

A. COVER PAGE

Project Title: Case-cohort study of Cancers in Excess in Poultry Workers	
Grant Number: 5R01OH011721-03	Project/Grant Period: 09/01/2019 - 08/31/2022
Reporting Period: 09/01/2021 - 08/31/2022	Requested Budget Period: 09/01/2021 - 08/30/2022
Report Term Frequency: Final	Date Submitted: 01/18/2023
Program Director/Principal Investigator Information: Wendy Nembhard, PhD, MPH, FACE Phone Number: 501-614-2145 Email: wnnembhard@uams.edu	Recipient Organization: UNIVERSITY OF ARKANSAS FOR MEDICAL SCIENCES 4301 West Markham Street Little Rock, AR 72205-7199 DUNS: 122452563 UEI: VDFYLZPJEA6 EIN: 71-6046242 RECIPIENT ID:
Change of Contact PD/PI: NA	
Administrative Official: Suzanne Alstadt 4301 West Markham Street Little Rock, AR 72205-7199 Phone number: 5016868845 Email: sealstadt@uams.edu	Signing Official: Suzanne Alstadt 4301 West Markham Street Little Rock, AR 72205-7199 Phone number: 5016868845 Email: sealstadt@uams.edu
Human Subjects: YES	Vertebrate Animals: NA
hESC: No	Inventions/Patents: No

B. ACCOMPLISHMENTS**B.1 WHAT ARE THE MAJOR GOALS OF THE PROJECT?**

Specific Aim 1: Identify cervical, esophageal, and colon cancer deaths occurring between 01/01/2011 and 12/31/2018.

Specific Aim 2: Conduct a case-cohort study of cervical and esophageal cancer to identify the specific occupational risk factors that are associated with their excess occurrence in poultry workers.

Specific Aim 3: Study colon cancer, which is not associated with poultry work, as an unrelated calibration group.

B.1.a Have the major goals changed since the initial competing award or previous report?

No

B.2 WHAT WAS ACCOMPLISHED UNDER THESE GOALS?

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B.3 COMPETITIVE REVISIONS/ADMINISTRATIVE SUPPLEMENTS

For this reporting period, is there one or more Revision/Supplement associated with this award for which reporting is required?

No

B.4 WHAT OPPORTUNITIES FOR TRAINING AND PROFESSIONAL DEVELOPMENT HAS THE PROJECT PROVIDED?

N/A

B.5 HOW HAVE THE RESULTS BEEN DISSEMINATED TO COMMUNITIES OF INTEREST?

Dissemination of Results

The results were presented as a poster presentation at the annual meeting of the International Society for Environmental Epidemiology held in Athens, Greece, September 2022.

B.6 WHAT DO YOU PLAN TO DO DURING THE NEXT REPORTING PERIOD TO ACCOMPLISH THE GOALS?

Not Applicable

B2. What was Accomplished under these Goals?

Specific Aim 1: Identify cervical, esophageal, and colon cancer deaths occurring between 01/01/2011 and 12/31/2018.

Accomplishments:

- We identified most of the cervical, esophageal, and colon cancer deaths occurring between 01/01/2011 and 12/31/2018.

Specific Aim 2: Conduct a case-cohort study of cervical and esophageal cancer to identify the specific occupational risk factors that are associated with their excess occurrence in poultry workers.

Accomplishments:

- We conducted a case-cohort study of cervical and esophageal cancer to identify the specific occupational risk factors that are associated with their excess occurrence in poultry workers.
- We maintained a database within Microsoft ACCESS to track our efforts to trace and contact relatives/associates of the deceased participants.
- We maintained and used Redcap system (questionnaire) to collect the data from the relatives/associates of the deceased participants.
- The principal investigator and the research team members have been engaged in undergoing various training required by UAMS for the administration of the grant.
- We periodically updated the Study Manual to clarify the procedures and add new tracing strategies.
- We obtained additional files from the National Death Index. We used these files to identify more deceased participants in the study.
- We contacted additional tracing companies asking for their services and costs. We prepared applications to obtain these companies' services.
- We continued to obtain relatives' and associates' names and contact information (addresses and telephone numbers) from tracing companies and contacted the relatives or associates of the study participants.
- We completed data collection.

General Accomplishments:

- We conducted data cleaning and analyses.
- We are preparing manuscripts for publication in peer reviewed journals.
- We presented results from the study at scientific meetings.

C. PRODUCTS**C.1 PUBLICATIONS**

Are there publications or manuscripts accepted for publication in a journal or other publication (e.g., book, one-time publication, monograph) during the reporting period resulting directly from this award?

Manuscripts are in preparation

C.2 WEBSITE(S) OR OTHER INTERNET SITE(S)

Not Applicable

C.3 TECHNOLOGIES OR TECHNIQUES

Not Applicable

C.4 INVENTIONS, PATENT APPLICATIONS, AND/OR LICENSES

Have inventions, patent applications and/or licenses resulted from the award during the reporting period? No

If yes, has this information been previously provided to the PHS or to the official responsible for patent matters at the grantee organization? No

C.5 OTHER PRODUCTS AND RESOURCE SHARING

NOTHING TO REPORT

D. PARTICIPANTS

D1. What individuals have worked on the project?

Commons ID	S/K	Name	Degree(s)	Role	Cal	Aca	Sum	Foreign Org	Country	SS
WNEMBHARD	Y	Nembhard, Wendy		PD/PI	1.0	0.0	0.0			NA
	N	Allen, Jaimi		Research Technician	3.0	0.0	0.0			NA
DELONGCHAMPR	Y	DeLongchamp, Robert		Biostatistician	1.0	0.0	0.0			NA
	N	Joshua, Christina		Research Technician	3.0	0.0	0.0			NA
	N	Delhey, Leanna		Project Manager	1.0	0.0	0.0			NA

D2. Personnel Updates

D2a. Level of Effort

Will there be, in the next budget period, either (1) a reduction of 25% or more in the level of effort from what was approved by the agency for the PD/PI(s) or other senior/key personnel designated in the Notice of Award, or (2) a reduction in the level of effort below the minimum amount of effort required by the Notice of Award?

Not applicable.

D2b. New Senior/Key Personnel

Not applicable.

D2c. Changes in Other Support

Not applicable.

D2d. New Other Significant Contributors

Are there, or will there be, new other significant contributors?

Not applicable.

D2e. Multi-PI (MPI) Leadership Plan

Will there be a change in the MPI Leadership Plan for the next budget period?

Not applicable

E. IMPACT

E.1 WHAT IS THE IMPACT ON THE DEVELOPMENT OF HUMAN RESOURCES?

Not Applicable

E.2 WHAT IS THE IMPACT ON PHYSICAL, INSTITUTIONAL, OR INFORMATION RESOURCES THAT FORM INFRASTRUCTURE?

Not Applicable

E.3 WHAT IS THE IMPACT ON TECHNOLOGY TRANSFER?

Not Applicable

E.4 WHAT DOLLAR AMOUNT OF THE AWARD'S BUDGET IS BEING SPENT IN FOREIGN COUNTRY(IES)?

NOTHING TO REPORT

F. CHANGES

F1. Not Applicable

F2. Actual or anticipated challenges or delays and actions or plans to resolve them.

Describe challenges or delays encountered during the reporting period and actions or plans to resolve them. Describe only significant challenges that may impede research (e.g., accrual of patients, hiring of personnel, need for resources or research tools) and emphasize their resolution.

Dr. El Faramawi left project in March 2021 and Dr. Robert Delongchamp became the PI. Dr. Delongchamp retired in December 2012 and Dr. Nembhard became the PI in January 2022. Despite the changes in project leadership, we were able to successfully complete the project aims.

F3 Significant changes to Human Subjects, Vertebrate Animals, Biohazards, and/or Select Agents

There have not been any significant deviations, unexpected outcomes, or changes in approved protocols for human subjects, vertebrate animals, biohazards and/or select agents during this reporting period.

F3a. Human Subjects

No change

F3b. Vertebrate Animals

No change

F3c. Biohazards

No change

F3d. Select Agents

No change

G. SPECIAL REPORTING REQUIREMENTS SPECIAL REPORTING REQUIREMENTS

G.1 SPECIAL NOTICE OF AWARD TERMS AND FUNDING OPPORTUNITIES ANNOUNCEMENT REPORTING REQUIREMENTS

NOTHING TO REPORT

G.2 RESPONSIBLE CONDUCT OF RESEARCH

N/A

G.3 MENTOR'S REPORT[CDA]

N/A

G.4 HUMAN SUBJECTS

G.4.a Does the project involve human subjects?

YES

G.4.b Inclusion Enrollment Data

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CumulativeInclusionEnrollmentReport_FINAL.pdf

G.4.c ClinicalTrials.gov

Does this project include one or more applicable clinical trials that must be registered in ClinicalTrials.gov under FDAAA?

N/A

G.5 HUMAN SUBJECTS EDUCATION REQUIREMENT

Are there personnel on this project who are newly involved in the design or conduct of human subjects research?

N/A

G.6 HUMAN EMBRYONIC STEM CELLS (HESCS)

Does this project involve human embryonic stem cells (only hESC lines listed as approved in the NIH Registry may be used in NIH funded research)?

No

G.7 VERTEBRATE ANIMALS

Does this project involve vertebrate animals? No

G.8 PROJECT/PERFORMANCE SITES Not Applicable
G.9 FOREIGN COMPONENT No foreign component
G.10 ESTIMATED UNOBLIGATED BALANCE G.10.a Is it anticipated that an estimated unobligated balance (including prior year carryover) will be greater than 25% of the current year's total approved budget? N/A
G.11 PROGRAM INCOME Not Applicable
G.12 F&A COSTS Not Applicable