GRANT NUMBER DAMD17-96-1-6227

TITLE: Dietary Intake, Alcohol Consumption, and Menopausal Status: A Comparison of Hispanic and Non-Hispanic White Women

PRINCIPAL INVESTIGATOR: Kathy Baumgartner

CONTRACTING ORGANIZATION: The University of Texas Health Science Center at Houston Houston, Texas 77225

REPORT DATE: September 1997

TYPE OF REPORT: Annual

PREPARED FOR: Commander U.S. Army Medical Research and Materiel Command Fort Detrick, Frederick, 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.
Dietary Intake, Alcohol Consumption, and Menopausal Status: A Comparison of Hispanic and Non-Hispanic White Women

Kathy Baumgartner

The University of Texas Health Science Center at Houston
Houston, Texas 77225

Commander
U.S. Army Medical Research and Materiel Command
Fort Detrick, Frederick, Maryland 21702-5012

The first year of work towards the completion of a doctoral degree, focused on breast cancer epidemiology, at the University of Texas School of Public Health (UTSPH), Houston, Texas has been completed. Data are a subset of that collected for the study, 'Breast Cancer Epidemiology in NM Hispanic Women'. The Principal Investigator of this training grant served as Project Director of this study conducted by the Epidemiology and Cancer Control Program at the University of New Mexico. This statewide, population-based case-control study includes approximately 711 cases and 844 matched controls. Incident cases (January 1, 1992 - December 31, 1994) were ascertained through the New Mexico Tumor Registry. Controls were selected and matched on health planning district, ethnicity, and age-group. The data collected included demographics, reproductive and medical history, medication usage, cigarette usage and alcohol consumption, ethnic identification and acculturation, occupational and environmental factors, and diet. The dissertation research will focus on dietary factors, stratified on ethnicity and menopausal status. These will include macronutrients and micronutrients, as well as history of alcohol consumption and alcohol as a percent of total energy. Coursework taken at UTSPH focused on gaining a deeper knowledge of epidemiologic methods, nutrition, cancer, and genetics.
Opinions, interpretations, conclusions and recommendations are those of the author and are not necessarily endorsed by the U.S. Army.

Where copyrighted material is quoted, permission has been obtained to use such material.

Where material from documents designated for limited distribution is quoted, permission has been obtained to use the material.

Citations of commercial organizations and trade names in this report do not constitute an official Department of Army endorsement or approval of the products or services of these organizations.

In conducting research using animals, the investigator(s) adhered to the "Guide for the Care and Use of Laboratory Animals," prepared by the Committee on Care and Use of Laboratory Animals of the Institute of Laboratory Resources, National Research Council (NIH Publication No. 86-23, Revised 1985).

For the protection of human subjects, the investigator(s) adhered to policies of applicable Federal Law 45 CFR 46.

In conducting research utilizing recombinant DNA technology, the investigator(s) adhered to current guidelines promulgated by the National Institutes of Health.

In the conduct of research utilizing recombinant DNA, the investigator(s) adhered to the NIH Guidelines for Research Involving Recombinant DNA Molecules.

In the conduct of research involving hazardous organisms, the investigator(s) adhered to the CDC-NIH Guide for Biosafety in Microbiological and Biomedical Laboratories.

Kathy B. Baumgarth 9/25/97
PI - Signature   Date
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>5</td>
</tr>
<tr>
<td>Body of Annual Report</td>
<td>6</td>
</tr>
<tr>
<td>I. Statement of Work: Year 01 - Completed Tasks</td>
<td>6</td>
</tr>
<tr>
<td>II. Year 02: Summary of Plans</td>
<td>6</td>
</tr>
<tr>
<td>References</td>
<td>7</td>
</tr>
<tr>
<td>Appendix A-1 - List of Courses</td>
<td>8</td>
</tr>
<tr>
<td>Appendix A-2 - Approval of Ph.D. Advisory Committee Form</td>
<td>9</td>
</tr>
</tbody>
</table>
INTRODUCTION

The first year of work towards the completion of a doctoral degree, focused on breast cancer epidemiology, at the University of Texas School of Public Health, Houston, Texas has been completed as outlined in the original statement of work. The details of the subject, purpose, and scope of the research as well as background of previous work was described in detail in the original proposal. Briefly, the focus of this predoctoral fellowship and doctoral dissertation will be on diet and alcohol and their associations with other risk factors for breast cancer, including estrogen receptor status. The basic hypothesis is that these factors may be important in the increasing rates of breast cancer.

The issues related to dietary factors, history of alcohol consumption and relationship to estrogen receptor status are timely as is their relationship to the increased incidence and mortality of breast cancer. These factors are of significance for women with breast cancer and especially so for Hispanic women, given the paucity of information on dietary and alcohol practices for this population (1). Additionally, New Mexico has the largest percentage of Hispanics of all states in the United States (2). In addition, the Hispanic population of New Mexico is also characterized by a unique stability; the majority (75%) report lifelong residence in the state. This fellowship application provides an opportunity to further research on the primary cancer for Hispanic women (3), who will represent half of the second largest minority group in the US population by the year 2030 (4).

The New Mexico Women's Health Study (NMWHS), a statewide, population-based case-control study, included approximately 711 cases and 844 frequency matched controls. Incident cases between January 1, 1992 and December 31, 1994 were ascertained through the New Mexico Tumor Registry (NMTR), one of the population-based cancer registries participating in the National Cancer Institute's Surveillance, Epidemiology, and End Results (SEER) Program since 1973. Rates and trends of cancer incidence, mortality and survival are calculated by ethnicity, gender, and age groups for comparison with national and international data.

Controls were selected and matched on ethnicity, age-group, and geographic region. The data collected include demographics, reproductive and medical history, medication
usage, use of cigarettes and alcohol, ethnic identification and acculturation, occupational and environmental factors, and diet. Hormone receptor status data, collected by the NMTR for breast cancer cases will be linked to the data collected for cases by the NMWHS.

The specific hypotheses, technical objectives or specific aims and methods which includes a description of the NMWHS study, data collection, statistical methods, and preliminary data were discussed in detail in the original proposal.

BODY OF ANNUAL REPORT

I. Statement of Work: Year 01 - Completed Tasks

The first performance period (September 1, 1996 - September 30, 1997) of the predoctoral fellowship “Dietary Intake, Alcohol Consumption, and Menopausal Status: A comparison of Hispanic and Non-Hispanic White Women” has been completed. The principal investigator formed an advisory committee in Fall, 1996, composed of: Dr. John F. Annegers, Professor of Epidemiology; Dr. Ralph Frankowski, Professor of Biometry; and Dr. R. Sue McPherson, Assistant Professor of Epidemiology (Appendix A1 - approval of Ph.D. Advisory Committee form). A total of 36 credit hours were completed under the supervision of the advisory committee (Appendix A2 - list of courses), the minimum required prior to the Ph.D. Qualifying Examination.

The principal investigator attended the 30th Annual Meeting for the Society for Epidemiologic Research, held from June 12 - 14, 1997 in Edmonton, Alberta, Canada.

The qualifying examination was completed satisfactorily in August, 1997, permitting admission to candidacy for a doctoral degree.

II. Year 02: Summary of Plans

During the second performance period (October 1, 1997 - September 30, 1998) any pertinent additional individual coursework will be taken. Library research will be conducted towards the Ph.D. proposal and dissertation, and data analysis will be initiated.

A request to appoint a Ph.D. doctoral thesis committee will be submitted in the Fall, 1997, and will include at least the three advisory members mentioned above, and Dr. Jonathan
M. Samet, Professor and Chairman of Epidemiology at Johns Hopkins University, School of Hygiene and Public Health, who was the original Principal Investigator of the ‘New Mexico Women’s Health Study’.

Following approval of the doctoral thesis committee, a dissertation proposal will be submitted to the advisory committee for approval and to the Associate Dean for Research.

REFERENCES


APPENDIX A-1
List of Completed Courses

Fall 1996
PH1820  Applied Statistical Analysis (4)
PH1830  Advanced Statistical Methods in Epidemiology - Logistic Regression (2)
PH1831  Analysis of Survival Time Data (2)
PH2175  Principles of Toxicology I (3)
         Topics in Cancer Prevention I (1)
12 credit hours

Spring 1997
PH2711  Advanced Epidemiologic Methods II (4)
PH2177  Toxicology - Toxic Agents (3)
PH2998  Pathology and Public Health (3)
PH3340  Genetic Epidemiology (2)
12 credit hours

Summer 1997
Regression and Logistic Regression Analysis (4)
The Biology and Epidemiology of Cancer (2)
Molecular Epidemiology (2)
Breast Cancer: Diet and Alcohol (4)
12 credit hours
APPENDIX A-2
Approval of Ph.D. Advisory Committee Form
THE UNIVERSITY OF TEXAS-HOUSTON HEALTH SCIENCE CENTER
SCHOOL OF PUBLIC HEALTH

REQUEST TO APPOINT A PH.D. ADVISORY COMMITTEE
TO BE SUBMITTED BY STUDENT’S ADVISOR.

STUDENT NAME Kathy B. Baumgartner

DATE 11/14/96

I SHOULD LIKE TO REQUEST THAT THE FOLLOWING FACULTY, REPRESENTING MAJOR AND MINOR
FIELDS OF CONCENTRATION, BE APPOINTED TO THIS STUDENT’S DOCTORAL ADVISORY
COMMITTEE.

John F. Annegors  John F. Annegors  Epidemiology
FACULTY NAME - PRINTED  FACULTY SIGNATURE  MAJOR FIELD

R. Frankowski  R. Frankowski
FACULTY NAME - PRINTED  FACULTY SIGNATURE  Biometry
MINOR FIELD

R. Sue McPherson  R. Sue McPherson
FACULTY NAME - PRINTED  FACULTY SIGNATURE  Canec Mechanics
MINOR FIELD

I REQUEST THAT J. Fred Annegors, Ph.D. CHAIR THE COMMITTEE.

John F. Annegors
ADVISOR

☑ REQUEST APPROVED

☐ REQUEST COULD NOT BE APPROVED BECAUSE

DEAN Peter Justice  DATE 11-15-96
September 19, 1997

Kathy Baumgartner  
School of Public Health  
Student Mail Box

Dear Dr. Baumgartner,

Congratulations on the successful completion of your qualifying examination for the PhD degree which officially converts you from a doctoral student to a doctoral candidate.

We are pleased to have the opportunity to continue working with you as you proceed toward completion and presentation of an original research project that makes a substantial contribution to knowledge in community health sciences.

Yours sincerely,

[Signature]

R. Palmer Beasley, M.D.  
Dean

for RPB: fg  
cc: Student Records  
file/comp
Memorandum

September 16, 1997

To: Palmer Beasley
From: Fred Annegers

Regarding: Kathy Baumgartner

It is my pleasure to announce that Kathy Baumgartner has successfully completed her qualifying examination for the Ph.D. program in epidemiology. The committee recommends that she proceed to the dissertation phase of her program.

cc.
Sue McPherson
Ralph Frankowski