THE ARMY AND CIVILIAN NURSING CRISIS AT THE DAWN OF THE 21ST CENTURY

by

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The views expressed in this academic research paper are those of the author and do not necessarily reflect the official policy or position of the U.S. Government, the Department of Defense, or any of its agencies.

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President Bush has declared that ending the nursing shortage is a national priority. The shortage of Army nurses jeopardizes military beneficiaries’ health care. An insufficient supply of nurses threatens force protection and emergency preparedness of our public health system, which must prepare to respond effectively to attacks by weapons of mass destruction. Factors contributing to the registered nurse shortage are impacting recruitment of Army nurses. Further, the low retention rates among junior active duty Army nurses exacerbate the problem. Departing nurses cite several concerns and desires to begin a family, not to work fulltime, and to remain in the same duty location. Implementation of preemptive strategies will ensure an adequate supply of active duty Army nurses in the pipeline to provide quality health care to retirees and military family members in the homeland, and especially to troops operating in volatile, uncertain, complex, and ambiguous environments. Corrective strategies should include policy and regulation changes, more economic incentives, and establishment of an undergraduate School of Nursing within the United States Uniform Health Services for all services.

This Strategy Research Paper (SRP) describes the global nursing shortage. It analyzes the reasons for the shortage of non-Department of Defense civilian nurses, comparing them with the reasons for the shortage of nurses in the Army. It outlines the implications of the nurse shortage for health care beneficiaries. It reviews findings from Army Nurse Corps exit surveys. It discusses current strategic initiatives. It provides recommendations to achieve and sustain sufficient numbers of Army nurses to continue supporting the Army Medical Department goals and transformation initiatives in the face of a nationwide health care crisis. It raises critical questions for further examination: What impact will the availability of onsite child care services for shift workers have on AMEDD retention? What is the correlation between age of active duty Army nurses and personal military readiness? Will ending the shortage of nurses in the Army depend on ending the shortage of nurses in the civilian sector?
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THE ARMY AND CIVILIAN NURSING CRISIS AT THE DAWN OF THE 21ST CENTURY

Time has shown that nurses will no longer accept the mere performance of tasks as their practice goal outcomes. Nor will they remain in systems that promote fragmented, uncoordinated care leading to dissatisfaction for everyone. The relationship between the nurse and patients must be preserved for the future if a balance is to be struck between the goals of cost and quality of health care.

—Joyce Clifford of Beth Israel Hospital, Boston

The Army Nurse Corps’ (ANC) mission is to provide nurse leadership and to support the Army Medical Department’s (AMEDD) delivery of the highest quality of health care to the Army family, in peace and war, anywhere, and under any circumstances. Currently 1,173 Army nurses serve as professional fillers in time of mobilization. Brigadier General William Bester, Chief of the ANC, reports that “in fiscal year (FY) 02, the average number of U.S. Army soldiers deployed in support of worldwide military operations and training missions was 51,669 throughout 66 countries. During FY 02, a total of 1,018 Army Nurses deployed in response to all missions.” The ANC, as in the Air Force and Navy Nurse Corps, is struggling to hire enough civilian nurses to offset the shortage of active duty staff to maintain the stability of the organization, continuity of services, institutional memory – thereby insuring quality patient care to military beneficiaries.

Yet at the same time the Bureau of Health Professions documents that the U.S. is currently short 125,200 civilian nurses. Researchers forecast this amount will double by 2010 and exceed 800,000 by 2020. Recent Congressional testimony asserts that our emergency preparedness and national security are at risk due to the growing critical shortage of nurses. If the nursing shortage is not alleviated, the second-and third-order consequences of that shortage threaten force protection and may as well prevent our public health system from being able to respond effectively to bio-terrorist attack. The shortage of nurses in American society is mirrored by the shortage of nurses in the Army. Like the rest of the nation, the Army is potentially at risk of a health-care crisis that could adversely affect the well-being of its health-care consumers. Limited ANC active duty officer personnel strength makes it painfully evident that we are not immune to the problems encountered by our civilian counterparts.

This Strategy Research Paper (SRP) describes the global nursing shortage. It analyzes the reasons for the shortage of non-Department of Defense civilian nurses, comparing them with the reasons for the shortage of nurses in the Army. It outlines the implications of the nurse shortage for health care beneficiaries. It reviews findings from ANC exit surveys. It reviews
current strategic initiatives. It provides recommendations to recruit and retain sufficient numbers of Army nurses to continue supporting the AMEDD goals and transformation initiatives in the face of a nationwide health care crisis.

**ARMY NURSING SHORTAGE**

Testifying before Congress, Lieutenant General James Peake, the Surgeon General United States Army, articulated the importance of sustaining a robust AMEDD as part of Army transformation:

> To have a capable and ready Army medical force we must have the ability to recruit and retain quality, highly skilled health professionals. Without the ability to recruit and retain these vital health care professionals we face personnel shortages that could prove harmful to our deployment platform. The AMEDD will focus all resources on three fundamental components of our mission: Deploying a trained and equipped medical force; projecting a healthy and medically protected force; and managing the health of the soldier and the military family.

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Source: U.S. Army PERSCOM, Army Nurse Branch, Alexandria, VA 2002

**TABLE 1. ANC PERSONNEL BY SPECIALTY AS OF FEBRUARY 2003**

The ANC is short 265 positions of its authorized budgeted end strength of 3,415 for FY 03. The over strength inventory in certain specialty areas disguises the total nursing shortfall of 340 officers in critical care, peri-operative, medical surgical, obstetrical & gynecological, and anesthesia nurse specialty areas. The ANC personnel inventory indicates significant shortages. Levels of fulfillment in critical specialties are: critical care (84.9%), peri-operative (91%),
medical-surgical (91%), nurse anesthetists (71.7%), and obstetrical and gynecological nurses (93%). Areas filled less than 90% are considered critical. In spite of the critical shortages of 264 positions including critical care, peri-operative, nurse anesthetist, psychiatric, and obstetrical & gynecological nurses, the Corps continues to excel at its patient care mission at home and abroad during the high rate of deployments in diverse regions of the world.

Our executive and legislative branches of government acknowledge that nurses contribute significantly to saving lives and reducing severe hardships. President Bush declared that eliminating the nursing shortage is a national priority. Marilyn Rothert, Dean of Michigan State University School of Nursing, views the nursing shortage as a serious problem, jeopardizing our ability to respond to mass casualties or bioterrorist attacks. She believes the situations threatening the general public could overwhelm the nations nursing workforce. In many hospitals the shortage of nurses makes it very difficult to provide quality care and patient safety is threatened.

GLOBAL SHORTAGE OF NURSES

The U.S. has a shortage of registered nurses in practice and a shortage of students entering and graduating from nursing programs. The greatest immediate concern centers on the shortage of nurses working in hospitals. However, those familiar with previous shortages state that, in comparison, this shortage is more complex because of a myriad of new demographic and societal factors, which in turn require innovative strategies to fix the problem. Some economists have described the nursing shortages as “an overarching imbalance of supply and demand attributed to demographics, qualifications, availability and willingness to do the work.” The International Council of Nurses provides further interpretation: It describes the nurse shortage “in terms of demand, based on the amount of care people will fund and need.”

The U.S. has experienced a cyclic shortage of nurses since World War II. “In 1941 the supply of nurses could not meet the demands of either the civilian or military needs.” In 2003, there are still insufficient nurses working in hospitals or entering the workforce to meet rapidly increasing demands for their services.

The global reach of the nursing shortage is brutally impacting health care organizations and consumers throughout the world. In an international survey, researchers from Penn State University found that 69 nations were experiencing a nursing shortage. The effects of the insufficient supply of nurses in the workforce extend from such wealthy countries as Canada, Britain, and the Netherlands to impoverished regions of Africa and the Philippines. This global nursing shortage presents new challenges for the United States and
During past shortages, the U.S. has recruited nurses from areas such as Canada, India and the Philippines. Historically higher salaries, compared with those in other nations, in America have contributed to successful recruiting efforts. Now almost every country is scrambling for this scarce human resource, making recruiting and retention internationally fiercely competitive.

According to Lucille Auffrey, Executive Director of the Canadian Nurses Association, Canada has improved incentives to lure Canadian nurses back from the U.S. Great Britain’s policies prohibit poaching nurses from host countries with nurse shortages. Sarah Mullally, Director of Nursing and Chief Nursing Officer the Guidance on International Nursing Recruitment, says it is clear that recruitment should not run counter to the host country’s interest. But not all nurse recruiters and health care organizations comply or agree with this anti-poaching policy. In the RN Journal, Britain was identified “as poaching nurses from the Third World, despite a Government ban on recruiting from the Third World.” The reality is that organizations continue to recruit nurses, with little if any thought regarding the hardships imposed on other organizations in their own communities, much less giving consideration to other countries.

For example, the numbers of nurses entering Britain from South Africa has increased more than fivefold since 1997. This increase occurred even after South African President Mandela protested. It is apparent from the global nature of the current nurse crisis that neither the ANC nor the civilian nursing profession is capable alone of addressing the many factors contributing to the nurse shortage.

DILEMMA FOR BOTH ARMY AND CIVILIAN SECTOR

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TABLE 2. TOP THREE RN SHORTAGES BY SPECIALTY

The Army and civilian health care systems have a common dilemma. Both have identical registered nurse shortages in two specialty areas, critical care and peri-operative nursing based on percentage filled. The Army has a shortage of nurse anesthetist and the civilian hospitals are short of trained emergency department nurses. Both health care systems are struggling to ensure that patients receive quality health care despite an insufficiency of nurses. They are
taxing existing workforce too the limit. A military-unique complication of the shortage of active duty nurses in the Army is the impact of the shortage on all three key components of the AMEDD mission. The nurse shortage in the civilian community will impact one of the AMEDD key fundamental components, which is managing the health of soldiers and the family members.

<table>
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<th>Officers</th>
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Source: U.S. Army PERSCOM, Army Nurse Branch, Alexandria, VA 2002

TABLE 3, AMEDD PROGRAMMED END STRENGTH

Army nurses are the third largest group in the AMEDD after physicians and Medical Service Corps officers. In the civilian sector nurses make up the largest group of health care professionals. Universally, there appears to be a sufficient number of registered nurses to care for patients, but an inadequate supply working in the inpatient setting. Table 3 illustrates the AMEDD five year capability plan based on authorized strength for every years future mission. Change occurs based on mission needs of the specific corps and distributions of authorizations.

Retirement of the baby boomers is expected to contribute to increased demands for health care, as well as decreasing the number of nurses available to provide patient care. Many agree that nurses are the backbone of what hospitals do. And because of the undersupply of nurses, it is not uncommon for thousands of hospitals in the U.S. to divert and curtail health care services, to include canceling elective surgical procedures. These demographic changes and numerous other variables compound access to care problem.

EFFECT OF NURSE SHORTAGE IN A TIME OF MANAGED CARE

Nurses became more stressed and frustrated as a result of the re-engineering of the health care delivery system. They have routinely found themselves caring for sicker patients
with a shorter stay in the hospital with fewer support staff. The managed care system has
driven many civilian nurses out of the profession as a result of downsizing and layoffs.\textsuperscript{24} In turn,
hospitals and nursing administrators are experiencing a significant hiring lag of registered
nurses with the experience, competency and skill required to care for very complex patients.

Assistive personnel have been hired in place of licensed nurses to augment nursing care
and to drive down costs.\textsuperscript{25} This has only added more training and supervisory responsibility on
an already overworked and extremely stressed diminishing group of registered nurses. Failure
of leaders to predict, plan for, and prepare to avoid the nurse shortage has resulted in
unanticipated, unintended and undesirable patient outcomes. The nursing shortage has
delivered a devastating blow to the health care system.

Many people are afraid to leave their loved ones unattended by family members in
hospitals due to the shortage of nurses and fear for patient safety. They are even more
concerned about the consequences of the shortage on their own health care.\textsuperscript{26} Dr. Dennis
O’Leary, M.D., President of the Joint Commission on Accreditation of Healthcare Organizations
(JCAHO), states that millions of patients’ health care is potentially endangered by the growing
nurse shortage.\textsuperscript{27} Colonel Steven Kading, Army War College Student and ANC Officer,
reported over 12 years ago that “nurses are tired of high risk environments with poor staffing.
Under those conditions, there can be no assurance of safety, quality, or even adequacy of
care.”\textsuperscript{28}

Hospital cost-cutting measures have contributed to understaffing and poor patient
outcomes. Several studies reveal that there is a correlation between the number of registered
nurses in the workforce and patient outcomes. In 2001 the American Nurses Association
Staffing Survey revealed that out of 3,617 respondents over 53% replied that they were
discouraged and frightened for patient safety and quality of care.\textsuperscript{29} Research has shown that
“possibly hundreds to thousands of deaths and injuries each year are attributed to inadequate
nurse staffing levels.”\textsuperscript{30} In May 2002, Needleman, Mattke, Steward, and Zelevinsky indicated
that they “were uncertain if an association existed between low registered nurse staffing levels
and higher risk for patient complications or deaths. They concluded that hospitalized patients
receive better care by registered nurses as opposed to other nursing personnel.”\textsuperscript{31} In 1997
“understaffing of nurses was cited as a factor in 402 out of 1,609 unanticipated deaths, injury or
permanent disabilities of the ones reported. Inadequate nurse staffing levels contributed to 42%
of surgery-related incidents, 25% of transfusion problems, and 19% of medication errors.”\textsuperscript{32}
Likewise, studies concluded that hospitals with too few registered nurses are putting patient safety at risk as a result of their focus on the financial bottom line.\textsuperscript{33}

**COMPARISION OF ARMY AND CIVILIAN NURSE SHORTAGE**

In the early 1990s many of the reasons for the nursing shortage in the Army are the same as those for the shortage of nurses in the civilian sector today. The ANC “Proud to Care Survey” findings presented in Colonel Kading’s Individual Study Project 12 years ago are identical to the reasons for the civilian nurse shortage today. These findings contrast somewhat with the results from the current “ANC Exit Survey”. Despite the differences in the findings nurses are still leaving the profession. We have a different generation of professionals with different priorities.

**ARMY NURSE CORPS “PROUD TO CARE” SURVEY - 1990**

Colonel Kading also examined contributors to the shortage of Army Nurses. Data from the ANC “Proud to Care” Survey revealed the following critical issues related to Army nurses’ satisfaction and retention.\textsuperscript{34}

- Insufficient time available for direct patient care.
- Poor compensation.
- Underutilization of professional skills.
- Unrealistic staffing patterns and duty schedules.
- Lack of clinical decision-making authority and autonomy.
- Inadequate force multiplication and information system technologies.
- Lack of participation in governance, management, and administration.
- Lack of collegial communication and collaboration.
- Inaccurate and misrepresented image and organizational value.

**CAUSE OF CIVILIAN NURSE ATTRITION -1990**

Colonel Kading found the following variables to be the causes for the nationwide nurse shortage throughout the 1980s and into the 1990s.\textsuperscript{35}

- Poor compensation.
- Inadequate staffing.
• Changes in the hospital reimbursement system – nurses caring for a greater number of sicker patients more frequently with a shorter length of stay.
• Increased need for specialized skill and knowledge to meet the advent of new technological demands and the complex care associated with the emergence of new diseases.

ARMY NURSE CORPS EXIT SURVEY - 2002
In the Oct 2002 Army Nurse Corps Newsletter the Chief of the ANC, Brigadier General Bester, highlighted the results from the ANC exit survey study. According to Brigadier General Bester active duty nurses left the Army for some of the following reasons:

• Desire to begin a new family and not work full time.
• Desire to remain in the same location.
• Lack of mentoring.
Micromanagement among middle and upper management.

SOME REASONS CIVILIAN NURSES ARE LEAVING 2002
The JCAHO and numerous other researchers indicated that nurses continue to leave the profession for the following reasons:

• Increased workloads and overworked.
• Disruptive behaviors by physicians and lack of respect.
• Low staffing levels and insufficient number of trained staff.
• Mandatory overtime.
• Limited career opportunities.
• Low pay and out-of-date benefits packages.
• Violence in the workplace/negative work environment.
• Managed care.
• Too many housekeeping duties.
CIVILIAN SHORTAGE AFFECTS ARMY SHORTAGE

The Army can only recruit nurses that are U.S. citizens. Therefore the Army must compete with the civilian community for American nurses. Brigadier General Bester stated in 2001 that “the Army was beginning to feel the pressure of the nurse shortage.”\(^3^8\) This has become an increasing recruiting challenge for the Army since 1997. According to Rear Admiral Martin, former Chief of Navy Nurse Corps, “the best efforts of the military to recruit may have been outstripped by the nursing crisis.”\(^3^9\)

ARMY NURSE CORPS RECRUITING INITIATIVES

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Source: United States Army Recruiting Command, Fort Knox KY, 2003

TABLE 4, CONSOLIDATED ANC RECRUITMENT PROGRAMS

Army Nurse Corps leaders are devising recruiting strategies to resolve the active duty shortage of Army nurses. United States Army Reserve Officers Training Corps (ROTC) Cadet Command made available more two-and three-year nurse scholarships to attract quality nursing students to ROTC. In 1996 ROTC Cadet Command entered a Partnership for Nursing Excellence (PNE) with several universities and colleges of nursing throughout the country. The PNE is one of several ANC recruitment and retention strategies to better focus and concentrate resources on a few nursing programs. Colonel William Hartman, the Chief Nurse for Cadet Command describes the details and challenges associated with the PNE program:\(^4^0\)
The Partnership in Nursing Excellence program was designed to limit the number of universities actively recruiting nurses. Each PNE school has a contract between Cadet Command and the School of Nursing that guaranteed the nurse cadet a seat at the upper division nurse program as long as they met the advertised grade point average listed in the School of Nursing course catalog. He believes the program had merit but the schools selected for the program were not able to recruit the needed numbers to meet the mission requirements. Also tied to PNE were scholarship dollars and recruitment goals. Non-PNE schools who were good nurse producers in the past soon found out that they had limited scholarships available to provide nurse prospects. Also, in an effort to better focus resources ROTC cadre on these campuses were not given a recruiting mission to find nurses anymore. They stopped looking for nurse candidates resulting in the demise of the ROTC nurse program on their campus resulting in a need to re-adjust the recruiting mission and solicit support from United States Army Recruiting Command (USAREC).

Various recruiting options in the Army offer flexibility in rapidly responding to the need to adjust and shift Army nurse recruiting goals among the various programs. For example, “the original ROTC mission for 2000 – 2002 was 175, however, they were ‘adjusted’ and USAREC picked up the extra numbers. The original mission for USAREC was 85 in 2000, 82 in 2001, and 125 in 2002. The adjusted numbers reflected in table 4 are used by USAREC in the program analysis process.” Unfortunately, USAREC was not able to achieve the adjusted recruiting goal from FY 00 to FY 02. United States Army Recruiting Command mission requirements increased; however, additional recruiting resources were not available to accomplish the increased workload. In response to some of the lessons learned from these experiences, USAREC made internal changes. In an effort to be more responsive to nurse applicants and recruiters USAREC is streamlining the application process to avoid losing direct accession applicants, who are new graduates and working nurses. With this emphasis on increased customer satisfaction, fewer documents and less time are required to process nurse applicants. In addition to the $5,000 accession bonus, nurses are guaranteed one of their top three choices of duty location on initial entry into the ANC. It is important to note that the ANC has an array of creative and diverse nurse recruiting programs for most nurse candidates, extending across the spectrum from the high school to the working nurses.

The Army Enlisted Commissioning Program (AECP) affords young soldiers from any military occupation specialty the opportunity to complete their undergraduate nursing degrees in fulltime student status on a scholarship while receiving full pay and benefits. Due to the
recruiting challenges in both the ROTC and USAREC programs, the Army increased the number of AECP slots from 55 in FY 01 to 75 in FY 03.

Another incentive offered by the Army is specialty course training to attract new nurses. After one year on active duty nurses are guaranteed, if desired, selection to attend one of the specialty training courses in fulltime student status while receiving all pay and benefits. These nurses can specialize in critical care, emergency, psychiatric mental health, obstetrical & gynecological, community health, and peri-operative nursing. The four courses mentioned are course guarantees. Emergency room and community health courses are offered, but they are not generic course guarantees.44

ARMY NURSE CORPS RETENTION STRATEGIES

In recognition of the achievements and potential of the military Nurse Corps Chiefs, Senator Inouye introduced an amendment that was signed by the President to increase the Chiefs’ rank from a one-star to a two-star. “This level of advancement recognizes the scope of responsibility of the Corps Chiefs and it ensures military nurses have a strong leadership voice.”45

The ANC was recently allocated 10 additional authorizations to the rank of colonel. This will reduce waiting time for promotion by approximately 50%. In September 2002 Colonel Sharon Feeney-Jones, the Chief of the ANC Personnel Branch, announced that Army nurse officers were not being involuntarily retained on active duty past their active duty service obligation date. However, no early retirements are currently offered and officers have been reminded that they must voluntarily complete three years time in service in grade if they want to retire at current rank.46 Also, given the decline in nursing students graduating from ROTC, the ANC denied educational delays to nursing students wanting to pursue graduate education programs.47 Cadet Command is completing an intensive “market analysis and scholarship reform package.” They added incentives and a dedicated teaching and coaching program for recruiters and cadre. Colonel Hartman reports that he is already seeing favorable results in the ROTC nurse recruitment numbers and prospecting efforts.48

ARMY NURSE CORPS FINANCIAL INCENTIVES

Following Congressional testimony in 2002, Brigadier General Bester received approval to award Critical Skill Retention Bonuses (CSRB) to peri-operative nurses and nurse anesthetists. The ANC is requesting continued use of the CSRB for all nurse specialties.49 In FY 03 the National Defense Appropriations Act gave approval for increasing nurse accession bonuses to
thirty thousand dollars. Department of Defense established a work group to present a gradual approach to increase the nurse accession bonus to fifteen thousand dollars in FY 05 and twenty thousand dollars in FY07. This group is also tasked to do the same for the increase in incentive specialty pay for nurse anesthetist. Additionally the Health Professional Loan Repayment plan was approved for the Army Nurse Corps with the year of execution FY 03. This year it is used specifically for retention and beginning FY 04 and the out years it will be used for recruitment. The success of these programs will solidify the decision if it will be programmed for out years. Financial initiatives have been extremely successful in attracting and keeping advanced certified practicing nurses on active duty in the Army.

ARMY NURSE CORPS EDUCATIONAL INCENTIVES

The Uniformed Services University of the Health Sciences (USUHS) currently offers three graduate programs (Nurse Anesthetist, Family Nurse Practitioner, and Peri-operative Clinical Nurse Specialist) to active duty Army nurses. “Since USUHS has become the sole educator of Army Family Nurse Practitioners, students have a 100% pass rate on certification exams, the AMEDD has saved over $300,000 annually, and the health care provided to military beneficiaries remains at high quality.” Also, the Army Nurse Corps will start a PHD program in research in FY 03 at USUHS.

CIVILIAN STRATEGIES FOR RECRUITMENT

Many of the initiatives to recruit civilian nurses are creative and positive; however veterans of the health care industry remain skeptical and question whether this is enough to reverse the nursing crisis for the long term. More and more hospitals are beginning to entertain different strategies such as flexibility in scheduling and flexible hours for the aging nurse. Child care is also a very popular recruiting and retention initiative.

PARTNERSHIP INITIATIVES

Government officials are aggressively introducing legislation providing incentives to promote nursing as a career and attract young people to the profession. For example, the President approved the Nurse Reinvestment Act (NRA), which establishes scholarships for nursing students who agree upon graduation to work for a time in a facility facing a critical shortage. The NRA also repays student loans for nurses who seek advanced degrees and join the faculties of nursing schools. It is important to note that the President’s plan competes with the Army ROTC nurse scholarship program. Students who would have taken the ROTC scholarship will opt for the President’s plan to get their tuition paid and remain working in their
civilian community. Another initiative sponsored by the Senate is the Nurse Employment and Education Act (NEED): “It authorizes dollars for a civilian nurse corps. It offers loan repayment program and scholarships to train nurses to work in critically short areas and incentives for nurses to achieve graduate degrees. The NEEDs act includes measures for hospitals to strive to seek best practice model status for retaining nurses.”

According to the American Hospital Association (AHA) and the American Nurses Association (ANA) financial incentives are varied and extremely successful in recruiting and retaining nurses. According to Steven O’Connor, in 1999 more than 40% of the hospitals surveyed offer recruitment bonuses as high as $15,000. Mary Foley, former President of the ANA, believes scholarship and grants are important for increasing enrollment of faculty and students.

Some hospitals in Cincinnati provided $30,000 registered nurse retention bonuses in return for a two-year work commitment. In Nevada staff members can get up to a $2,000 finder’s fee for every nurse they recruit who stays with the organization for six months to a year. Health care organizations in Florida offer a $7,500 down payment on a new home. Lucrative sign-on bonuses are the recruiting tool of choice. Student loan forgiveness is another tactic gaining momentum. These extra incentives assist nurse recruiters in finding candidates. The addition of a hefty retention bonus is valuable for preventing competitors from luring away quality employees. Some of these incentives are controversial: critics claim that these enticements are a temporary solution; that the only thing that they do is redistribute, not increase the supply of nurses. Such observations have merit. Nonetheless, these incentives are very popular again. American hospitals are resurrecting aggressive recruiting efforts of nurses overseas. Recruiters complain that the “federal policy regarding visas is a barrier for recruitment of nurses from other countries to the U.S.”

Professional organizations are forming coalitions with industry to enhance the image of the nursing profession and to recruit nurses. Johnson and Johnson, one of the top three companies that supply items for nursing care of patients, launched an aggressive $20 million dollar marketing, advertising, and recruiting campaign for the next two years. The campaign seeks to bring nationwide attention to the shortage of nurses, to enhance the image of the profession, and to recruit more males and minorities in nursing.

To assist with recruiting more men and minorities, celebrities and public officials are advocating nursing careers. The Bush administration issued a public announcement campaign referred to as “A Call to Care.” The goal of this campaign is to inspire young people to pursue
nursing as a career and to expand enrollment in nursing programs at all levels. Mary Foley agrees that “the nursing profession needs to be bolstered to attract younger nurse recruits.”

**ORGANIZATION PERFORMANCE IMPROVEMENT INITIATIVES**

Other initiatives to attract people to the nursing profession are designed to improve technology and reengineer professional staffing models to reduce dissatisfaction in the work. Experts say the health care industry has failed for over a decade to improve the work environment of health care professionals. The health care industry has ignored the technological needs of an overburdened, overworked, frustrated, stressed, demoralized, and diminishing staff. Archaic technology has hindered efficient and effective means to reduce paperwork and redundancy; and it has increased the amount of time nurses spend away from patients. More hospitals are now upgrading technology, issuing nurses mobile phones and pagers for staff use to increase efficiency and safety. Colonel Eileen Malone, Special Assistant to the Army Surgeon General, address the technological issues. Nursing at the bedside is physically, emotionally, and intellectually demanding. It’s also risky work – look at exposure to infection and associated with work place injuries. There has been too little technology to help nurses with nursing specific issues – but an overwhelming amount of healthcare technology added to the patient care arena that has inundated nurses. We need Enterprise Resource Planning Information Technology that simplifies the redundant administrative functions that typically fall on the shoulders of the nurses and clerks.

The Joint Commission Accreditation of Healthcare Organizations, Health Care Facilities and Nursing Associations are re-engineering professional staffing models. Research shows that nurses are attracted to and stay longer at “Magnet” hospitals than at some of the other facilities. “These organizations cultivate nurse autonomy and foster transformation of nursing work through the use of mentoring roles and ergonomic technologies. Further, magnet hospitals set staffing levels on the basis of nurse competency and skill mix relative to patient mix and acuity.”
ARMY NURSE SHORTAGE SPECIFICS

<table>
<thead>
<tr>
<th>Year</th>
<th>Recruitment Goal</th>
<th>Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1998</td>
<td>310</td>
<td>310</td>
</tr>
<tr>
<td>1999</td>
<td>326</td>
<td>308</td>
</tr>
<tr>
<td>2000</td>
<td>334</td>
<td>318</td>
</tr>
<tr>
<td>2001</td>
<td>333</td>
<td>288</td>
</tr>
<tr>
<td>2002</td>
<td>367</td>
<td>291</td>
</tr>
</tbody>
</table>

Source: United States Recruiting Command, Fort Knox, KY, 2003

TABLE 5. ARMY ACTIVE DUTY NURSE RECRUITMENT GOALS

Since 1999 the Army has been challenged like the civilian sector, in every attempt to meet its nurse recruitment goals. Each year the recruiting goal increases, with a steady decline in overall mission achievement. The ANC experienced a recruiting deficit ranging from as low as 16 nurses in 2000 to a shortfall of 76 nurses in 2002.

<table>
<thead>
<tr>
<th></th>
<th>2000</th>
<th>2001</th>
<th>2002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packets boarded</td>
<td>70</td>
<td>64</td>
<td>92</td>
</tr>
<tr>
<td>Soldiers selected</td>
<td>68</td>
<td>52</td>
<td>80</td>
</tr>
<tr>
<td>Total started/finished</td>
<td>65</td>
<td>42</td>
<td>59</td>
</tr>
<tr>
<td>Male</td>
<td>26</td>
<td>22</td>
<td>26</td>
</tr>
<tr>
<td>Female</td>
<td>39</td>
<td>20</td>
<td>33</td>
</tr>
<tr>
<td>Caucasian</td>
<td>36</td>
<td>19</td>
<td>25</td>
</tr>
<tr>
<td>Hispanic</td>
<td>7</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Asian</td>
<td>5</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>African American</td>
<td>17</td>
<td>9</td>
<td>21</td>
</tr>
<tr>
<td>Other</td>
<td>0</td>
<td>7</td>
<td>7</td>
</tr>
</tbody>
</table>

Source: United States Army Recruiting Command, Fort Knox, KY, 2003

TABLE 6. ARMY ENLISTED COMMISSION PROGRAM DATA

Despite increased selection of applicants for the AECP from 2000 to 2002, fewer now are starting and finishing the program. 2002 was the first time in three years that members from all ethnic groups participated in the program. Since 2002 most of the trends in each category
remained steady or increased, with the exception of the Hispanic group. Hispanics participation has steadily declined. Even so, Colonel Ann Richardson, Chief Nurse United States Army Recruiting Command, reported a bit of good news: “The word is finally getting out about this great opportunity, 139 soldiers submitted applications for the 2003 AECP Board.” Nurse leaders attribute their recruiting challenges to:

- Lack of incentive programs commensurate with civilian market.
- Increase in recruiting mission without an increase in recruiting force.
- Increase in time to process applicant’s accession packet.
- Lack of marketing and advertising about the programs by recruiters.
- Lack of recruiter penetration of targeted market.
- Shrinking supply of civilian nurse recruits available in the pipeline or in the workforce.

<table>
<thead>
<tr>
<th>Type of RN</th>
<th>Civilian Base Pay without Benefits</th>
<th>Army Base Pay without Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beginning Level</td>
<td>$31,890</td>
<td>$25,171.2</td>
</tr>
<tr>
<td>Mid Level</td>
<td>$54,000</td>
<td>$61,110.0</td>
</tr>
<tr>
<td>Senior Level</td>
<td>$64,360</td>
<td>$72,957.60</td>
</tr>
<tr>
<td>Director of Nursing</td>
<td>$83,000</td>
<td>$87,793.20</td>
</tr>
<tr>
<td>Top Nursing Executive</td>
<td>$115,000</td>
<td>$104,864.4</td>
</tr>
</tbody>
</table>


**TABLE 7. ANNUAL SALARY AND COMPENSATION**

Nurses remain dissatisfied with their incomes and view current salary and benefits as appalling and insulting to the profession. Senator Mikulski of Maryland agrees:

Nurses have sophisticated training and education, and they get skimpy and spartan pay and respect. We need to pay nurses what they deserve. The dedication and devotion shown by countless nurses doesn’t pay the mortgage! And because the best way to recruit more nurses is by having a satisfied nursing workforce that reaches out to a new generation of women and men.
Army nurse salaries compete very favorably with mid through senior level nurse managers in the civilian nursing sector. Pay for Army nurses in 2002 exceeds civilian pay, except for new nurses entering active duty with less than two years of registered nursing work experience at the rank of Second Lieutenant and for the top ranking Army nurse.\textsuperscript{74} Median annual earnings for civilian registered nurses in 2000 range from a low of $31,890 for beginning level nurses to a high of $64,360 for senior level registered nurses.\textsuperscript{75} In 2001, the average annual base salary was $115,000 for top civilian nurse executives.\textsuperscript{76} The top nurse executive in the Army serves at the rank of brigadier general and the base pay in that position is approximately $10,000 less than our civilian counterparts. During a Senate Hearing, Senator Mikulski identified the following demographic and societal factors as primary contributors to the current nursing shortage: \textsuperscript{77}

- Fewer potential registered nurses behind the baby boomer generation.
- More career options for women.
- Aging U.S. labor force.
- Dissatisfaction of registered nurses working in hospitals.

**GENRATIONAL, ETHNIC, AND GENDER DIFFERENCES**

Many legislators are joining nursing organizations in speaking out on the important role nurses have in society. Senator Mikulski’s opening statement to the Subcommittee on Aging offers an excellent example: “Nurses are truly unsung heroes in health care. They are advocates, medical professionals, and healers who fight death and disease and bring compassion to the patient for whom they care. The care they give is high-tech, high touch, and highly skilled.”\textsuperscript{78}

<table>
<thead>
<tr>
<th>Desire for Work</th>
<th>Perception of Hospitals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service-oriented</td>
<td>On strike, laid off, “angels of mercy”</td>
</tr>
<tr>
<td>Anti-institutional</td>
<td>Work in large, cold, unresponsive institutions</td>
</tr>
<tr>
<td>Not hierarchical</td>
<td>Work is stressful, highly structured and “un-fun”</td>
</tr>
<tr>
<td>Flexible, welcoming change</td>
<td>Lacks the high-tech access associated with medicine</td>
</tr>
<tr>
<td>A diverse workforce</td>
<td>Tied to professional career, not open to change</td>
</tr>
<tr>
<td>Using technology</td>
<td></td>
</tr>
<tr>
<td>Developing new skills</td>
<td></td>
</tr>
<tr>
<td>Community work</td>
<td></td>
</tr>
</tbody>
</table>

Source: Center for the Health Professions, University of California, San Francisco, 2001.

**TABLE 8. GENERATION X PERCEPTIONS**
Generation X refers collectively to individuals born between 1961 and 1981. Generation Xers value autonomy, desire independence, and seek temporary agency sponsored work in an attempt to avoid bureaucracies. Generation X’s expectations of the work place and attitudes about hospitals are different from those of the baby boomer generation.\textsuperscript{79}

<table>
<thead>
<tr>
<th>Diversity</th>
<th>U.S. Population</th>
<th>Civilian RNs</th>
<th>Army Population</th>
<th>Army Nurses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caucasian</td>
<td>69.1%</td>
<td>87.7%</td>
<td>60.49</td>
<td>71%</td>
</tr>
<tr>
<td>African American</td>
<td>12.1%</td>
<td>4.9%</td>
<td>26.75</td>
<td>18.0%</td>
</tr>
<tr>
<td>Hispanic</td>
<td>12.5%</td>
<td>2.0%</td>
<td>6.45</td>
<td>6.1%</td>
</tr>
<tr>
<td>Native American</td>
<td>7.0%</td>
<td>0.5%</td>
<td>0.68</td>
<td>0.4%</td>
</tr>
<tr>
<td>Asian Pacific Islander</td>
<td>3.7%</td>
<td>3.7%</td>
<td>2.49</td>
<td>4.2%</td>
</tr>
</tbody>
</table>

\textbf{TABLE 9. ARMY 2002 DEMOGRAPHICS / CIVILIAN 2000 CENSUS DATA.}

The ethnic diversity among minorities in the Army is significantly greater than in the civilian sector. This is probably because of better mechanisms in place to monitor equality in career opportunities. Benefits such as pay, educational opportunities, varied duty assignments, and rank commensurate with other professionals are among the contributing factors.\textsuperscript{80}

The image of nursing among men in the Army is also extremely favorable, contrary to attitudes in the civilian workforce. The percentage of men in the ANC is 36%, compared to 5.6% of the civilian workforce. Twenty-four percent of the men in the ANC have prior military service.\textsuperscript{81} They tend to stay in the military because of the leadership experiences, travel, career opportunities, health care benefits, camaraderie, and emphasis on graduate level education.\textsuperscript{82} Although studies reveal an increase in the number of men entering the profession from 4.9% in 1998 to 6% in 2002, men are leaving the civilian workforce within four years after graduation at approximately a 50% higher rate than women as a result of the numerous issues discussed earlier.\textsuperscript{83}

Despite the increased number of men becoming nurses the civilian sector continues to struggle to attract and retain men and minorities in the inpatient settings.\textsuperscript{84} These shortfalls could possibly be due to stereotypes and stigmas attached to male registered nurses working in the civilian labor force.\textsuperscript{85} A lack of awareness about the nursing profession continues among youth and young adults. Many people still view nurses as sub-serviant to physicians. The six-
year decline (1996-2001) in nurse program enrollment and degree completion seems to indicate the profession has not overcome this unfavorable, false, and grossly distorted image.\textsuperscript{86}

**PROFESSIONAL CAREER OPTIONS**

<table>
<thead>
<tr>
<th>Army Corps</th>
<th>Judge Advocate Corps</th>
<th>Medical Corps</th>
<th>Nurse Corps</th>
<th>Veterinary Corps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Females</td>
<td>13%</td>
<td>24.9%</td>
<td>19%</td>
<td>64%</td>
</tr>
</tbody>
</table>

Source: U. S. Army PERSCOM, Army Nurse Branch, Alexandria, VA 2002

**TABLE 10. FEMALES IN THE AMEDD AS OF OCTOBER 2002**

A major contributor to the current nurse shortage came from the advances made by women in the workforce.\textsuperscript{87} “In the early 1900s nursing was one of the few professions open to and dominated 100 percent by women. Females were discouraged and restricted from competing for other professions.”\textsuperscript{88} In the U.S. in 2000 there were an estimated 2,694,540 registered nurses, 96% of whom were women.\textsuperscript{89} Table 10 illustrates the active duty female population in the six branches of the AMEDD. By comparison, the percentage of women in the ANC is much lower than in the civilian sector.

Today more women are seeking careers in other disciplines. They refuse to be stereotyped and pushed toward a nursing career. For example data published by the American Medical Association reveals that out of 813,770 physicians in the U.S. 24% are female.\textsuperscript{90} Women are increasingly represented in almost all professional schools. Enrollment of women in medical school increased from 9% in 1970 to 44% in 1999. In 1970 women accounted for 10% of the first-year law class, and this rose to 49.4% last fall. And they make up 44% of graduates from the nation’s top law schools. In 1930 less than 1% of veterinary graduates were female; by the 1990s this was greater than 60%. In 1970 only 5% of dental school classes were female; in 1999 it was up to 37.6%.

**AGING LABOR FORCE**

As a result of an aging nurse workforce, many Army nurse applicants are over 40 years of age. “For the first time in the history of nursing, nurses are retiring at a faster rate than new nurses are moving into the profession.”\textsuperscript{91} The National Sample Survey of Registered Nurses indicates that “only 31% of the working nurse population is less than age 40 and 10% is younger than age 30. Most civilian nurses retire from the profession at 49. The average age of the working nurse is 45.2 years and by 2010 it will be 50 years.”\textsuperscript{92}
In the civilian community the nursing profession offers three creative ways for students to complete entry level registered nurse education requirements. Based on their personal and professional needs and goals, students have the option of successfully completing a diploma, associate degree, or baccalaureate program. The Associates Degree Program is a two year course of instruction offered at community colleges. The nursing curriculum provides for basic clinical skills but does not prepare associates degree nurses for leadership, administrative, and advanced practice roles. Hospital based three-year diploma programs are declining in number throughout the country. These graduates usually practice in the hospital setting. The Bachelor’s of Science Degree in Nursing is university based and takes four to five years to complete. Basic nursing education has shifted to college and university programs. Most nurses want to continue their education and expect employers to provide assistance in achieving this professional career goal as a contribution to the organization. Approximately 71.6% of associate degree graduates and 59.9% diploma graduates go on to obtain a bachelor’s degree. Health care providers understand that educational preparation at the baccalaureate level is essential to serve the complex health care needs of patients in a variety of traditional and non-traditional settings.

A bachelor’s degree in nursing prepares for a broader spectrum of scientific, critical thinking, humanistic, communication, and leadership skills not typical in diploma and associate programs. These abilities are essential for today’s nurse who must be a skilled provider, designer, manager, and coordinator of care. Some career paths, such as administration, are open only to nurses with bachelors or advanced degrees. A bachelor’s degree is a prerequisite for admission to graduate nursing programs in research, consulting, teaching, or clinical specialization. By 2010 the National Advisory Council on Nurse Education and Practice believes the workforce will need educational preparation at the bachelor’s or master’s degree levels.
In spite of these three educational entry tracks the shortage of registered nurses in the inpatient setting continues to increase.

**PATHWAY TO AN ARMY NURSE CAREER**

Unlike the civilian sector, in accordance with AR 135-101, para 2-3, nurse applicants must be U. S. citizens to serve in the Army. The nurse force currently consists of approximately 60% active duty nurse officers and 40% Department of the Army civilians. It is an elite Corps of nurse professionals with robust higher education credentials. In the Army 100% of active duty nurses are prepared at the baccalaureate level. Fifty five percent have a least one master’s degree, and 13 % have doctoral degrees. On the other hand, substantially fewer civilian nurses have advanced degrees.

The Bachelor of Science degree is the entry level degree for accession on active duty into the ANC. Candidates enter the ANC through ROTC, USAREC as a direct commission, and the AECP. The ROTC population of interest to the ANC is usually the freshman through junior level student enrolled in nursing school. United States Army Recruiting Command directly commissions nurses prior to their 47th birthday. Nursing students in their senior year of college, new graduates, or the working nurse are all targeted for recruitment. The Army Enlisted Commissioning Program affords up to 75 active duty enlisted soldiers per year the opportunity to earn their Bachelor of Science Degree in Nursing. They are required to complete their degree within 24 months in fulltime student status. During this time soldiers receive a scholarship, full pay, and benefits.

**FEWER POTENTIAL NURSES**

The Army prefers nurses to enter the ANC after successful completion of the ROTC program. These nurse officers are younger and transition more quickly from the university campus to the Army culture with the benefit of ROTC training. But as enrollment in nursing programs on college campuses continues to decline, so do the ROTC nurse recruitment numbers and requests for ROTC scholarships.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Losses</td>
<td>753</td>
<td>512</td>
<td>329</td>
<td>341</td>
<td>335</td>
</tr>
<tr>
<td>End Strength</td>
<td>3540</td>
<td>3344</td>
<td>3332</td>
<td>3307</td>
<td>3271</td>
</tr>
<tr>
<td>Attrition Rate</td>
<td>21.3%</td>
<td>15.3%</td>
<td>9.9%</td>
<td>10.3%</td>
<td>10.2%</td>
</tr>
</tbody>
</table>

Source: ANC Personnel Proponent Branch, San Antonio, TX, 2002

**TABLE 12. ANC ATTRITION RATES FROM 1997 TO 2001**
In 1997, the Army downsized its force, including members of the ANC to meet the budgeted end strength. The ANC has not recovered from the departure of many well qualified junior level nurse officers. Many of the nurses eliminated from the ANC fled to the other services. The significantly higher spike of fifty percent attrition in 1997 displayed in Table 12 was a result of mandatory force reduction. In comparison in the early 1990s, nurses in the civilian sector had a similar traumatic experience due to layoffs as a result rejuvenation of Health Maintenance Organizations and Managed Care Systems.

The ROTC accession rate was decreased in 1997 by design: “There was a push to slow down on nurse recruitment because the production models were projecting that ROTC would overproduce in the out years, 1999-2001. The de-emphasis on nurse recruitment has resulted in a great deal of effort to overturn this decline.” This situation coupled with the fact that there are roughly 21,000 fewer nursing students explains the ROTC challenge.

The shortage of nurses has been accompanied by a reduction in faculty to teach the students. Since 1997, there has been “a 23% decline in the number of bachelor of science degrees awarded in nursing accompanied by a 9.5% reduction in program enrollment.” According to Ada Sue Hinshaw, Dean at the University Of Michigan School Of Nursing, these two variables have a co-dependency relationship--each intensifies the other. The shortage of nursing faculty is believed to be due to “budget constraints, departure of an aging faculty, a dwindling supply of nurse educators coming through the system, and increased job competition enticing nursing faculty away from the academic environment.”

In 2001 a study of the Southern Regional Educational Board Council on Collegiate Education for Nursing revealed that 86% of the institutions surveyed had vacant faculty positions, 18% reported insufficient staff to teach undergraduate and graduate programs, and more than 500 faculty members were expected to resign in the coming two years. This shortage of faculty imposes significant constraints on student enrollments, impacts on contributions to the body of scientific nursing knowledge, and reduces the level of nurse participation in strategic leadership roles. Last year over 5,800 qualified applicants were not admitted to nursing programs due to the lack of faculty, an inadequate number of facilities for didactic and clinical rotations, budgetary constraints and insufficient clinical preceptors.

CONCLUSION
If we engage in an armed conflict of a serious magnitude, the research suggests that there will not be enough nurses available to care for the troops. Coupled with civilian facilities’
downsizing and staffing challenges, there is some doubt that the Army has a safety net to fall back on. The nurse shortage is a reality; the safety and well-being of our soldiers on the battlefield is at risk if they are evacuated to facilities where there are an insufficient number of nurses with the proper skills to insure safe patient outcomes. The reasons for the nursing shortage must be thoroughly examined; appropriate organizations must make cultural and policy changes to meet the needs of their valued employees. Creative and prudent risk-taking strategies must be tried. Neither our nation nor the Army can afford to ignore this problem for another 12 years. The second-and third-order effects of the nursing shortage will be catastrophic for the Army family if we fail to get the support required to recruit and retain nurses. An insufficient inventory of active duty Army nurses for prolonged periods will jeopardize not only access to health care abroad and at home. It will also adversely affect the ANC as a partner in transformation of the AMEDD.

**RECOMMENDATIONS FOR ARMY NURSE CORPS**

The data presented in this study strongly support an immediate need to change our policies and incentives to serve the needs of Army Nurses. These initiatives must stimulate recruitment and retention of quality nurses and eventually end the Army’s shortage of nurses, independent of the shortage of civilian nurses:

- **Signing Bonuses, incentive pay, and loan forgiveness:** Increase Army nurse accession bonus from $5,000 to $15,000 in return for a three year active-duty service obligation. This will enable the Army to compete on equal footing with the civilian nurse recruiting market. Concurrently, provide all active-duty Army nurses’ incentive pay and offer Army nurses education loan repayments in return for additional active duty service obligation based on the amount of the loan. Better pay and benefits and improved patient care were cited as the top priority for nurses and unions.\(^{109}\)
- **Finder’s Fee:** Offer staff members a finder’s fee for every nurse that is commissioned on active duty in the Army Nurse Corps.
- **Local Support Services:** Sponsor child care services at worksites for shift workers.
- **Recruiter Incentives:** Reward Army recruiters with extra pay for exceeding their nurse accession mission. Bonuses should be comparable to those granted to civilian recruiters working for outsourcing agencies (like MPRI and RCI). Recruiters should receive approximately $1,000 for commissioning nurses in hard-to-find critical specialty areas.
• Extended Tour Lengths: Offer optional tour lengths up to ten years in certain locations based on the needs of the soldiers and the Army. This may be more feasible with the ongoing base realignment and closures of Army Medical Treatment facilities.

• Magnet Status: Although it is extremely difficult to obtain Magnet status, encourage and reward hospital leaders that do. Magnet hospitals have a reputation for attracting and retaining quality nurses by transforming the nurses' workplace to a more pleasant and productive environment. "Historically, magnet hospitals have demonstrated improved patient outcomes, staff satisfaction, and the ability to attract and retain professional nurses."\(^{10}\)

• TriService Nursing Program: Initiate a triservice military undergraduate nursing expand graduate programs currently offered at USUHS to include all graduate level nursing specialties. By having this program will enhance our capability to maintain accession numbers at authorized end strength.\(^{11}\)

• New Career Track: Establish a teaching career track for Army Nurses prepared at the master's and doctorate levels. Groom these nurses to teach in military undergraduate, such as the triservice program proposed above, graduate and post graduate nursing programs. This initiative complements the efforts of the civilian sector to attract and educated individuals starting at the BSN level. Also, it offers another source for nurse recruitment and retention since the civilian sector is challenged with producing more nurses in the face of a nurse faculty shortage and the ability to accept quality nurse applicants. In 2001, five thousand quality nurse applicants were turned away from nursing programs due to insufficient faculty and space.

• Marketing: Conduct an aggressive Army Nurse campaign marketing what Army Nurses do, their career opportunities, and their reasons for staying in the Army.

• Mentorship: Sponsor local intensive middle managers training. Focus training on teaching head nurses how to mentor their staff and manage their resources.

WORD COUNT =8,404
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