

AWARD NUMBER: W81XWH-21-2-0005

TITLE: Long-term consequences of mothers and fathers wartime deployments

PRINCIPAL INVESTIGATOR: Shelley MacDermid Wadsworth

CONTRACTING ORGANIZATION: Purdue University, West Lafayette, IN

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14. ABSTRACT The overarching goal of this project is to understand the long-term effects of a mother's deployment on military adolescents using a stratified random sample of 200 currently serving deployed mothers, spouses/partners, and two siblings. Combined with the sample of 513 military families from the companion project, funded by the National Institute of Child Health and Development, the data will significantly advance knowledge about the long-term effects of maternal deployment on adolescents.		

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1. INTRODUCTION

Narrative that briefly (one paragraph) describes the subject, purpose and scope of the research.

The overarching goal of this project is to understand the long-term effects of a mother's deployment on military adolescents using a stratified random sample of 200 currently serving mothers, spouses/partners, and two siblings. Combined with the sample of 513 military families from the companion project, funded by the National Institute of Child Health and Development, the data will significantly advance knowledge about the long-term effects of maternal deployment on adolescents.

2. KEYWORDS

Adolescents; Siblings; Deployment; Risk Factors; Protective Factors; Adaptation;

3. ACCOMPLISHMENTS:

The PI is reminded that the recipient organization is required to obtain prior written approval from the awarding agency grants official whenever there are significant changes in the project or its direction.

What were the major goals of the project?

List the major goals of the project as stated in the approved SOW. If the application listed milestones/target dates for important activities or phases of the project, identify these dates and show actual completion dates or the percentage of completion.

The four major tasks in the approved statement of work are

1. Prepare for data collection; (months 1-10)
2. Collect and acquire data; (months 11-36)
3. Analyze and report data; (months 11-44)
4. Disseminate results.(months 18-48).

During the second year, activities focused on these subtasks.

Task1-Subtask 1: Secure regulatory approvals from the NHRC (lead IRB), participating universities, and the USAMRMC Human Research Protections Office

Task1-Subtask 2: Sample drawn by the Defense Manpower Data Center

Task1-Subtask 3: Hire and train interview teams

Task2-Subtask 1: Recruit participants from Defense Manpower Data Center records

Task2-Subtask 2: Retain participants using evidence-based procedures to minimize attrition

Task2-Subtask 3: Collect Wave 1 survey and interview data using best practices

What was accomplished under these goals?

For this reporting period describe: 1) major activities; 2) specific objectives; 3) significant results or key outcomes, including major findings, developments, or conclusions (both positive and negative); and/or 4) other achievements. Include a discussion of stated goals not met. Description shall include pertinent data and graphs in sufficient detail to explain any significant results achieved. A succinct

description of the methodology used shall be provided. As the project progresses to completion, the emphasis in reporting in this section should shift from reporting activities to reporting accomplishments.

Task1-Subtask 1: Regulatory Approvals: Completed as of Year 2, Quarter 1.

Task1-Subtask 2: Sample from DMDC: Completed as of Year 2, Quarter 1.

Task1-Subtask 3: Hire and train interview teams. We currently have a team of 19 interviewers; however, six of them have not yet been approved by the NHRC IRB. Because of the time delay involved as we obtain IRB approval for new interviewers (usually about 4 months), we are currently offering a two-credit class for students to learn about the study and practice interviewing skills, using the same participant management system that we use for this study. This allows us to train interviewers for credit instead of for money to conserve project funds. We will offer it again in the spring, offering full time employment for the summer.

Task2-Subtask 1: Recruit participants from Defense Manpower Data Center records. To date, we have pulled 5,086 names from our sampling frame of 31,712. Among the names we have pulled, approximately 40% (2074) have been unreachable, even with the assistance of contact tracing or people finding services. Of those we contacted, 9% (468) refused screening. We successfully screened 25% (1293) of the names and determined their families were not eligible. As of this writing, we are working to reach another 19% (949) of the names we drew from the sampling frame.

Among the families who screened eligible, 45 declined to participate. Ninety-five eligible families have not yet enrolled; 162 families are currently enrolled in the study.

As of this writing, we have not yet specifically targeted recruitment of military mothers. In 20 of the enrolled families, the military parent is a woman. Five of these women are still serving.

Task2-Subtask 2: Retain participants using evidence-based procedures to minimize attrition. Work on this subtask is beginning. We have IRB approval to send thank you gifts to families who completed the first wave. We are currently developing newsletters and other retention materials.

Task2-Subtask 3: Collect Wave 1 survey and interview data. Of the 162 families who have enrolled in the study, 59 families have completed wave one data collection.

What opportunities for training and professional development has the project provided?

If the project was not intended to provide training and professional development opportunities or there is nothing significant to report during this reporting period, state “Nothing to Report.”

Describe opportunities for training and professional development provided to anyone who worked on the project or anyone who was involved in the activities supported by the project. "Training" activities are those in which individuals with advanced professional skills and experience assist others in attaining greater proficiency. Training activities may include, for example, courses or one-on-one work with a mentor. "Professional development" activities result in increased knowledge or skill in one's area of expertise and may include workshops, conferences, seminars, study groups, and individual study. Include participation in conferences, workshops, and seminars not listed under major activities.

During year two, this project has benefited from the services of two senior researchers with extensive data collection experience. Between the two of them, they have listened to recordings of most of the adolescent and parents interviews, providing written "glows and grows" feedback to individual interviews. They have also guided interviewers to do self-evaluation of their own interviews. Finally, they have done listening sessions, listen with interviewers to a recording of an interview they have conducted.

Also, one of the undergraduate interviewers is working with Dr. MacDermid Wadsworth on a poster presentation regarding the adolescent life history data.

Finally, graduate students working on the project have worked on a systematic review. It focuses on potential mediators of long-term effects of early exposure to parental wartime deployment on children in military families which are : i) parents' psychological health, ii) parents' relationship quality, iii) parenting efficacy, and iv) family functioning, including sibling relationship quality. We are reviewing empirical articles published between 2010 and 2023 to understand the state of the literature concerning these mediating pathways.

How were the results disseminated to communities of interest?

If there is nothing significant to report during this reporting period, state "Nothing to Report."

Describe how the results were disseminated to communities of interest. Include any outreach activities that were undertaken to reach members of communities who are not usually aware of these project activities, for the purpose of enhancing public understanding and increasing interest in learning and careers in science, technology, and the humanities.

A poster presentation has been accepted for "Care of the Military Family- A Research Symposium hosted by the TriService Nursing Research Program's Military Family Research Interest Group."

What do you plan to do during the next reporting period to accomplish the goals?

If this is the final report, state "Nothing to Report."

Describe briefly what you plan to do during the next reporting period to accomplish the goals and objectives.

At this point in the project, we have most of the kinks worked out in our protocols. Now we are working to scale up our capacity by recruiting more interviewers. We are actively recruiting for the spring class to train interviewers for credit. We have publicized through the network of advisors across campus. We have also contacted the honors college, who indicate they may have students who could be interested. We are also working with Leanne Knobloch at the University of Illinois, recruiting students to remotely join the spring class at Purdue; then spend the summer living and working at Purdue, conducting interviews. Finally, we are recruiting non-student interviewers who are interested in working part time for pay.

4. IMPACT:

Describe distinctive contributions, major accomplishments, innovations, successes, or any change in practice or behavior that has come about as a result of the project relative to:

What was the impact on the development of the principal discipline(s) of the project?

If there is nothing significant to report during this reporting period, state “Nothing to Report.”

Describe how findings, results, techniques that were developed or extended, or other products from the project made an impact or are likely to make an impact on the base of knowledge, theory, and research in the principal disciplinary field(s) of the project. Summarize using language that an intelligent lay audience can understand (Scientific American style).

Nothing to report.

What was the impact on other disciplines?

If there is nothing significant to report during this reporting period, state “Nothing to Report.”

Describe how the findings, results, or techniques that were developed or improved, or other products from the project made an impact or are likely to make an impact on other disciplines.

Nothing to report.

What was the impact on technology transfer?

If there is nothing significant to report during this reporting period, state “Nothing to Report.”

Describe ways in which the project made an impact, or is likely to make an impact, on commercial technology or public use, including:

- *transfer of results to entities in government or industry;*
- *instances where the research has led to the initiation of a start-up company; or*
- *adoption of new practices.*

Nothing to report.

What was the impact on society beyond science and technology?

If there is nothing significant to report during this reporting period, state “Nothing to Report.”

Describe how results from the project made an impact, or are likely to make an impact, beyond the bounds of science, engineering, and the academic world on areas such as:

- *improving public knowledge, attitudes, skills, and abilities;*
- *changing behavior, practices, decision making, policies (including regulatory policies), or social actions; or*
- *improving social, economic, civic, or environmental conditions.*

Nothing to report.

5. CHANGES/PROBLEMS:

The PD/PI is reminded that the recipient organization is required to obtain prior written approval from the awarding agency grants official whenever there are significant changes in the project or its direction. If not previously reported in writing, provide the following additional information or state, “Nothing to Report,” if applicable:

Changes in approach and reasons for change

Describe any changes in approach during the reporting period and reasons for these changes. Remember that significant changes in objectives and scope require prior approval of the agency.

Nothing to report.

Actual or anticipated problems or delays and actions or plans to resolve them

Describe problems or delays encountered during the reporting period and actions or plans to resolve them.

We currently are grappling with two issues. Although we obtain formal consent from the military parent before contacting adolescents, not every adolescent assents to participate in the project. In particular, even if one adolescent assents, the sibling may not. We are re-examining our recruitment procedures to minimize the number of times that we spend funds interviewing family members until we have verified that both adolescents are willing to participate in the project.

Secondly, we are exploring the role of spouses' recruitment. Because current and former military parents comprise our sampling frame, they are our initial point of contact. We have relied on them to facilitate our connect to the adolescents. However, many spouses have directly responded to our recruitment materials. We are exploring whether we modify our recruitment procedures to work more closely with military spouses to facilitate contact with the adolescents.

Changes that had a significant impact on expenditures

Describe changes during the reporting period that may have had a significant impact on expenditures, for example, delays in hiring staff or favorable developments that enable meeting objectives at less cost than anticipated.

Training interviewer for academic credit instead of pay will reduce our expenditures. To date, the impact has been minimal; however, going forward it promises to be substantial.

Significant changes in use or care of human subjects, vertebrate animals, biohazards, and/or select agents

Describe significant deviations, unexpected outcomes, or changes in approved protocols for the use or care of human subjects, vertebrate animals, biohazards, and/or select agents during the reporting period. If required, were these changes approved by the applicable institution committee (or

equivalent) and reported to the agency? Also specify the applicable Institutional Review Board/Institutional Animal Care and Use Committee approval dates.

Significant changes in use or care of human subjects

None to report.

Significant changes in use or care of vertebrate animals

Not applicable.

Significant changes in use of biohazards and/or select agents

Not applicable.

6. PRODUCTS:

List any products resulting from the project during the reporting period. If there is nothing to report under a particular item, state “Nothing to Report.”

- **Publications, conference papers, and presentations**

Report only the major publication(s) resulting from the work under this award.

Journal publications. List peer-reviewed articles or papers appearing in scientific, technical, or professional journals. Identify for each publication: Author(s); title; journal; volume; year; page numbers; status of publication (published; accepted, awaiting publication; submitted, under review; other); acknowledgement of federal support (yes/no).

Nothing to report

Books or other non-periodical, one-time publications. Report any book, monograph, dissertation, abstract, or the like published as or in a separate publication, rather than a periodical or series. Include any significant publication in the proceedings of a one-time conference or in the report of a one-time study, commission, or the like. Identify for each one-time publication: author(s); title; editor; title of collection, if applicable; bibliographic information; year; type of publication (e.g., book, thesis or dissertation); status of publication

(published; accepted, awaiting publication; submitted, under review; other); acknowledgement of federal support (yes/no).

Nothing to report

Other publications, conference papers and presentations. *Identify any other publications, conference papers and/or presentations not reported above. Specify the status of the publication as noted above. List presentations made during the last year (international, national, local societies, military meetings, etc.). Use an asterisk (*) if presentation produced a manuscript.*

Datta, M., Mollo, V., Cook, L., & MacDermid Wadsworth, S.M. (accepted). A systematic review of four potential mediators of long-term effects of early exposure to parental wartime deployment on children in military families. [Poster Presentation] Care of the Military Family- A Research Symposium hosted by the TriService Nursing Research Program's Military Family Research Interest Group, Remote.

- **Website(s) or other Internet site(s)**

List the URL for any Internet site(s) that disseminates the results of the research activities. A short description of each site should be provided. It is not necessary to include the publications already specified above in this section.

Nothing to report.

- **Technologies or techniques**

Identify technologies or techniques that resulted from the research activities. Describe the technologies or techniques were shared.

Inventions, patent applications, and/or licenses

Identify inventions, patent applications with date, and/or licenses that have resulted from the research. Submission of this information as part of an interim research performance progress report is not a substitute for any other invention reporting required under the terms and conditions of an award.

Nothing to report.

Nothing to report.

- **Other Products**

Identify any other reportable outcomes that were developed under this project. Reportable outcomes are defined as a research result that is or relates to a product, scientific advance, or research tool that makes a meaningful contribution toward the understanding, prevention, diagnosis, prognosis, treatment and /or rehabilitation of a disease, injury or condition, or to improve the quality of life. Examples include:

- *data or databases;*
- *physical collections;*
- *audio or video products;*
- *software;*
- *models;*
- *educational aids or curricula;*
- *instruments or equipment;*
- *research material (e.g., Germplasm; cell lines, DNA probes, animal models);*
- *clinical interventions;*
- *new business creation; and*
- *other.*

Nothing to report.

7. PARTICIPANTS & OTHER COLLABORATING ORGANIZATIONS

What individuals have worked on the project?

Provide the following information for: (1) PDs/PIs; and (2) each person who has worked at least one person month per year on the project during the reporting period, regardless of the source of compensation (a person month equals approximately 160 hours of effort). If information is unchanged from a previous submission, provide the name only and indicate “no change”.

Example:

*Name: Mary Smith
Project Role: Graduate Student
Researcher Identifier (e.g. ORCID ID): 1234567
Nearest person month worked: 5*

Contribution to Project: Ms. Smith has performed work in the area of combined error-control and constrained coding.

Funding Support: The Ford Foundation (Complete only if the funding support is provided from other than this award.)

Name	Shelley MacDermid Wadsworth
Role	Principal Investigator
ORCID Identifier	0000-0002-5443-2760
Person Months	3
Contribution	Oversees all aspects of the research
Funding Support	National Institute of Child and Health Development
Name	Valerie Stander
Role	Co-Investigator
ORCID Identifier	0000-0002-9493-1978
Person Months	5
Contribution	Regulatory approvals for IRB, sampling frame, and administrative data
Funding Support	National Institute of Child and Health Development
Name	Leanne Knobloch
Role	Co-Investigator
ORCID Identifier	0000-0001-9300-1536
Person Months	1
Contribution	Published manuscript and preparation for the benchmarking analyses; literature searching for relevant scholarship. Facilitating recruitment of students at the University of Illinois to work as data collectors at Purdue.
Funding Support	Military Operations Medical Readiness Program
Name	Sharon Christ
Role	Co-Investigator
ORCID Identifier	0000-0002-7925-5641
Person Months	No change
Contribution	Work on sampling frame, power analyses and book chapter.
Funding Support	National Institute of Child and Health Development
Name	Shawn Whiteman
Role	Co-Investigator
ORCID Identifier	0000-0001-9782-2120
Person Months	No Change
Contribution	Book Chapter
Funding Support	National Institute of Child and Health Development
Name	Dave Topp
Role	Research Director
ORCID Identifier	0000-0001-6920-7454
Person Months	8
Contribution	Oversees research operations, including regulatory compliance, staffing, training, and quality assurance.
Funding Support	National Institute of Child and Health Development & Lilly Endowment

Name	Nayantara Nair
Role	Consultant
ORCID Identifier	0000-0002-0084-0603
Person Months	6
Contribution	Interviewer Development, Quality Assurance, Scripting and Procedure Changes
Funding Support	National Institute of Child and Health Development & Lilly Endowment
Name	Kenona Southwell
Role	Part-time Post Doc
ORCID Identifier	
Person Months	5.5
Contribution	Interviewer Development. Developing interviewer training materials.
Funding Support	National Institute of Child and Health Development & Lilly Endowment
Name	Doug Sneddon
Role	Data Scientist
ORCID Identifier	
Person Months	2
Contribution	Data management and data transformation regarding sampling frame data and interface with the contact management system. Testing the validity of survey and interview instruments to prepare data for analysis
Funding Support	Lilly Endowment
Name	Muskan Datta
Role	Graduate Student
ORCID Identifier	
Person Months	8
Contribution	Making screening calls, administering consents & assent, interviewing parents and adolescents, supervising undergraduate interviewers.
Funding Support	National Institute of Child and Health Development & Lilly Endowment
Name	Maggie Daily
Role	Undergraduate Student
ORCID Identifier	
Person Months	5
Contribution	Making screening calls, administering consents & assent, interviewing parents and adolescents, supervising undergraduate interviewers.
Funding Support	National Institute of Child and Health Development & Lilly Endowment

Name	Leah Van Zant
Role	Staff
ORCID Identifier	
Person Months	12
Contribution	Making screening calls, administering consents & assent, interviewing parents and adolescents, responding to voicemail and email messages. Integrating received expressions of interest into the participant management system. Sending scheduling and survey reminders.
Funding Support	National Institute of Child and Health Development & Lilly Endowment
Name	Victoria Mollo
Role	Graduate Student
ORCID Identifier	
Person Months	6
Contribution	Making screening calls, administering consents & assent, interviewing parents and adolescents, supervising undergraduate interviewers.
Funding Support	National Institute of Child and Health Development & Lilly Endowment

Name	Dolma Rabgay
Role	Graduate Student
ORCID Identifier	
Person Months	4
Contribution	Making screening calls, administering consents & assent, interviewing parents and adolescents, supervising undergraduate interviewers.
Funding Support	National Institute of Child and Health Development & Lilly Endowment
Name	Sybil Cutler
Role	Graduate Student
ORCID Identifier	
Person Months	1
Contribution	Making screening calls, administering consents & assent, interviewing parents and adolescents, supervising undergraduate interviewers.
Funding Support	National Institute of Child and Health Development & Lilly Endowment
Name	Jessica Selee
Role	Graduate Student
ORCID Identifier	
Person Months	1
Contribution	Making screening calls, administering consents & assent, interviewing parents and adolescents, supervising undergraduate interviewers.
Funding Support	National Institute of Child and Health Development & Lilly Endowment
Name	Anaëlle Gackiere
Role	Undergraduate Student
ORCID Identifier	
Person Months	5
Contribution	Making screening calls, administering consents & assent, interviewing parents and adolescents.
Funding Support	National Institute of Child and Health Development & Lilly Endowment
Name	Hallie Anderson
Role	Undergraduate Student
ORCID Identifier	
Person Months	3
Contribution	Making screening calls, administering consents & assent, interviewing parents and adolescents.
Funding Support	National Institute of Child and Health Development & Lilly Endowment
Name	Purva Grover
Role	Undergraduate Student
ORCID Identifier	
Person Months	2
Contribution	Making screening calls, administering consents & assent, interviewing parents and adolescents.
Funding Support	National Institute of Child and Health Development & Lilly Endowment

Name	Munglen Hatlangh
Role	Undergraduate Student
ORCID Identifier	
Person Months	1
Contribution	Making screening calls, administering consents & assent, interviewing parents and adolescents.
Funding Support	National Institute of Child and Health Development & Lilly Endowment
Name	Andrea Mehmedov
Role	Undergraduate Student
ORCID Identifier	
Person Months	5
Contribution	Making screening calls, administering consents & assent, interviewing parents and adolescents.
Funding Support	National Institute of Child and Health Development & Lilly Endowment
Name	Molly Peterson
Role	Undergraduate Student
ORCID Identifier	
Person Months	2
Contribution	Making screening calls, administering consents & assent, interviewing parents and adolescents.
Funding Support	National Institute of Child and Health Development & Lilly Endowment
Name	Adriana Pierropoulos
Role	Undergraduate Student
ORCID Identifier	
Person Months	1
Contribution	Making screening calls, administering consents & assent, interviewing parents and adolescents.
Funding Support	National Institute of Child and Health Development & Lilly Endowment
Name	Kylie Staples
Role	Undergraduate Student
ORCID Identifier	
Person Months	2
Contribution	Making screening calls, administering consents & assent, interviewing parents and adolescents.
Funding Support	National Institute of Child and Health Development & Lilly Endowment

Has there been a change in the active other support of the PD/PI(s) or senior/key personnel since the last reporting period?

If there is nothing significant to report during this reporting period, state “Nothing to Report.”

If the active support has changed for the PD/PI(s) or senior/key personnel, then describe what the change has been. Changes may occur, for example, if a previously active grant has closed and/or if a previously pending grant is now active. Annotate this information so it is clear what has changed

from the previous submission. Submission of other support information is not necessary for pending changes or for changes in the level of effort for active support reported previously. The awarding agency may require prior written approval if a change in active other support significantly impacts

Nothing to report.

the effort on the project that is the subject of the project report.

What other organizations were involved as partners?

If there is nothing significant to report during this reporting period, state “Nothing to Report.”

Describe partner organizations – academic institutions, other nonprofits, industrial or commercial firms, state or local governments, schools or school systems, or other organizations (foreign or domestic) – that were involved with the project. Partner organizations may have provided financial or in-kind support, supplied facilities or equipment, collaborated in the research, exchanged personnel, or otherwise contributed.

Provide the following information for each partnership:

Organization Name:

Location of Organization: (if foreign location list country)

Partner’s contribution to the project (identify one or more)

- Financial support;
- In-kind support (e.g., partner makes software, computers, equipment, etc., available to project staff);
- Facilities (e.g., project staff use the partner’s facilities for project activities);
- Collaboration (e.g., partner’s staff work with project staff on the project);
- Personnel exchanges (e.g., project staff and/or partner’s staff use each other’s facilities, work at each other’s site); and
- Other.

Nothing to report.

8. SPECIAL REPORTING REQUIREMENTS

COLLABORATIVE AWARDS: For collaborative awards, independent reports are required from BOTH the Initiating Principal Investigator (PI) and the Collaborating/Partnering PI. A duplicative report is acceptable; however, tasks shall be clearly marked with the responsible PI and research site. A report shall be submitted to <https://ebrap.org/eBRAP/public/index.htm> for each unique award.

QUAD CHARTS: If applicable, the Quad Chart (available on <https://www.usamraa.army.mil/Pages/Resources.aspx>) should be updated and submitted with attachments.

9. APPENDICES:

Attach all appendices that contain information that supplements, clarifies or supports the text. Examples include original copies of journal articles, reprints of manuscripts and abstracts, a curriculum vitae, patent applications, study questionnaires, and surveys, etc.