



STATE BOARD OF OPTOMETRY
 2450 DEL PASO ROAD, SUITE 105, SACRAMENTO, CA 95834
 P (916) 575-7170 F (916) 575-7292 www.optometry .ca.gov



Continuing Education Course
 Approval Checklist

Title:

Provider Name:

- Completed Application
 - Open to all Optometrists? Yes No
 - Maintain Record Agreement? Yes No

Correct Application Fee

Detailed Course Summary

Detailed Course Outline

PowerPoint and/or other Presentation Materials

Advertising (optional)

CV for EACH Course Instructor

License Verification for Each Course Instructor
 Disciplinary History? Yes No

Letter of Public Reprimand attached



Asian American Optometric Society

ASIAN AMERICAN OPTOMETRIC SOCIETY
PRESENTS

2017 Spring Education Symposium

Sheraton Cerritos Hotel - 12725 Center Ct Dr S, Cerritos, CA 90703
Sunday, April 2, 2017

5 HOURS OF CONTINUING EDUCATION

Agenda:

- | | |
|---|--|
| 8:00am – 8:10am | Welcome
Andy Kongsakul, O.D.
President, AAOS |
| 8:10am – 9:00am
(1 Hour CE) | 10 LASIK Myth Busters
SMILE – Small Incision Lenticule Extraction
Tom Tooma, MD, NVision Eye Centers |
| 9:00am – 9:20am
(20 min) | <i>Break</i> |
| 9:20am – 11:00am
(2 Hours CE) | Topography Guided LASIK
Franklin Lusby, MD, NVision Eye Centers
Choosing Premium Lenses in Highly Aberrated Corneas
Understanding New Extended Depth of Focus IOLs
Sheri Rowen, MD, NVision Eye Centers |
| 11:00pm – 11:20pm
(20 min) | <i>Break</i> |
| 11:20am – 12:10pm
(1 Hour CE) | An Introduction to Fundus Auto-Fluorescence (FAF)
Raman Bhakhri, OD, Marshall B Ketchum University |
| 12:10pm – 1:00pm
(1 Hour CE) | Updates on Hydroxychloroquine Retinopathy
Tina Zheng, OD, Marshall B Ketchum University |



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CONTINUING EDUCATION COURSE APPROVAL APPLICATION

\$50 Mandatory Fee

Cashiering and Board Use Only			
Receipt #	Payor ID	Beneficiary ID	Amount
1-2916	5414455	996482	50

Pursuant to California Code of Regulations (CCR) § 1536, the Board will approve continuing education (CE) courses after receiving the applicable fee, the requested information below and it has been determined that the course meets criteria specified in CCR § 1536(g).

In addition to the information requested below, please attach a copy of the course schedule, a detailed course outline and presentation materials (e.g., PowerPoint presentation). Applications must be submitted 45 days prior to the course presentation date.

Please type or print clearly.

Course Title SMILE – Small Incision Lenticule Extraction	Course Presentation Date 8:35 AM - 9:20 AM 0 4 / 0 2 / 2 0 1 7
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Course Provider Contact Information

Provider Name John Lee Howard (First) (Last) (Middle)
--

Provider Mailing Address Street 2575 Yorba Linda Bly, City Fullerton State CA Zip 92831

Provider Email Address jlee@ketchum.edu
--

Will the proposed course be open to all California licensed optometrists?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Do you agree to maintain and furnish to the Board and/or attending licensee such records of course content and attendance as the Board requires, for a period of at least three years from the date of course presentation?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

Course Instructor Information

Please provide the information below and attach the curriculum vitae for each instructor or lecturer involved in the course. If there are more instructors in the course, please provide the requested information on a separate sheet of paper.

Instructor Name Tom Tooma (First) (Last) (Middle)	
License Number 42262	License Type Physician and Surgeon
Phone Number (949) 274-4652	Email Address tom.tooma@nvisioncenters.cc

I declare under penalty of perjury under the laws of the State of California that all the information submitted on this form and on any accompanying attachments submitted is true and correct.

[Signature]
Signature of Course Provider

2/14/2017
Date

SUMMARY – SMILE

Tom Tooma, MD

According to the American Academy of Ophthalmology, small incision lenticule extraction (SMILE) is a relatively new refractive procedure designed to treat a multitude of refractive errors such as myopia, hyperopia, presbyopia, and astigmatism. The procedure involves using a femtosecond laser to create a corneal lenticule which is extracted whole through a small incision without the use of an excimer laser. It is reported to achieve effects similar to laser-assisted in situ keratomileusis (LASIK) with excellent post-operative outcomes. It has faster recovery of post-op dry eye, reinnervation of corneal nerves and potential biomechanical advantages. The procedure began in September 2011 in Europe, China and India with clinical trials commencing in the United States in June 2012. The DFA expanded clinical trials and at least 255 patients have been treated. This lecture will cover this new procedure in terms of technical procedures, research results and its comparison to its success relative to LASIK.

Presenter – Tom Tooma, MD

Course Title – SMILE – small incision lenticule extraction

Course Outline –

Intrastromal surgery without a flap

TREATMENT OF MYOPIA

Sphere up to -10.00D

Cyl <0.50D

Stable refraction

22 year old and older

Optical zone of 6.0 to 6.5mm

Subject Demographics

n = 315

Age and Preoperative Refraction

n = 315

Postoperative Refraction

7 Days and 1 Month

Postoperative Refraction

3 Months and 6 Months

Postoperative Refraction

9 Months and 12 Months

Manifest Refraction Spherical Equivalent Predictability (in Diopters) at 7 Days

Attempted vs Achieved

Manifest Refraction Spherical Equivalent Predictability (in Diopters) at 1 Month

Attempted vs Achieved

Manifest Refraction Spherical Equivalent Predictability (in Diopters) at 3 Months

Attempted vs Achieved

Manifest Refraction Spherical Equivalent Predictability (in Diopters) at 6 Months

Attempted vs Achieved

Manifest Refraction Spherical Equivalent Predictability (in Diopters) at 9 Months

Attempted vs Achieved

Manifest Refraction Spherical Equivalent Predictability (in Diopters) at 12 Months

Attempted vs Achieved

Efficacy

Manifest Refraction Spherical Equivalent Outcome Percent Within Attempted

Efficacy

Uncorrected Visual Acuity (ETDRS)

Efficacy

Uncorrected Visual Acuity (ETDRS)

Safety

Change in Best Spectacle Corrected
Visual Acuity (ETDRS)

Operative Events

Adverse Events

DATA SUMMARY

318 eyes treated

94% at 9 months within +/-0.50D

82% at 9 months within +/-0.25D

93% >20/20 at 9 months UCVA

SMILE – POTENTIAL ADVANTAGES

2-4mm incision

Bowman's layer mostly intact

Different set of potential complications

Journal of Refractive Surgery

2014;30(9):590-596

Ganesh and Gupta

Bangalore, India

Smile vs Lasik

100 eyes in each group

Matched for SE, schirmer 1+2, TBUT, Tear Osmolarity, Contrast sensitivity, RMS HOA total

Smile vs Lasik

UCVA day 1 and 3 months same with lasik and Smile – 96%

Smile vs Lasik

HOA and Contrast better with Smile

Schirmer+TBUT+Osmolarity

Slightly better with Smile

Lasik/Smile considerations

Stroma hydration

Lasik/Smile considerations

Anterior stromal nerve plexus

correction of astigmatism/hyperopia

Recovery of vision

FDA approval

Mechanical stability

Lasik/Smile considerations

Centering the 'ablation'

Suction loss

Optical zone size



Custom ablations

Visual recovery

Presbyopia

Retreatment options

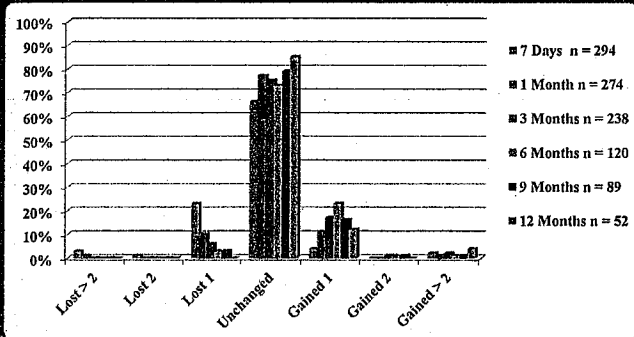
SMILE

PROMISING TECHNIQUE

125,000 PROCEDURES PERFORMED

Safety

Change in Best Spectacle Corrected
Visual Acuity (ETDRS)



Operative Events

Event		N
Loss of suction	Discontinued treatment	2
	Completed treatment	4
Difficult lenticule removal without tissue damage		8

Adverse Events

Event	N
Difficult lenticule removal with tissue damage	2
Perforated cap	1
Retained tissue	2
Viral conjunctivitis	1
Pain at 6 months or later	1

DATA SUMMARY

318 eyes treated
 94% at 9 months within +/-0.50D
 82% at 9 months within +/-0.25D
 93% >20/20 at 9 months UCVA

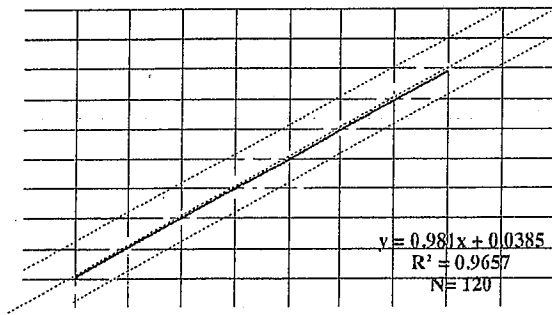
SMILE – POTENTIAL ADVANTAGES

2-4mm incision
 Bowman's layer mostly intact
 Different set of potential complications

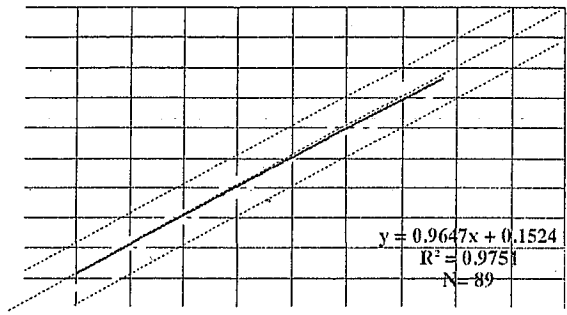
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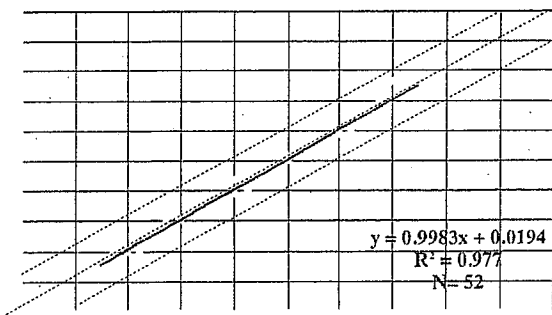
Manifest Refraction Spherical Equivalent Predictability (in Diopters) at 6 Months Attempted vs Achieved



Manifest Refraction Spherical Equivalent Predictability (in Diopters) at 9 Months Attempted vs Achieved

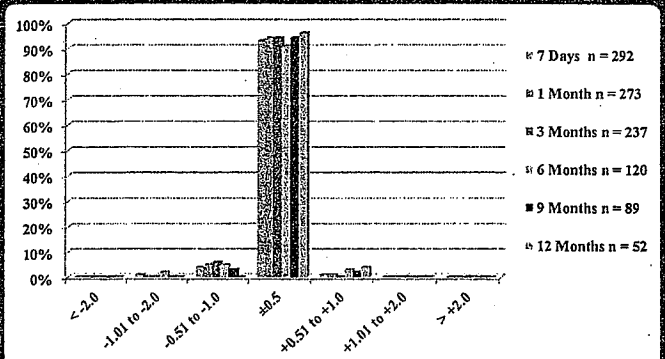


Manifest Refraction Spherical Equivalent Predictability (in Diopters) at 12 Months Attempted vs Achieved

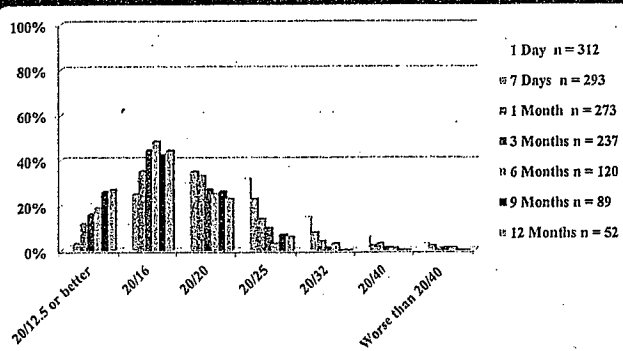


Efficacy

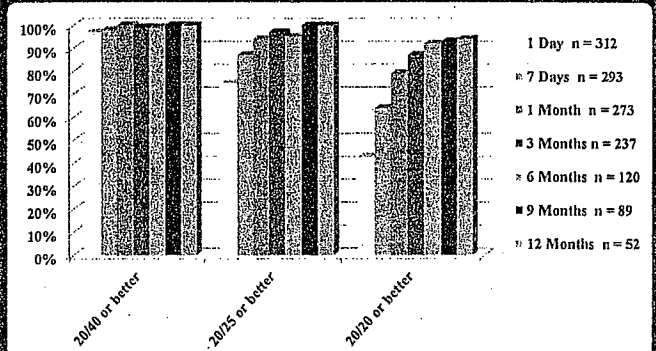
Manifest Refraction Spherical Equivalent Outcome Percent Within Attempted



Efficacy
Uncorrected Visual Acuity (ETDRS)



Efficacy
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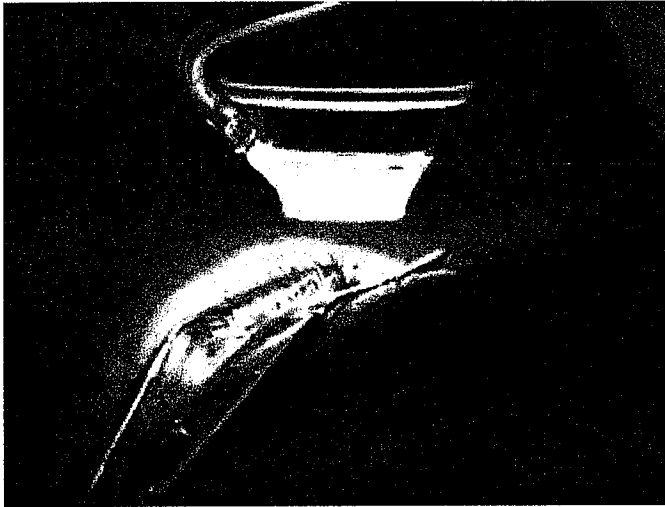
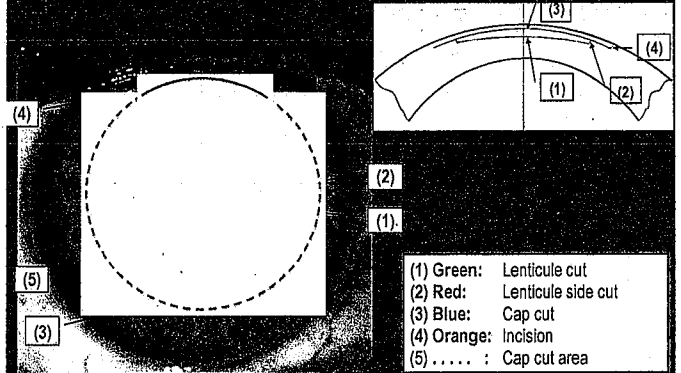


SMILE – small incision lenticule extraction

TOM TOOMA
 MEDICAL DIRECTOR
 NVISION EYE CENTERS



Intrastromal surgery without a flap



TREATMENT OF MYOPIA

Sphere up to -10.00D
 Cyl <0.50D
 Stable refraction
 22 year old and older
 Optical zone of 6.0 to 6.5mm

Subject Demographics n = 315

	n	Percent
Gender		
Male	135	42.9
Female	180	57.1
Operated eye		
Right	144	45.7
Left	171	54.3

Age and Preoperative Refraction n = 315

	MEAN (SD)	RANGE
Age	33 yrs (8)	22 to 58 yrs
MRSE	-4.66 D (2.09)	-1.00 to -10.25
Sphere	-4.56 D (2.09)	-1.00 to -10.00
Cylinder (untreated)	-0.19 D (0.20)	0.00 to -0.50

Postoperative Refraction 7 Days and 1 Month

	MEAN(SD)	RANGE
MRSE	-0.09 D (0.28)	-1.13 to +0.75
Sphere	+0.01 D (0.27)	-0.75 to +0.75
Cylinder (untreated)	-0.19 D (0.28)	-1.25 to 0.00

Postoperative Refraction 3 Months and 6 Months

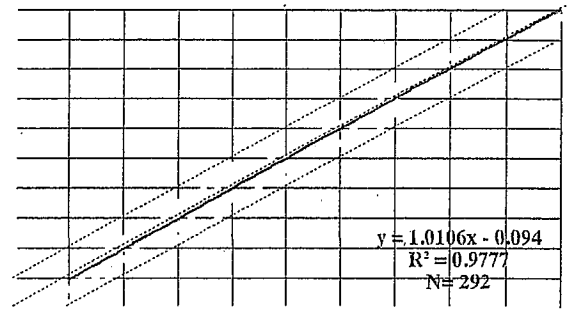
	MEAN(SD)	RANGE
MRSE	-0.06 D (0.23)	-0.50 to +0.75
Sphere	+0.03 D (0.27)	-0.50 to +0.75
Cylinder (untreated)	-0.17 D (0.25)	-1.00 to 0.00

Postoperative Refraction 9 Months and 12 Months

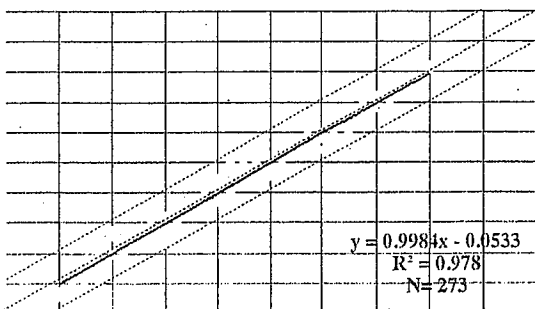
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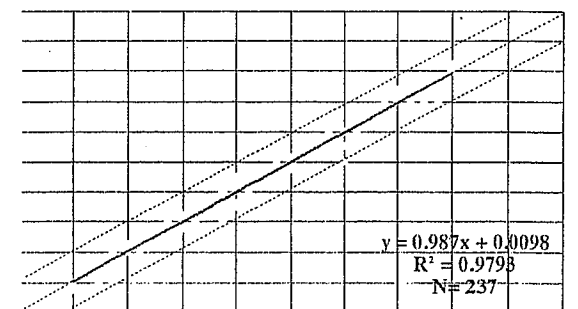
Manifest Refraction Spherical Equivalent Predictability (in Diopters) at 7 Days Attempted vs Achieved



Manifest Refraction Spherical Equivalent Predictability (in Diopters) at 1 Month Attempted vs Achieved



Manifest Refraction Spherical Equivalent Predictability (in Diopters) at 3 Months Attempted vs Achieved



Smile vs Lasik

100 eyes in each group
Matched for SE, schirmer 1+2, TBUT,
Tear Osmolarity, Contrast sensitivity,
RMS HOA total

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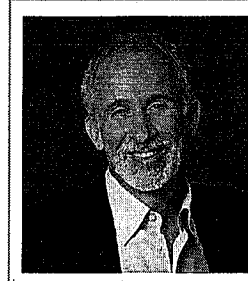
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Suction loss
Optical zone size
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Presbyopia
Retreatment options

SMILE

PROMISING TECHNIQUE
125,000 PROCEDURES PERFORMED

NVISION



Dr. Tom Tooma

Medical Director NVISION Laser Eye Centers

Dr. Tooma has performed more than 100,000 LASIK procedures and believes that laser vision correction at NVISION is as safe as it can be. In fact, he has performed LASIK surgery on hundreds of doctors, including 250 eye doctors. That's why NVISION and Dr. Tooma are The Eye Doctors' #1 Choice for their eyes and their patients' eyes. Dr. Tooma believes that the combination of experience and technology gives NVISION's patients the highest possible likelihood of achieving 20/20 or better vision through LASIK procedures.

A pioneer in the world of LASIK surgery, Dr. Tooma has been a principal investigator in the field of laser vision correction since 1993. He helped several excimer laser manufacturers obtain FDA approvals for their lasers in the United States. He holds the record for many firsts: he was the first doctor in California to perform LASIK surgery and was the first to perform custom Wavefront-guided LASIK. He was also the first in the U.S. to use the FemtoSecond Laser (IntraLase FS30 – bladeless all laser LASIK), which is safer and more precise than a traditional blade.

In 2010, Dr. Tooma purchased TLC's interest in the 8 Southern California locations and formed NVISION Laser Eye Centers. At NVISION, Dr. Tooma provides his patients with a lifetime commitment, giving them the assurance that if they need any enhancement surgeries in the future, they can be performed at any NVISION center, for life and at no cost.

Dr. Tooma received his M.D. from Loma Linda University School of Medicine, where he also completed his internship in internal medicine and residency in ophthalmology. He completed his fellowship in Corneal and Refractive Surgery at the Emory University Department of Ophthalmology in Atlanta, Georgia. He has been board certified in ophthalmology for more than 25 years.

For Dr. Tooma, helping patients achieve their vision goals is his passion. "I feel privileged and blessed to participate in what is a life-changing experience for my patients," he said.

In his spare time, Dr. Tooma has served on medical teaching missions to Romania, Bulgaria, China and Fiji, helping teach local ophthalmology doctors new surgical techniques. In 2008, he and his wife, Marta Tooma, D.D.S., founded the Mission at Natuvu Creek in Fiji. The Mission serves the 250,000 people living on the island, with medical, dental and eye care provided by visiting physicians, including the Toomas.

1-877-91-NVISION | NVISIONCenters.com

Biography

Education

- 1975 B.S. in Biochemistry, Magna Cum Laude, Loma Linda University
1979 M.D., Loma Linda University School of Medicine

Professional Training

- 1980 Internship in internal medicine, Loma Linda University Medical Center
1983 Completed a residency in ophthalmology, Loma Linda University
Department of Ophthalmology

Fellowships

- 1984 Fellow in Corneal Surgery & External Disease, Emory University Department
of Ophthalmology, Atlanta, GA

Board Certification

- 1984 American Board of Ophthalmology

Professional Affiliations

- American Society of Cataract & Refractive Surgery
- International Society of Refractive Surgery
- Castroviejo Corneal Society
- American Academy of Ophthalmology
- And many others

University & Hospital Positions

- Chief, Department of Ophthalmology, Loma Linda University Community Hospital
- Director of Cornea Service, Department of Ophthalmology, Loma Linda University
- Director of Refractive Surgery, Department of Ophthalmology, Loma Linda University

1-877-91-NVISION | NVISIONCenters.com

Medical Doctor Curriculum Vitae

As of July 17, 2015

Thomas Tooma, MD

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MEDICAL BOARD OF CALIFORNIA

Executive Office



January 31, 2011

Tom S. Tooma, M.D.
3501 S. Jamboree Road, Suite 1100
Newport Beach, CA 92660

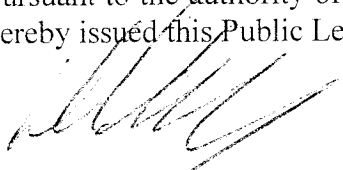
RE: Physician's and Surgeon's Certificate No. G 42262
Case No. 04-2008-195312

Public Letter of Reprimand

An investigation by the Medical Board of California revealed you failed to document a pre-operative examination and develop a surgical plan before meeting with a patient.

These actions constitute a violation of Business and Professions Code 2266.

Pursuant to the authority of the California Business and Professions Code section 2233, you are hereby issued this Public Letter of Reprimand by the Medical Board of California.



Linda K. Whitney
Executive Director