	
Mean	12
Range	2-28

experiences. Basic demographic information on the participants is presented in Table 1.

Setting

Participants were interviewed in their offices at their respective institutions. This study was conducted primarily in Anambra State, Nigeria. However, participants affiliated with the Nursing and Midwifery Council of Nigeria were interviewed at their respective offices located in major cities outside Anambra State. The nurse educators were interviewed at their respective academic institutions. The nurse administrators were interviewed at their respective hospitals.

Data collection

Participants were identified by physically walking into the facilities and obtaining the names of the potential participants who met the inclusion criteria. Arrangements for interview appointments were not possible prior to each encounter, as attempts to contact potential participants through regular contact protocols including telephone, fax, and e-mail, were unsuccessful due to communication and accessibility difficulties. Face-to-face, on-the-spot recruitment at different institutions was done. There was no official schedule for the meetings.

Each participant was approached and given detailed information about the study and the procedures. All their questions were

answered. Written informed consent was obtained from each participant and interview arrangements were made. Basic demographic questionnaires were filled out by all the participants. Interview questions focused on admission, training and graduations processes, challenges to nursing and midwifery workforce development, and their implications on maternal health. The interviews were semi-structured, lasted forty-five to eighty minutes, and were audio-recorded. Interviews included open-ended questions. Examples of questions included: (1) What are the nursing and midwifery admission and graduation processes and requirements in Nigeria? (2) What in your view are the current issues and challenges related to nursing workforce development in the country?

(3) How does the availability of adequately trained midwives affect maternal health services provision in Nigeria? Two participants declined audio recording of their interviews; however, detailed notes were taken. All data collected were coded appropriately. Three senior researchers from the author's institution reviewed and concurred with the coding process.

Analysis

Analysis of data from face-to-face interviews and field notes was done to provide a clear qualitative description of the participants' perspectives on the status of nursing education and workforce issues within the State of Anambra. The interviews were transcribed verbatim by the researcher. Transcripts of data were confirmed and manually analyzed using qualitative content analysis procedures and processes outlined by Graneheim and Lundman (2004) and

Elo and Kyngas (2007). The text was read through by the researcher from beginning to end several times. Texts of recorded interviews of participants regarding their views on nursing education and workforce issues constitute the units of analysis for this study. Themes and sub-themes that account for all the data in the interview transcript related to nursing education, workforce challenges and maternal health emerged from this reduction process and constitute the findings of this study.

RESULTS

Admission

Admission requirements to the schools of nursing and midwifery were described by the participants as strict, and comparable to schools of medicine and pharmacy. General nursing and midwifery programs are common. All program admission requirements were mandated by the Council. Each school of nursing and midwifery represented by the educators in this study admitted a maximum of 50 students per calendar year, as allowed by the Council. The post-basic midwifery program admits a maximum of 30 students per calendar year. Data on graduate programs (masters and doctorate) were not obtained. They pointed out that all nursing and midwifery institutions in Nigeria undergo reviews and re-accreditations by the Nursing and Midwifery Council. When significant problems are identified through the reviews, student intake is suspended until program deficiencies are rectified. Two of the participants confirmed that intakes of students at their respective schools were at some point suspended while they instituted remedial activities in order to graduate their backlog of students. Information on the regularity or frequency of such reviews was not obtained for this study.

Training

The educators emphasized that formal lectures and clinical instructions in the field constitute the core curriculum. They explained that the NMCN develops the framework, and sets the program standard for schools. The framework determines the sequence of specific courses required in the nursing and midwifery curriculum. The Council's comprehensive curriculum integrates classroom lectures, practical demonstrations in the laboratories, and clinical experiences at health facilities including primary care settings and hospitals. Basic and general nursing training programs produce versatile and well-rounded nurses who do bits of everything such as general nursing, psychiatry, education, administration, public health, and midwifery. Midwifery programs further prepare students to perform physical examinations and health needs assessments; palpation, early detection of abnormal risk factors and timely referral, labor, delivery, and child welfare including nutrition, growth monitoring, and

immunization. The theoretical and clinical components of the curriculum, according to the participants help prepare the students to be competent nurses and midwives.

Theoretical preparation

Findings on the theoretical preparations showed that students were equipped with the fundamental knowledge of nursing and midwifery. The curriculum includes extensive and rigorous coursework that exposed students to the use of the nursing process in the care of individuals, families, and communities. Basic and general nursing training programs emphasize human anatomy, physiology, and fundamentals of nursing and midwifery practice, but also reproductive health, including family planning, infant and child health. The midwifery program also embraces a rigorous curriculum according to the participants. The program has extensive course work including applied anatomy and physiology, with emphasis on midwifery (an important course that supports the midwife's role in understanding physiologic changes during pregnancy, and locating the female anatomical landmarks during delivery). After examples of other courses include; fundamentals of midwifery practice, community-based midwifery practice, family planning, ethics in midwifery, and research methods and statistics. Seminars in midwifery practice provide students with opportunities to practice presentation techniques in giving health and antenatal talks to different audiences. Students are also prepared for physical examinations and health needs assessments. Theoretical foundation on family planning, abortion and post-abortion care, and pharmacology related to obstetric practice also command emphasis in the classrooms, according to the participants.

Clinical training

The participants emphasized the importance of integrative curriculum by explaining that theoretical learning supports and reinforces clinical training in skills related to patient monitoring, stages of labor, actual birthing processes, and postpartum care. Students are posted to both antenatal community clinics and antenatal wards in the hospitals. These settings provide students with opportunities to observe and actually assist in clinical activities. The educators reported that in the field, students work under the supervision of public health nurses, staff nurse midwives, and their clinical instructors. One participant noted that practical exposures hold the key to students' achievement of their competency goals in birth attendance, postpartum care, placement of contraceptive devices, and other important obstetric and gynecologic clinical activities. For example, before sitting

for the qualifying examination for licensure, students in the post basic midwifery program are required to have done a minimum of 20 deliveries, cared for 30 or more clients during puerperium, inserted minimum of 10 intra uterine contraceptive devices, fitted 2 diaphragms, prescribed 10 oral contraceptives, and performed at least 5 manual vacuum extractions. These are stipulated by the NMCN. Participants explained that theoretical knowledge gained in the classroom supports students' experiences in the real world.

Graduation

The findings showed that the number of students that graduate each year are variable and depends on students' academic performances, levels of clinical competencies, and skills acquisition. Evaluations of students under these criteria were conducted by the academic staff, field preceptors and clinical instructors. One participant described their graduation requirements this way:

"Students' assessments and evaluations are based on their continuous progress in the program, semester examinations given by the respective schools, and the Council's qualifying final examinations."

Registration and licensing follow successful completion of the program.

Challenges to nursing and midwifery workforce development

Pedagogical challenges

This study showed that unavailability of teaching resources greatly impacts the teachers' abilities to teach. Lack of basic educational items that facilitate teaching and learning hinder efforts on nursing workforce development. Such items include academic journals, books, projectors, computers, and laboratory and demonstration equipment such as midwifery kits. Others include office supplies such as papers, ink, printers, copiers, and telephones. One participant talked about books and electronic materials and stated:

"Most of the books that are reasonably written are American- or British-based. We don't have too many African authors and Nigerian authors, or books contextualized to the health problems of our population. We have just started making use of the internet but we are not able to subscribe or pay in order to access new online research or teaching materials."

Furthermore, many current and prospective students find it difficult to meet the financial obligations of nursing and midwifery schools, making it difficult for qualified individuals to start and complete their education. One participant said:

"Most students that come to our school are from poor families. One of them now is qualified but not able to pay 'kobo' (local currency denomination equivalence of one cent or less)."

Such students are unable to pay their tuition or acquire the required books and other items needed to complete their programs successfully.

Gender issues

Participants noted that Nigeria is a paternalistic society and issues related to gender affect nursing as a profession. At the familial level, there is lack of spousal support as some men do not allow their wives to reach their maximum academic potential. One participant put it this way:

"Some women are capable, but the type of 'Nigerian mentality' men we marry – they won't even allow you to go to school or further your education. They feel that when you come back, you become the master of the house."

Few participants expressed optimism that things will change in relation to family dynamics in favor of women, and their potential in pursuing academic careers such as nursing.

Nursing remains a profession with the greatest proportion of women in Nigeria, and as such, participants believed that policies related to nursing are not taken seriously by the government, compared to other professions such as law or medicine. Data on gender ratio in the nursing workforce were not obtained for this study. Participants agreed that the multiple certifications in nursing provide no benefit to nurses in terms of ascending the career ladder in leadership roles such as in education and administration, since the certificates are not recognized by the universities. One educator expressed deep frustration about the poor recognition accorded to nursing qualifications:

".... the certificates, a whole staff nurse midwife, you get your midwife certificate and it is not even a diploma. It does not belong to diploma, neither does it belong to a degree."

Nurse educators and their students experience practice

handicaps during their practicum as more attention is paid to resident doctors and medical students. One participant used the word *'red tape-ism'* to describe this situation. For example, student nurses are often not allowed to perform key obstetric functions when there are medical students or resident doctors in the wards that also needed the experiences. She explained that nurses are often not given full practice opportunities particularly in tertiary facilities, thereby limiting their prospects for learning and professional growth. The subordinate role of nurses and lack of respect for the profession in the context of gender differences affect the image of the profession. A participant stated:

"... but you know, in Nigeria, the women, the stigma, the high position accorded to men and doctors from the colonial days still obtains."

Health system's challenges

Participants attributed most problems confronting nursing workforce development to Nigeria's weak health system such as inadequate physical and human infrastructures, fiscal constraints in absorbing trained nurses, and poor salaries. Students and staff are squeezed into tight classrooms and office spaces, creating teaching and learning challenges. They stressed that schools of nursing and midwifery do not get significant financial support from the government, and mission schools and hospitals in particular are heavily affected. These mission institutions were established by British missionaries many decades ago, resulting in numerous dilapidated infrastructures that are never upgraded or equipped. They lack critical resources for effective teaching and learning, and most importantly fail to attract young people. They are therefore financially dependent on tuition and local churches whose memberships include the very poor in rural villages. One participant simply stated:

"We have no money to run our academic institutions." Another stated, *"They (people in government) need to realize that we are part of this country and we are doing good service to humanity."*

They should help us and give us grants to train many more nurses... equip the wards and the training areas. If they can help us, it will be nice, because where there is money there is everything, and where there is will, there is hope".

Participants noted that despite tough challenges, schools continue to train and graduate a good number of nurses and midwives even though the jobs are not always there. They acknowledged that it is difficult to witness high nursing unemployment in the midst of surging maternal health care needs. They explained that

the government often places embargo on employment because it lacks the fiscal resources to create health care jobs, leaving many highly qualified nurses and midwives unemployed in a society that is in dire need of their services. Information on specific dates of embargo on jobs in Nigeria were not provided by participants in this study. A participant believed that many highly qualified nurses are produced each year that they could meet a significant proportion of the health needs of the country. Unfortunately, significant numbers of them are unemployed, and those who are employed are unhappy and eventually leave.

Poor remuneration was repeatedly pointed out by all participants as one of the biggest impediments to the growth of the profession and workforce development. Employed nurse educators get low salaries and go unrewarded for most of the work they do. They explained that with the meager salaries, they could not afford continuing education through conferences and workshops, or attain higher degrees to advance their careers in addition to meeting their basic family needs. Furthermore, delayed promotions and inadequate compensations create frustrations and affect the morales and performances of nurses, thereby causing them to consider alternative options. One participant put it this way:

"We have nurses and midwives that are skilled ... the unfortunate thing is that nurses overall are not favored in Nigeria because of the pay. Remuneration is very low, so they keep leaving the country – to South Africa, America, you name it".

Participants noted that although graduates could be employed in variety of positions, first and second tier jobs (federal and state agencies) are preferred but highly competitive, and therefore not readily available. Private hospitals absorb significant number of graduates despite their very low remuneration. Some of the participants disgust with private hospitals, stating that they do not hire qualified nurses and midwives.

"They do not want to pay them well, but rather saturate their hospitals and clinics with 'quacks' who dropped out of school because they failed in the program and are therefore, not licensed to practice".

For qualified nurses, one participant stated:

"The nurses graduate, and we throw them into the job market where there are no jobs. Some nurses find themselves in the private hospitals where they 'use them' because you cannot imagine that the staff nurse midwife would be paid between 4000 and 7000 naira (approximately \$30 to \$50) per month".

Another participant expressed dissatisfaction about the

uncertain future for new graduate nurses by summing it up this way,

"... we are throwing them out in the job market. Some going to South Africa, some going to Tanzania, all these places, go all over the world, you see Nigerian nurses. Because they cannot get employment in Nigeria, and when they have the employment, the pay is weaker, otherwise if you are well paid, how can you leave your family in Nigeria and go abroad?"

Nigerian nurse and midwife graduates, according to participants, are highly interested in overseas employment, particularly in the United States. They were concerned about the high number of nurses who are leaving the country to unknown destinations. Participants stated that they do not keep any data on their employees' or graduates' whereabouts after they leave their jobs or the schools. However, the educators reported an increasing trend in the number of transcripts requested by their graduates. One participant said:

"This year, of all the 35 that qualified and graduated, we confirmed that five midwives have already left the country (within six months of their graduation)."

A participant commented that many Nigerian nursing students have no zeal anymore to study and learn contextual clinical issues, with the plan of practicing within the country post-graduation. They study with the intent to migrate overseas. The participant stated:

"They are just in to 'pass examinations'. It has not been like that all this time. We used to have students who are committed and know what they are doing. I don't know whether it is this 'American check-out' that is causing this because all they do now is to pass exam and then take the Commission on Graduates of Foreign Nursing Schools (CGFNS) certification examination."

Another participant noted that the United States and United Kingdom opened their doors for Nigerian nurses, but their activities are definitely a problem for Nigeria.

"We do however, encourage and welcome our nurses to go and train abroad, where there are better opportunities for them to learn, and then come back to teach here in our nursing and midwifery schools. That does not happen. That's the problem."

New and experienced practitioners and educators are always on the lookout for better opportunities. One educator revealed that advanced nurses in academic institutions have the greatest opportunities to go overseas because they are often more exposed to foreign opportunities through networking. She said:

"I have lost very many well-educated nurses, especially lecturers. Such losses are irreplaceable."

Implications for maternal health

In response to the question, "how does the availability of adequately trained nurses and midwives affect maternal health services provision in Nigeria?", participants indicated that the answer starts from the schools and extends to the points of care. The quality of instruction provided, the quality of nurse graduates, and the quality of care delivered to clients impact maternal health outcome. They explained that the lack of necessary financial and technical support for nursing and midwifery education means that most classrooms are not well equipped, and instructors do not have the necessary tools to support students' learning. The instructors' readiness to provide students with solid knowledge base with which to go out and practice with confidence and improve maternal health outcomes are affected. This directly affects theoretical preparation and clinical skills training for students. In most cases, nursing students are not adequately prepared for their roles. One respondent was worried about the outcome and stated:

"When students are not well prepared for clinical practice, their care delivery skills will be compromised".

Participants indicated that despite the availability of trained nurse professionals in the job market, there are still not enough educators and clinicians that are actively employed by the system that could impact the health outcome of women, particularly in the rural areas. This simply means that large numbers of women are not accessing the necessary consultations and antenatal care they need. They cited instances where women spend an entire day in queue waiting to see a provider and could not (situations that often discourage some women from going to the health facilities in the first place). For rural clients, they fall back to the services of traditional birth attendants and other alternative providers. They were concerned that as fewer nurses handle high patient loads under difficult work environments, their care effectiveness diminishes.

DISCUSSION

The system of nursing and midwifery education in Nigeria influences nurses' broader responsibilities. The findings of this study showed that nurses go through a rigorous integrative curriculum in order to get licensed. The curriculum discussed in this paper is reflective of the basic and general nursing and midwifery programs since university-based programs that could produce masters

and doctorate level graduates are still emerging. Although general and basic program graduates are skilled and do bits of everything, their earned non-degree diplomas and certificates limit their capabilities in the field. Majority of the nurses are locked into clinical practice through their educations and training in the basic nursing and certificate programs. This presents roadblocks for professional advancement to higher level leadership and policy positions; and to compete with their peers in other health-related fields such as medicine and pharmacy. These findings are consistent with an earlier report by Munjanja et al. (2005) that preparation of nurses in African countries has been more for clinical systems management than for strategic policy development. Efforts toward advanced nursing education should be unrelenting as policy decisions related to maternal health issues should be spearheaded by nurses and midwives. They deserve strategic positions of leadership in academic, policy, and higher-level health services administration in Nigeria. The National Universities Commission (NUC) should prioritize the approval of more nursing programs at the baccalaureate and graduate levels in Nigerian universities.

This study revealed that the lower social position accorded to women impacts policies related to nursing education and practice in Nigeria. This may not be surprising considering the nation's paternalistic culture. In Nigeria, men dominate all spheres of women's lives, and the social relations and activities of women and men are governed by patriarchal systems of socialization and cultural practices which favor the interests of men above women (National Coalition on Affirmative Action (NCAA), 2009). The domination of the nursing profession by women and medical profession by men explains in part the unequal political landscape that is evident in clinical practice settings. Ndatsu (2004) and Olade (1996) concur that the subordinate role of the nurses in relation to physicians indoctrinated in early nursing education in the country intensifies this problem. Although the passive roles of nurses over the years are improving with a more structured Nursing and Midwifery Council committed to moving nursing forward through university-based degree programs, more needs to be done to push nursing to the fore front.

The findings of this study indicated that nursing faces broad challenges related to unemployment, poor infrastructure, less than adequate teaching and clinical working conditions, and poor remuneration. These challenges are tied to the weak health system. The efficiency of the Nigerian health care system stagnated over the past decades due to the impact of the International Monetary Fund's structural adjustment program, a reform policy to promote fiscal responsibility and stabilize the economy. The tight fiscal measures led to cuts in social and health services, and the inability of the health sector

to create jobs and absorb trained professionals, including nurses whose services are desperately needed. For example, in the first five years of the structural adjustment program, 1986 to 1990, government allocation of resources to the health sector ranged from just US 42 cents to US 62 cents per capita, an amount which was grossly inadequate to treat one attack of malaria (Popoola, 1993), or a mere 1.6 to 1.9% of the total federal government expenditure during 1980 to 1990 (Orubuloye and Oni, 1996). The fiscal policies exacerbated developing countries' already restricted abilities to implement incentive structures for retention (Tache and Schillinger, 2009), and Nigeria was a victim.

This study demonstrated that unemployment is very common among nurse professionals in Nigeria in the midst of acute nursing shortage. Schools continue to graduate a good number of nurse professionals, many of whom are either unemployed or underemployed. Chankova et al. (2006) report that Nigeria produces an estimated 5,500 nurses per year; however, only 1,331 are absorbed by the public health sector. The high number of unemployed nurses does not imply overproduction or "excess supply" in a country of over 154.7 million people, but a failure of the government to effectively manage its most critical labor force through recruitment, strategic distribution and retention. The fiscal austerity measures imposed by the international financial agencies are important contributory factors to the health system's failures. Dovlo (2007) confirms that in some Sub-Saharan African countries, fiscal restraints imposed by international loan conditionalities cause countries to freeze employment and retrench workers, particularly in the public sectors, making it hard for those countries to expand their workforce significantly even when supply is available. The fact that qualified nurses cannot find jobs in a country with high disease burden, extremely low worker-disease index, poor delivery system support to roles of nurses over the years are improving with a more structured Nursing and Midwifery Council committed to provide basic health and disease prevention services (Mackey and Liang, 2012), calls for policy strategies to restructure and strengthen the health system in order to recruit and retain all available qualified nurses.

Training, successful recruitment and retention of nurse professionals in Nigeria will involve strategic efforts to address underlying structural health systems issues that negatively affect nursing and health outcomes for mothers, from the academic institutions to the points of care delivery. Challenges related to poor infrastructure, less than adequate working conditions and poor remuneration were well documented in the findings of this study. Awofeso (2010) agrees that excessive workload coupled with relatively poor remuneration, inadequate clinical facilities and limited opportunities for professional development hinder efforts to recruit and retain skilled

health staff. Overall, wage levels in high-income countries are approximately five times those of low-income countries for similar occupations (Post and Parcel, 2007). For nurses, these factors are grand recipes for out-migration. Poor salaries and less than adequate teaching and clinical environments make nursing education and practice unattractive in Nigeria.

Inflation and progressive devaluation of Nigeria's currency over the past decades have made public sector salaries and allowances for health workers other than physicians increasingly inadequate for comfortable living (Awofeso, 2010). With meager income at home, this study showed that Nigerian nurses struggle to meet basic necessities of life for themselves and their families. Migration is therefore considered essential to achieving economic success, and so all avenues (formal and informal) are explored to gain access into developed countries (Adikibi, 2009). It is highly unlikely to find a Nigerian nurse or midwife who will turn down an offer or opportunity to travel abroad despite the fact that some of the health personnel who leave the country end up working in fast food restaurants, supermarkets and nursing homes instead of in positions that are comparable to their previous skill levels (Adikibi, 2009). Although there are regrettable losses of critical skill sets, the migrants are still happy since they earn more than what they were earning at home. Mackey and Liang (2012) describe these macroeconomic inefficiencies from health worker migration as "brain waste".

Although specific annual nurse migration data were not available from this study, my findings demonstrated that Nigerian nurses continue to leave the country each year due to multiple reasons, further decreasing women's chances of accessing health services, particularly in the rural areas such as in Anambra State. Several evidence supports this finding related to continuous hemorrhaging of the nursing workforce. For example, between 2004 and 2007, 16,383 nurses sought employment outside Nigeria (Labiran et al., 2008). As of 2007, twenty-five international recruiting firms were still recruiting from Africa and seven of those firms were active in Nigeria (Pittman et al., 2007). WHO (2006) estimates that about 3% of the nursing workforce (5,375 nurses) in Nigeria was registered in Organization for Economic Corporation and Development (OECD) countries in 2006. A 3% loss appears minuscule but could translate into zero nurses for millions of Nigerians based on the WHO's estimation of nurse-to-population ratio of 1.7 nurses per 1,000 population. Dovlo (2007) concurs that even minor losses of nurses to migration will magnify the existing shortages in sub-Saharan African countries. Furthermore, the effect of each loss is significant, considering the length of time and resources it takes to train a nurse and the country's high maternal mortality rate.

The future of nursing and midwifery in Nigeria might be

endangered. This study suggested that increasing numbers of Nigerian nurses are interested in, and actively pursuing across-the-border employment opportunities. Highly educated nurse professionals such as educators and other high level practitioners are usually the first to find external opportunities. This has been extensively validated by previous studies. Clemens (2010) notes that most health professionals who migrate internationally, are very highly skilled clinical care professionals with several years of advanced education. Hancock (2008) agrees that experienced and sophisticated nurses are the first to be targeted for recruitment from any country, as they are the ones that have the language skills and confidence to negotiate the complex immigration procedures and processes. According to Adikibi (2009), United Kingdom and United States recruit only the best staff, and the specialized ones. Since the best-prepared nurses are often destined for export, health delivery suffers generally at home countries and quality health care suffers in particular (Fagen, 2009).

Although the loss of Nigerian nurses through migration is huge, it is however a symptom of deeper health systems issues. Nurses are set-up and groomed for overseas exploration as a result of unemployment, poor remuneration, pathetic working conditions, and lack of decent professional and social status. The country faces a combination of a fast growing population and subsequent increase in maternal health needs, and inability to utilize all available cadres of trained nurse professionals. Strategic incentivized recruitment and retention programs are needed to support nursing workforce in order to positively impact health outcomes for women and the general population.

LIMITATIONS

A methodological limitation of this study is that the findings capture the views of a convenient rather than random sample of nurse experts. The views of experts in university-based academic program are not included. Furthermore, the number of participants is small. However, the number is appropriate for a qualitative study that utilizes the analysis of interview texts.

Conclusion

Nurses are at the center of health care delivery in Nigeria. Although schools continue to produce significant number of competent nurses and midwives annually under tough conditions and with minimal resources, the system fails to absorb the graduates, resulting in high nursing unemployment. Furthermore, the push and pull factors related to global labor market forces such as poor

salaries and benefits, and poor working conditions force more nurses to exit the pool. These issues result in inadequate number of nurses that are actively involved in tackling the health needs of a nation whose population continues to grow exponentially. Nigeria desperately needs an efficient health system that is committed to not only continued training of highly qualified nurses and midwives, but also to creating attractive well-paying jobs that could boost competitive recruitment and retention. Such efforts will help in addressing the surging maternal health needs in the country.

ACKNOWLEDGMENTS

This study was supported by Women's Health Nursing Research Training Grant (WHNRTG) T32NR07039 and by the Hester Mclaws Scholarship, University of Washington, School of Nursing. The author's gratitude goes to Drs. Debbie Ward, Bobbie Berkowitz, and Catherine Carr for their support and assistance with the study development.

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