Award Number:  DAMD17-00-1-0082

TITLE:  Pharmacists as Health Educators and Risk Communicators in the Prevention of Prostate Cancer

PRINCIPAL INVESTIGATOR:  Cynthia A. Warrick, Ph.D.

CONTRACTING ORGANIZATION:  Howard University
    Washington, DC 20059

REPORT DATE:  April 2002

TYPE OF REPORT:  Annual

PREPARED FOR:  U.S. Army Medical Research and Materiel Command
    Fort Detrick, Maryland 21702-5012

DISTRIBUTION STATEMENT:  Approved for Public Release;
    Distribution Unlimited

The views, opinions and/or findings contained in this report are those of the author(s) and should not be construed as an official Department of the Army position, policy or decision unless so designated by other documentation.
**REPORT DOCUMENTATION PAGE**

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing this collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

<table>
<thead>
<tr>
<th>1. AGENCY USE ONLY (Leave blank)</th>
<th>2. REPORT DATE</th>
<th>3. REPORT TYPE AND DATES COVERED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>April 2002</td>
<td>Annual (1 Apr 01 - 31 Mar 02)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4. TITLE AND SUBTITLE</th>
<th>5. FUNDING NUMBERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharmacists as Health Educators and Risk Communicators in the Prevention of Prostate Cancer</td>
<td>DAMD17-00-1-0082</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6. AUTHOR(S)</th>
<th>7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cynthia A. Warrick, Ph.D.</td>
<td>Howard University</td>
</tr>
<tr>
<td></td>
<td>Washington, DC 20059</td>
</tr>
<tr>
<td></td>
<td>E-Mail: <a href="mailto:cwarrick@sph.uth.tmc.edu">cwarrick@sph.uth.tmc.edu</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>8. PERFORMING ORGANIZATION REPORT NUMBER</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)</th>
<th>10. SPONSORING / MONITORING AGENCY REPORT NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. Army Medical Research and Materiel Command</td>
<td></td>
</tr>
<tr>
<td>Fort Detrick, Maryland 21702-5012</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>11. SUPPLEMENTARY NOTES</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>12a. DISTRIBUTION / AVAILABILITY STATEMENT</th>
<th>12b. DISTRIBUTION CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approved for Public Release; Distribution Unlimited</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>13. ABSTRACT (Maximum 200 Words)</th>
</tr>
</thead>
<tbody>
<tr>
<td>The purpose of this study is to determine if and how pharmacists can play a significant part in the prevention of prostate cancer. The study is divided into three phases. Phase I (Year 1) involved the identification of community pharmacists who are willing to serve as health educators on prostate cancer in the community-pharmacy setting. Phase II is the design, pilot testing, and evaluation of a prostate cancer education and communication program that will be used to educate pharmacists on prostate cancer and how this information should be communicated to the public.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14. SUBJECT TERMS</th>
<th>15. NUMBER OF PAGES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharmacists, Prostate Cancer, Education &amp; Training</td>
<td>42</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>16. PRICE CODE</th>
<th>17. SECURITY CLASSIFICATION OF REPORT</th>
<th>18. SECURITY CLASSIFICATION OF THIS PAGE</th>
<th>19. SECURITY CLASSIFICATION OF ABSTRACT</th>
<th>20. LIMITATION OF ABSTRACT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Unclassified</td>
<td>Unclassified</td>
<td>Unclassified</td>
<td>Unlimited</td>
</tr>
</tbody>
</table>

NSN 7540-01-280-5500

Standard Form 298 (Rev. 2-89)  Prescribed by ANSI Std. Z39-18
298-102
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cover</td>
<td>1</td>
</tr>
<tr>
<td>SF 298</td>
<td>2</td>
</tr>
<tr>
<td>Table of Contents</td>
<td>3</td>
</tr>
<tr>
<td>Introduction</td>
<td>4</td>
</tr>
<tr>
<td>Body</td>
<td>4</td>
</tr>
<tr>
<td>Key Research Accomplishments</td>
<td>5</td>
</tr>
<tr>
<td>Reportable Outcomes</td>
<td>6</td>
</tr>
<tr>
<td>Conclusions</td>
<td>6</td>
</tr>
<tr>
<td>References</td>
<td>6</td>
</tr>
<tr>
<td>Appendices</td>
<td>6</td>
</tr>
</tbody>
</table>
Introduction

The research study, "Pharmacists as Health Educators and Risk Communicators in the Prevention of Prostate Cancer" is a prostate cancer education for prevention project. The principle investigator is Cynthia Warrick, formerly at Howard University; she is now an Assistant Professor, Management & Policy Sciences, at the University of Texas Houston School of Public Health. This study proposes to define how pharmacists can play an integral role in the early detection and prevention of prostate cancer. The specific aims of this research study are: 1. To identify community pharmacists who are willing to serve as health educators and risk communicators on prostate cancer; 2. To design a program to educate and train pharmacists in risk communication and prostate cancer; and 3. To design a format whereby pharmacists are able to perform health education on prostate cancer in the community pharmacy setting. This study will be conducted in three phases: Phase I is the development, administration, and evaluation of a survey instrument that will assess pharmacists' willingness to counsel on prostate cancer, their present knowledge about prostate cancer, their interests in education programs on prostate cancer, and the feasibility of conducting public education in the community pharmacy setting. Phase II is the design, pilot testing, and evaluation of a prostate cancer education and communication program that will be used to educate pharmacists on prostate cancer and how this information should be communicated to the public. It will involve videotaped lectures that can be viewed through television and computer formats. Phase III is the design, testing, and evaluation of the prostate cancer implementation program. This part of the study consists of a Workgroup that will design how the program should be implemented in the pharmacy for maximum effectiveness and feasibility. It involves the design of an educational videotape that will be shown to the public during the counseling session. The workgroup will also design the educational materials that will be distributed to the public. All media products will be designed to reflect sensitivities to cultural diversity. It is expected that the products of this study would be utilized in a national effort on prostate cancer prevention.

Body

The Phase 1 activities were reported in the 2000-2001 annual report. This report covers the Phase 2 activities beginning April 1, 2001 through March 31, 2002. The Principle Investigator changed institutions and will complete the grant program activities at the new institution once the transfer from Howard University to the University of Texas Houston School of Public Health takes place. The Phase 2 tasks that were approved in the Statement and Work and completed in Year 2 included:

Task: Design a Prostate Cancer Education & Communication Program
From the Phase 1 survey, 31 of the pharmacists polled indicated that they would like to participate in the prostate cancer education and training program. These pharmacists were invited to a Continuing Education Workshop on Prostate Cancer. The purpose of the workshop was to get feedback on the proposed content of the presentation to determine whether it fulfilled the goals of the program, to provide practice-based information on prostate cancer for community pharmacists to communicate to their patients. The workshop materials were developed by Dr. Cynthia Warrick, Dr. Frederick Lombardo (Oncology Board Certified Clinical Pharmacist), Dr. Kimberly Dinh (Oncology Cancer Fellow, Howard University Hospital), staff from the Howard University Cancer Center and 3 students in the pharmacy school. The lecture was compiled into a 1 and ½ hour power point presentation.

Pharmacists that indicated their willingness to participate in the Prostate Cancer Education workshop were invited to attend the workshop at the Channel Inn-Pier 76 Restaurant in Washington, DC, on August 24, 2001, at 6:00p.m. The workshop lasted 2 hours. Dr. Frederick Lombardo gave the lecture to the audience of 35 pharmacists and School of Pharmacy faculty at the Pier 96 restaurant Main Galley banquet room. Most of the participants were African American or of African descent and were male. There were only 5 women pharmacists present at the workshop. Dinner and a $15 cash incentive were provided to the participants as well as 2 hours of continuing education credit for their cooperation in evaluating the program content, presentation, and format. The presentation was videotaped. Each of the participants provided written evaluations of the workshop.

**Workshop Findings**

All of the pharmacist participants agreed that prostate cancer was an important topic and that they would want additional information and future updates. The participants gave an overall ranking of 5 (strongly agree) on the Likert scale, for the program. Many commented on the content and format: “The program was too long. The program was too technical for pharmacists who had been in retail practice for a number of years. The program provided good information, but much of it would not be utilized in the community setting. The speaker was excellent and made everyone comfortable.”

Feedback from the workshop participants was utilized to modify the training program. It will be shortened to a 45 minute video presentation with 15 minutes of slides for 1 hour of continuing education credit. Dr. Frederick Lombardo will continue as the presenter for the training video; he was received very well by the diverse audience. This portion of the project will be completed in Year 3.

**Key Research Accomplishments**

- Pilot testing of proposed Prostate Cancer education and communication materials in workshop format
- Evaluation of workshop by 35 Washington, DC practicing pharmacists
Reportable Outcomes

- Phase 1 results were submitted in a paper to the Journal of the National Medical Association.
- Phase 1 results were presented in a paper at the Annual Convention of the American Pharmaceutical Association, March 2002, Philadelphia, PA.

Conclusions

Phase 2 of the "Pharmacists as Health Educators and Risk Communicators in the Prevention of Prostate Cancer" was successful in completing all of the Tasks in the approved statement of work. Because the Prinicipal Investigator has changed institutions, the Phase 3 activities have been delayed by the grant transfer from Howard University to the University of Texas Houston Health Science Center. All of the grant activities that needed to take place in Washington, DC have been completed. The PI has identified contractors in Houston to complete the Phase 3 activities. Depending on when the transfer is complete, a request for a time extension may be required for completion of the Phase 3 activities.

The accomplishments in Phase 1 and 2 are currently have been documented in a proposal to the Pfizer Health Literacy Initiative. This grant if funded, will utilize the video produced in the Phase 3 activities to develop a touch screen interactive computer presentation on prostate cancer for minority communities in Houston.

The findings in Phase 1 of this study concluded that pharmacists are willing to participate as health educators and risk communicators in the prevention of prostate cancer. Phase 2 findings confirmed that the approach taken by this project was relevant to practicing pharmacists and well received. Pharmacists, however, would like a shorter presentation with more practice-related examples. These feedback will be utilized to produce the video and computer formats in Phase 3.

So what does this Mean? The results indicate pharmacists recognize that by becoming experts on prostate cancer, they can provide a valuable service to their patients and community. This project will serve as a model for national distribution of prostate cancer education for community pharmacists.

References

No new references were utilized.

Appendices
C.V. for Dr. Frederick Lombardo
C.V. for Dr. Kimberly Dinh
CURRICULUM VITAE

Dr. Fredric A. Lombardo,
Pharm.D, M.S., R. Ph., BCPS, BCNSP, BCOP, BCPP, CGP, FACSP
13503 Apple Barrel Court
Herndon, Virginia 20171-4006
703-481-0314 (Home)
202-806-4205 (College)
202-806-5539 (Howard University Cancer Center)

DATE OF INITIAL APPOINTMENT: 1 July 1995
DATE OF CURRENT APPOINTMENT: 1 July 1997

EDUCATION:

<table>
<thead>
<tr>
<th>Institution</th>
<th>Degree/Grad Yr</th>
<th>Years Attended</th>
<th>Major</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duquesne University</td>
<td>B.S.(Pharm)/1971</td>
<td>1966-1971</td>
<td>Pharmacy</td>
</tr>
<tr>
<td>Florida Institute Of Technology</td>
<td>M.S./1979</td>
<td>1977-1979</td>
<td>Statistics</td>
</tr>
<tr>
<td>Mercy Hospital</td>
<td>Residency/1973</td>
<td>1972-1973</td>
<td>Pharmacy</td>
</tr>
</tbody>
</table>

LICENSURE
Commonwealth of Pennsylvania Board of Pharmacy (1972)
Commonwealth of Virginia Board of Pharmacy (1976)
Texas Board of Pharmacy (1981)
District of Columbia Board of Pharmacy (1997)

RESIDENCY
Residency in Hospital Pharmacy, Mercy Hospital, Pittsburgh, Pennsylvania (1973) (Clinical Pharmacy with Emphasis in Oncology Practice)

CERTIFICATION
Board Certification in Pharmacotherapy Specialty (1993)
Board of Pharmaceutical Specialties
Board Certification in Nutritional Support Pharmacy (1997)
Board of Pharmaceutical Specialties
Board Certification in Oncology Pharmacy (1998)
Board of Pharmaceutical Specialties
Board Certification in Psychiatric Pharmacy Practice (2000)
Board of Pharmaceutical Specialties
Board Certification in Geriatric Pharmacy (2001)
Commission for Certification in Geriatric Pharmacy

SUMMARY OF CAREER

Assistant Professor, Clinical and Administrative Pharmacy Sciences, School of Pharmacy, College of Pharmacy, Nursing, and Allied Health Sciences, Howard University, Washington, DC 20059, 1995-Present.

Assistant Professor, Department of Pharmaceutical Sciences, School of Pharmacy, College of Pharmacy, Nursing, and Allied Health Sciences, Howard University, Washington, DC 20059, 2001-Present.

Assistant Professor, Graduate School, Howard University, Washington, DC 20059, 2000-Present.

Attending: Clinical Pharmacy Services, Howard University Cancer Center, Howard University, Washington, DC 20060, 1995-Present.

Faculty, Department of Psychiatry, Howard University Hospital, Howard University, Washington, D.C. 20060, 1999-Present.

Assistant Professor, Howard University Cancer Center, College of Medicine, Howard University, Washington, DC 20060, 1995-Present

Assistant Professor and Consultant Faculty, Center for Sickle Cell Disease, College of Medicine, Howard University, Washington, DC 20060, 1995-Present

Adjunct Assistant Professor, F. Lee Hebert School of Medicine, Uniformed Services University of the Health Sciences (USUHS), Bethesda, Maryland 20814-4799, 1995-Present

Adjunct Faculty, The Graduate School of Nursing, Uniformed Services University of the Health Sciences (USUHS), Bethesda, Maryland 20814-4799, 1995-Present.

Adjunct Assistant Professor, Graduate School of Nursing, The Catholic University of America, Washington, DC, 1996-Present.
Adjunct Assistant Professor, The Foundation for Advanced Education in the Sciences (FAES) Graduate School, The National Institutes of Health, Bethesda, Maryland 20814-1460, 1996-Present

Clinical Adjunct Assistant Professor, School of Nursing, Montgomery College, Tacoma Park, Maryland, 1996-Present.

Lecturer, School of Nursing, University of Maryland, Baltimore, Maryland, 2001-Present.

Lecturer, School of Nursing, University of Maryland, Shady Grove Campus, Rockville, Maryland, 2000 to Present.

Lecturer, Graduate School of Nursing, University of Maryland, Shady Grove Campus, Rockville, Maryland, 2001 to Present.

Senior Clinical Pharmacy Specialist, Bone Marrow Transplant Section, Hematology Branch, The National Heart, Lung, and Blood Institute, and Pharmacy Department, Clinical Center, The National Institutes of Health, Bethesda, Maryland 20814, 1992-1995.

Chief, Cancer Treatment Section, Hematology-Oncology Service, Department of Medicine, Walter Reed Army Medical Center, Washington, DC, 1986-1992.

Preceptor, Hematology-Oncology Pharmacy Residency, Department of Pharmacy, Walter Reed Army Medical Center, Washington, DC 1986-1992.

Chief, Hematology-Oncology Pharmacy Service, Department of Pharmacy, Walter Reed Army Medical Center, Washington, DC, 1986-1992. (Lieutenant Colonel, USA)

Chief, Outpatient Pharmacy Service, Department of Pharmacy, Walter Reed Army Medical Center, Washington, DC, 1985-1986. (Major, USA)


Chief, Hematology-Oncology Pharmacy Section, Pharmacy Service, Brooke Army Medical Center, Fort Sam Houston, Texas 78234, 1980-1985.

Senior Clinical Pharmacist, Hematology-Oncology Service, Department of Medicine, Brooke Army Medical Center, Fort Sam Houston, Texas 78234, 1980-1985.
Chief, Pharmacy Service, United States Army Medical Activity, and Kenner Army Community Hospital, Fort Lee, Virginia, 1977-1980. (Captain, USA)

Coordinator, Clinical Pharmacy Services, Department of Pharmacy, Shadyside Hospital, Pittsburgh, Pennsylvania, 1974-1976.

ACADEMIC APPOINTMENTS

Instructor, Clinical and Professional Practice, School of Pharmacy, Duquesne University, Pittsburgh, Pennsylvania, 1972-1973.

Clinical Preceptor and Instructor, College of Pharmacy, Medical College of Virginia, Richmond, Virginia, 1977-1980.

Clinical Assistant Professor, School of Pharmacy, The University of Texas at San Antonio, San Antonio, Texas 78234, 1981-1985.

Adjunct Assistant Professor, Department of Clinical Pharmacy Sciences, College of Pharmacy and Pharmacal Sciences, Howard University, Washington, DC 20059, 1986-1995.

Clinical Assistant Professor, College of Pharmacy, University of Maryland, Baltimore, Maryland, 1990-1992.

Clinical Assistant Professor, Clinical Practice, College of Pharmacy, Creighton University, Omaha, Nebraska, 1990-1992.

Assistant Professor, Department of Clinical and Administrative Pharmacy Sciences, Division of Pharmacy, College of Pharmacy, Nursing, and Allied Health Sciences, Howard University, Washington, DC 20059, 1995-Present.

Assistant Professor, Howard University Cancer Center, College of Medicine, Howard University, Washington, DC 20060, 1995-Present.

Assistant Professor, Center for Sickle Cell Disease, College of Medicine, Howard University, Washington, DC 20060, 1995-Present.

Adjunct Assistant Professor, The Graduate School of Nursing, The Catholic University of America, Washington, DC, 1996-Present.

Adjunct Assistant Professor, The Graduate School of Nursing, The Uniformed Services University of the Health Sciences (USUHS), Bethesda, Maryland 20814-4799, 1995-Present
Adjunct Assistant Professor, The F. Lee Hebert School of Medicine, The Uniformed Services University of the Health Sciences (USUHS), Bethesda, Maryland 20814-4799, 1995-Present.

Adjunct Assistant Professor, The Foundation for Advanced Education in the Sciences Graduate School at the National Institutes of Health, The National Institutes of Health, Bethesda, Maryland 20814-1460, 1996-Present.

Adjunct Clinical Assistant Professor, School of Nursing, Montgomery College, Tacoma Park, Maryland, 1996-Present.

Assistant Professor (W.O.C.), Department of Psychiatry, College of Medicine, Howard University, Washington, D.C., 1998-Present.

Assistant Professor (W.O.C.), Department of Primary Care and Community Medicine, College of Medicine, Howard University, 1996-Present.

Lecturer, School of Nursing, University of Maryland University College, Shady Grove, Maryland, 2000-Present.

Assistant Professor, Graduate School, Howard University, Washington, DC 20059, 2000-Present

COMMUNITY ACTIVITIES

Invited Exhibitor, "4 Your Health And Fitness Expo", Pharmacy Service, Center for Sickle Cell Disease, and Howard University Cancer Center, 15-17 January 1999, Washington Convention Center, Washington, D.C.

Contributor, "Making a Difference in the Workplace: Pharmacists as Good Citizens of the Community" - Herbal/Alternative Medicine Workshop, NBC4: Your Health Fitness Expo 1998 Rho Chi National Chapter Award, Beta Sigma Chapter.


Invited Contributor, "Health Fair", Center for Sickle Cell Disease, 2121 Georgia Avenue, NW, Howard University, Washington, D.C., 12 September 1997.


Invited Participant, “4 Your Health and Fitness Expo”, NBC4, Convention Center, Washington, DC., Represented the Department of Pharmacy, Howard University Cancer Center, and the Center for Sickle Cell Disease, 15-16 January 2000.

Invited Participant, Howard University Hospital Open House, Howard University Hospital, Washington, DC., 19 June 1999.

Invited Participant and Member, Panel Discussion, Colorectal Screening Program, Howard University Cancer Center, Washington, DC, 11 March 2000.

Invited Participant, Howard University Hospital Open House, Howard University Hospital, Washington, DC, 17 June 2000.

Invited Participant, “4 Your Health and Fitness Expo”, NBC4, Convention Center, Washington, DC, Represented the Department of Pharmacy, Howard University Cancer Center, and the Center for Sickle Cell Disease, 17-18 February 2001.


GRANTS AND CONTRACTS FUNDED

a. Title: “Ask the Pharmacy Doctor” Radio Program, WWRC-980
   Role: Principal Investigator
   % Effort: 50.0
Agency: Ortho-Biotech

Amount: $1600.00

b. Title: Comparison of Tramadol Efficiency Versus Oxycodone/Acetaminophen in the management of pain with Sickle Cell disease or cancer

   Role: Principal Investigator

   % Effort: 30.0

   Agency: Ortho-McNeil

   Amount: $2000.00


   Role: Co-Principal Investigator

   % Effort: 20.0

   Agency: Oncotech

   Amount: $1000/Patient Enrolled

d. Title: Forensic Chemistry and Toxicology Cases: A Web-Based Distance Learning Course

   Role: Co-Principal Investigator

   % Effort: 10.0

   Agency: Fund for Academic Excellence, Howard University

   Amount: $2200

e. Title: Computer Based Refresher Workshop in Pharmacokinetics for Pharmacists and Physicians

   Role: Investigator
% Effort: 10.0

Agency: Fund for Academic Excellence, Howard University

Amount: $5000

g. Title: Multidisciplinary HIV/AIDS Preceptorship Program

Role: Investigator, Consultant

% Effort: 10.0

Agency: National Minority AIDS Education and Training Center, Howard University

Amount: $200/Hour

h. Title: Comparison of Plasma Levels of Nitric Oxide, cGMP, and Methemoglobin in Sickle Cell Anemia Patients Treated With and Without Hydroxyurea.

Role: Investigator

% Effort: 5.0

Agency: General Clinical Research Center, Howard University

Amount: Undetermined

Title: A Phase II Study of Vitamin E in Healthy Men and Patients with Prostate Cancer.

Role: Co-Investigator

% Effort: 10.0

Agency: Howard University Cancer Center

Amount: $2000

Title: Estudio Clinico De Fase II De Gemcitabina Para Pacientes Con Cancer De Vesicula Biliar Avanzado.

Role: Investigator
% Effort: 10.0

Agency: University of Santiago, Santiago, Chile

j. Title: A Phase III Double Blind, Randomized, Placebo Controlled Study of Porfiromycin When Used as an Adjuvant to Radiation Therapy in Patients with Head and Neck Cancer.

    Role: Investigator

    % Effort: 5.0

    Agency: Vion Pharmaceuticals, Inc, Covance CAPS Ltd.

k. Title: The National Minority AIDS Education and Training Center

    Role: Consultant

    % Effort: 10.0

    Agency: National Minority AIDS Education and Training Center Grant

    $5,000 per annum

    Period: 1 September 2000 through 31 August 2001

GRANTS APPROVED BUT NOT FUNDED/PENDING

a. Title: Use of a Patient-Driven Computerized Reporting System to Evaluate Gender Differences in Adverse Symptoms for AIDS Patients Receiving Antiretroviral Therapy

    Role: Principal Investigator

    % Effort: 25.0

    Agency: Centers for Disease Control, Public Health Service, Department of Health and Human Services

    Amount Requested: $69,725.00
Grant Period: 1 October 1998 To 1 October 1999

b. Title: Recompetition of Phase II Clinical Trials of New Chemopreventive Agents

Role: Principal Investigator

% Effort: 25.0

Agency: National Cancer Institute

Amount Requested: $454,000.00

Grant Period: 15 September 1998 To 14 September 2003

c. Title: Development of a Neural Network or Generic Algorithm Regarding the Relationships Between Prothrombin Time Versus INR's Versus Blood Levels of Warfarin.

Role: Principal Investigator

% Effort: 30.0

Agency: DuPont

Amount Requested: $150,000.00

Grant Period: 1 October 1998 To 1 October 2001

d. Title: Study of Prostate Cancer in the Community

% Effort: 5.0

Agency: SBIR

e. Title: Development and Implementation of a Radio Show, "Ask the Pharmacy Doctor": A 60 Minute Medication Education Program and Clinical Rotation Site for Pharmacy Students.

Role: Principal Investigator

% Effort: 25%

Agency: U.S. Bioscience
Amount Requested: $5000.00

Grant Period: 1 November 1998 through 30 March 1999

f. Title: Implementation of An Anticoagulant Clinic at Howard University Hospital as a Clinical Rotation Site for Pharmacy Students.

Role: Principal Investigator

Agency: Fund for Academic Excellence, Howard University

Amount Requested: $5000.00

Grant Period: 1 January 1999 through 30 April 1999.

g. Title: A Phase II Study of the Use of Trimetrexate, Cisplatin, and 5-Fluorouracil/Leucovorin in Stage IV Head and Neck Malignancies.

Role: Co-Principal Investigator

% Effort: 10.0

Agency: U.S. Bioscience

Amount Requested: $20,000.00

Grant Period: 1 October 1998 To 1 October 1999

h. Title: Development and Implementation of a Radio Show, “Ask the Pharmacy Doctor”, a 60 Minute Medication Education Program as a Clinical Rotation Site for Pharmacy Students.

Role: Principal Investigator

% Effort: 45.0

Agency: Fund for Academic Excellence, Howard University

Amount Requested: $5,000.00

Grant Period: Fall 1998 to Fall 1999
## COURSES TAUGHT

<table>
<thead>
<tr>
<th>COURSE</th>
<th>YEAR</th>
<th>SEMESTER</th>
<th>LECTURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seminar*</td>
<td>1995</td>
<td>Fall</td>
<td>17</td>
</tr>
<tr>
<td>Contemp Pharm Prc</td>
<td>1995</td>
<td>Fall</td>
<td>2</td>
</tr>
<tr>
<td>Pharmacotherapy I</td>
<td>1995</td>
<td>Fall</td>
<td>8</td>
</tr>
<tr>
<td>Pharm Dispensing</td>
<td>1995</td>
<td>Fall</td>
<td>2</td>
</tr>
<tr>
<td>Pathophysiology II</td>
<td>1996</td>
<td>Spring</td>
<td>10</td>
</tr>
<tr>
<td>Seminar *</td>
<td>1996</td>
<td>Spring</td>
<td>16</td>
</tr>
<tr>
<td>Antimicrobials</td>
<td>1996</td>
<td>Spring</td>
<td>7</td>
</tr>
<tr>
<td>Drugs &amp; The Elderly</td>
<td>1996</td>
<td>Spring</td>
<td>2</td>
</tr>
<tr>
<td>Pharmacotherapy II</td>
<td>1996</td>
<td>Spring</td>
<td>12</td>
</tr>
<tr>
<td>OTC/Home Health Care</td>
<td>1996</td>
<td>Spring</td>
<td>6</td>
</tr>
<tr>
<td>Seminar * (B.S. Students)</td>
<td>1996</td>
<td>Fall</td>
<td>17</td>
</tr>
<tr>
<td>(Pharm.D. Students)</td>
<td>1996</td>
<td>Fall</td>
<td>17</td>
</tr>
<tr>
<td>Contemp Pharm Prc</td>
<td>1996</td>
<td>Fall</td>
<td>1</td>
</tr>
<tr>
<td>Pharmacotherapy I</td>
<td>1996</td>
<td>Fall</td>
<td>15</td>
</tr>
<tr>
<td>Pathophysiology I</td>
<td>1996</td>
<td>Fall</td>
<td>12</td>
</tr>
<tr>
<td>Pharmacy Dispensing</td>
<td>1996</td>
<td>Fall</td>
<td>2</td>
</tr>
<tr>
<td>Pharmacy Dispensing Lab</td>
<td>1996</td>
<td>Fall</td>
<td>16</td>
</tr>
<tr>
<td>Health Care Ethics</td>
<td>1996</td>
<td>Fall</td>
<td>2</td>
</tr>
<tr>
<td>Contemp Pharm Prc</td>
<td>1997</td>
<td>Spring</td>
<td>1</td>
</tr>
<tr>
<td>OTC/Home Health Care</td>
<td>1997</td>
<td>Spring</td>
<td>6</td>
</tr>
<tr>
<td>Pharmacotherapy II</td>
<td>1997</td>
<td>Spring</td>
<td>12</td>
</tr>
<tr>
<td>Antimicrobials</td>
<td>1997</td>
<td>Spring</td>
<td>7</td>
</tr>
<tr>
<td>Drugs &amp; The Elderly</td>
<td>1997</td>
<td>Spring</td>
<td>3</td>
</tr>
<tr>
<td>Clinical Biochem</td>
<td>1997</td>
<td>Spring</td>
<td>12</td>
</tr>
<tr>
<td>(Med School)</td>
<td>1997</td>
<td>Spring</td>
<td>4</td>
</tr>
<tr>
<td>Principles of Research **</td>
<td>1997</td>
<td>Spring</td>
<td>16</td>
</tr>
<tr>
<td>Seminar* (B.S. Students)</td>
<td>1997</td>
<td>Spring</td>
<td>16</td>
</tr>
<tr>
<td>(Pharm.D. Students)</td>
<td>1997</td>
<td>Spring</td>
<td>14</td>
</tr>
<tr>
<td>Health Care Ethics</td>
<td>1997</td>
<td>Spring</td>
<td>1</td>
</tr>
<tr>
<td>Contemp Pharm Practice</td>
<td>1997</td>
<td>Fall</td>
<td>1</td>
</tr>
<tr>
<td>Pharmacotherapy I</td>
<td>1997</td>
<td>Fall</td>
<td>12</td>
</tr>
<tr>
<td>Pathophysiology I</td>
<td>1997</td>
<td>Fall</td>
<td>12</td>
</tr>
<tr>
<td>Pharmacy Dispensing</td>
<td>1997</td>
<td>Fall</td>
<td>2</td>
</tr>
<tr>
<td>Pharmacy Dispensing Lab</td>
<td>1997</td>
<td>Fall</td>
<td>16</td>
</tr>
<tr>
<td>Clinical Biochem</td>
<td>1997</td>
<td>Fall</td>
<td>14</td>
</tr>
<tr>
<td>(Med School)</td>
<td>1997</td>
<td>Fall</td>
<td>1</td>
</tr>
<tr>
<td>Health Care Ethics</td>
<td>1997</td>
<td>Fall</td>
<td>1</td>
</tr>
<tr>
<td>OTC/Home Health Care</td>
<td>1998</td>
<td>Spring</td>
<td>6</td>
</tr>
</tbody>
</table>
Pharmacotherapy II 1998 Spring 12
Pathophysiology II 1998 Spring 2
Antimicrobials 1998 Spring 5
Drugs & The Elderly 1998 Spring 3
Clinical Biochem (Med School) 1998 Spring 14
Principles of Research ** 1998 Spring 2
Health Care Ethics 1998 Spring 2

* Coordinator
** Co-coordinator

RESEARCH PROJECTS SUPERVISED (IRB APPROVAL)

a. Title: Oral Granisetron Plus Dexamethasone Versus Dexamethasone Alone in the Prevention of Delayed Cisplatin-Induced Emesis

   Student: Brenda V. Borders-Hemphill

   Degree/Year: Pharm.D./1997

b. Title: Comparison of Tramadol Efficiency Versus xycodone / Acetaminophen in the Management of pain Associated with Sickle Cell Disease

   Student: Sara Yosef

   Degree/Year: Pharm.D./1997

c. Title: Determination of the Prevalence of Myopathy with Niacin and/or HMG-CoA Reductase Inhibitors

   Student: Odunayo Obisesan

   Degree/Year: Pharm.D./1997

d. Title: Determination of the Usage Pattern of Azithromycin and Evaluation of its Effectiveness in the Treatment of Chlamydial Urogenital Infections

   Student: Letitia Wright

   Degree/Year: Pharm.D./1997

PUBLICATIONS: (Refereed Research Articles)


PUBLICATIONS: (Newsletters, Newspaper)


Lombardo, F.A., “Vitamin C May Block the Development of Nitrate Tolerance”, Pharmacy Newsletter, Howard University Hospital, Vol.8, No.4, April, 1998.


ABSTRACTS/POSTERS:


**INVITED PRESENTATIONS: (Selective)**

Lombardo, F.A., “Tramadol (Ultram): A Novel Agent for Pain Management”, 
*Department of Medicine Rounds and Sickle Cell Seminar Series*, Howard 
University Hospital, September 6, 1996.

Lombardo, F.A., “High Dose Chemotherapy and Bone Marrow 
Transplantation”, *Seminars In Oncology*, Howard University Cancer Center, 
Howard University, August 28, 1997.

Lombardo, F.A. “Nutrition in the Cancer Patient”, *Hematology-Oncology 
Pharmacy Orientation Course*, Walter Reed Army Medical Center, Washington, 

*Hematology-Oncology Pharmacy Orientation Course*, Walter Reed Army 

Lombardo, F.A., “Update on the Use of Tramadol in the Sickle Cell and Cancer 
Population”, *General Clinical Research Center Conference*, Howard University 
Hospital, May 1, 1998.

Lombardo, F.A., “New Treatment Strategies in HIV Disease”, *Grand Rounds, 

Lombardo, F.A., “Update Receptor Theory”, *Presentation to 3rd Year 
Psychiatry Residents, St. Elizabeth’s Hospital*, Washington, D.C., October 14, 
1998.

Size, and Statistical Power”, *Presentation to 4th Year Psychiatry Residents, 

Lombardo, F.A., Kark, J. “Cytokine Support in Bone Marrow Failure”, 
*Pathophysiology Conference, Department of Medicine, Howard University 

Lombardo, F.A., “Chemotherapeutic Agents”, *Pediatric Cancer Therapy*, 
Department of Nursing, Howard University Hospital, Washington, D.C., 3 
February 1999.

Lombardo, F.A., “Update in the Use of Growth Factors For Bone Marrow 
Failure”, *Hematology-Oncology Pharmacy Services Course*, Walter Reed Army 
Medical Center, Washington, D.C., 26 February 1999.

26
Lombardo, F.A., Kark, J., "Cytokine Support in Bone Marrow Failure", *Grand Rounds*, Department of Medicine, Walter Reed Army Medical Center, Washington, D.C., 30 April 1999.


Lombardo, F.A., "Herbal Drug Interactions" *Grand Rounds*, Department of Medicine, Northern Virginia Community Hospital, Arlington, Virginia, 13 September 1999.

Lombardo, F.A., "Radiosensitization", Department of Radiation Oncology, Howard University Hospital, Washington, DC, 16 September 1999.


Lombardo, F.A., "General Principles of Chemotherapy in Oncology", Department of Nursing, Howard University Hospital, Washington, DC, 30 September 1999.


Lombardo, F.A., "Safehandling of Antineoplastic Agents", *Certification Course for Oncology Nurses*, Department of Nursing, Howard University Hospital, Washington, DC, 22 March 2000.


Lombardo, F.A., "MICS or Myths", *Pathophysiology Conference*, Department of Medicine, Howard University Hospital, Washington, DC, 15 May 2000.

Lombardo, F.A., "Pain Management in Sickle Cell Disease", *Grand Rounds*, Department of Medicine, Northern Virginia Community Hospital, Arlington, Virginia, 23 May 2000.
Lombardo, F.A., Perlin, E., "Management of Sickle Cell Disease", Pathophysiology Conference, Department of Medicine, Howard University Hospital, Washington, DC, 12 June 2000.


Lombardo, F.A., "Drug-Herbal Interactions and Integrative Therapy for Urologists", Grand Rounds, Department of Urology, Sinai Hospital, Baltimore, Maryland, 23 January 2001.


Lombardo, F.A., “Ethical Dilemmas in Clinical Practice”. Panel Discussion in Advanced Clinical Nursing Practice, Graduate Nursing School, the Uniformed Services University of the Health Sciences, Bethesda, Maryland, 24 April 2001


Lombardo, F.A., “Pharmacists as Health Educators and Risk Communicators in the Prevention of Prostate Cancer”, Continuing Education Program (ACPE # 010-000-01-002-L04), School of Pharmacy, College of Pharmacy, Nursing, and Allied Health Sciences, Howard University, Washington, DC, Delivered at Pier-7 Restaurant, 24 August 2001.


CONTINUING EDUCATION PRESENTATIONS: (Selective)


Lombardo, F.A., "Update on Gastrointestinal Tract Agents", Continuing Education Program, Howard University, The Uniformed Services University of the Health Sciences, Bethesda, Maryland, October 14, 1997.


Lombardo, F.A., "Herbal-Drug Interactions", Continuing Education Lecture, Department of Pharmacy, Northern Virginia Community Hospital, Arlington, Virginia, 13 September 1999.


TELEVISION PRESENTATIONS:


RADIO PRESENTATIONS:


**MEMBERSHIPS AND OFFICES HELD:**

Chairman, Continuing Education Committee, Division of Pharmacy, College of Pharmacy, Nursing, and Allied Health Sciences, 1998-Present

Chairman, Pain Management Task Force, Department of Medicine, Howard University Hospital, September, 1997-Present

Member, Executive Committee, Howard University Cancer Center, 1995-1997

Member, Pharm. D. Research Committee, 1995-Present

Member, Search Committee for Chairman, Department of Clinical and Administrative Pharmacy Sciences, 1997-Present.

Member, Committee on Committees, College of Medicine, 1997-Present

Member, Cancer Committee, Howard University Cancer Center, 1995-Present

Member, Pain Management Committee, Howard University Hospital, 1995-Present

Member, Informatics Committee, Howard University, 1997-Present.

Member, Pharm.D. Education Committee, 1998-Present

Member, University-Wide Graduate/Professional Judicial Board, Howard University, 1998-Present

Member, Adverse Drug Reaction Subcommittee, Pharmacy and Therapeutics Committee, Howard University Hospital, 1995-Present.

Member, Antibiotic Subcommittee, Pharmacy and Therapeutics Committee, Howard University Hospital, 1995-Present.
Member, Pharmacy and Therapeutics Committee, Howard University Hospital, 1995-Present.

Chairman, Pain Management Committee, Howard University Cancer Center, 1996-Present.

Member, Graduate Research Committee, Howard University Cancer Center, 1996-Present.

Member, Investigators and Grant Preparation Committee, Center for Sickle Cell Disease, College of Medicine, Howard University, 1996-Present.

Member, Nutrition Support Committee, Howard University Hospital, 1998-Present.

Member, Nutrition Research Committee, Howard University Cancer Center, 1996-Present.

Member, Admission, Retention, and Recruitment Committee, School of Pharmacy, College of Pharmacy, Nursing, and Allied Health Sciences, 1998-Present.

Editorial Staff, Pharmacy Newsletter, Department of Pharmacy, Howard University Hospital, Howard University, 1997-Present

Assistant Editor, The Challenge, Center for Sickle Cell Disease, Howard University, 1999-Present.

Member, East Coast Population Analysis Group, Pharmaceutical Outcomes Research, 1997-Present

Member, Executive Committee, Mid-Atlantic Education and Training Center DC Local Performance Site at Howard University, 1999-2000 grant year.

Member, Library Systems Research/Resources Committee, Faculty Senate, Howard University.

Member, Curriculum Self-Study Subcommittee, School of Pharmacy, College of Pharmacy, Nursing, and Allied Health Sciences, Howard University.

Member, CREST Committee, Howard University.
Member, University of Wisconsin Health System Consortium, 1998 Albumin Nonprotein Colloid and Crystalloid Consensus Development Process.

Member, Advisory Review Panel for the *Strategic Framework for Action’s Fund for Academic Excellence Grants Program*, Howard University, 2000


Elected Member, Council of Experts Committee, United States Pharmacopeia Convention 2000, Rockville Maryland, 2000-Present

Fellow, American Society of Consultant Pharmacists, 2001-Present

**Interviews/Newspaper Publications:**


**PROFESSIONAL ORGANIZATIONS- PHARMACY PRACTICE**

Member, American Society of Health-System Pharmacists

Member, Special Practice Group, Oncology, American Society of Health Organization Pharmacists.

Member, American Pharmaceutical Association

Member, National Pharmaceutical Association

Member, American Association of Consultant Pharmacists
Member, American Association of Colleges of Pharmacy

Member, American College of Clinical Pharmacy

Member, Pennsylvania Pharmaceutical Association

Member, American Association of Nigerian Pharmacists

Member, Virginia Pharmaceutical Association

Member, Potomac Pharmaceutical Association

Member, The National Community Pharmacists Association

Member, The National Home Infusion Association

Member, Rho Chi Society, School of Pharmacy, Howard University

Co-Advisor, Phi Lambda Sigma, Pharmacy Leadership Society, School of Pharmacy, Howard University

Member, Sigma Xi, The Scientific Research Society, Howard University

MEMBERSHIP CANCER RESEARCH GROUPS:

Member, Southwest Oncology Group, 1980-1985

Contributing Member, Pediatric Oncology Group, 1980-1992

Member, Protocol Review Committee, Pediatric Oncology Group, 1986-1990

Member, Drug Standardization Subcommittee, Pediatric Oncology Group, 1981-1986

Chairman, Pharmacy Committee, Pediatric Oncology Group, 1989-1991

Member, Phase I Working Group, National Cancer Institute, 1986-1992

Member, Cancer and Leukemia Group B, 1986-1992

Member, Eastern Cooperative Oncology Group, 1997-Present

Member, North Central Cancer Treatment Group, 1998-Present
MILITARY SCHOOLS:

Officer Basic Course, Fort Sam Houston, Texas

Officer Advanced Course, Fort Sam Houston, Texas

Army Medical Department Logistic Management Course, Fort Sam Houston, Texas

MILITARY AWARDS:

Army Service Medal

Army Commendation Medal

Army Commendation Medal, First Oak Leaf Cluster

Army Commendation Medal, Second Oak Leaf Cluster

Army Commendation Medal, Third Oak Leaf Cluster

Army Achievement Medal

Rank Achieved: Lieutenant Colonel, MSC

SPECIAL MEMBERSHIP:

Course Director, Orientation to Hematology-Oncology Pharmacy, 1987-1992

Course Coordinator, Orientation to Hematology-Oncology Pharmacy Practice, 1986-1987

Member, Autologous Bone Marrow Transplant Team, Brooke Army Medical Center, 1982-1985

Member, Autologous Bone Marrow Transplant Team, Walter Reed Army Medical Center, Washington, DC 1989-1992

Member, American Society of Hospital Pharmacists Accreditation Team for Specialized Residencies, 1990-1992.
Member, ASHP Accreditation Team for Emory University Residency Program, 1991.

Contributor, Hematologic and Neoplastic Disease Committee of the United States Pharmacopoeial Convention, 1986-1994

Member, Mid-Atlantic Oncology Advisory Group, 1997-Present

Member, University of Wisconsin HealthSystem Consortium, 1998 Albumin, Nonprotein Colloid and Crystalloid Consensus Development Process, 1998-Present

Co-Host, “Ask the Pharmacy Doctor” Radio Program, WWRC-980 AM, 1997-Present

Member, SmithKline Beecham Pharmaceuticals’ Consultants Group, 1998-Present

Member, 1999 Neutrexin Regional Advisory Board, 1999-Present.

Editorial Staff, Pharmacy Newsletter, Howard University Hospital, 1997-Present

Editorial Staff, The Challenge, Howard University Center for Sickle Cell Disease, Howard University, 1997-Present.

Member, Rhone-Poulenc Rorer Pharmaceuticals, Inc. (RPR) Docetaxel Advisory Board, 1999.

RESEARCH AWARDS:

The Upjohn Research Award, 1986, and 1992

The Pharmacy Practice Research Award of the American Society of Health-System Pharmacists Research and Education Foundation for the Outstanding Contribution to the Literature of Research Related to Pharmacy Practice in Organized Health Care Settings, 1994. (Presented at Miami Beach, Florida, ASHP Mid-Year Clinical Meeting, December, 1994.)

OTHER AWARDS AND HONORS:
Certificate of Appreciation for Outstanding Service and Contributions to the Pharmacy Program, Duquesne University, Black Lion Battalion, 19 October 1986

Honored Faculty Award, College of Pharmacy and Pharmaceutical Sciences, Howard University, May, 1997.

Excellence in Leadership Award For Outstanding Leadership in Clinical Pharmacy Services for 1997-1998 at Howard University Hospital, October, 1998.

Keynote Speaker, Doctor of Pharmacy Graduating Class of 1997, May, 1997

Honored Faculty Award, Division of Pharmacy, College of Pharmacy, Nursing, and Allied Health Sciences, Howard University, May, 1998.

Certificate of Appreciation, Howard University College of Medicine, Program in Clinical Ethics, For Outstanding Leadership and Teaching in the Health Care Ethics Course, 1997-1998.


Certificate of Appreciation, Department of the Army, Walter Reed Army Medical Center, Hematology-Oncology Pharmacy Services Course, 22 February 1999- 5 March 1999.


Certificate of Appreciation, Department of the Army, Walter Reed Army Medical Center, Support of Annual Hematology-Oncology Pharmacy Short Course, 28 February 2000 through 10 March 2000.
Letter of Appreciation, Chief, Radiation Oncology, Howard University Hospital, Support of Graduate Teaching Program, Radiation Oncology, 14 December 1999.

Letter of Appreciation, Executive Director/CEO, Howard University Hospital, Participation and Dedication at the NBC4 Your Health and Fitness Expo, 21 January 2000.


Letter of Appreciation, Graduate School of Nursing, Uniformed Services University of the Health Sciences, Bethesda, Maryland, 1 June 2001.

Fellow, American Society of Consultant Pharmacists, Alexandria, Virginia, 2001

COURSES TAUGHT AT OTHER INSTITUTIONS:

FAES Graduate School at the National Institutes of Health, Bethesda, Maryland: PHAR 311- Current Concepts in Nursing Pharmacology and Therapeutics. (3 graduate credits)

The Catholic University of America, Washington, DC: N-610- Pharmacology in Advanced Nursing.  
(3 graduate credits)

Uniformed Services University of the Health Sciences, F. Lee Hebert School of Medicine, Bethesda, Maryland: Ethical, Legal and Social Aspects of Medical Care (3 graduate credits)

Montgomery College, Tacoma Park, Maryland: Pharmacology in Oncology (3 undergraduate credits)

Howard University College of Medicine, Washington, D.C.: Clinical Biochemistry (222-182-03) 
& (901-182-02) (2 or 3 graduate credits)

University of Maryland, School of Nursing, Shady Grove Campus, Rockville, Maryland.

University of Maryland, Graduate School of Nursing, Shady Grove Campus, Rockville, Maryland.

University of Maryland, School of Nursing, Baltimore, Maryland
KIMDUNG THI DINH
3617 S. 19th Street
Arlington, VA 22204
(703) 979-5155

EDUCATION
BS Degree in Chemistry, May 1992 (GWU)
BS Degree in Zoology, May 1992 (GWU)
Pharm.D , May 2001 (Howard University)

EXPERIENCES
June 01 to present
Oncology Pharmacy Fellowship, Howard University
February 99 to
Pharmacy Technician at INOVA FairOaks Hospital
May 01
Duty: IV preparation, SUREMED inventory, and Order entry.
Summer 98 to
Pharmacy Technician at CVS
Duty: Customer assistance, Order entry, Prescription preparation.
Fall 95 to
Research project at the George Washington University,
Summer 97
Pharmacology Department.
Subject Studied: Quantitative Assay for Angiogenesis
Summer 94 to
Research Assistant at the George Washington University,
Summer 95
Biological Sciences Department.
Subject Studied: Molecular Characterization of Glyoxysome in
Castor Beans.
Summer 92 to
Research Assistant at the National Institute of Health.
Summer 94
Subject Studied: Molecular Study of Sickle Cell Anemia.
Spring 90, 91
Independent Study at the George Washington University,
And 92
Biological Sciences Department.
Subject studied: Molecular Study of MDR1 gene in human.
Summer 90
Lab assistant at VERSAR, Springfield, VA.
Duties: Preparing samples including water, soil, brick, oil, and
Wipes for analytical instrumental analysis such as GC or GC/MS.

PERSONAL
U.S. Citizen
Member of the Rho Chi at Howard University (National
Pharmaceutical Honor Society)
Member of American Pharmaceutical Association
Vice-President of Vietnamese Cultural Society of Washington and
Metropolitan Area.

REFERENCE
Dr. Cynthia Warrick  Phone # (202) 806-4919
Glenn Anderson  Phone # (703) 391-3640
Director of Pharmacy at INOVA FairOaks:
Dr. Robert Donaldson  Phone # (202) 994-6090