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14. ABSTRACT This is the second annual report for Collaboration Around Research and Education (CARE) in Prostate Cancer, a partnership between two universities, Duke University School of Nursing and Bennett College for Women (Bennett), an historically black college or university (HBCU). We are continuing in a successful endeavor to bring together students and faculty mentors to facilitate opportunities for underrepresented minority students to learn about prostate cancer research. To accomplish this goal, we have capitalized on the strengths of both universities to conduct a 10-week in residence didactic and hands-on training program to expose undergraduate students to prostate cancer prevention, detection and control, and basic science and clinical research. The objectives of the CARE program are to provide undergraduate nursing students with mentored experiential learning to (1) understand the burden of prostate cancer; (2) develop a beginning level of competence in technology resources for information gathering and data management in prostate cancer research; (3) obtain introductory knowledge about the research process (4) gain hands-on experience in clinical and basic science laboratory methods and research processes, and begin to understand community-based prostate cancer control activities; and (5) experience role model development for research and healthcare practice careers, and begin to build networks with researchers and health professionals in a Research I environment. Four undergraduate students participated in this 10-week prostate cancer research mentored experience in this second year.					
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Introduction

This is the second year progress report for Award W81XWH-05-1-0209. The report provides a summary of the program, followed by a report of Statement of Work.

CARE is a partnership funded by the United States Department of Defense between two academic programs, Duke University School of Nursing and Bennett College for Women (Bennett), an historically black college or university (HBCU). We are continuing our goal to build a collaborative relationship between Duke University and Bennett to bring together students and faculty mentors to facilitate opportunities for underrepresented minority students to learn about prostate cancer. Recruitment for CARE was conducted by Bennett in the fall semester (2007) to sophomore students who have identified a science major. Dr. Sekara R. Basavaraju (*Dr. Rao*), Bennett College for Women, was the faculty adviser and mentor responsible for the program on the Bennett campus. He retired June 30, 2008. Dr. Michael Cotton, PhD assumed the role of faculty adviser on July 1, 2008. In Spring 2008 applications were accepted by Dr. Rao from a large pool of students who had a 3.0 grade point average and interest in the program. From 10 applications, students were interviewed and pre-selected by Dr. Rao and members of the Biology department, followed by final interview and selection by Dr. Marva Price, DrPH, RN, Duke. Dr. Price matched students with faculty mentor's interests at Duke. Following the summer internship, selected students continued to maintain regular contact with Dr. Rao during the fall semester and periodic contact during the remaining semesters. Overall GPA was reported to Dr. Price at Duke for the fall and semester, and will be reported to Dr. Price annually through the students graduation.

The students engaged in a one time concentrated mentored 10-week summer experience at Duke University School of Nursing. In addition to the summer concentration in research, an intent of this program is to provide continued academic support to facilitate student success on to successful graduation and graduate or professional education in a science, medical, or health science career. The 10-week summer program included didactic, observational, and experiential training and education. Mentoring for psychosocial support, academic success and career development, and role modeling were provided to the students by Dr. Price, the mentors, and other faculty and medical, resident, and graduate students.

PROGRAM GOALS

This program seeks to provide students from a minority liberal arts college setting with mentored experiential learning to:

(1) Understand prostate cancer disease.

In weekly seminars, students read and discussed research literature from various scientific journals related to prostate cancer research across a number of disciplines, but also research related to development of their project. The students prepared abstracts, PowerPoint presentations, and posters for their final day presentation and for future conferences.

(2) Develop a beginning level of competence in technological resources for information gathering and data management in prostate cancer research, and writing about and presenting the research.

Students participated in writing activities during the summer that focused on understanding how to read scientific journal articles and how to write about their research experiences. Students were tutored by a medical center librarian to learn computer-based literature searches which were necessary for their prostate cancer summer project development. Students were taught the use PowerPoint presentation software, and data management software, such as Excel and SPSS, for organizing and presenting prostate cancer screening data.

(3) Acquire an introduction to the research process through a mentored independent research project addressing an aspect of prostate cancer control, work with the mentors prostate cancer programs of research, and observations and interactions with other research faculty in the research institution. Students observed an institutional review board meeting and the role of clinical trials in cancer treatment. Program mentors have ongoing prostate cancer research. Project staff and individual mentors will assist students in developing and refining a research question, and determining a manageable scope for the mentee's individual research project.

Students will observe institutional review board meetings and the role of clinical trials in cancer treatment.

Students will meet together in weekly lunch time seminar to facilitate internship activities outside of the mentor-mentee research focus.

(4) Gained hands-on experience in community-based prostate cancer screening and detection activities.

Students worked with the Duke University Medical Center's Division of Urology, to conduct the annual free prostate cancer screening clinics during September 2008.

(5) Experience role model development for research and healthcare practice careers, and begin to build networks with researchers and health professionals in a Research I environment.

On-site interaction with research faculty and consultant mentors in the host institution. Interaction and networking with peer scholars and faculty at urology grand rounds and conferences. During the academic year, students presented their research on the home campus to the full student body during a weekly research seminar. Students also presented their research at various national conferences. Students attended the one-day University of North Carolina Minority Health Conference, February 2008, where poster display by students and oral presentations by professionals highlighted the health of minorities including prostate cancer.

Program Design: This intense summer program is based on concentrated one-to-one mentoring of biology students by mentors, with didactic, observational, and basic science and clinical experiential training in prostate cancer education and research. Mentoring for psychosocial support, academic success and career development, and role modeling are strong features of this program.

Body

In our second program year, four students and two alternates were selected for the PRIME program from a pool of 10 applicants (all females as Bennett College for Women has no male students). The four students who were selected were completing their sophomore year. Two alternates were selected. Scientific faculty mentors with prostate cancer related research were recruited from among Duke University Medical Center's Research 1 environment. Three faculty volunteered as mentors and were matched to students. One of the faculty provided mentorship to three students, and two other faculty mentored one student together.

Three Duke University Medical Center faculty served as mentors:

- o Stephen Freedland, MD
Associate Professor of Urology and Pathology
Division of Urology, Dept of Surgery
Three students
- o Thomas J. Polascik, M.D, F.A.C.S
Associate Professor, Division of Urology, Dept of Surgery
Two students

All mentoring faculty are members of the Duke University Medical Center Cancer Prevention and Control Program.

During the 10 weeks, the following activities occurred:

- o Duke University identification badges and parking permits secured; tour of the Duke University campus, medical center, and nursing school.
 - o Tour of the medical center library.
 - o Completion of two Safety, three HIPPA and three Institutional Review Board (IRB) tutorial education modules prior to access to mentors' databases. Three IRB tutorial modules and the post-test for each. The following two modules were required:
 - o Protecting Research Subjects
 - o What Counts As Research with Human Subjects
- The third required module could be selected from among the following:
- o Informed Consent for Research
 - o Protecting the Confidentiality and Privacy of Research Participants
 - o Research in Emergency Settings
 - o Social Science Research in a Medical Setting
 - o Using Databases in Research

As many as ten additional laboratory modules were required before starting basic laboratory experiences, depending on the labs a student would have access.

- o Library hands-on session on conducting searches of the scientific journal databases. Students learned to conduct searches related to their selected project. The projects were based on the work of their mentors.
- o Instruction and practice sessions on how to read and understand research literature.
- o Weekly two hour seminars for instruction on writing a research abstract in preparatory for writing an abstract for their own work. With guidance from their mentors, students selected a research project based on the work of their mentor. The seminar sessions also were used for trouble shooting professionalism issues such as student-mentor communication, time management, preparation of power point slides.
- o Hands-on instruction in computer programs: Excel, PowerPoint, and SPSS.
- o Direct mentorship by the faculty mentor over the 10 weeks. This included basic science laboratory procedures and experiments, data entry, and literature searches. The students shadowed for select sessions each week in the urology clinic; multidisciplinary prostate clinic and the radiation oncology clinic where surgeons, radiologists, medical oncologists, and other cancer specialist meet together with the patient to discuss the treatment plan; observation in a urology clinic and radiation oncology clinic observing work ups and treatment with patients during and after diagnosis for prostate cancer and other urologic disorders; and several theater observations of surgeries with students partnered with a urology fellow to interpret the surgical processes.
- o Students attended one Duke University Medical Center Institutional Review Board (IRB) meeting to observe a team of medical center IRB members present and evaluate new and renewal study proposals.
- o Final day PowerPoint presentation on each student's project. These were presented to an assembly of mentors, host and home faculty, family members, and friends, followed by a reception in celebration of the students' program achievements. Certificates of participation were presented to each of the students.
- o At the end of the program, a paper-pencil evaluation was completed by each student; and a face-to-face interview was conducted with each mentor. Feedback from these two evaluations was used in preparation for the subsequent summer.
- o September 2008, gained hands-on experience in community-based prostate cancer control activities in Durham, NC. The students assisted with the registration,

clinic flow, and consenting process in three day-long prostate cancer screening clinics.

- o All four students attended the one-day 29th Annual Minority Health Conference sponsored by the University of North Carolina School of Public Health, Minority Health Caucus, Chapel Hill, N.C., February 28, 2009. In addition to attending the scientific presentations and breakout sessions, students networked with graduate faculty, and graduate students from various graduate and professional programs across the United States.

Statement of Work

Years 2

Task 1: Bennett College: Plan for marketing CARE program to Bennett Biology majors and students with sufficient science courses needed to participate in the program

Months 1-3 (*January, February, March*)

- a. Developed recruitment, application, and interview process.
- b. Minimal qualifications: minority student, student availability for summer program, quality of the program interest essay, and 3.0 minimal Grade Point Average (GPA). From the applicant pool, eight students were selected preliminary. The final selection included the four top applicants with two remaining as alternates. One alternate was selected in the end to complete the pool of four students.
- c. Interviews conducted by the Duke Program Director and Bennett Faculty Adviser.
- d. Payroll process initiated with Bennett for summer stipends to be direct deposited in the students' personal checking accounts on a biweekly basis.
- e. Planned monthly mentoring contact schedule with Dr. Cotton who replaced Dr. Rao upon Dr. Rao's retirement. Dr. Cotton maintained mentoring session with students at least once each month during each semester.

Task 2: Months 4-5 (*April, May*)

- a. Bennett: Planned ongoing Bennett mentoring schedule.
- b. Bennett: Checked end of year GPAs for applicants.
- c. DUKE: Met with mentors to refine schedule for 10-week summer program

Task 3: DUKE: Months 5-9 (*May, June, July, August, September*)

- a. Conducted 10-week summer program (*May, June, July*).
- b. Abstract and PowerPoint preparations ongoing through the 10 weeks.
- c. Sought opportunities for ongoing grand rounds, medical center and nursing seminars and presentations, workshop, and seminar opportunities for student attendance.
- d. Ongoing meetings held with grant staff (research assistant and PhD consultant).
- e. Conducted evaluation and wrap-up with students and mentors.
- f. Mentor and student evaluations.

- g. P.I.: Year 2- worked with the home school faculty adviser (Dr. Cotton) to seek presentation and paper opportunities for students during the 2008-2009 academic year

Task 4: Bennett: (September) Coordinate student volunteer activity for September prostate cancer education month. Students participated in three half-day screening clinics in Durham.

Task 5: Months 10-12 (October, November, December)

- a. Bennett: Check GPA at the end of fall semester-need to maintain 3.0 overall GPA throughout project. Students maintained their GPAs successfully.
- b. Bennett: Year 2 - Facilitate registration for the University of North Carolina Minority Health Conference for February 2009; four students and Dr. Cotton - their faculty adviser for this program attended.
- c. Year 2 – prepare registration for the biennial Intercultural Cancer Conference (ICC) participation for April 3-6, 2008. Student Rachael Williams was selected to attend based on her ability to be away from classes, and her strength in competitive presentation ability. Student presentations at the conference are juried.
- d. Bennett: Facilitate continued monthly mentorship.

Task 6: DUKE: Overall program evaluation and submission to DoD
Month 12

Task 7: Bennett: Preparation for poster presentations at Minority Health Conference, University of North Carolina, Chapel Hill

Task 8: DUKE: Department of Defense annual program evaluation
Month: February 2009

Key Research Accomplishments:

The students developed abstracts based on their summer research and made oral presentations at the School of Nursing for the final day of the summer program:

- o Tiffany Johnson, rising junior, under the mentorship of basic science research mentor Stephen J. Freedland, MD, Division of Urologic Surgery, Dept of Surgery, Duke Prostate Center, “The Effects of Resveratrol on Prostate Cancer Growth”
- o Desann Maul, rising junior, under the mentorship of basic science research mentor Stephen J. Freedland, MD, Division of Urologic Surgery, Dept of Surgery, Duke Prostate Center, “Urinary Function: A comparative analysis of urinary symptom severity in patients with and without prostate cancer”

- o Prestina Smith, rising senior, under the mentorship of clinical science research mentor Leon Sun, MD, PhD, Division of Urologic Surgery, Dept of Surgery, Duke Prostate Center, “Sun Exposure and Prostate Cancer: An Investigation”
- o Jessica Terry, rising junior, under the mentorship of clinical and basic science research mentors Thomas J. Polascik, MD, FACS and Vladimir Mouraviev, MD, PhD, Division of Urologic Surgery, Dept of Surgery, Duke Prostate Center, “The Complication Rate of 3rd Generation Cryosurgical Ablation of the Prostate”

Reportable Outcomes:

Successful completion of the summer program for four students; students prepared abstracts based on their summer laboratory experiences and gave podium presentations over the course of the summer and academic year. Students maintained a minimum of a 3.0 GPA and are continuing in their respective pre-med majors with high interest in medical school or other graduate and professional science and research programs.

Prestina Smith, “Sun Exposure and Prostate Cancer: An Investigation”. North Carolina Alliance to Create Opportunity through Education (NC OPT-ED) Alliance Day, Greensboro, North Carolina, September 26, 2008.

Jessica Terry, “The Complication Rate of 3rd Generation Cryosurgical Ablation of the Prostate”. Historically Black Colleges and Universities Undergraduate Program (HBCU-UP) National Research Conference, Atlanta, Georgia, October 23-26, 2008.

Terry, J., Polascik, T., Mouraviev, V., & Price, M. (2008, November). The Complication Rate of Third Generation Cryosurgical Ablation of the Prostate. Paper presented at the Joint Meeting of the 19th Annual Argonne Symposium for Undergraduates in Science, Engineering and Mathematics. Computer Information Science & Engineering (Cise) Education, Stakeholder's Summit and the Central States Universities Incorporated (Csui). Argonne National Laboratory Aps Conference Center, Argonne, Il. Oral abstract # 124.

Accomplishments from the former Year 1 cohort:

Year 1 student abstract submissions which were accepted for presentation during Year 2 were:

Rachael Williams, Florian R. Schroeck, Kadi-Ann N. Bryan , Marva Price, Leon Sun, and Judd W. Moul. “Clinical and Pathological Variables: Predictors of PSA Recurrence after Radical Prostatectomy”. 9th Annual Surgical Urologic Oncology Meeting, Natcher Conference Center, National Institutes of Health, Bethesda, December 4-5, 2008.

Bryan, KA.N., Florian, S.R., **Willams, R.**, Price, M., Sun, L., and Moul, J.W. “Independent predictors for PSA recurrence after radical prostatectomy: Gleason score 3+4 versus 4+3 and percent tumor involvement”. Podium presentation, Southeastern Section American Urological Association 72nd Annual Meeting, San Diego, March 2008.

Cymara Tolbert-Warren, Cooper Buschemeyer, Joseph Klink, John Mavropoulos, Lionel Banez, Jay Jaychadran, Tracy Johnson, Susan Poulton, Stephen Hursting, Marva Price, and

Stephen Freedland. "Effect of Intermittent Caloric Restriction on Prostate Cancer Growth and Survival in Mice". Duke University Medical Center Annual Cancer Symposium, Durham, March 12, 2008.

Williams, R., Schroeck, F.R., Bryan, K.A. N., Price, M., Sun, L., and Moul, J.W. (2008, April). "Clinical and Pathological Variables: Predictors of PSA Recurrence after Radical Prostatectomy". Intercultural Cancer Conference, Baylor University, held in Washington, DC.

Koontz, B. F., **Wright, T.**, Price, M., Polascik, T. J., Mayes, J. M., Wong, T. Z., Madden, J., & Mouraviev, V. (2008, May). "Indium Capromab Pendetide Scintigraphic Imaging prior to Surgical Management of Prostate Cancer". Poster presentation, American Urological Association Annual Meeting, Orlando, Fl. May 17-22, 2008. Tracking Number: 08-AB-95342-AUA.

Conclusions

Program Evaluation:

Year 2 of this program was highly successful. Four African-American students from a small private HBCU, with a student population less than 300 students, had a beginning level of learning experience in basic and clinical prostate cancer research. Students evaluation feedback indicated that they had been well-exposed to laboratory and clinical research, an area they had not been involved in before. They felt that they found a whole new body of knowledge from their mentors. Further, parts of their mentored experience will be applicable in improving their understanding of research in their academic programs and future scientific careers.

These students were engaged in a concentrated 10-week mentored summer research program. All of the students were at similar levels of unexposure to cancer research and all had the course work and academic background to gain a great deal from the internship. Two of the students had participated in summer research programs that did not involve cancer. Understanding the prostate function, disease state, and prostate cancer research activities were new for the participants. Thus, this program was able to provide a learning experience and address student needs that may not be addressed elsewhere or at any other time in their academic career. Furthermore, we were very successful in meeting the proposed goals of the program and in some areas even reaching beyond our predetermined expectations, particularly with the amount of materials on the prostate and research that the students were able to learn and understand, along with their individual project development which resulted in abstract submissions for conferences. During their final presentations students addressed an audience of approximately 80 Duke faculty including their urology mentors and their fellows and urology office staff, other medical center physicians, alumni from Bennett College and family members. The students engaged in a discussion of the complex physiology, basic science, clinical applications, research methodology, and prostate cancer prevention and control.

Unexpected Difficulties Encountered:

Moving students from small campuses to major university settings and complex and sophisticated laboratories and resources can produce undue stress and anxiety in the first few weeks on campus. This resulted in unexpected tension in the first month of this group of students. A meeting was held with the Bennett College Provost, Dr. Price, the students, and a Duke University resident life counselor. An agreement between all entities resulted in campus counseling resources being made available and successfully used by the students the remaining six weeks of the program.

So What

We believe that we have an excellent undergraduate research training model for collaboration between a small private liberal arts HBCU, but also strong in its science majors. We have a program that has proven to be exemplary, and we seek to continue to offer a high level of mentorship in the coming summer and final year of this grant, and to foster students in seeking graduate and professional school admission, and commitment to cancer research.

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- Whittemore, A.S., Kolonel, L.N., Wu, A.H., John, E.M., Gallagher, R.P., Howe, G.R., Burch, J.D., Hankin, J., Dreon, D.M., West, D.W., et al. (2005). Prostate cancer in relation to diet, physical activity, and body size in blacks, whites, and Asians in the United States and Canada. *J Natl Cancer Inst*. 87: 652-661.
- Young, A.M. & Perrewe, P.L. (2000). The exchange relationship between mentors and protégés: The development of a framework. *Human Resource Management Review*, 10 (2), 177-209.

Appendices

- o PI Curriculum Vitae
- o Meeting Abstracts
- o Study Personnel
- o PI Contact Information

DUKE UNIVERSITY MEDICAL CENTER
CURRICULUM VITAE

Marva L. Mizell Price, DrPH, MPH, APRN-BC (FNP), FAANP, FAAN

Office Phone: 919-684-9381

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Email: marva.price@duke.edu

Present academic rank/title: Assistant Professor, Duke University School of Nursing, Durham, NC 1996-present

Faculty, FNP Master of Science Program

North Carolina Registered Nurse Licensure August 1972 - November 2009

Specialty certification(s) and dates (Month/Day/Year):

St. Margaret's Hospital, Boston: Natural Family Planning Instructor, 1988.

American Nurses Credentialing Center (ANCC): Family Nurse Practitioner, recertified March 2007.

North Carolina Medical Board of Nursing: Family Nurse Practitioner, Initial Approval 11/ 1974;

Last Reapproved 11/2008.

Date of birth: 11-25

Place: Columbia, North Carolina USA

Education	Institution	Date (Year)	Degree
High School	Tyrrell High School Columbia, NC	1968 _____	Diploma _____
College	School of Nursing North Carolina Agricultural & Technical State University Greensboro, NC	1972	Bachelor of Science in Nursing (B.S.N.)
Graduate or Professional School	School of Public Health, Department of Maternal and Child Health, University of North Carolina, Chapel Hill, NC	1974	Master of Public Health (M.P.H.) in Maternal Child Health
	School of Nursing	1974	Family Nurse Practitioner

University of North Carolina, Chapel Hill, NC		Certificate
School of Nursing University of Washington, Seattle, WA Child Development and Mental Retardation Center	1979	Post-Masters Certificate in Developmental Pediatrics
School of Nursing Emory University Atlanta, GA Regional Training Center for Family Planning	1983	Contraception for the Family/Adult Nurse Practitioner 80 hour course
School of Public Health, Department of Maternal and Child Health and Program in Public Health Leadership, University of North Carolina, Chapel Hill, NC	1997	Doctor of Public Health (DrPH) in Maternal and Child Health and Public Health Leadership
	1995-1997	Pre-doctoral Fellow, Cancer Prevention and Detection, University of North Carolina Lineberger Comprehensive Cancer Center, Chapel Hill

Scholarly Societies:

1973	Inducted, Delta Omega Honor Society in Public Health
1974	Inducted, Sigma Theta Tau, Alpha Alpha Chapter, University of North Carolina, International Honor Society in Nursing
1978-1980	Junior and Senior student counselor
1996	Charter Member, Sigma Theta Tau, Mu Tau Chapter, North Carolina Agricultural and Technical University, International Honor Society in Nursing
2002	Inducted, Fellow of the American Academy of Nursing
2007	Inducted, Fellow of the American Academy of Nurse Practitioners

Professional training and academic career:

<u>Institution</u>	<u>Position/Title</u>	<u>Date</u>
Post-Baccalaureate:		
Annie Penn Memorial Hospital Reidsville, NC	Registered Nurse Rotated on all services in a 120 bed community hospital (Medical/surgical, ER, Delivery Room, Pediatrics, Recovery Room)	1972-1974
Post-Master's:		
University of North Carolina, School of Public Health, Department of Public Health Nursing for Orange Chatham Comprehensive Health Services, Chapel Hill, NC	Family Nurse Practitioner	1973-1974
University of North Carolina Employees Health Services, Chapel Hill, NC	Family Nurse Practitioner	1974-1976
University of North Carolina, Chapel Hill, NC Division for Disorders of Development and Learning (currently Center for Development and Learning)	Family Nurse Practitioner	1976-1982

State of North Carolina Department of Health and Human Services, Winston Salem, NC & Raleigh, NC	Family Nurse Practitioner and Nursing Consultant, Family Planning and Women's Health, Division of Maternal Child Health	1982-1991
Duke University Medical Center, Durham, NC Department of Obstetrics and Gynecology, Division of GYN Oncology	Family Nurse Practitioner and Program Coordinator, Women's Cancer Screening Program & Cervical Dysplasia Private Clinic	1991-1994
Chatham County Health Department Pittsboro, NC	Interim Health Director, Chief Executive Officer	1992
Kaiser Permanente Durham-Chapel Hill Office, NC	Family Nurse Practitioner	1994
Randolph County Health Department, Family Planning Clinic, Asheboro, NC	Family Nurse Practitioner	1996
Post-Doctorate:		
Duke University School of Nursing, Durham, NC	Assistant Clinical Professor Assistant Professor	1996-2001 2001-present
Family Nurse Practitioner Program Program/Specialty Director		May 2002-2007

Publications:

**1. Refereed journals:
Published**

1.	Price, M.M. (1980). Critique of the Milani-Comparetti Motor Development Screening Test. <u>Physical And Occupational Therapy In Pediatrics</u> , 1 (1), 59-68.
2.	Smith, E.M., Phillips, J.M., & Price, M.M. (2001). Screening and early detection among ethnic minority women. <u>Seminars in Oncology Nursing</u> , 17 (3), 159-170.
3.	Van Buren, K.G. & Price, M.M. (2002). Recognizing Obstructive Sleep Apnea in Children. <u>The American Journal for Nurse Practitioners</u> , 6(7), 9-17.
4.	Brown, S.M. & Price, M.M. (2003). Man with swollen lips and tongue. <u>Clinician Reviews</u> , 13 (4): 81-86. (<i>Ace-Inhibitors for Hypertension</i>)
5.	National Organization of Nurse Practitioner Faculties (NONPF) Practice Doctorate Task Force: Marion, L., Viens, D., O'Sullivan, A.L., Crabtree, K., Fontana, S. Price, M. (2003). The Practice Doctorate in Nursing: Future or Fringe? NONPF Practice Doctorate Task Force. <u>Medscape</u> . Topics in Advanced Practice Nursing eJournal 3 (2), 2003. © 2003 Medscape.
6.	Marion, L., O'Sullivan, A.L. Crabtree, M.K., Price, M. Fontana, S. (2005). Curriculum Models For The Practice Doctorates In Nursing. <u>Medscape</u> . Topics in Advanced Practice Nursing eJournal 5 (1), 2005. © 2005 Medscape.
7.	Price, M.M. , Hamilton, R.J., Robertson, C.N., Butts, M.C., Freedland, S.J. (2008). Body Mass Index, Prostate-Specific Antigen, and Digital Rectal Examination Findings Among Participants in a Prostate Cancer Screening Clinic. <u>Urology</u> . 2008 May; 71(5):787-91. Epub 2008 Feb 11. PMID: 18267334.
8.	Schroeck, F.R., Krupski, T. L., Sun, L., Albala, D.M., Price, M. M. , Polascik T.J., Robertson, C.N. Robertson, Tewari, A.K, and Moul, J.W. "Satisfaction and Regret after Open Retropubic or Robot-Assisted Laparoscopic Radical Prostatectomy". <u>Urology</u> . 2008 Oct; 54(4):785-93. Epub 2008 Jun 23. PMID: 18585849.

**2. Non-refereed publications:
Published**

1.	Price, M.M. (1980). Why do they suck their thumbs? <u>Baby Talk</u> , 46 (5), 28-29.
2.	Price, M.M. (1982), Thumbsucking, <u>Pediatric Currents</u> , 31 (1).
3.	Price, M.M. (1985, April 7; 1980, October 5). Thumb, finger sucking common behavior in caring for kids, <u>Chapel Hill Newspaper</u> .
4.	Price, M.M. (1986). Nurse practitioners are also caught in national malpractice insurance crunch,

	<u>Contraceptive Technology Update</u> , American Health Consultants, Atlanta, 7 (11), 138-139.
5.	Price, M.M. (1987). OC user's recurrent candidiasis may require multiple treatment strategies, <u>Contraceptive Technology Update</u> , American Health Consultants, Atlanta, 8 (1), 9-11.
6.	Price, M.M. (1987). Nurse practitioner has complex role in managing high-cholesterol patients, <u>Contraceptive Technology Update</u> , American Health Consultants, Atlanta, 8 (4), 49-50.
7.	Price, M.M. (1987). Help long-term OC users manage healthy, gradual return to fertility, <u>Contraceptive Technology Update</u> , American Health Consultants, Atlanta, 8 (6), 82-83.
8.	Price, M.M. (1987). Try varied approaches to encourage our OC patients to stop smoking, <u>Contraceptive Technology Update</u> , American Health Consultants, Atlanta, 8 (8), 101-103.
9.	Price, M.M. (1987). North Carolina's NFP initiative is effective and well received, <u>Contraceptive Technology Update</u> , American Health Consultants, Atlanta, 8 (10), 133-134.
10.	Price, M.M. (1987). Physically, mentally disabled teens require special contraceptive care, <u>Contraceptive Technology Update</u> , American Health Consultants, Atlanta, 8 (12), 154-156.
11.	Price M.M. (1988). Find alternatives for patients using 80 to100 mcg estrogen OCs. <u>Contraceptive Technology Update</u> , Consultants, Atlanta, 9 (7): 86-87.
12.	Price, M.M. & Price, L.N. (2002). Concerns of white and African American consumers about colon cancer screening. In M. Kowalski (Ed.). <u>Transcultural Nursing Special Interest Newsletter – Oncology Nursing Society</u> , 12 (1), 1-3.
13.	Price, M.M. & Price, L.N. (2002). Concerns of white and African American consumers about colon cancer screening. <u>Prevention and Detection Special Interest Newsletter – Oncology Nursing Society</u> , 12 (3), 1-3.
14.	Price, M., Flagler, S., Honig J., Huffstutler, S., Lock, S., and Stegbauer, C. (2006). <u>Recommendations for Faculty Qualifications, Faculty Development, and Student Admissions Criteria</u> . Retrieved October 9, 2006, from the National Organization of Nurse Practitioner Faculties Practice Doctorate Resource Center Web site: http://www.nonpf.com/NONPF2005/PracticeDoctorateResourceCenter/PDsubcommittee1.htm & http://www.nonpf.com/NONPF2005/PracticeDoctorateResourceCenter/PDResourceCenter.htm

3. Chapters in books:

1.	Price, M.M. (1980). Special Populations Sexual Abuse of the Developmentally Disabled. In D. Kay, <u>Leadership Training Workshops</u> . Bethesda, MD: National Institute of Mental Health, National Center for Prevention and Control of Rape. Training Grant No. T31MH15664.
2.	Price, M.M. (1985). Nursing Care of the Child With A Mental Deficiency. In S.R. Mott, N.S. Fazekas, & S.R. James, (Eds.), <u>Nursing Care of Children and Families</u> , pp. 755-783, Menlo Park, CA: Addison-Wesley Publishing Co.
3.	Phillips, J. Price, M.M. (2002). "Breast Cancer Prevention and Detection: Past Progress and Future Directions". In K. Jennings-Dozier & S. Mahon, S. (Eds.), <u>Cancer Prevention, Detection and Control: A Nursing Perspective</u> . Pittsburgh, PA: Oncology Nursing Press.
4.	Price, M.M. (2002). Health Promotion with African American women. In C.C. Clark, <u>Health Promotion in Communities: Holistic and Wellness Approaches</u> , pp. 355-381, New York: Springer Publishing Company.

4. Books: N/A

5. Non-authored publications (faculty member formally acknowledged in the publication for her contributions):

1.	Creative Care Unit: parental guidance, (1979). <u>American Journal of Nursing</u> , 79 (4): 673.
2.	Nurses, physicians prefer different postpartum prescriptions practices, <u>Contraceptive Technology Update</u> , (1986). American Health Consultants, Atlanta. 7 (9).
3.	Public Sector NFP Program, (1988). <u>The NFP Reader</u> , 5 (1), Bethesda, MD: KM Associates.
4.	Asefa, S. "Promoting health in the african american community, cervical cancer", in Promoting Health in the African American Community (PHAAC). In partial fulfillment of requirements for a Master's of Public Health Degree, Department of Health Behavior and Health Education, School of Public Health, University of North Carolina at Chapel Hill, August 8, 1997. http://64.233.169.104/search?q=cache:3duPBGMvJskJ:unchsl3.depts.unc.edu/cdpapers/Asefa.pdf+marva+price&hl=en&ct=clnk&cd=43&gl=us .
5.	Reverence. Newsletter of the Albert Schweitzer Fellowship. p. 5, March 2001. http://www.schweitzerfellowship.org/resources/pdf/newsletter4-2.pdf .

6.	United States Department of Defense Annual Report, FY2002. Encouraging research on prostate cancer disparity. p. 4. http://cdmrp.army.mil/annreports/2002annrep/pdf/4_pcrp.pdf .
7.	Making a Difference in London. Screening. International ICNN Cancer Nursing News. Vol. 14, #3, 2002. http://www.isncc.org/files/PDF/14-3web.pdf
8.	Malecare. Free screenings help duke researchers study african americans' reluctance to be tested for prostate cancer. 9/19/2003. http://www.malecare.com/african_american_prostate_cancer_page_61.htm
9.	Key to detecting cancer In men. Duke Center for Integrative Medicine (DCIM). The Herald Sun, Durham, N.C. August 7, 2003.
10.	Cancer seminars to open today. The Herald Sun, Durham, N.C. January 30, 2004.
11.	EHD puts its best foot forward for cohort 5 finalists. Eliminating Health Disparities Program Newsletter. Saint Louis University. Vol. 1, Issue 3, 2004. http://ehd.wustl.edu/newsletter/06.01.04/06news1.htm
12.	Storming Media. Pentagon Reports. Increasing sustained participation in free mass prostate cancer screening clinics. May 2005. http://www.stormingmedia.us/36/3623/A362344.html .
13.	Pint-Size Clinics Take Root at CVS. The Herald Sun, Durham, N.C. October 31, 2005. http://www.redorbit.com/news/health/290670/pintsize_clinics_take_root_at_cvs/index.html
14.	Duke Chronicle. Duke center for integrative medicine (DCIM) focuses on holistic medicine. September 29, 2005. http://media.www.dukechronicle.com/media/storage/paper884/news/2005/09/29/News/Dcim-Focuses.On.Holistic.Medicine-1474488.shtml .
15.	Top Company Profiles. Carolina Meadows, Inc. Board members. Condé Nast. Portfolio.com. 2007. http://www.portfolio.com/resources/company-profiles/Carolina-Meadows-Inc-575490
16.	Prostate Health: A journal guide. Detection. Duke Prostate Center. http://www.dukehealth.org/Services/ProstateCancer/index/Prostate%20Health%20--%20A%20Survival%20Guide.pdf
17.	Noteworthy. Reflections on nursing leadership. Honor Society of Nursing, Sigma Theta Tau International. http://nursingsociety.org/RNL/3Q_2007/departments/noteworthy3.html
18.	Health Articles: First Hand: Marva Price, DrPH, RN, FAAN, Family Nurse Practitioner and Director, Family Nurse Practitioner Specialty at the Duke University School of Nursing, from Cancer Center Notes, Duke Health.Org., 4/10/2007.
19.	Tuskegee University. Minority researchers receive AACR awards. February 19, 2008. http://www.tuskegee.edu/Global/story.asp?S=2757048 .
20.	DukeHealth.Org. Overweight and obese men have lower PSA values, even before they get prostate cancer. Feb. 19, 2008. http://www.dukehealth.org/HealthLibrary/News/10246 .
21.	Physorg.com. SCIENCE:PHYSICS:TECH:NANO:NEWS. Overweight and obese men have lower PSA values, even before they get prostate cancer. Published: 11:58 EST, February 19, 2008. http://www.physorg.com/news122644683.html .
22.	Bio-Medicine. Overweight and obese men have lower PSA values, even before they get prostate cancer. February 19, 2008. http://www.bio-medicine.org/medicine-news-1/Overweight-and-obese-men-have-lower-PSA-values--even-before-they-get-prostate-cancer-12243-1/ .
23.	Medpage Today. PSA levels deceptively low in obese men. February 19, 2008. http://www.medpagetoday.com/Urology/ProstateCancer/8422 .
24.	Bio-Medicine. Overweight and obese men have lower PSA values, even before they get prostate cancer, February, 19, 2008. http://www.bio-medicine.org/medicine-news-1/Overweight-and-obese-men-have-lower-PSA-values--even-before-they-get-prostate-cancer-12243-1/ .
25.	Science Centric. Overweight and obese men have lower PSA values, even before they get prostate cancer. February 19, 2008. http://www.sciencecentric.com/news/article.php?q=08021919 .
26.	The Times of India, Gurgaon, Haryana. Obese men may have low PSA values. February 20, 2008. http://www1.timesofindia.indiatimes.com/articleshow/2797786.cms .
27.	Thaindian News, Bangkok Thailand. Obesity in men linked to lower PSA values. February 20, 2008. http://www.thaindian.com/newsportal/health/obesity-in-men-linked-to-lower-psa-values_10019289.html .
28.	Science Daily. Science News. Overweight And Obese Men Have Lower PSA Values, Even Before They Get Prostate Cancer. Feb. 20, 2008. http://www.sciencedaily.com/releases/2008/02/080219115156.htm .
29.	AbhayJere.com. India is World's New BioSciences Hub. Overweight And Obese Men Have Lower PSA Values, Even Before They Get Prostate Cancer. February 20, 2008. http://abhayjere.com/sciencenews_2008.aspx

30.	Medical News Today. Lower PSA Values Found In Overweight And Obese Men, Even Before Diagnosis Of Prostate Cancer, 20 Feb 2008 - 3:00 PDT.
31.	Testicare. Prostate Cancer-PSA news. Overweight And Obese Men Have Lower PSA Values, Even Before They Get Prostate Cancer. February 20, 2008.
32.	Online Focus. Gesundheit. Prostatakrebs. Fett verfälscht Blutwert. February 20, 2008. http://www.focus.de/gesundheit/ratgeber/krebs/news/prostatakrebs_aid_262109.html .
33.	TopNews Health. Obesity in men linked to lower PSA values. February 20, 2008. http://www.topnews.in/health/obesity-men-linked-lower-psa-values-21129 .
34.	Urología. Los niveles de PSA son menores en los hombres con obesidad. February 21, 2008. http://www.diariomedico.com/edicion/diario_medico/especialidades/urologia/es/desarrollo/1091936.html .
35.	Innovations Report, Forum für Wissenschaft, Industrie und Wirtschaft. Overweight and obese men have lower PSA values, even before they get prostate cancer. 21.02.2008.
36.	MedicExchange.Com. Overweight and obese men have lower PSA values, even before they get prostate cancer. February 25, 2008. http://www.medicexchange.com/RIS-PACS/news.aspx/12508/Overweight-and-obese-men-have-lower-PSA-values--even-before-they-get-prostate-cancer .
37.	Medscape Today. Medscape Medical News. Obesity linked with lower PSA Levels, according to multiethnic cohort. February 25, 2008. http://doctor.medscape.com/viewarticle/570593 .
38.	The "New" Prostate Cancer InfoLink, a service of Prostate Cancer International. Satisfaction and regret after two types of radical prostatectomy. Posted on July 8, 2008 by E. Michael D. ("Mike") Scott. http://prostatecancerinfolink.net/2008/07/08/satisfaction-and-regret-after-two-types-of-radical-prostatectomy/ .
39.	Technorati, Inc. Technorati, Japan. Kevin, M.D. - Medical Weblog. Reactions to story from Well - Tara Parker-Pope - Health - New York Times Blog, Regrets after prostate surgery. August 26, 2008. http://technorati.com/posts/6VTj7VSvaFNXAqEZ6r36BfJyZ74vqYnK8kEjZPRrLt0%3D .
40.	Propeller, Regrets after prostate surgery. http://www.propeller.com/story/2008/08/27/regrets-after-prostate-surgery/
41.	Topix, Durham, N.C. Regrets after prostate surgery. Published: Wednesday, August 27, 2008 at 9:00 a.m. Last Modified: Thursday, August 28, 2008 at 4:25 a.m. http://www.topix.com/health/prostate-cancer/2008/08/regrets-after-prostate-surgery .
42.	vBulletin®, Regrets after prostate surgery (NYT). 09-11-2008, 09:34 PM http://www.eunuch.org/vbulletin/showthread.php?s=65edcc9fc11a0ec030c87c270d6d3a05&p=111186#post111186 .
43.	The New York Times, Well, On Health by Tara Parker-Pope, Regrets after prostate surgery, Sunday, September 21, 2008. http://well.blogs.nytimes.com/2008/08/27/regrets-after-prostate-surgery/ .
44.	Menon, M. & Bhandari, M. Unhappy Patients: Musings of two surgical nihilists. European Urology, 54 (4), 723 – 725. http://linkinghub.elsevier.com/retrieve/pii/S0302283808008907 .
45.	North Carolina Nurses Association. NCNA members describe why they are members. 2008. http://www.ncnurses.org/NPCouncil/Nurse_Practitioner_Members_Quote.pdf

6. Other:

a. Published scientific reviews (for mass distribution):

Book Reviews:

1.	Price, M.M. (1983). Effectiveness of pediatric primary care. J. S. O'Shea & E.W. Collins, (Eds.), in <u>Physical And Occupational Therapy in Pediatrics</u> .
2.	Price M.M. (1986). Diagnosis and management of the hospitalized child. H.B. Levy, S.H. Sheldon, & R.F. Sulayman (Eds.), in <u>Physical and Occupational Therapy in Pediatrics</u> , 6 (1), 109-110.
3.	Lederer, et al. (1986). <u>Care planning pocket guide</u> . Ed 2. Menlo Park, CA: Addison-Wesley.
4.	Price, M.M. (1986). Minimizing high-risk parenting. R.A. Hoekelman & P.A. Media (Eds.), in <u>Physical and Occupational Therapy In Pediatrics</u> , 6 (2), 125-126.
5.	Price, M.M. (1987). Chronically ill children and their families. N. Hobbs, J.M. Perrin, & H.T. Ireys (Eds.), in <u>Physical And Occupational Therapy In Pediatrics</u> , 7 (3), 107-108.
6.	Price, M. M. (1988). Children with handicaps: A medical primer. Ed 2. M.L. Batshaw & Y.M. Perret (Eds.), in <u>Physical And Occupational Therapy in Pediatrics</u> , 8 (1), 117-118.
7.	Price, M.M. (1989). The invulnerable child. E.J. Anthony & B.J. Cohler (Eds.), in <u>Physical And Occupational Therapy In Pediatrics</u> , 9 (3), 160-161.
8.	Scoggin, J. & Morgan, G. (2001). <u>Practice guidelines for obstetrics and gynecology</u> . Baltimore: Lippincott, Williams & Wilkins.

b. Selected Abstracts:

1.	Price, M.M. (1986, May). "Nurse Practitioner Prescribing Practices". Paper presented at the Annual Conference on Women's Health for Nurse Practitioners, Emory University, Atlanta, GA.
2.	Price, M.M. (1988, May). "Helping Family Planning Patients Stop Smoking". Paper presented at the Annual Conference on Women's Health for Nurse Practitioners, Emory University, Atlanta, GA.
3.	Price, M.M. (1989, May). "Is There an Ideal Contraceptive for the Breastfeeding Woman?" Paper presented at the Annual Perinatal Nursing Conference, Duke University Medical Center, Durham, NC.
4.	Price, M.M. (1993, February). "Cancer Prevention and Early Detection – Changing Lifestyles in Vulnerable Populations". Paper presented at the Health Promotion Disease Prevention Nursing Conference, Friday Conference Center, University of North Carolina School of Nursing, Chapel Hill, NC.
5.	Price, M.M. (1994, April). "Cancers That Worry Women the Most and Screening Dilemmas". Paper presented at the Annual Spring Symposium for Primary Care Nurse Practitioners, Charlotte, NC.
6.	Price, M.M. (1994, October). "Developing and Using Computer Generated Slides for Oral Presentations". Paper presented at the Dissemination Workshop during the Oncology Nurses Symposium on Cancer in African Americans, Atlanta, GA.
7.	Price, M.M. (1994, October 28-30). "Living with Genital Herpes: Counseling the Patient". Paper presented and Seminar Moderator for the Burroughs Wellcome Pharmaceutical Corporation Nursing Conference on Genital Herpes, Research Triangle Park, NC.
8.	Price, M.M. (1995, February, Philadelphia; 1995, April, Miami; and 1995, March, Washington, DC). "Breast Health". Papers presented at the National Black Nurses Association Regional Conferences.
9.	Price, M.M. (1995, August). "Gynecologic Cancers-Cervical Cancer". Paper presented at the National Black Nurses Association National Conference, Washington, DC.
10.	Price, M.M. (1996, August). "Cervical Cancer". Paper presented at the Oncology Nursing Society Post-Conference Seminar at the Annual Meeting of the National Black Nurses Association, Chicago, IL.
11.	Price, M.M. (1997, May). "What Your Mother Needs to Know about Breast Health. Paper presented at the 9 th Annual National Black Graduate Student Conference, Research Triangle Park, NC.
12.	Price, M.M. (1997, August). "Cervical Cancer". Paper presented at the North Carolina Baptist Ushers Conference on Cancer Prevention, UNC Lineberger Comprehensive Cancer Center and the UNC School of Public Health Summer Public Health Conference, Raleigh, NC.
13.	Price, M.M. (1997, August). "Intergenerational Influences On Cervical Cancer Screening". Poster Session presented at the Women's Health Issues – A Global Nursing Perspective, University of Cincinnati, OH, held in St. Thomas, Virgin Islands.
14.	Price, M.M. (1997, December). Generational Influences On Cervical Cancer Screening And The Capacity

	Of The Public Health System To Assure Responsive Services. <u>Dissertation Abstracts International</u> , University of North Carolina, Chapel Hill. Microfiche No. W4.P9462. 1997.
15.	Price, M.M. (1998, August). "Intergenerational Influences on Cervical Cancer Screening". Paper presented at the 11 th Union of International Cancer Congress, Rio de Janeiro, Brazil.
16.	Price, M.M. (1999, April). Enhancing Nurse Educators' Knowledge Base To Teach Their Students Cancer Prevention And Early Detection in African Americans; and Using The Albert Schweitzer Fellowship Program to Foster Cross-Cultural Experiences for Nurse Practitioner Students. Symposium conducted at the annual meeting of the National Organization of Nurse Practitioner Faculties (NONPF), San Francisco, CA.
17.	Price, M.M. (1999, November). "African American Women's Concerns about Cervical Cancer Screening". Paper presented at the American Public Health Association Annual Convention, Chicago, IL.
18.	Price, M.M. (2000, February). "African American Women's Concerns about Cervical Cancer Screening". Paper presented at the 7 th Biennial Symposium on Minorities, The Medically Underserved & Cancer, Addressing the Unequal Burden of Cancer, Washington, DC. Published Abstract p. 41.
19.	Price, M.M. (2000, March). "African American Women's Concerns About Cervical Cancer Screening". Paper presented at the Howard University School of Nursing Research Day, Washington, DC.
20.	Price, M.M. (2000, April). "Creating a Faculty Research Opportunity with a Community Prostate Cancer Screening Program". Paper presented at the National Organization of Nurse Practitioner Faculties (NONPF) 26 th Annual Conference, Washington, DC.
21.	Price, M.M. (2000, August 3; July 30). "Follow-up of Men Who Participate in a Free Community Day Prostate Cancer Screening Clinic". Poster Session presented at the 11 th International Conference on Cancer Nursing-Building The Future, Oslo, Norway.
22.	Price, M.M. (2000, August). "Follow-up of Men who Participate in a Free Community Day Prostate Cancer Screening Clinic" and "Generational Influences on Cervical Cancer Screening". Papers presented at the National Black Nurses Convention, Washington, DC.
23.	Price, M.M. (2000, September). "Gynecologic Cancers". Paper presented at the National Astra Zeneca Challenge Conference for Oncology Nurses, Atlanta, GA.
24.	Price, M.M. (2000, November). "Free Community Prostate Cancer Screening: Who Attends and Why." Paper presented at the American Public Health Association Annual Convention, Boston, MA. Published Abstract – Session 4018.0 p. 202.
25.	Price, M.M. (2001, February 16). "Free Community Prostate Cancer Screening: Who Attends and Why.?" Poster Session presented at the Annual School of Public Health Minority Health Conference, University of North Carolina, Chapel Hill, NC.
26.	Price, M.M. (2001, September). "Free Community Prostate Cancer Screening: Who Attends and Why". Paper presented at the Biennial Conference of the Center for Disease Control and Prevention (CDC), Using Science to Build Comprehensive Cancer Programs: A 2001 Odyssey, Atlanta, GA.
27.	Price, M.M. (2001, October). "Lessons Learned From 58 African American Men About Prostate Cancer Screening". Paper presented at the American Public Health Association Annual Convention, Atlanta, GA.
28.	Price, M.M. (2002, June). "Free Community Prostate Cancer Screening in A Small Urban Community". Poster #1063 presented at the 18 th Union of International Cancer Congress, Oslo, Norway. Published Abstract, p. 467.
29.	Price, M.M. (2002, August). "Prostate Cancer Screening – Who Attends and Why". Paper presented at the 12 th International Conference on Cancer Nursing 2002: Making A Difference, London. Published Abstract, p. 28.
30.	Price, M.M. & Robertson, C.N. (2002, September). "Increasing Sustained Participation in Free Mass Prostate Cancer Screening Clinics". Poster presented at the Ninth Annual CapCure Scientific Retreat Program, Washington, D.C.
31.	Price, M.M., Powe, B.D., & Underwood, S.M. (2003, March). Symposium 22 "From Research to Practice to Policy: Designing Research-Based Interventions Focused on Cancer Prevention and Control Among African-Americans". 24 th Annual Meeting and Scientific Sessions for the Society of Behavioral Medicine, Salt Lake City, UT.
32.	Price, M.M. (2003, October). "Increasing Sustained Participation in Free Mass Prostate Cancer Screening Clinics in Durham, North Carolina", Sixth Annual Sigma Theta Tau Research Day Conference: Health Disparities in Underserved Minority Populations from a Global Perspective. Posters presented at North Carolina A&T State University School of Nursing, Greensboro, NC. Published Abstract p.13.

33.	Price, M.M. (2003, October). "International Cancer Care Nurses Attitudes about Cervical Cancer Screening". Poster presented at the Sixth Annual Sigma Theta Tau Research Day Conference: Health Disparities in Underserved Minority Populations from a Global Perspective. North Carolina A&T State University School of Nursing, Greensboro, NC. Published Abstract p.24.
34.	Price, M.M., & Combs, I. (2003, November 7-9). "How to Use Innovative Health Education and Screening Programs to Promote Health in the African American Community: Durham, North Carolina and Omaha, Nebraska". Symposium conducted at the 4 th Annual Institutes of Learning Conference. Oncology Nursing Society, Philadelphia, PA. Published Abstract p. 27-31.
35.	Price, M.M., Jackson, S.A., & Robertson, C.N. (2004, March). "Utility of Longitudinal Prostate Specific Antigen Measures in a Screening Population". Poster presented at the Intercultural Cancer Council and Baylor College of Medicine: 9 th Biennial Symposium on Minorities, The Medically Underserved & Cancer, Washington, DC. Published Abstract p. 37.
36.	Price, M.M. (2004, August). "International Cancer Care Nurses Attitudes About Cervical Cancer Screening". Paper presented at the 13 th International Conference on Cancer Nursing 2004: Celebrating Diversity, Sydney, Australia.
37.	Price, M.M., Jackson, S.A., & Robertson, C.N. (2004, November). "Utility of Longitudinal Prostate Specific Antigen Measures in a Screening Population". Poster presentation at the 132 nd Annual Convention of the American Public Health Association, Washington, DC. Published Abstract p. 37.
38.	Price, M.M. (2005, June). "Partnering Mentoring and Education in Prostate Cancer Control", Cancer Prevention and Detection Dissemination Colloquium, invited. Paper presented as outcome of the NCI and Oncology Nursing Society grant collaboration, Chicago, IL.
39.	Price, M.M., Robertson, C.N. & Jackson, S.A., (2006, March). "Longitudinal Variation in Prostate-Specific Antigen Levels in a Screening Population". Poster presentation at the 70 th Annual Meeting of the Southeastern Section, American Urological Association, Inc, Rio Grande, Puerto Rico, Published Abstract p. 110.
40.	Price, M.M., Robertson, C.N. & Jackson, S.A., (2006, March). "Longitudinal Variation in Prostate-Specific Antigen Levels in a Screening Population". Poster presented at the Duke University Medical Center Comprehensive Cancer Center Annual Meeting, Durham, NC. Published Abstract p. 137.
41.	Price, M.M. (2006, March). "Intergenerational Influences on Cervical Cancer Screening in African American Women in Eastern North Carolina". Poster presentation, Duke University Medical Center Comprehensive Cancer Center Annual Meeting, Durham, NC. Published Abstract p. 138.
42.	Price, M.M. & Robertson, C.N. (2006, March). "Increasing Sustained Participation in Free Mass Prostate Cancer Screening Clinics". Poster presentation, Duke University Medical Center Comprehensive Cancer Center Annual Meeting, Durham, NC. Published Abstract p. 139.
43.	Echols, P. & Price, M.M. (2006, April). "The Association of Race on Prostatic Specific Antigen (PSA) Velocity and PSA Doubling Time Prior and Post Radical Prostatectomy". Paper presented at the Intercultural Cancer Council-10 th Biennial Symposium on Minorities, the Medically Underserved and Cancer, Baylor College of Medicine-Houston, TX, held in Washington, DC.
44.	Price, M.M. (2006, June). "Prostate Cancer Screening: Coming to Terms with Controversies". Paper presented at the American Academy of Nurse Practitioners, 21 st National Conference, Dallas, TX.
45.	Price, M.M. (2007, June). "Latest Developments in HPV-related diseases and Cervical Cancer ". Paper presented at the American Academy of Nurse Practitioners, 22 nd National Conference, Indianapolis, IN.
46.	Price, M.M. (2007, June). "Prostate Cancer Screening: What Will We Tell Our Patients?" Paper presented at the American Academy of Nurse Practitioners, 22 nd National Conference, Indianapolis, IN.
47.	Bryan, K.A.N., Florian, S.R., Williams, R., Price, M., Sun, L., and Moul, J.W. (2008, March). "Independent predictors for PSA recurrence after radical prostatectomy: Gleason score 3+4 versus 4+3 and percent tumor involvement". Paper presented at the Southeastern Section American Urological Association 72 nd Annual Meeting, San Diego, CA.
48.	Bannister, M., Mouraviev, V., Price, M., Mayes, J., Jackson, S., Tyson, D., Wilson, A., and Polascik, T. (2008, March). "ProstaScint: What Will We Tell Our Patients?" Duke University Medical Center Annual Cancer Center Symposium, Durham.
49.	Schroek, F.R., Krupski, T. L., Sun, L., Albala, D. M. . Price, M.M., Polascik, T. J., Robertson, C.N., Tewari, A. K., and Moul, J.W. (2008, March). "Predictors for satisfaction and regret after three different types of radical prostatectomy". Poster presentation, Duke University Medical Center Annual Cancer Symposium, March 12, 2008.

50.	Tolbert-Warren, C., Buschemeyer, C., Klink, J., Mavropoulos, J., Banež, L., Jaychadran, J., Johnson, T., Poulton, S., Hursting, S., Price, M. , and Freedland, S. (2008, March). "Effect of Intermittent Caloric Restriction on Prostate Cancer Growth and Survival in Mice". Duke University Medical Center Annual Cancer Center Symposium, Durham, NC.
51.	Jackson, S.A., Price, M. M. , Robertson, C.N, and Smith, R. (2008, April). "Predictors of Sustained Participation in Prostate Cancer Screening Programs", Intercultural Cancer Conference, Baylor University, held in Washington, DC.
52.	Williams, R., Schroeck, F.R., Bryan, KA. N., Price, M. , Sun, L., and Moul, J.W. (2008, April). "Clinical and Pathological Variables: Predictors of PSA Recurrence after Radical Prostatectomy". Intercultural Cancer Conference, Baylor University, held in Washington, DC.
53.	Koontz, B. F., Wright, T., Price, M. , Polascik, T. J., Mayes, J. M., Wong, T. Z., Madden, J., & Mouraviev, V. (2008, May). "Indium Capromab Pendetide Scintigraphic Imaging prior to Surgical Management of Prostate Cancer". Poster presentation, American Urological Association Annual Meeting, Orlando, Fl. May 17-22, 2008. Tracking Number: 08-AB-95342-AUA.
54.	Price, M., "Human Papillomavirus (HPV) And HPV Vaccines: A Global Update. (2008, August). International Conference on Cancer Nursing, The Suntec Singapore International Convention & Exhibition Centre Singapore. Oral abstract #0-022.
55.	Terry, J., Polascik, T., Mouraviev, V., & Price, M. (2008, November). The Complication Rate of Third Generation Cryosurgical Ablation of the Prostate. Paper presented at the Joint Meeting of the 19th Annual Argonne Symposium for Undergraduates in Science, Engineering and Mathematics. Computer Information Science & Engineering (Cise) Education, Stakeholder's Summit and the Central States Universities Incorporated (Csui). Argonne National Laboratory Aps Conference Center, Argonne, Il. Oral abstract # 124.
56.	Williams, R., Schroeck, F.R., Bryan, KA. N., Price, M. (2008, December). Sun, L., and Moul, J.W. "Clinical and Pathological Variables: Predictors of PSA Recurrence after Radical Prostatectomy". Paper presented at the 9th Annual Surgical Urologic Oncology Meeting, Natcher Conference Center, National Institutes of Health, Bethesda.
57.	Price, M. "Issues and Controversies in Prostate Screening". (2009, March). Invited paper for the NCCN (National Comprehensive Cancer Network) 14th Annual Conference - Clinical Practice Guidelines & Quality Cancer Care™. Hollywood, Florida.

c. Editorials, position, and background papers: n/a

Consultant appointments: (Include US government, state, private organizations, etc.)

Healthy Start Foundation of North Carolina through the Sheps Center, University of North Carolina. Technical Assistance for grantee workshops for STD prevention project planning for five \$250,000 grants aimed at infant mortality prevention. Greenville, Hickory, and Sanford, March 2000.

Committee for Professional Education, State of California Department of Health Services, Cancer Detection Section for Cervical Cancer, Sacramento, C.A. (meetings held in Los Angeles). Developed a Professional Training Resource Manual for Cervical Cancer and HPV Patient Management. March-May, 2000.

Adolescent Pregnancy Prevention Program. North Carolina General Assembly through the Commission for Health Services, NC. Department of Health and Human Services. Annual grants selection 1988-2002.

Professional awards and special recognitions:

1993 Great 100 Award For Nursing Excellence In North Carolina for Outstanding Contributions to the Profession of Nursing
1995-1996 Albert Schweitzer Fellowship
1995-1997 Lineberger Comprehensive Cancer Center, University of North Carolina, Pre-Doctoral Fellowship
1995 American Nurses Association Ethnic Minority Fellowship, accepted without funding
1996 Alumni Student Award, UNC School of Public Health, awarded at the UNC School of Public Health Annual Alumni Conference
1997 Community Health Nurse of the Year, North Carolina Nurses Association
2002 Fellow, American Academy of Nursing

2005 American Academy of Nurse Practitioners State Award for Excellence
2007 Fellow, American Academy of Nurse Practitioners

Organization	Office held and/or Committee Assignment	Dates
Union of International Cancer Congress Nursing Committee, Geneva, Switzerland. Congress, Oslo, Norway	<u>International:</u> Member	2002-2003
International Society of Nurses in Cancer Care (ISNCC)	Member	2002-2004
American Public Health Association	<u>National:</u> Member	1974-present
American Nurses Association	Member	1974-2002
National Black Nurses Association (local chapter: Central Carolina Black Nurses Association)	Member	1978-2004
American Social Health Association, RTP, NC, National Cervical Cancer and Human Papilloma Virus Project	Member Scientific Advisory Board Member	1998-2004
Oncology Nursing Society	Member	1995-present
ONS National Challenge Conference, Conference held in Atlanta, September 14-17, 2000	10 member committee from across the U.S. charged with planning a community outreach course on cancer screening and detection for 300 oncology nurses	January-August 2000
Invitational for Best 100 Oncology Nurse Community Outreach Cancer Prevention and Early Detection Programs, held in Washington, D.C., April 20, 2002	Committee Member for participant follow up and planning a reunion luncheon and poster session	January – April 2002
National Association of Nurse Practitioner Faculties (NONPF).	Member Member, Clinical Doctorate Task Force Chair, subcommittee on Faculty Qualifications, Faculty Development, and Student Admissions Criteria	1997-present 2006-2007
The Susan G. Komen for the Cure (National Breast Cancer Foundation)	Member, African American Advisory Council	2005-present
Governor's 12 member Commission for Health Service (Public Health Commission), Raleigh.	<u>State:</u> Member, the Public Health Commission writes the rules for all legislation passed by the North Carolina General Assembly including environmental and personal health legislation, immunization laws, restaurant and lodging grading standards, childcare facility, food establishment grading standards, HIV, smallpox, other communicable disease control.	1994; serving 4 th term; Gubernatorial appointee
North Carolina Health and Human Services, Department of Health, Breast and Cervical Cancer Assurance Committee	Chair, Evaluation and improvement of cancer screening services (clinical, laboratory, and radiological) for women in private and public sector clinics	1995-1997
The Albert Schweitzer Foundation	Member, Board of Advisors and Fellowship selection subcommittee. The Foundation provides paid fellowships for community service learning projects conducted by medical, dental, nursing, social work, veterinarian, and law graduate and	2000-present

Organization	Office held and/or Committee Assignment	Dates
	professional students across North Carolina universities with major medical centers.	
Old North State Medical Society, Raleigh-Durham Chapter	Member	2001-2002
Advisory Board, University of North Carolina School of Public Health, Department of Maternal and Child Health	Member	2003
North Carolina Nurses Association (formerly District Eleven)	Member; Secretary for Triangle Region; Commission on Standards and Practice	1975-present 1985-1987 2001-2003
“	Member At Large Council of Primary Care Nurse Practitioners	1991-1993
“	Participant, North Carolina Nurses Association Leadership Day	January 2000
“	Participant, Awards Selection Committee for Outstanding Nursing Leadership and Service	January 2000-2001
University of North Carolina School of Public Health, Department of Maternal and Child Health, participated in review of candidates for department chair; annual board meetings	Member, Advisory Board	February 2003
U.S. Army Department of Defense	IMPACT Technical Committee to plan the first national Prostate Cancer Research Conference	2006-2007
Piedmont Health Care, Inc. Federally funded primary care centers in three rural North Carolina counties	Local: Member, Board of Directors	1986-1987
Chatham County Board of Health	Chair Board Member	1992-1994 1989-2000
Research Triangle Clintrials Independent Review Board, Research Triangle Park, NC.	Charter Member	1993-1997
Copernicus Group Independent (International) Review Board, Inc. Cary, NC	ember	2001-2004
Orange-Chatham-Person Developmental Disabilities and Mental Health Authority Mental Health Board	Member, official certifier for Board proceedings	2001-2004, County Commissioners Appointee
Carolina Meadows Retirement Community, a 700 resident continuing care retirement community	Executive Board and Health Committee member	2004-2008

Editorial Boards: N/A

Review Panels:

U.S. Army Department of Defense, Integration Panel for Prostate Cancer. Ad hoc panel member to determine the funding level for scored grant proposals for prostate cancer scientific research, 2002, 2003, & 2007.

Continuing Education Courses:

Faculty, Oncology Nursing Society Three-Day National Institutes on Cancer Prevention and Detection in African Americans, Funded by the National Institutes of Health National Cancer Institute, “Cervical Cancer”, 30-40 participants per Institute

Pittsburgh, June 1990
Lexington, KY April 1993
Seattle, October 1993
Philadelphia, December 1993
Philadelphia, March 1995
Miami, April, 1995
Chicago, August 1996
Milwaukee, June 1998
Milwaukee, July 1998
Milwaukee, August 1998
Milwaukee, September 1999
Atlanta, September 2000
Washington, D.C. June 2001
Miami, August 2001
Miami, March 2002
Miami, June 2002
Chicago, January 2003
Miami, February 2004
Miami, May 2004
Baton Rouge, October 2004
Atlanta, February 2005

Areas of research interests (basic and applied) - list:

Health disparities research for prostate cancer and cervical cancer

External support - gifts, grants, and contracts:

PRESENT—CURRENTLY ACTIVE

Project Number:	Status on Grant: PI	Approved Project Period: 02/01/2007-01/31/2010	% Effort: 15
PI: Marva Price			
Source: U. S. Department of Defense			
Title of Project: Collaboration Around Research and Education (CARE) in Prostate Cancer			
Project Goal: The program seeks to provide 12 students from Bennett College for Women, Greensboro, NC, a historically black women’s college/university, with mentored research experience over three years.			

Project Number:	Status on Grant: Consultant	Approved Project Period: 6/1/2008-6/30/2009	% Effort: 0
PI: (Consultant)			

Source: U. S. Department of Defense

Title of Project: Training of Prostate Cancer Imaging: A Collaborative Summer Program for Undergraduates
Project Goal: The program seeks to provide 54 students from Howard University, Washington, DC., with mentored research experience over three years.

PENDING: None

Project Number:	Status on Grant	Approved Project Period:	% Effort:
PI: Marva Price			
Source:			
Title of Project:			
Project Goal:			

PAST:

Project Number:	Status on Grant PI	Approved Project Period: 1/15/2005- 8/14/2008	% Effort: 20
PI: Marva Price			
Source: U. S. Department of Defense			
Title of Project: Partnering Research Involving Mentoring and Education (PRIME) in Prostate Cancer			
Project Goal: Partnering Research Involving Mentoring and Education (PRIME) in Prostate Cancer Training Grant with North Carolina Central University to provide beginning prostate cancer education to 12 undergraduate nursing students over three years.			
Project Number:	Status on Grant PI	Approved Project Period: 2002- 2006	% Effort: 47%
PI: Marva Price			
Source: U. S. Department of Defense			
Title of Project: Increasing Sustained Participation in Free Mass Prostate Cancer Screening Clinics			
Project Goal: To increase prostate cancer screening in free community-based clinics among all ethnic groups but with focused recruitment among African American men			
Project Number:	Status on Grant PI	Approved Project Period: June 2002-June 2003	% Effort: --
PI: Marva Price			
Source: Source: U. S. Department of Defense		District Eleven, North Carolina Nurses Association	
Title of Project: Cervical Cancer Screening, International Nurses Survey			

Project Goal: To assess attitudes and practices for cervical Cancer Screening among International Nurses in Cancer Care.			
Surveys conducted at the UICC Congress, Oslo, Norway, June-July 2002 & the International Nurses in Cancer Care, London, August-September 2002			
Project Number:	Status on Grant PI	Approved Project Period: 2000-2001	% Effort: 30%
PI: Marva Price			
Source: U.S. Department of Defense		A	
Title of Project: Using a Tracking System to Improve Prostate Cancer Screening Follow-up in a Small Urban			
Project Goal: to develop a tracking system for men who volunteer for free community-based prostate cancer screening; to assess their knowledge base about prostate cancer, and lifestyle habits for prostate preventive health			
Project Number:	Status on Grant PI	Approved Project Period: October 1997-98	% Effort: 25%
PI: Marva Price			
Source: Avon-NABCO, Inc			
Title of Project: Breast Cancer Access Grant for Nurse Practitioners in Nine-County Area in Southeastern North Carolina			
Project Goal: Breast Cancer education project for family nurse practitioners in southeastern counties of North Carolina to increase their knowledge base and how to provide community outreach to increase breast cancer screening rates			
Project Number:	Status on Grant PI	Approved Project Period: 1995-1998	% Effort: 45%
PI: Marva Price			
Source: NIH NCI			
Title of Project: (Pre-doctoral Fellow), NCI sponsored Cancer Control Education Research Program (CCEP) University of North Carolina, Lineberger Comprehensive Cancer Center, Training Grant -CA64060			
Project Goal: To determine intergenerational influences on cervical cancer screening			
Dissertation Research			
Project Number:	Status on Grant PI	Approved Project Period: 1994-1995	% Effort: -

PI: Marva Price	
Source: Association of School of Public Health and The Association of Teachers of Preventive Medicine, National Center for Infectious Disease, Division of HIV/AIDS, Surveillance Branch, CDC, Atlanta, GA	
Title of Project: Protocol development for resource assessment of HIV+ pregnant women's access and use of AZT and other social and medical resources	

Project Goal: To determine use of antiretroviral medication during pregnancy to reduce HIV vertical transmission to infants for infants treated for HIV at Duke University Medical Center and the University of North Carolina Hospitals

PAST			
Project Number:	Status on Grant	Approved Project Period:	% Effort:
	PI	January-April 2001	--
Marva Price			
Source: Oncology Nursing Society, Pittsburgh, PA			
Title of Project: Community Education Workshops: Taking care of #2: Colon Cancer Prevention and Detection			

Project Goal: To provide colon cancer education and models for making behavior/diet changes

Presentations:

Community Presentations (Non-Abstract):

1. **Price, M.M.** (1991, May). "Contraception Following Pregnancy Induced Hypertension and other High Risk Medical Conditions. Paper presented at the Perinatal Nurse Conference, Durham County Hospital Corporation, Durham, NC
2. **Price, M.M.** (1996, December). "Breast Health: What African American Nurses Want to Know", Luncheon Keynote presented for the Central Carolina Black Nurses Council, Inc., Durham, NC
3. **Price, M.M.** (1997, May). "What Your Mother Needs to Know about Breast Health. Paper presented at the 9th Annual National Black Graduate Student Conference, Research Triangle Park, NC.
4. **Price, M.M.** (1997, October). "Breast Health: What African American Women Need to Know", Luncheon Keynote presented for the Community Breast Cancer Awareness Seminar. Delta Sigma Theta Chapel Hill Alumnae Chapter, Inc, Chapel Hill, NC.
5. **Price, M.M.** (2000, October). "Breast Self-Examination", Luncheon Keynote at the Community Breast Cancer Awareness Seminar. Delta Sigma Theta Chapel Hill Alumnae Chapter, Inc., Chapel Hill, NC.
6. **Price, M.M.** (2001, March). "Nutrition and Colorectal Cancer Screening", Seminar presented for Fearrington Village Cares Group, Pittsboro, NC. Cosponsor, Oncology Nursing Society, Pittsburgh, PA.
7. **Price, M.M.** (2001, April). "Nutrition and Colorectal Cancer Screening". Seminar presented for the Corinth AMEZ Church, Siler City, NC. Cosponsor, Oncology Nursing Society, Pittsburgh, PA.
8. **Price, M.M.** (2003, June). "Prostate Health". Presentation for Ebenezer Baptist Church, Durham, NC.
9. **Price, M.M.** (2003, March). "Prostate Health". Presentation for Peace Missionary Baptist Church, Durham, NC.
10. **Price, M.M.** (2004, October). "Prostate Health". Presentation for Mt. Zoar Baptist Church,

- Durham, NC.
11. **Price, M.M.** (2005, March). "Prostate Health", Presentation for the Prostate Cancer Support Group. Lincoln Community Health Center, Durham, NC.
 12. **Price, M.M.** (2006, March; 2007, June). "Prostate Health". Presentation for Men's Health Group. St. Mark AME Church, Durham, NC.
 13. **Price, M.M.** (2009, April 22). "Cervical Cancer Screening, HPV and Gardasil". Annual Nurse Practitioner Spring Symposium. Wilmington, NC.

Student Abstracts:

Tiffany Johnson, Junior, Biology major

Research Mentor: Stephen J. Freedland, MD

Associate Professor, Division of Urologic Surgery, Dept of Surgery, Duke Prostate Center

The Effects of Resveratrol on Prostate Cancer Growth

Background: Previous studies have suggested that red wine intake may be related to lower risk of prostate cancer. One agent within red wine that inhibits prostate cancer growth in culture is resveratrol. Whether resveratrol inhibits growth of prostate cancers in mice is unknown.

Methods: LAPC-4 prostate tumor cells were injected into 150 male Severe Combined Immunodeficient (SCID) mice. 19 days after injection, mice were randomized into 3 different groups: 1) solely fed the Western diet; 2) fed the Western diet along with 10 mg/kg/day of resveratrol; and 3) fed the Western diet along with 20 mg/kg/day of resveratrol. A repeat study was conducted using an identical protocol, but in this study mice were randomized to 1) 2) and 3).

Results: After randomization, the third group of SCID mice (fed 20 mg/kg/day resveratrol with the Western diet) had the longest survival time before sacrifice. The second group of SCID mice (fed 10 mg/kg/day resveratrol with the Western diet) had the shortest survival time of the three groups. The first group of mice that were solely fed the Western diet lived longer than the second group of mice, but not as long as the third group of mice.

Conclusions: In the first study, Group 1 survived longer than Group 2, but died quicker than Group 3. Group 2 was expected to survive longer than Group 1 and second to Group 3, but that did not happen. Group 3 survived the longest, as expected. In the second study, Group 1 survived the longest, but was expected to survive the least. Group 2 survived the least when expected to live longer than Group 1. Group 3 survived longer than Group 2, yet less than Group 1. The second study did not support the hypothesis or the expected results.

Prestina Smith, Junior, Biology major

Research Mentor: Lionel Banéz, MD

Assistant Professor, Division of Urologic Surgery, Dept of Surgery, Duke Prostate Center

Sun Exposure and Prostate Cancer: An Investigation

Background: Most studies report that the diagnosis of skin cancer has a protective role against prostate cancer. Investigators believe that increased levels of Vitamin D resulting from sun exposure may be the reason for this phenomenon, as Vitamin D has been linked to decreased risk for prostate cancer. **Objective:** To determine whether skin lesions due to sun exposure will decrease the likelihood of a PSA recurrence in radical prostatectomy patients. **Methods:** Retrospective study conducted from 1988 to 2007 using the Shared Equal-Access

Regional Cancer Hospital (SEARCH) database. The database is a multi-center collection of men treated with radical prostatectomy (RP) at the Durham, West LA, and Palo Alto Veterans Affairs Medical Centers. The study included 1,370 men. 63 (4.6%) had sun exposure related skin lesions diagnosed before a radical prostatectomy. Univariate analyses were done using the Chi-squared and Mann-Whitney U tests, and a multivariate analysis was done using the Cox Proportional Hazards model adjusting for age, PSA, BMI, Gleason Score, stage, center, year, and prostate weight. Results: Out of the 1,370 men included in the study, 90% Caucasian men were of the population with sun exposure-related skin lesions, African Americans were 6.7% and other races were 3.3%, RP patients with sun exposure-related skin lesions included in this study tended to be younger (mean age of 62 vs. 60), have lower PSA values (median: 7.4 vs. 6.2) and diagnosed in later years (median: 1998 vs. 2000). Among Caucasians, men with sun exposure-related skin lesions were almost twice as likely to experience a PSA recurrence compared to those without lesions (hazard ratio=1.81;95% CI=1.05-3.11; p=0.03) Conclusions: The diagnosis of sun exposure-related skin lesions in Caucasian men undergoing RP is independently associated with increased risk for PSA recurrence. Further studies are warranted to determine the underlying reason for this association.

Desann Maul, Junior, Biology major

Research Mentor: Stephen J. Freedland, MD

Associate Professor, Division of Urologic Surgery, Dept of Surgery, Duke Prostate Center

Urinary Function: A comparative analysis of urinary symptom severity in patients with and without prostate cancer

Background: Urinary symptoms are second to bowel dysfunction in having the greatest negative impact on quality of life. There are treatment options; they will not restore total urinary function but will help to improve one's quality of life. The most common medications include alpha blockers (which relax the muscle of the prostate to better urinary flow) and alpha 5-reductase inhibitors (drugs with anti-androgenic activity which are known to reduce the size of the prostate). There are also behavioral modifications involving biofeedback techniques that retrain the bladder, and there is the option of surgery. Objective: To assess the differences between urinary function in healthy controls, biopsy positive (bx+) and biopsy negative (bx-) patients. Method: participants with a prostate biopsy scheduled between January 2007 and June 2008 were included. To analyze their urinary functions, the men were given take-home questionnaires to return at their next visit. The AUA (American Urological Association) Symptom Score asks a series of 7 questions pertaining to one's emptying functionality. The Rand-12 questionnaire consists of 5 questions regarding the individual's ability to retain urine. Results: The AUA symptom score and RAND 12 score are correlated with a p value of <0.0001. Due to an insufficient number of healthy controls, the primary focus within this study became the bx+ and bx- patients. Conclusion: Our data shows that the biopsy positive and biopsy negative patients within the trials held at the Durham VA showed no significant difference in urinary function.

Jessica Terry, Junior, Mathematics and Engineering major

Research Mentors: Thomas Polascik, MD, PhD

Associate Professor, Division of Urologic Surgery, Dept of Surgery, Duke Prostate Center

and Vladimir Mouraviev, MD, PhD, Division of Urologic Surgery, Dept of Surgery, Duke Prostate Center

The Complication Rate of 3rd Generation Cryosurgical Ablation of the Prostate

Introduction: A significant factor in evaluating treatment outcome for prostate cancer (PCa) is the effects on the quality of life. We present our experience with complications after primary third generation cryotherapy as well as in comparison to first and second generations of cryotherapy.

Methods: Between 1/02 and 5/08, 94 men have undergone cryoablation of the prostate to treat localized PCa. All men had a bone scan prior to treatment. Complications were collectively entered into a database and were represented as preoperative complications and postoperative complications. Over 80% of procedures were done on an outpatient basis.

Results: Of the 36 preoperatively potent men, 24(66.7%) were able to retain their previous level of potency and 7(19.4%) were potent with the use of medical assistance. The incontinence level was as low as 2.3%, only requiring 2-3 pads per day. Ten patients developed temporary urinary retention due to catheter issues. One patient developed urethral slough, and one patient developed urethral stricture. There were no cases of fistula, but two unusual cases of prostatic abscess were reported which were percutaneously drained and successfully treated. There were two cases of temporary pelvic pain. The mean follow-up time was 26.8 months.

Conclusion: Third generation cryoablation of the prostate is safe and effective. This confirms that third generation cryoablation has reduced the number of reported complications and has provided a much more improved quality of life in comparison to first and second generation cryotherapy.

STUDY PERSONNEL

Marva Price, DrPH, RN, FAAN

Principal Investigator

Duke University Medical Center
School of Nursing

Sekara R. Basavaraju (*Dr. Rao*), PhD
Retired June 30, 2008

Collaborating PI for Bennett
College for Women

Michael Cotton, PhD
Assumed Collaborating PI July 1, 2008

Collaborating PI for Bennett
College for Women

Seronda Jackson, PhD

Research Consultant

Diana Tyson, PhD

Research Assistant

PI CONTACT INFORMATION

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