MEMORANDUM FOR 959 CSPS 44E1A  
ATTN: CAPT BRIAN P. MURRAY  

FROM: 59 MDW/SGVU  

SUBJECT: Professional Presentation Approval  

1. Your paper, entitled 7 Day Old Female “Acting Differently” presented at/published to  
    Academic Academy of Emergency Medicine Conference 2017, Orlando, FL, 16-20  
    March 2017 in accordance with MDWI 41-108, has been approved and assigned local file  
    #17067.  

2. Pertinent biographic information (name of author(s), title, etc.) has been entered into our  
    computer file. Please advise us (by phone or mail) that your presentation was given. At  
    that time, we will need the date (month, day and year) along with the location of your  
    presentation. It is important to update this information so that we can provide quality  
    support for you, your department, and the Medical Center commander. This information  
    is used to document the scholarly activities of our professional staff and students, which is  
    an essential component of Wilford Hall Ambulatory Surgical Center (WHASC) internship  
    and residency programs.  

3. Please know that if you are a Graduate Health Sciences Education student and your  
    department has told you they cannot fund your publication, the 59th Clinical Research  
    Division may pay for your basic journal publishing charges (to include costs for tables and  
    black and white photos). We cannot pay for reprints. If you are 59 MDW staff member,  
    we can forward your request for funds to the designated wing POC.  

4. Congratulations, and thank you for your efforts and time. Your contributions are vital to  
    the medical mission. We look forward to assisting you in your future  
    publication/presentation efforts.  

[Signature]  

LINDA STEEL-GOODWIN, Col, USAF, BSC  
Director, Clinical Investigations & Research Support  

Warrior Medics – Mission Ready – Patient Focused
INSTRUCTIONS

USE ONLY THE MOST CURRENT 59 MDW FORM 3039 LOCATED ON AF E-PUBLISHING

1. The author must complete page two of this form:
   a. In Section 2, add the funding source for your study [e.g., 59 MDW CRD Graduate Health Sciences Education (GHSE) (SGS O&M); SGS R&D; Tri-Service Nursing Research Program (TSNRP); Defense Medical Research & Development Program (DMRDP); NIH; Congressionally Directed Medical Research Program (CDMRP); Grants; etc.]
   b. In Section 2, there may be funding available for journal costs, if your department is not paying for figures, tables or photographs for your publication. Please state “YES” or “NO” in Section 2 of the form, if you need publication funding support.

2. Print your name, rank/grade, sign and date the form in the author's signature block or use an electronic signature.

3. Attach a copy of the 59 MDW IRB or IACUC approval letter for the research related study. If this is a technical publication/presentation, state the type (e.g. case report, QA/OI study, program evaluation study, informational report/briefing, etc.) in the "Protocol Title" box.

4. Attach a copy of your abstract, paper, poster and other supporting documentation.

5. Save and forward, via email, the processing form and all supporting documentation to your unit commander, program director or immediate supervisor for review/approval.

6. On page 2, have either your unit commander, program director or immediate supervisor:
   a. Print their name, rank/grade, title; sign and date the form in the approving authority's signature block or use an electronic signature.

7. Submit your completed form and all supporting documentation to the CRD for processing (59crdpubsports@us.af.mil). This should be accomplished no later than 30 days before final clearance is required to publish/present your materials. If you have any questions or concerns, please contact the 59 CRD/Publications and Presentations Section at 292-7141 for assistance.

8. The 59 CRD/Publications and Presentations Section will route the request form to clinical investigations, 502 ISGUAC (Ethics Review) and Public Affairs (59 MDWPA) for review and then forward you a final letter of approval or disapproval.

9. Once your manuscript, poster or presentation has been approved for a one-time public release, you may proceed with your publication or presentation submission activities, as stated on this form. Note: For each new release of medical research or technical information as a publication/presentation, a new 59 MDW Form 3039 must be submitted for review and approval.

10. If your manuscript is accepted for scientific publication, please contact the 59 CRD/Publications and Presentations Section at 292-7141. This information is reported to the 59 MDW/CIC. All medical research or technical information publications/presentations must be reported to the Defense Technical Information Center (DTIC). See 59 MDW 41-108, Presentation and Publication of Medical and Technical Papers, for additional information.

11. The Joint Ethics Regulation (JER) DoD 5500.07-R, Standards of Conduct, provides standards of ethical conduct for all DoD personnel and their interactions with other non-DoD entities, organizations, societies, conferences, etc. Part of the Form 3039 review and approval process includes a legal ethics review to address any potential conflicts related to DoD personnel participating in non-DoD sponsored conferences, professional meetings, publication/presentation disclosures to domestic and foreign audiences, DoD personnel accepting non-DoD contributions, awards, honoraria, gifts, etc. The specific circumstances for your presentation will determine whether a legal review is necessary. If you (as the author) or your supervisor check "NO" in block 17 of the Form 3039, your research or technical documents will not be forwarded to the 502 ISGUAC legal office for an ethics review. To assist you in making this decision about whether to request a legal review, the following examples are provided as a guideline:

   For presentations before professional societies and like organizations, the 59 MDW Public Affairs Office (PAO) will provide the needed review to ensure proper disclaimers are included and the subject matter of the presentation does not create any cause for DoD concern.

   If the sponsor of a conference or meeting is a DoD entity, an ethics review of your presentation is not required, since the DoD entity is responsible to obtain all approvals for the event.

   If the sponsor of a conference or meeting is a non-DoD commercial entity or an entity seeking to do business with the government, then your presentation should have an ethics review.

   If your travel is being paid for (in whole or in part) by a non-Federal entity (someone other than the government), a legal ethics review is needed. These requests for legal review should come through the 59 MDW Gifts and Grants Office to 502 ISGUAC.

   If you are receiving an honorarium or payment for speaking, a legal ethics review is required.

   If you (as the author) or your supervisor check "YES" in block 17 of the Form 3039, your research or technical documents will be forwarded simultaneously to the 502 ISGUAC legal office and PAO for review to help reduce turn-around time. If you have any questions regarding legal reviews, please contact the legal office at (210) 671-5795/3365, DSN 475.

NOTE: All abstracts, papers, posters, etc., should contain the following disclaimer statement:

"The views expressed are those of the [author(s)] [presenter(s)] and do not reflect the official views or policy of the Department of Defense or its Components"

NOTE: All abstracts, papers, posters, etc., should contain the following disclaimer statement for research involving humans:

"The voluntary, fully informed consent of the subjects used in this research was obtained as required by 32 CFR 219 and DODI 3216.02_AFI 40-002.

NOTE: All abstracts, papers, posters, etc., should contain the following disclaimer statement for research involving animals, as required by AFMAN 40-401.IP:

"The experiments reported herein were conducted according to the principles set forth in the National Institute of Health Publication No. 80-23, Guide for the Care and Use of Laboratory Animals and the Animal Welfare Act of 1966, as amended."
TO: CLINICAL RESEARCH

FROM: (Author's Name, Rank, Grade, Office Symbol)
Brian P. Murray, Capt, USAF, MC 44E1A

GME/GHSE STUDENT: [ ] YES [ ] NO

PROTOCOL TITLE: (NOTE: For each new release of medical research or technical information as a publication/presentation, a new 59 MDW Form 3039 must be submitted for review and approval.)
N/A

TITLE OF MATERIAL TO BE PUBLISHED OR PRESENTED:
7 Day Old Female "Acting Differently"

FUNDING RECEIVED FOR THIS STUDY? [ ] YES [ ] NO
FUNDING SOURCE:

DO YOU NEED FUNDING SUPPORT FOR PUBLICATION PURPOSES? [ ] YES [ ] NO

IS THIS MATERIAL CLASSIFIED? [ ] YES [ ] NO

IS THIS MATERIAL SUBJECT TO ANY LEGAL RESTRICTIONS FOR PUBLICATION OR PRESENTATION THROUGH A COLLABORATIVE RESEARCH AND DEVELOPMENT AGREEMENT (CRADA), MATERIAL TRANSFER AGREEMENT (MTA), INTELLECTUAL PROPERTY RIGHTS AGREEMENT ETC.?
[ ] YES [ ] NO
NOTE: If the answer is YES then attach a copy of the agreement to the Publications/Presentations Request Form.

MATERIAL IS FOR: [ ] DOMESTIC RELEASE [ ] FOREIGN RELEASE
CHECK APPROPRIATE BOX OR BOXES FOR APPROVAL WITH THIS REQUEST. ATTACH COPY OF MATERIAL TO BE PUBLISHED/PRESENTED.

PUBLICATION/JOURNAL (List intended publication/journal.)

PUBLISHED ABSTRACT (List intended journal.)

POSTER (To be demonstrated at meeting: name of meeting, city, state, and date of meeting.)
Academic Academy of Emergency Medicine Conference 2017 - Orlando, FL, 16-20 March 2017

PLATFORM PRESENTATION (At civilian institution: name of meeting, state, and date of meeting.)

OTHER (Describe: name of meeting, city, state, and date of meeting.)

HAVE YOUR ATTACHED RESEARCH/TECHNICAL MATERIALS BEEN PREVIOUSLY APPROVED TO BE PUBLISHED/PRESENTED?
[ ] YES [ ] NO
ASSIGNED FILE # __________________________ DATE __________________________

EXPECTED DATE WHEN YOU WILL NEED THE CRD TO SUBMIT YOUR CLEARED PRESENTATION/PUBLICATION TO DTIC
NOTE: All publications/presentations are required to be placed in the Defense Technical Information Center (DTIC).
DATE
27 February 2017

59 MDW PRIMARY POINT OF CONTACT (Last Name, First Name, M.I., email)
Murray, Brian P, brian.p.murray20.mil@mail.mil

DUTY PHONE/PAGER NUMBER
201-562-4686

AUTHORSHIP AND CO-AUTHOR(S). List in the order they will appear in the manuscript.

LAST NAME, FIRST NAME AND M.I. GRADE/RANK SQUADRON/GROUP/OFFICE SYMBOL INSTITUTION (If not 59 MDW)

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US ARMY MEDCOM Rese g

IS A 502 ISG/JAC ETHICS REVIEW REQUIRED (JER DOD 5500.07-R)? [ ] YES [ ] NO

CERTIFY ANY HUMAN OR ANIMAL RESEARCH RELATED STUDIES WERE APPROVED AND PERFORMED IN STRICT ACCORDANCE WITH 32 CFR 219, AFMAN 40-401, IP, AND 59 MDW 41-108. I HAVE READ THE FINAL VERSION OF THE ATTACHED MATERIAL AND CERTIFY THAT IT IS AN ACCURATE MANUSCRIPT FOR PUBLICATION AND/OR PRESENTATION.

AUTHOR'S PRINTED NAME, RANK, GRADE
Brian P. Murray Capt

APPROVING AUTHORITY'S PRINTED NAME, RANK, TITLE
Daniel J Sessions MD, MAI, APD

APPROVING AUTHORITY'S SIGNATURE

SESSIONS DANIEL JOHN 1275555609}

DATE
25 Jan 2017

PREVIOUS EDITIONS ARE OBSOLETE
TO: Clinical Research Division
59 MDW/CRD
Contact 292-7141 for email instructions.

24. DATE RECEIVED
January 27, 2017

25. ASSIGNED PROCESSING REQUEST FILE NUMBER
17067

26. DATE REVIEWED
February 09, 2017

27. DATE FORWARD ED TO 502 ISG/JAC

28. AUTHOR CONTACTED FOR RECOMMENDED OR NECESSARY CHANGES: ☑ NO ☐ YES If yes, give date.

29. COMMENTS ☑ APPROVED ☐ DISAPPROVED
Single subject case study with appropriate disclaimers, approved

30. PRINTED NAME, RANK/GRADE, TITLE OF REVIEWER
Kevin Kupferer/GS13/Human Research Subject Protection Expert

31. REVIEWER SIGNATURE
KUPFERER KEVIN R. 1080007277

32. DATE
February 09, 2017

33. DATE RECEIVED

34. DATE FORWARD ED TO 59 MDW/PA

35. COMMENTS ☐ APPROVED (In compliance with security and policy review directives.) ☐ DISAPPROVED

36. PRINTED NAME, RANK/GRADE, TITLE OF REVIEWER

37. REVIEWER SIGNATURE

38. DATE

39. DATE RECEIVED
February 10, 2017

40. DATE FORWARD ED TO 59 MDW/SGVU
February 13, 2017

41. COMMENTS ☑ APPROVED (In compliance with security and policy review directives.) ☐ DISAPPROVED

42. PRINTED NAME, RANK/GRADE, TITLE OF REVIEWER
Kevin Inuma, SSgt/E-5, 59 MDW Public Affairs

43. REVIEWER SIGNATURE
INUMA KEVIN MITSU/GU 1280927

44. DATE
February 13, 2017

45. DATE RECEIVED

46. SENIOR AUTHOR NOTIFIED BY PHONE OF APPROVAL OR DISAPPROVAL
☐ YES ☐ NO ☐ COULD NOT BE REACHED ☐ LEFT MESSAGE

47. COMMENTS ☐ APPROVED ☐ DISAPPROVED

48. PRINTED NAME, RANK/GRADE, TITLE OF REVIEWER

49. REVIEWER SIGNATURE

50. DATE
7 Day Old Female “Acting Differently”

Hugh M. Hiller, MSIV, 2LT, USAF, MSC; Brian P. Murray DO, Capt, USAF, MC; Justin G. Peacock MD PhD, Maj, USAF, MC; Matthew Nichols DO, Maj, USAF, MC
San Antonio Military Medical Center, Fort Sam Houston, TX

History

HPI: 7-day-old female presented with a 9 hour history of “acting differently,” emesis and subsequent anorexia per parents. The patient had one wet diaper in 12 hours. Her parent denied fever, diarrhea, cough or difficulty breathing. Sick contacts included her grandmother who recently experienced self-limited gastroenteritis.

PMHS: The child was born at 38+4 weeks by C-section due to non-reassuring fetal heart tones. She required positive pressure ventilation for Apgar scores of 2, 7, and 8 at 1, 5, and 10 minutes for which she spent one night in the NICU for observation.

Physical Exam

Vitals: BP 135/68, HR 124, RR 40, SpO2 96% RA, temp 98.0°F rectal


HEENT: Anterior fontanelle taught, PERRL, EOM.

Clear oropharynx, MMH, neck supple. No scalp hematomas or bruises, fundoscopic exam was without retinal hemorrhages.

Cardiovascular: RRR, no PWR.

Respiratory: CTA B/L, no W&B.

Abdomen: soft, NTTND, normal NS, no hepatomegaly.

Neurological: Startle/grip reflexes intact, strong, sucking.

Skin: No rash, motling, bruising, or petechia.

Results

White Blood Cells: 18.2

Hemoglobin/Hematocrit: 94.1/44.7

Platelets: 127

Metabolic Panel: WNL

Case Conclusion

The differential diagnosis for the etiology of the cerebral hemorrhage was a congenital vascular malformation, a hemorrhagic tumor, a congenital heart disease or trauma. She was transferred to an outside hospital for further evaluation and management by pediatric neurosurgery.

Questions

1. What are the indications for lumbar puncture in the neonatal population?

2. Under what conditions would you not want to perform a lumbar puncture to evaluate for meningitis?

Answers

1. A lumbar puncture should be performed in any febrile or septic appearing neonate, as well as in any neonate in whom intracranial bleeds is suspected but not seen on CT. Such symptoms include but are not limited to fever, irritability, or altered mental status.

2. Patients at risk for cerebral herniation, as in this case, should not undergo a lumbar puncture. Risk factors for herniation include any obstruction of the CSF outflow, such as a lesion causing a mass effect, with midline shift and increased intracranial pressure. Due to cerebral spinal fluid outflow obstruction.

Discussion/Pearls

- Point of care trans-fontanelle ultrasound in the neonatal population is inexpensive, low risk, and can have a profound impact on clinical outcomes. While this form of ultrasound is not sensitive enough to diagnose low grade brain bleeds, it can be a useful tool to rule out large bleeds and masses that pose a risk of herniation with lumbar puncture.

- Point of care trans-fontanelle ultrasound is a skill routinely utilized in the Neonatal Intensive Care Unit, but is one in which Emergency Medicine physicians are not yet trained. It is a rapid, low cost, and effective procedure to evaluate for large and obvious intracranial pathology in the neonatal population. It is especially useful in critically ill neonates in whom cranial imaging is desired but where comprehensive ultrasound or computed tomography imaging would cause a critical patient to leave the relative safety of the Emergency Department and delay the onset of definitive care.

- The clinical applications of ultrasound in the Emergency Department are expanding rapidly, making competency in use of this modality of utmost importance to the practice of Emergency Medicine.

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