DGMC – Human Research
Final Report

1. DATE: 5 May 2014

2. Protocol Number: FDG20100017H

3. Title: Incidence of Venous Thromboembolism (VTE) and Effect of Thrombosis Prophylaxis Guidelines in Patients Transported Aeromedically

4. Risk: □ Greater than Minimal Risk  X Minimal Risk

5. Date of Approval: 18 May 2010

6. Start Date: 15 Nov 2010

7. Study Staff

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Study Role</th>
<th>Date of Investigator Training</th>
<th>Staff/Resident/Fellow/Civilian</th>
<th>Dept/Office Symbol</th>
<th>Phone</th>
<th>E-mail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kohler, Maria</td>
<td>Maj</td>
<td>PI</td>
<td>17 Oct 2011</td>
<td>Staff SGHI</td>
<td></td>
<td>423-3713</td>
<td><a href="mailto:maria.kohler@us.af.mil">maria.kohler@us.af.mil</a></td>
</tr>
<tr>
<td>Hatzfeld, Jennifer</td>
<td>LtCol</td>
<td>Al</td>
<td>2 Mar 2011</td>
<td>Staff USAMRC</td>
<td></td>
<td>301-619-0236</td>
<td><a href="mailto:jennifer.j.hatzfeld.mil@mail.mil">jennifer.j.hatzfeld.mil@mail.mil</a></td>
</tr>
<tr>
<td>Dukes, Susan</td>
<td>Lt Col</td>
<td>Al</td>
<td>5 Dec 2011</td>
<td>Staff USAFSAM / FHC</td>
<td></td>
<td>937-656-8482</td>
<td><a href="mailto:susan.dukes@wpafb.af.mil">susan.dukes@wpafb.af.mil</a></td>
</tr>
</tbody>
</table>

8. Study Status:
(Choose one only)
□ Inactive, protocol never initiated
X Inactive, protocol initiated but has not/will not be completed
□ All approved procedures/uses have been completed

9. Number of Subjects Entered into the Study: For multiple sites, add rows to the table below for each site.

<table>
<thead>
<tr>
<th>Number of subjects enrolled at DGMC</th>
<th>Number approved to enroll</th>
<th>Number enrolled</th>
<th>Withdrawals</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Number of subjects enrolled at</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Data from patients transported aeromedically</td>
<td>Approx. 40,000</td>
<td>65,536</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Form Revised as of 21 Feb 14
**FDG20100017H Incidence of venous thromboembolism (VTE) and effect of thrombosis prophylaxis guidelines in patients transported aeromedically.**

**Initial data on patients with existing VTE was received from USTRANSCOM in 2010, but did not include data on the other patients. This was addressed by granting the PI permission to use TRAC2ES. Eventually, the TRAC2ES data was received via secure website. With an approved TMA DSA in place (approved 23 Jan 2013), the M2 data was extracted and compiled by the Knowledge Center. In the process, it was learned that the M2 data prior to year 2007 was not accessible and the TRACES data only included years 2002-2009. All data was stored on an approved external drive. The two data sets (M2 and TRACES) for the years 2007, 2008 and 2009 were merged successfully. Merging was done with SSN, FMP, and DOB. Based on the analysis, the main finding is that the U.S. military personnel (including active duty, guard and reserve members) age 25-31 that were transported aeromedically during 2007-2009 were at higher risk for developing a VTE than members age 18-21, keeping rank and sex constant. In conclusion, this study did not meet the proposed objectives. The analysis of the merged data revealed duplicate records (mostly in M2 data set) or missing information (mostly in TRACES database). This posed difficulty in performing an efficacious analysis and providing answers to study questions.**
9.1. Summary of Unanticipated Problems and Adverse Events:

The study had Unanticipated Problems:

☐ Yes 
X No

The study had Adverse Events:

☐ Yes 
X No

All adverse, serious adverse and unexpected events were reported IAW SGSE 40-402-01:

☐ Yes 
□ No 
X N/A

List all the local and sponsor reported unanticipated problems, serious and non-serious adverse events, reported to the sponsor and protocol deviations that resulted in subject harm since the last progress report.

If none occurred, state NONE.

<table>
<thead>
<tr>
<th>Type of Event*</th>
<th>Date of Event</th>
<th>Date Reported</th>
<th>Description of Event</th>
<th>Site of Event (for multisite)</th>
<th>Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Unexpected adverse event, severe adverse event, or adverse event

Reminder if these events were study related, caused harm or increased the risks to subjects or others, they should have already been reported when discovered, using the Adverse or Unexpected Adverse Event report form. This is only a summary of those events.

9.2. Summary of Withdrawals from the Study: If none occurred, state NONE. List all subjects who withdrew (please specify if the subject withdrew, is lost to follow-up, deceased or any other reasons from your study)

For the Entire Study Chronologically

<table>
<thead>
<tr>
<th>Date of Withdrawal</th>
<th>Subject Number</th>
<th>Reason for Withdrawal</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9.3. Consent Process: N/A (a waiver of informed consent was granted by the IRB)

10. Study Deviations

Have any minor non-compliance events occurred?

☐ Yes 
X No

Have any serious non-compliance events occurred?

☐ Yes 
X No

List any instances of non-compliance minor or serious

NONE

I certify that no changes have occurred in the protocol since the previous IRB review. 

☐ Yes 
X No

11. Complaints about the Study:

Have there been any reported complaints regarding the study?

☐ Yes 
X No
List all complaints about your study, for the Entire study. **If no complaints occurred, state NONE and delete the table below. Do not use N/A**

**For the Entire Study Chronologically**

<table>
<thead>
<tr>
<th>Date of Complaint</th>
<th>Reason for Complaint</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
<td></td>
</tr>
</tbody>
</table>

12. Amendments:
List all amendments/changes made to the protocol, Informed Consent or investigator’s brochure. **IF none occurred, state NONE. Do not use N/A.**

**For the Entire Study Chronologically**

<table>
<thead>
<tr>
<th>Date of Change</th>
<th>Date of Approval</th>
<th>Summary of the Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 Jan 2012</td>
<td>18 Jan 2012</td>
<td>Addition of Maj Sue Dukes as an AI.</td>
</tr>
<tr>
<td>20 Jan 2012</td>
<td>21 Feb 2012</td>
<td>Change in PI from Maj Jennifer Hatzfeld to Maj Maria Kohler due to deployment.</td>
</tr>
</tbody>
</table>

13. Funding: N/A; there was no funding requested/obtained to complete this research protocol.

14. Summary of Research Findings:

Initial data on patients with existing VTE was received from USTRANSCOM in 2010, but did not include data on the other patients. This was addressed by granting the PI permission to use TRAC2ES. Eventually, the TRAC2ES data was received via secure website. With an approved TMA DSA in place (approved 23 Jan 2013), the M2 data was extracted and compiled by the Knowledge Center. In the process, it was learned that the M2 data prior to year 2007 was not accessible and the TRACES data only included years 2002-2009. All data was stored on an approved external drive.

The two data sets (M2 and TRACES) for the years 2007, 2008 and 2009 were merged successfully. Merger was done with SSN, FMP, and DOB.

Data analysis (using STATA statistical software):

```
     fy |   sum(num) |   sum(denom) |
----------+-----------+-------------|
2007 |   85      |   2833      |
2008 |   46      |   2104      |
2009 |   61      |   2027      |
```

. poisson num a2-a4 r2-r4 sex, exposure(denom) irr

Iteration 0: log likelihood = -94.857155
Iteration 1: log likelihood = -94.792536
Iteration 2: log likelihood = -94.79247
Iteration 3: log likelihood = -94.79247
Based on the analysis, the main finding is that the U.S. military personnel (including active duty, guard and reserve members) age 25-31 that were transported aeromedically during 2007-2009 were at higher risk for developing a VTE than members age 18-21, keeping rank and sex constant.

In conclusion, this study did not meet the proposed objectives. The analysis of the merged data revealed duplicate records (mostly in M2 data set) or missing information (mostly in TRACES data base). This posed difficulty in performing an efficacious analysis and providing answers to study questions.

15. Publications and Presentations for this research study:
List all presentations Authored by study staff (Include lectures, abstracts, posters, etc), for the Entire study. For RTOG and other national collaborations please include publications and presentations directly tied to the approved protocol only.

<table>
<thead>
<tr>
<th>Date</th>
<th>Authors</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

16. Signature of Principal/Associate Investigator:

MARIA R. KOHLER
Principal Investigator

Signature

26 May 2014