

# DEPARTMENT OF THE AIR FORCE 59TH MEDICAL WING (AETC) JOINT BASE SAN ANTONIO - LACKLAND TEXAS



10 JULY 2017

MEMORANDUM FOR OGCEE

ATTN: CAPT TIMOTHY A SOEKEN

FROM: 59 MDW/SGVU

SUBJECT: Professional Presentation Approval

Your paper, entitled <u>Novel Technique for Fast Closure of Corneal Lacerations in Battle</u> presented at/published to <u>126<sup>th</sup> Annual AMSUS Meeting, National Harbor, MD 28 Nov-1Dec 2017</u> in accordance with MDWI 41-108, has been approved and assigned local file #17272.

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.

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 a 59 MDW staff member, we can forward your request for funds to the designated Wing POC at the Chief Scientist's Office, Ms. Alice Houy, office phone: 210-292-8029; email address: alice.houy.civ@mail.mil.

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

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# PROCESSING OF PROFESSIONAL MEDICAL RESEARCH/TECHNICAL PUBLICATIONS/PRESENTATIONS

# INSTRUCTIONS

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

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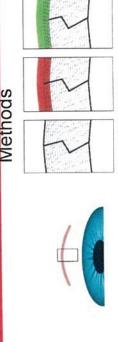
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# Sealing of Corneal Lacerations Using Photo-Activated Rose Bengal Dye and Amniotic Membrane Membrane Through A Sockent, Hong Zhu2,3, Shed DeMartelaered,4, Brett W. Davlest, Mirang Kim5,6, Heuy-Ching Wang5, James Aden5, Rose Grimm5,7, Clemens Att2, Irene E Kochevar2, Anthony J Johnson1,6

# Methods

Background



	A Pared Mand	1. M.Y. Am has certal	2.347x	1.1A.TT. stem boar
pegg e	Experimental Banks	Lift Debrotement	1-Esi Debnidement	1-Ep Debrdement
atou Pa	Lypermental report Method	2-Yound 3-Central 10-0 nyon	2-Vound 3-Apex 10-0 myon 4-48-AM	2-Wound 3-Limbal 10-0 m/on 4-RS AM
m linear central		15020m Laser 13mm	S-Signm Laser "13mm	5-532hm Laser *13mm
The same of the same of				

-No damage to the cornea surface

-No cellular damage to the iris by by measurement of temperature

-No damage to the retinal blood-

histopathological staining

-No damage to the outer nuclear

retinal barrier

difference comparing crosslinking

-There was no significant

Arms 1-3:

Conclusions

and suture closure, except a

subclinical increase in the

neutrophil inflammation

5	1.5477	27.547.7	3.5MTK	4.614
World		"V shaped central corres	4mm linear comeosideral	3mm linear cer comes
Eupermental Raps r Method	1-Ep Debrokmert 2-Nound 3-Central 10-d nyon 4-R8 AM 5-520m Laser *400mW 720 seconds	1-Ep Dentement 2-Vezud 3-Aper 10-0 m/cm 4-88 AM 5-35zm Laser 13mm 400mW 750 seconds	1-Ep Debrdement 2-Wound 3-Limbal 10-0 nylon 4-EB AM 5-522mi Laser 1-Janen 1-Janen 1-250 seconds	1-Exi Debritane 2-Wound 3-R8 AW 4-537mm Laser 1-2mm 4-00mW
Control Repair Method	8	Interrupted 10-0 nyton	10.0 on comas	



Results

traditionally require several hours of tedious suturing followed by reasonable alternative to the closure of complex stellate -It is our opinion that this procedure represents a lacerations that would

1. Human Trials

Future Directions

2. Leaking Blebs

Temperature (°C)

3. Alternative Combinations i. ICG and Infrared

# References



# Disclaimers

The views expressed are those of the authors and do not reflect the official views or policy of the Department of Defense or Its Components.

The experiments reported herein were conducted according to the principles set farth in the National Institute of Health Publication No. 80-23, Guide for the Care and Use of Laboratory Animals and the Welfare Act of 1966, as

None of the authors have any conflicts of interest to disclose