MEMORANDUM FOR SGVT
ATTN: CAPT JASON CROSKREY

FROM: 59 MDW/SGVU

SUBJECT: Professional Presentation Approval

1. Your paper, entitled **Higher Order Aberrations after Femtosecond LASIK Flap Creation** presented at **American Academy of Ophthalmology Society of Military Ophthalmologists Annual Meeting: November 2015** with MDWI 41-108, and has been assigned local file #16081.

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.

LINDA STEEL-GOODWIN, Col, USAF, BSC
Director, Clinical Investigations & Research Support
# Processing of Professional Medical Research Publications/Presentations

**To:** Clinical Research Division/GVU  
(59th CSPG/GVU)  

**From:** Jason Croskrey Capt, 59TRS, SGVT  

**Protocol Number:** FHW20140061H

## Protocol Title
A Retrospective Comparison of Higher Order Aberrations Measured by Pentacam in Eyes that Underwent Femtosecond LASIK Flap Creation With Femto LDV Z4 vs. iFS

## 1. Title of Material to be Published or Presented
Higher Order Aberrations After Femtosecond LASIK Flap Creation

## 2. Is This Material Classified?  
- [ ] Yes  
- [x] No

## 3. 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.?  
- [x] Yes  
- [ ] No  

*Note: If the answer is 'Yes' then attach a copy of the Agreement to the Publications/Presentations Request Form*

## 4. Material Is For (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)
- [ ] Platform Presentation (At civilian institutions/Name of Meeting, City, State, and Date of Meeting)


## Point of Contact

### 5. Who is the Primary Whasc Point of Contact?  
- Last, First, M.I. (Include email)  
- Duty Phone/Pager No.

**Croskrey, Jason A**  
Jason.croskrey.4@us.army.mil  
210-594-4090

### Authorship and Co-Author(s)  
(List in the order they will appear in the manuscript)

<table>
<thead>
<tr>
<th>Last Name, First Name and M.I.</th>
<th>Grade/Rank</th>
<th>Squadron/Group/Office Sym</th>
<th>Institution (If not 59 MDW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Primary/Corresponding Author</td>
<td>Croskrey, Jason A</td>
<td>Capt</td>
<td>59TRS, SGVT</td>
</tr>
<tr>
<td>b. Caldwell, Matthew</td>
<td>LtCol</td>
<td>59SGC, SGCEP</td>
<td></td>
</tr>
<tr>
<td>c. Townley, J. Richard</td>
<td>Maj</td>
<td>59SGC, SGCEP</td>
<td></td>
</tr>
<tr>
<td>d. Apsey, Douglas</td>
<td>Civ</td>
<td>59SGC, SGCEP</td>
<td></td>
</tr>
<tr>
<td>e.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>f.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>g.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>h.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

I 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 41-408. 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:**  
Jason Croskrey  

**Author's Signature:**  
[Signature]  
10 Sep 2015

**Commander's Printed Name, Rank:**  
Matthew C. Crocker, Lt Col  

**Commander's Signature:**  
[Signature]  
10 Sep 2015

---

59 MDW Form 3039, 20131018  
(Supersedes WHMCMT 3039, 20020301, V1)  
(Page 1 is Instruction Page)  
Page 2 of 3 Pages
### 1st Indorsement (SGVU Use Only)

<table>
<thead>
<tr>
<th>TO: Clinical Research Division 69th CSPG/SGVU (Contact 292-1141 for email instructions)</th>
<th>DATE RECEIVED</th>
<th>ASSIGNED PROCESSING REQUEST FILE NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2/3/2016</td>
<td>10081</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3. DATE REVIEWED</th>
<th>4. DATE FORWARDED TO PA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. AUTHOR CONTACTED FOR RECOMMENDED OR NECESSARY CHANGES

6. COMMENTS

☐ APPROVED ☐ DISAPPROVED

The presentation is approved.

**Printed Name, Rank/Grade, Title of Reviewer**

Rocky Calcote, PhD

**Clinical Research Administrator**

Rocky Calcote

**Signature of Reviewer**

Date: 4 Feb 2016

---

### 2nd Indorsement (PA Use Only)

<table>
<thead>
<tr>
<th>TO: Office of Public Affairs (PA)</th>
<th>DATE RECEIVED</th>
<th>DATE FORWARDED TO 69th CSPG/SGVU</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>22 Feb 2016</td>
<td>26 Feb 2016</td>
</tr>
</tbody>
</table>

3. COMMENTS

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

Content previously approved for a different conference (case 15167). Section 4, Platform Presentation, should list ARVO, May 1-5 2016 as conference attending.

**Printed Name, Rank/Grade, Title of Reviewer**

Christopher Carwile, TSgt/E-6, NCOIC, PA

**Signature of Reviewer**

Carwile, Christopher, 1280477 229

**Date**

26 Feb 2016

---

### 3rd Indorsement (SGVU Use Only)

<table>
<thead>
<tr>
<th>TO: 69 CSPG/SGVU</th>
<th>DATE RECEIVED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. SENIOR AUTHOR NOTIFIED BY PHONE OF APPROVAL OR DISAPPROVAL

☐ YES, ☐ NO, ☐ COULD NOT BE REACHED, ☐ LEFT MESSAGE

3. DATE WRITTEN NOTICE OF APPROVAL AND CLEARANCE MAILED TO AUTHOR:

4. COMMENTS

☐ APPROVED ☐ DISAPPROVED

**Printed Name, Rank/Grade, Title of Reviewer**

**Signature of Reviewer**

**Date**

---

59 MDW Form 3039, 20131018

(Supersedes WHMC IMT 3039, 20020301, V1)
Higher Order Aberrations After Femtosecond LASIK Flap Creation

Jason Croskrey MD, Matthew Caldwell MD, James Townley MD, Douglas Apsey MS, OD

Introduction: Higher order aberrations (HOA) are known to decrease visual quality and can naturally exist, or can be induced by procedures such as corneal refractive surgery. While studies have previously compared HOA in microkeratome vs. femtosecond corneal flap creation, no studies have compared two femtosecond lasers.

Purpose: To compare HOA induced by two femtosecond lasers used to create corneal flap for LASIK.

Methods: 14 eyes with corneal flaps created by the ZD4 laser for LASIK were compared to 14 eyes with corneal flaps created by the iFS laser. The two groups of eyes were similar in age, gender, spherical equivalent (SE), and treatment laser. The difference between the pre-operative and three month post-operative root mean squared (RMS) of HOA was used to compare the higher order aberrations. Paired t-tests were used to test difference between the RMS in the iFS and ZD4 eyes. The P-values were Bonferroni corrected.

Results: There was not a statistically significant difference in means of RMS values between eyes that had corneal flap creation with the ZD4 and iFS lasers (p>0.05). The improvement of SE was similar between groups.

Conclusions: Based on our results the both ZD4 and iFS lasers do not induce significant changes in higher order aberrations after corneal flap creation for LASIK surgery.
Higher order aberrations after LASIK with femtosecond flap creation

Jason Croskrey, Matthew Caldwell, J. Richard Townley, Douglas Apsey

Disclosure

no authors report financial disclosure or interests
this presentation does not represent the official view of the United States Air Force or the Department of Defense

Outline

Background
Purpose
Methods/Demographics
Results
Conclusions/Limitations
Background

18 eyes:
- Intralase FS vs microkeratome
- Intralase FS induced less HOA

Background

15 myopic eyes:
- Observed HOA in LASIK
- Pre RMS: 0.344, post RMS: 0.440

Background

47 eyes:
- iFS vs microkeratome
- 1yr f/u increased aberrations in microkeratome group
Purpose

Ziemer ZD4 vs AMO iFS

Methods

43 eyes had LASIK with ZD4 flaps
303 eyes had LASIK with iFS flaps

14 eyes
14 eyes
Results

Conclusions

No statistical difference in the change RMS pre and post-surgery between iFS and ZD4 eyes, (P>0.05)

No statistical difference in the change in spherical equivalent pre and post-surgery between iFS and ZD4 eyes, (P>0.05)

neither femtosecond lasers studied did not have a significant effect on HOAs
Limitations

Increasing numbers (n=28 in this study) may reveal a difference in post operative HOA.

HOA analyzed independently may be statistically different between the two femtosecond lasers.

The study was retrospective, a prospective study would be less likely to incorporate the possibility of selection bias.

References


MEMORANDUM FOR 59 MDW
ATTN: CAPT JASON CROSKREY

FROM: 502 ISG/JA

SUBJECT: Ethics Review for Presentation Approval Request (Croskrey)

1. A request for a legal review of a slide presentation titled “Higher Order Aberrations After Femtosecond LASIK Flap Creation” was submitted by Capt Croskrey. He plans to present the slides at the American Academy of Ophthalmology Society of Military Ophthalmologist Annual Meeting. This legal review is limited to the ethics issues regarding the presentation. The presentation slides included the required disclaimer discussed below. The disclaimer must also be included on the abstract. A Public Affairs review will be required if it has not already been obtained. There are no conflict of interest issues with presenting this research at this professional society meeting.

2. FACTS: Capt Croskrey plans to present the slide presentation titled “Higher Order Aberrations After Femtosecond LASIK Flap Creation” at the American Academy of Ophthalmology Society of Military Ophthalmologist Annual Meeting.

3. LAWS AND REGULATIONS: DoD 5500.07-R, Joint Ethics Regulation (JER), section 3-305 lays out rules governing “Teaching, Speaking and Writing.” If the presentation will “deal in significant part with any ongoing or announced policy, program or operation” of the Air Force, the presenter is required to include a disclaimer that states the “views presented are those of the speaker or author and do not necessarily represent the views of DoD or its Components.”

4. ANALYSIS: The presentation does not “deal in significant part with any ongoing or announced policy, program or operation” of the Air Force and it does not appear that the military grades, titles and/or positions will be included. However, the authors included the required disclaimer that the views presented are those of the authors and do not necessarily represent the views of DoD or its Components on the slide presentation. The disclaimer also must be on the abstract. Although the disclaimer language included on the presentation is not verbatim from the JER, the language used is appropriate and clearly captures the intent of the language used in the JER. A Public Affairs review will be needed if it has not already been obtained. There are no apparent conflicts of interest that would prohibit the presentation.

5. CONCLUSIONS: The slide presentation for review included the disclaimer required by the JER. The disclaimer must be included on the abstract. There are no conflicts of interest.

CONFIDENTIALITY NOTICE: This opinion contains attorney-work product and information protected under the attorney-client privilege, both of which are protected from disclosure under the Freedom of Information Act, 5 U.S.C. §552. Do not release this document without the prior consent of 502 ISG/JA.
6. If you have any questions, please call me at 210-671-5771.

VERISHA N. FOSTER, Capt
Assistant Staff Judge Advocate

I concur.

ARLENE R. CHRISTILLES
Chief, Civil Law

CONFIDENTIALITY NOTICE: This opinion contains attorney-work product and information protected under the attorney-client privilege, both of which are protected from disclosure under the Freedom of Information Act, 5 U.S.C. §552. Do not release this document without the prior consent of 502 ISG/JA.