

CURRICULUM VITAE

Signature

4-5-2022

Name:

**Edward Victor Ross, Jr., M.D.
CAPTAIN, Medical Corps, U.S. Navy (ret)**

Title- Director of Laser and Cosmetic Dermatology- Scripps Clinic, San Diego, CA

Address:

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3811 Valley Centre Dr.
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San Diego, CA 92130

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Email: Ross.Edward@scrippshealth.org

Personal: Born 27 October 1960, Yazoo City, Mississippi

Certification and Licensure: Board certified in Dermatology, 1992
Licensed in Louisiana, 1986 to present

Licensed in California – 1997--present

Current Position:

JUN 2006 - Present Director of Cosmetic and Laser Dermatology
Scripps Clinic, San Diego, CA

Medical Education:

May 1986 Doctor of Medicine
Tulane University School of Medicine
New Orleans, LA
Honors/Activities: Alpha Omega Alpha Honorary Medical Society
(junior year inductee)
Big Brothers of New Orleans

1986 - 1987 Transitional Internship (selected Most Outstanding Intern)
Naval Hospital
San Diego, CA

1987-1989- General medical officer for US Navy in Sasebo Japan- provided full spectrum of family medical services to active duty military, their dependents (family members, wives, husbands, children) and department of defense civilian personnel for two years.

1989 - 1992 Dermatology Residency

National Naval Medical Center
Bethesda, MD

1994 - 1996 Fellow in Photomedicine
Massachusetts General Hospital
Boston, MA

Undergraduate Education:

1982 B.S. Physics
Mississippi State University
Honors/Activities: Summa Cum Laude
Sigma Pi Sigma (physics honorary)
College of Arts and Sciences Hall of Fame
Most Outstanding Senior Physics Major
Society of Scholars

PRACTICE EXPERIENCE::

1987 - 1989 General Medical Officer
U.S. Navy Clinic, Sasebo, Japan
Practice included all aspects of outpatient medicine from pediatrics to geriatrics, as well as supervision and training of hospital corpsmen.
Awarded Navy Achievement Medal at end of tour.

1992 - 1994 Staff Dermatologist and Head, Dermatology Department
Naval Hospital
Beaufort, South Carolina

1996 - 2006 Staff Dermatologist and Laser Medicine Specialist, Dermatology Department
Naval Medical Center
San Diego, California

JUN 1999 – Summer 2006 Residency Program Director, Dermatology Department
Staff Dermatologist and Laser Medicine Specialist
Naval Medical Center
San Diego, California

2006- present- Director of Laser and Cosmetic Dermatology Unit- Scripps Clinic , San Diego , CA

EMPLOYMENT / RESEARCH EXPERIENCE:

1980 - 1982 Physics Lab Instructor
Mississippi State University

1981 Junior Research Fellow in Nuclear Physics
Florida State University

Summer 1983 Alton Ochsner Foundation Hospital Researcher in Hemostasis Dynamics

1988 - 1989 Physics / Biology Instructor
Central Texas College
Sasebo, Japan Branch (night courses)

1994 - 1996 Research Fellow at Wellman Laboratories of Photomedicine
Boston, MA

Other responsibilities /positions

- 1. Past president American Society for Laser Medicine and Surgery (president 2008)**
- 2. Board member- American Society for Dermatologic Surgery (2008-2011)**
- 3. Past Board member - American Society for Laser Medicine and Surgery**

4. Past Board member and treasurer - American Society for Cosmetic Dermatology and Aesthetic Surgery
5. Associate editor- *Lasers in Surgery and Medicine*
6. Editorial board: *Journal of the American Academy of Dermatology*
7. Editorial Board: *Dermatologic Surgery*

PUBLICATIONS:

1986-2004

PUBLICATIONS:

1. Parlette EC, Kroeger N, Ross EV. Nd:YAG laser treatment of recalcitrant folliculitis decalvans. *Dermatologic Surgery* 2004;30(8):1152-4.
2. Ross EV, Jr., Badame AJ, Dale SE. Meat tenderizer in the acute treatment of imported fire ant stings. *Journal of the American Academy of Dermatology* 1987;16(6):1189-92.
3. Ross EV, Roman L, Rushin JM, Cobb MW, Friedman KJ. Xanthomatized atypical T cells in a patient with mycosis fungoides and hyperlipidemia. *Archives of Dermatology* 1992;128(11):1499-502.
4. Crain DS, Miller OF, Smith LJ, Roberts JL, Ross EV. Transcutaneous laser hair ablation for management of intraurethral hair after hypospadias repair: initial experience. *Journal of Urology* 2004;170(5):1948-9.
5. Guarnieri K, Ross EV, Jr. Financing medical education: borrowing versus saluting. *Journal of the Louisiana State Medical Society*. 1986;138(7):27, 29-31.
6. Insler MS, Benefield DW, Ross EV. Topical hyperosmolar solutions in the reduction of corneal edema. *CLAO Journal*. 1987;13(3):149-51.
7. Ross EV, Jr., Badame AJ, Dale SE. Meat tenderizer in the acute treatment of imported fire ant stings. *Journal of the American Academy of Dermatology*. 1987;16(6):1189-92.
8. Cahill BE, Ross EV, Piolet RW, Rice JC, Lewis RW, Kerstein MD. Measurement of impotence by laser Doppler flowmetry and conventional methodology. *Journal of Urology*. 1988;140(4):749-50.
9. Ross EV. *Proteus mirabilis* isolation as a sign of nasal foreign body. *Clinical Pediatrics*. 1990;29(10):614-5.
10. Ross EV. Ichthyosiform scaling secondary to megavoltage radiotherapy. *Cutis*. 1991;48(1):59-60.
11. Ross EV, Roman L, Rushin JM, Cobb MW, Friedman KJ. Xanthomatized atypical T cells in a patient with mycosis fungoides and hyperlipidemia. *Archives of Dermatology*. 1992;128(11):1499-502.
12. Ross EV, Baxter DL, Jr. Widespread *Candida* folliculitis in a nontoxic patient. *Cutis*. 1992;49(4):241-3.
13. Westmoreland TA, Ross EV, Yeager JK. *Pseudomonas* toe web infections. *Cutis*. 1992;49(3):185-6.
14. Martin GJ, Malone JL, Ross EV. Exfoliative dermatitis during malarial prophylaxis with mefloquine. *Clinical Infectious Diseases*. 1993;16(2):341-2.
15. Ross EV, Evans LA, Yeager JK. Pseudofolliculitis barbae associated with an unusual hair whorl. *Cutis*. 1993;51(2):107-8.
16. Vogel PS, Cardenas A, Ross EV, Cobb MW, Sau P, James WD. Linear focal elastosis. *Archives of Dermatology*. 1995;131(7):855-6.
17. Ross EV, Domankevitz Y, Skrobal M, Anderson RR. Effects of CO₂ laser pulse duration in ablation and residual thermal damage: implications for skin resurfacing. *Lasers in Surgery & Medicine*. 1996;19(2):123-9.
18. Ross EV, Romero R, Kollias N, Crum C, Anderson RR. Selectivity of protoporphyrin IX fluorescence for condylomata after topical application of 5-aminolaevulinic acid: implications for photodynamic treatment. *British Journal of Dermatology*. 1997;137(5):736-42.
19. Ross EV, Grossman MC, Duke D, Grevelink JM. Long-term results after CO₂ laser skin resurfacing: a comparison of scanned and pulsed systems. *Journal of the American Academy of Dermatology*. 1997;37(5 Pt 1):709-18.
20. Ross EV, Domankevitz Y, Anderson RR. Effects of heterogeneous absorption of laser radiation in biotissue ablation: characterization of ablation of fat with a pulsed CO₂ laser. *Lasers in Surgery & Medicine*. 1997;21(1):59-64.
21. Mastruserio DN, Cobb MA, Ross VE. Nevocellular nevus associated with alopecia presenting as aplasia cutis congenita. *International Journal of Dermatology*. 1998;37(1):37-9.
22. McKinlay JR, Ross V, Barrett TL. Vesiculobullous reaction to diethyltoluamide revisited. *Cutis* 1998;62(1).
23. Ross EV, Amesbury EC, Barile A, Proctor-Shipman L, Feldman BD. Incidence of postoperative infection or positive culture after facial laser resurfacing: a pilot study, a case report, and a proposal for a rational approach to antibiotic prophylaxis. *Journal of the American Academy of Dermatology*. 1998;39(6):975-81.
24. Ross V, Naseef G, Lin G, Kelly M, Michaud N, Flotte TJ, et al. Comparison of responses of tattoos to picosecond and nanosecond Q-switched neodymium: YAG lasers. *Archives of Dermatology*. 1998;134(2):167-71.
25. Tope WD, Ross EV, Kollias N, Martin A, Gillies R, Anderson RR. Protoporphyrin IX fluorescence induced in basal cell carcinoma by oral delta-aminolevulinic acid. *Photochemistry & Photobiology*. 1998;67(2):249-55.
26. Khatri KA, Ross V, Grevelink JM, Magro CM, Anderson RR. Comparison of erbium:YAG and carbon dioxide lasers in resurfacing of facial rhytides. *Archives of Dermatology*. 1999;135(4):391-7.
27. Khatri KA, Ross V, Grevelink JM, Magro CM, Anderson RR. Comparison of erbium:YAG and carbon dioxide lasers in resurfacing of facial rhytides.[see comment]. *Archives of Dermatology* 1999;135(4):391-7.
28. McKinlay JR, Hofmeister E, Ross EV, MacAllister W. EMLA cream-induced eye injury. *Archives of Dermatology*. 1999;135(7):855-6.
29. McKinlay JR, Barrett TL, Ross EV. Picture of the month. Tinea nigra. *Archives of Pediatrics & Adolescent Medicine*. 1999;153(3):305-6.

30. McKinlay JR, Graham BS, Ross EV. The clinical superiority of continuous exposure versus short-pulsed carbon dioxide laser exposures for the treatment of pearly penile papules. *Dermatologic Surgery*. 1999;25(2):124-6.
31. Ross EV, Yashar SS, Naseef GS, Barnette DJ, Skrobal M, Grevelink J, et al. A pilot study of in vivo immediate tissue contraction with CO₂ skin laser resurfacing in a live farm pig. *Dermatologic Surgery*. 1999;25(11):851-6.
32. Ross EV, Ladin Z, Kreindel M, Dierickx C. Theoretical considerations in laser hair removal. *Dermatologic Clinics*. 1999;17(2):333-55, viii.
33. Ross EV, Barnette DJ, Glatter RD, Grevelink JM. Effects of overlap and pass number in CO₂ laser skin resurfacing: a study of residual thermal damage, cell death, and wound healing. *Lasers in Surgery & Medicine*. 1999;24(2):103-12.
34. Ross EV, McKinlay JR, Anderson RR. Why does carbon dioxide resurfacing work? A review. *Archives of Dermatology*. 1999;135(4):444-54.
35. Ross EV, Chhieng N. Lasers in the military for cutaneous disease and wound healing. *Dermatologic Clinics*. 1999;17(1):135-50, ix.
36. Ross EV, Mowlavi A, Barnette D, Glatter RD, Grevelink JM. The effect of wiping on skin resurfacing in a pig model using a high energy pulsed CO₂ laser system. *Dermatologic Surgery*. 1999;25(2):81-8.
37. Sajben FP, Ross EV. The use of the 1.0 mm handpiece in high energy, pulsed CO₂ laser destruction of facial adnexal tumors. *Dermatologic Surgery*. 1999;25(1):41-4.
38. Ross EV, Sajben FP, Hsia J, Barnette D, Miller CH, McKinlay JR. Nonablative skin remodeling: selective dermal heating with a mid-infrared laser and contact cooling combination. *Lasers in Surgery & Medicine*. 2000;26(2):186-95.
39. Ross EV, Naseef GS, McKinlay JR, Barnette DJ, Skrobal M, Grevelink J, et al. Comparison of carbon dioxide laser, erbium:YAG laser, dermabrasion, and dermatome: a study of thermal damage, wound contraction, and wound healing in a live pig model: implications for skin resurfacing. *Journal of the American Academy of Dermatology*. 2000;42(1 Pt 1):92-105.
40. Baugh WP, Trafeli JP, Barnette DJ, Jr., Ross EV. Hair reduction using a scanning 800 nm diode laser. *Dermatologic Surgery*. 2001;27(4):358-64.
41. McKinlay JR, Barrett TL, Barnette DJ, Ross EV. Asymptomatic, firm, yellow-brown plaques of the lower eyelids and chest. *Archives of Dermatology*. 2001;137(3):365-70.
42. Ross EV. Extended theory of selective photothermolysis: a new recipe for hair cooking? *Lasers in Surgery & Medicine*. 2001;29(5):413-5.
43. Ross EV, Miller C, Meehan K, Pac, McKinlay J, Sajben P, et al. One-pass CO₂ versus multiple-pass Er:YAG laser resurfacing in the treatment of rhytides: a comparison side-by-side study of pulsed CO₂ and Er:YAG lasers. *Dermatologic Surgery*. 2001;27(8):709-15.
44. Ross EV, Yashar S, Michaud N, Fitzpatrick R, Geronemus R, Tope WD, et al. Tattoo darkening and nonresponse after laser treatment: a possible role for titanium dioxide. *Archives of Dermatology*. 2001;137(1):33-7.
45. Timko AL, Miller CH, Johnson FB, Ross E. In vitro quantitative chemical analysis of tattoo pigments. *Archives of Dermatology*. 2001;137(2):143-7.
46. Hardaway CA, Ross EV. Nonablative laser skin remodeling. *Dermatologic Clinics*. 2002;20(1):97-111, ix.
47. Hardaway CA, Ross EV, Paithankar DY. Non-ablative cutaneous remodeling with a 1.45 microm mid-infrared diode laser: phase II. *Journal of Cosmetic & Laser Therapy* 2002;4(1):9-14.
48. Hardaway CA, Ross EV, Barnette DJ, Paithankar DY. Non-ablative cutaneous remodeling with a 1.45 microm mid-infrared diode laser: phase I. *Journal of Cosmetic & Laser Therapy* 2002;4(1):3-8.
49. Paithankar DY, Ross EV, Saleh BA, Blair MA, Graham BS. Acne treatment with a 1,450 nm wavelength laser and cryogen spray cooling. *Lasers in Surgery & Medicine* 2002;31(2):106-14.
50. Paithankar DY, Ross EV, Saleh BA, Blair MA, Graham BS. Acne treatment with a 1,450 nm wavelength laser and cryogen spray cooling. *Lasers in Surgery & Medicine* 2002;31(2):106-14.
51. Ross EV, McKinlay JR, Sajben FP, Miller CH, Barnette DJ, Meehan KJ, et al. Use of a novel erbium laser in a Yucatan minipig: a study of residual thermal damage, ablation, and wound healing as a function of pulse duration. *Lasers in Surgery & Medicine*. 2002;30(2):93-100.
52. Ross EV, Cooke LM, Timko AL, Overstreet KA, Graham BS, Barnette DJ. Treatment of pseudofolliculitis barbae in skin types IV, V, and VI with a long-pulsed neodymium:yttrium aluminum garnet laser. *Journal of the American Academy of Dermatology*. 2002;47(2):263-70.
53. Ross EV, Zelickson BD. Biophysics of nonablative dermal remodeling. *Seminars in Cutaneous Medicine & Surgery*. 2002;21(4):251-65.
54. Ross EV, Cooke LM, Overstreet KA, Buttolph GD, Blair MA. Treatment of pseudofolliculitis barbae in very dark skin with a long pulse Nd:YAG laser. *Journal of the National Medical Association* 2002;94(10):888-93.
55. Henderson JL, Cupp CL, Ross EV, Shick PC, Keefe MA, Wester DC, et al. The effects of autologous platelet gel on wound healing. *Ear, Nose, & Throat Journal*. 2003;82(8):598-602.

56. Paithankar DY, Clifford JM, Saleh BA, Ross EV, Hardaway CA, Barnette D. Subsurface skin renewal by treatment with a 1450-nm laser in combination with dynamic cooling. *Journal of Biomedical Optics* 2003;8(3):545-51.
57. Ross EV, Udall DN. Nonfacial laser rejuvenation. *Dermatology Nursing*. 2003;15(3):231-5, 277; quiz 236.
58. Ross EV, Udall DN. Nonfacial laser rejuvenation.[erratum appears in *Dermatol Nurs*. 2003 Aug;15(4):392]. *Dermatology Nursing* 2003;15(3):231-5.
59. Ross V, Domankevitz Y. Laser leg vein treatment: a brief overview. *Journal of Cosmetic & Laser Therapy* 2003;5(3-4):192-7.

Publications : 2004-2009

1: Ross EV.

Laser versus intense pulsed light: Competing technologies in dermatology. *Lasers Surg Med*. 2006 Apr;38(4):261-72. Review.
PMID: 16596659 [PubMed - indexed for MEDLINE]

2: Shumaker PR, England LJ, Dover JS, Ross EV, Harford R, Derienzo D, Bogle M, Uebelhoer N, Jacoby M, Pope K.

Effect of monopolar radiofrequency treatment over soft-tissue fillers in an animal model: part 2.

Lasers Surg Med. 2006 Mar;38(3):211-7.
PMID: 16485274 [PubMed - indexed for MEDLINE]

3: Willey A, Anderson RR, Azpiazu JL, Bakus AD, Barlow RJ, Dover JS, Garden JM, Kilmer SL, Landa N, Manstein D, Ross EV Jr, Sadick N, Tanghetti EA, Yaghmai D, Zelickson BD.

Complications of laser dermatologic surgery. *Lasers Surg Med*. 2006 Jan;38(1):1-15.

PMID: 16444692 [PubMed - indexed for MEDLINE]

4: Narins RS, Tope WD, Pope K, Ross EV.

Overtreatment effects associated with a radiofrequency tissue-tightening device: rare, preventable, and correctable with subcision and autologous fat transfer.

Dermatol Surg. 2006 Jan;32(1):115-24. No abstract available.
PMID: 16393612 [PubMed - indexed for MEDLINE]

5: Bevin AA, Parlette EC, Domankevitz Y, Ross EV.

Variable-pulse Nd:YAG laser in the treatment of facial telangiectasias. *Dermatol Surg*. 2006 Jan;32(1):7-12.

PMID: 16393592 [PubMed - indexed for MEDLINE]

6: Ross EV.

Acne, lasers, and light.

Adv Dermatol. 2005;21:1-32. Review. No abstract available.
PMID: 16350436 [PubMed - indexed for MEDLINE]

7: Parlette EC, Groff WF, Kinshella MJ, Domankevitz Y, O'Neill J, Ross EV.

Optimal pulse durations for the treatment of leg telangiectasias with a neodymium YAG laser.

Lasers Surg Med. 2006 Feb;38(2):98-105.
PMID: 16240418 [PubMed - indexed for MEDLINE]

8: Ross EV.

Optical treatments for acne.

Dermatol Ther. 2005 May-Jun;18(3):253-66. Review.
PMID: 16229726 [PubMed - indexed for MEDLINE]

- 9: Ross EV, Smirnov M, Pankratov M, Altshuler G.
Intense pulsed light and laser treatment of facial telangiectasias and dyspigmentation: some theoretical and practical comparisons.
Dermatol Surg. 2005 Sep;31(9 Pt 2):1188-98. Review.
PMID: 16176770 [PubMed - indexed for MEDLINE]
- 10: Butler EG 2nd, McClellan SD, Ross EV.
Split treatment of photodamaged skin with KTP 532 nm laser with 10 mm handpiece versus IPL: a cheek-to-cheek comparison.
Lasers Surg Med. 2006 Feb;38(2):124-8.
PMID: 16142765 [PubMed - indexed for MEDLINE]
- 11: Sturgill WH, Leach BC, Spolyar MM, Ross EV.
Evaluation of a novel flash lamp system (FLS) incorporating optimal spectral filtration for the treatment of photoaging.
Lasers Surg Med. 2005 Aug;37(2):108-13.
PMID: 16037968 [PubMed - indexed for MEDLINE]
- 12: Smith EP, Winstanley D, Ross EV.
Modified superlong pulse 810 nm diode laser in the treatment of pseudofolliculitis barbae in skin types V and VI.
Dermatol Surg. 2005 Mar;31(3):297-301.
PMID: 15841630 [PubMed - indexed for MEDLINE]
- 13: Ross EV, Domankevitz Y.
Laser treatment of leg veins: Physical mechanisms and theoretical considerations.
Lasers Surg Med. 2005 Feb;36(2):105-16.
PMID: 15704168 [PubMed - indexed for MEDLINE]
- 14: Parlette EC, Kroeger N, Ross EV.
Nd:YAG laser treatment of recalcitrant folliculitis decalvans.
Dermatol Surg. 2004 Aug;30(8):1152-4.
PMID: 15274709 [PubMed - indexed for MEDLINE]
- Publications 2006-2008
- 1: Galeckas KJ, Collins M, Ross EV, Uebelhoer NS.
Split-face treatment of facial dyschromia: pulsed dye laser with a compression handpiece versus intense pulsed light.
Dermatol Surg. 2008 May;34(5):672-80. Epub 2008 Mar 3.
PMID: 18318731 [PubMed - in process]
- 2: Gonzalez MJ, Sturgill WH, Ross EV, Uebelhoer NS.
Treatment of acne scars using the plasma skin regeneration (PSR) system.
Lasers Surg Med. 2008 Feb;40(2):124-7.
PMID: 18306162 [PubMed - in process]
- 3: Beute TC, Miller CH, Timko AL, Ross EV.
In vitro spectral analysis of tattoo pigments.
Dermatol Surg. 2008 Apr;34(4):508-15; discussion 515-6. Epub 2008 Jan 31.
PMID: 18248489 [PubMed - indexed for MEDLINE]
- 4: Galeckas KJ, Ross EV, Uebelhoer NS.
A pulsed dye laser with a 10-mm beam diameter and a pigmented lesion window for purpura-free photorejuvenation.

Dermatol Surg. 2008 Mar;34(3):308-13. Epub 2007 Dec 19.
PMID: 18177402 [PubMed - indexed for MEDLINE]

5: Ross EV.

Nonablative laser rejuvenation in men.
Dermatol Ther. 2007 Nov-Dec;20(6):414-29. Review.
PMID: 18093015 [PubMed - indexed for MEDLINE]

6: Trafeli JP, Kwan JM, Meehan KJ, Domankevitz Y, Gilbert S, Malomo K, Ross EV.

Use of a long-pulse alexandrite laser in the treatment of superficial pigmented lesions.
Dermatol Surg. 2007 Dec;33(12):1477-82.
PMID: 18076614 [PubMed - indexed for MEDLINE]

7: Ross EV, Uebelhoer NS, Domankevitz Y.

Use of a novel pulse dye laser for rapid single-pass purpura-free treatment of telangiectases.
Dermatol Surg. 2007 Dec;33(12):1466-9.
PMID: 18076612 [PubMed - indexed for MEDLINE]

8: Ross EV.

Laser versus intense pulsed light: Competing technologies in dermatology.
Lasers Surg Med. 2006 Apr;38(4):261-72. Review.
PMID: 16596659 [PubMed - indexed for MEDLINE]

9: Shumaker PR, England LJ, Dover JS, Ross EV, Harford R, Derienzo D, Bogle M, Uebelhoer N, Jacoby M, Pope K.

Effect of monopolar radiofrequency treatment over soft-tissue fillers in an animal model: part 2.
Lasers Surg Med. 2006 Mar;38(3):211-7.
PMID: 16485274 [PubMed - indexed for MEDLINE]

10: Willey A, Anderson RR, Azpiazu JL, Bakus AD, Barlow RJ, Dover JS, Garden JM, Kilmer SL, Landa N, Manstein D, Ross EV Jr, Sadick N, Tanghetti EA, Yaghami D, Zelickson BD.

Complications of laser dermatologic surgery.
Lasers Surg Med. 2006 Jan;38(1):1-15.
PMID: 16444692 [PubMed - indexed for MEDLINE]

Publications 2009-2010

1. Regan TD, Uebelhoer NS, Satter E, Ross EV. Depth of tissue ablation and residual thermal damage caused by a pixilated 2,940 nm laser in a swine skin model. *Lasers Surg Med.* Jul 2010;42(5):408-411.
2. Huang YC, Tran N, Shumaker PR, et al. Blood flow dynamics after laser therapy of port wine stain birthmarks. *Lasers Surg Med.* Oct 2009;41(8):563-571.
3. Ross EV, Swann M, Soon S, Izadpanah A, Barnette D, Davenport S. Full-face treatments with the 2790-nm erbium:YSGG laser system. *J Drugs Dermatol.* Mar 2009;8(3):248-252.
4. Ross EV, Meehan KJ, Gilbert S, Domankevitz Y. Optimal pulse durations for the treatment of leg telangiectasias with an alexandrite laser. *Lasers Surg Med.* Feb 2009;41(2):104-109.

Publications 2011-2012

[1-20]

1. Alexandrescu, D.T. and E.V. Ross, *New frontiers in laser surgery.* Semin Cutan Med Surg, 2012. **31**(2): p. 88-97.
2. Beute, T.C., et al., *In vitro spectral analysis of tattoo pigments.* Dermatol Surg, 2008. **34**(4): p. 508-15; discussion 515-6.

3. Chern, P.L., Y. Domankevitz, and E.V. Ross, *Pulsed dye laser treatment of pigmented lesions: a randomized clinical pilot study comparison of 607- and 595-nm wavelength lasers*. *Lasers Surg Med*, 2010. **42**(10): p. 705-9.
4. Fitzpatrick, R., et al., *Nomenclature proposal on laser ablation and nonablation*. *J Am Acad Dermatol*, 2012. **67**(4): p. 792-3; author reply 793-4.
5. Galeckas, K.J., et al., *Split-face treatment of facial dyschromia: pulsed dye laser with a compression handpiece versus intense pulsed light*. *Dermatol Surg*, 2008. **34**(5): p. 672-80.
6. Galeckas, K.J., E.V. Ross, and N.S. Uebelhoer, *A pulsed dye laser with a 10-mm beam diameter and a pigmented lesion window for purpura-free photorejuvenation*. *Dermatol Surg*, 2008. **34**(3): p. 308-13.
7. Gonzalez, M.J., et al., *Treatment of acne scars using the plasma skin regeneration (PSR) system*. *Lasers Surg Med*, 2008. **40**(2): p. 124-7.
8. Huang, Y.C., et al., *Blood flow dynamics after laser therapy of port wine stain birthmarks*. *Lasers Surg Med*, 2009. **41**(8): p. 563-71.
9. Liu, A., et al., *Pulsed dye laser and pulsed dye laser-mediated photodynamic therapy in the treatment of dermatologic disorders*. *Dermatol Surg*, 2012. **38**(3): p. 351-66.
10. Ortiz, A.E. and E.V. Ross, *A complication of an eyelid hemangioma treated with a long-pulsed 1,064 nm Nd:YAG laser*. *Lasers Surg Med*, 2010. **42**(10): p. 736-7.
11. Ortiz, A.E. and E.V. Ross, *Letter: successful treatment of multiple miliary osteomas of the face using an erbium-doped yttrium aluminum garnet laser*. *Dermatol Surg*, 2012. **37**(10): p. 1548-50.
12. Ortiz, A.E., et al., *Topical steroids implicated in postoperative infection following ablative laser resurfacing*. *Lasers Surg Med*, 2012. **44**(1): p. 1-3.
13. Regan, T.D., et al., *Depth of tissue ablation and residual thermal damage caused by a pixilated 2,940 nm laser in a swine skin model*. *Lasers Surg Med*, 2010. **42**(5): p. 408-11.
14. Ross, E.V., et al., *Use of a variable long-pulse alexandrite laser in the treatment of facial telangiectasia*. *Dermatol Surg*, 2010. **36**(4): p. 470-4.
15. Ross, E.V., et al., *Optimal pulse durations for the treatment of leg telangiectasias with an alexandrite laser*. *Lasers Surg Med*, 2009. **41**(2): p. 104-9.
16. Ross, E.V., et al., *Full-face treatments with the 2790-nm erbium:YSGG laser system*. *J Drugs Dermatol*, 2009. **8**(3): p. 248-52.
17. Uebelhoer, N.S. and E.V. Ross, *Introduction. Update on lasers*. *Semin Cutan Med Surg*, 2008. **27**(4): p. 221-6.
18. Uebelhoer, N.S., E.V. Ross, and P.R. Shumaker, *Ablative fractional resurfacing for the treatment of traumatic scars and contractures*. *Semin Cutan Med Surg*, 2012. **31**(2): p. 110-20.
19. Weiss, R.A., et al., *Characterization of an optimized light source and comparison to pulsed dye laser for superficial and deep vessel clearance*. *Lasers Surg Med*, 2011. **43**(2): p. 92-8.
20. Xia, Y., et al., *Evaluation of the vacuum-assisted handpiece compared with the sapphire-cooled handpiece of the 800-nm diode laser system for the use of hair removal and reduction*. *J Cosmet Laser Ther*, 2010. **12**(6): p. 264-8.
21. Cohen, J.L. and E.V. Ross, *Combined fractional ablative and nonablative laser resurfacing treatment: a split-face comparative study*. *J Drugs Dermatol*, 2013. **12**(2): p. 175-8.
22. Alam, M., et al., *Abbreviations for device names: a proposed methodology with specific examples*. *Dermatol Surg*, 2013. **39**(4): p. 548-50.
23. Winstanley, D., et al., *Treatment of sebaceous hyperplasia with a novel 1,720-nm laser*. *J Drugs Dermatol*, 2012. **11**(11): p. 1323-6.
24. Winstanley, D., et al., *Treatment of benign pigmented lesions using a long-pulse alexandrite laser*. *J Drugs Dermatol*, 2012. **11**(11): p. 1327-30.
25. Ortiz, A.E. and E.V. Ross, *Letter: successful treatment of multiple miliary osteomas of the face using an erbium-doped yttrium aluminum garnet laser*. *Dermatol Surg*, 2011. **37**(10): p. 1548-50.

Publications 2012-2014

1: Anderson RR, Donelan MB, Hivnor C, Greeson E, Ross EV, Shumaker PR, Uebelhoer NS, Waibel JS. Laser treatment of traumatic scars with an emphasis on ablative fractional laser resurfacing: consensus report. *JAMA Dermatol*. 2014 Feb;150(2):187-93. doi: 10.1001/jamadermatol.2013.7761. PubMed PMID: 24336931.

2: Cohen JL, Ross EV. Combined fractional ablative and nonablative laser resurfacing treatment: a split-face comparative study. *J Drugs Dermatol*. 2013 Feb;12(2):175-8. PubMed PMID: 23377390.

7: Alexandrescu DT, Ross EV. New frontiers in laser surgery. *Semin Cutan Med Surg.* 2012 Jun;31(2):88-97. doi: 10.1016/j.sder.2012.04.002. Review. PubMed PMID: 22640428.

8: Liu A, Moy RL, Ross EV, Hamzavi I, Ozog DM. Pulsed dye laser and pulsed dye laser-mediated photodynamic therapy in the treatment of dermatologic disorders. *Dermatol Surg.* 2012 Mar;38(3):351-66. doi: 10.1111/j.1524-4725.2011.02293.x. Epub 2012 Jan 23. Review. PubMed PMID: 22269028.

1: Lloyd AA, Graves MS, Ross EV. Cutaneous siderosis secondary to intramuscular iron dextran treated with 755 nm Q-switched alexandrite laser: A case report. *Lasers Surg Med.* 2015 May 20. doi: 10.1002/lsm.22353. [Epub ahead of print] PubMed PMID: 25994768.

2: Graves MS, Lloyd AA, Ross EV. Treatment of acral persistent papular mucinosis using an Erbium-YAG laser. *Lasers Surg Med.* 2015 May 7. doi: 10.1002/lsm.22368. [Epub ahead of print] PubMed PMID: 25952726.

3: Miller L, Mishra V, Alsaad S, Winstanley D, Blalock T, Tingey C, Qiu J, Romine S, Ross EV. Clinical evaluation of a non-ablative 1940 nm fractional laser. *J Drugs Dermatol.* 2014 Nov;13(11):1324-9. PubMed PMID: 25607697.

4: Xu LY, Kilmer SL, Ross EV, Avram MM. Bacterial infections following non-ablative fractional laser treatment: a case series and discussion. *Lasers Surg Med.* 2015 Feb;47(2):128-32. doi: 10.1002/lsm.22315. Epub 2015 Jan 13. PubMed PMID: 25586939.

[4, 9, 12, 18, 21-25]

Recent publications _ 2015-2016

1: Graves MS, Lloyd AA, Ross EV. Defining the Absorption Spectrum of the Skin After Application of a Popular Sunless Tanner, Dihydroxyacetone, Using Reflectance Photospectrometry. *J Drugs Dermatol.* 2016 Nov 1;15(11):1459-1460. PubMed PMID: 28095563.

2: Eilers RE Jr, Ross EV, Cohen JL, Ortiz AE. A Combination Approach to Surgical Scars. *Dermatol Surg.* 2016 May;42 Suppl 2:S150-6. doi: 10.1097/DSS.0000000000000750. PubMed PMID: 27128241.

3: Ross EV, Blalock TW, Winstanley D, Cohen JL, Childs JJ. Objective Melanin Measurements: Review of Novel Dosimetry Guidance Device for Intense Pulsed Light in Aesthetic Treatments. *J Drugs Dermatol.* 2016 Apr;15(4):421-32. Review. PubMed PMID: 27050697.

4: Ross EV, Childs J. Role of Beam Spot Size in Heating Targets at Depth. *J Drugs Dermatol.* 2015 Dec;14(12):1437-42. PubMed PMID: 26659937.

5: Alsaad SM, Ross EV, Smith WJ, DeRienzo DP. Analysis of Depth of Ablation, Thermal Damage, Wound Healing, and Wound Contraction With Erbium YAG Laser in a Yorkshire Pig Model. *J Drugs Dermatol*. 2015 Nov;14(11):1245-52. PubMed PMID: 26580873.

6: Cohen PR, Ross EV. Q-Switched Alexandrite Laser-induced Chrysiasis. *J Clin Aesthet Dermatol*. 2015 Sep;8(9):48-53. PubMed PMID: 26430491; PubMed Central PMCID: PMC4587895.

7: Lloyd AA, Graves MS, Ross EV. Cutaneous siderosis secondary to intramuscular iron dextran treated with 755 nm Q-switched alexandrite laser: A case report. *Lasers Surg Med*. 2015 Jul;47(5):386-7. doi: 10.1002/lsm.22353. PubMed PMID: 25994768.

Publications- 2016-2017

1: Ross EV. The picosecond revolution and laser tattoo treatments: are shorter pulses really better? *Br J Dermatol*. 2017 Feb;176(2):299-300. doi: 10.1111/bjd.15294. PubMed PMID: 28244080.

2: Graves MS, Lloyd AA, Ross EV. Defining the Absorption Spectrum of the Skin After Application of a Popular Sunless Tanner, Dihydroxyacetone, Using Reflectance Photospectrometry. *J Drugs Dermatol*. 2016 Nov 1;15(11):1459-1460. PubMed PMID: 28095563.

Publications 2018:

1: Lloyd AA, Graves MS, Ross EV. Epidermal Fluence Threshold Determination by Real-Time Melanin Measurements. *Dermatol Surg*. 2018 Nov;44(11):1427-1436. doi: 10.1097/DSS.0000000000001606. PubMed PMID: 30020097.

2: Tidwell WJ, Green C, Jensen D, Ross EV. Clinical evaluation and in-vivo analysis of the performance of a fractional infrared 1550 nm laser system for skin rejuvenation. *J Cosmet Laser Ther*. 2018 Aug 24:1-4. doi: 10.1080/14764172.2018.1511915. [Epub ahead of print] PubMed PMID: 30142304.

3: Ross EV, Ibrahim OA, Kilmer S. Long-term clinical evaluation of hair clearance in darkly pigmented individuals using a novel diode 1060 nm wavelength with multiple treatment handpieces: A prospective analysis with modeling and histological findings. *Lasers Surg Med*. 2018 Sep;50(9):893-901. doi: 10.1002/lsm.22943. Epub 2018 May 30. PubMed PMID: 29845623.

4: Ross EV, Chuang GS, Ortiz AE, Davenport SA. Airborne particulate concentration during laser hair removal: A comparison between cold sapphire with aqueous gel and cryogen skin cooling. *Lasers Surg Med*. 2018 Apr;50(4):280-283. doi: 10.1002/lsm.22772. Epub 2017 Dec 7. PubMed PMID: 29214662.

Publications : 2018-2019

1: Tidwell WJ, Green C, Jensen D, Ross EV. Clinical evaluation and in-vivo analysis of the performance of a fractional infrared 1550 nm laser system for skin rejuvenation. *J Cosmet Laser Ther.* 2018 Oct;20(6):360-363. doi: 10.1080/14764172.2018.1511915. Epub 2018 Aug 24. PubMed PMID: 30142304.

2: Lloyd AA, Graves MS, Ross EV. Epidermal Fluence Threshold Determination by Real-Time Melanin Measurements. *Dermatol Surg.* 2018 Nov;44(11):1427-1436. doi: 10.1097/DSS.0000000000001606. PubMed PMID: 30020097.

3: Ross EV, Ibrahimi OA, Kilmer S. Long-term clinical evaluation of hair clearance in darkly pigmented individuals using a novel diode 1060 nm wavelength with multiple treatment handpieces: A prospective analysis with modeling and histological findings. *Lasers Surg Med.* 2018 Sep;50(9):893-901. doi: 10.1002/lsm.22943. Epub 2018 May 30. PubMed PMID: 29845623.

1 Papers- 2019-present

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[Study of a 532/1064 Fractional Picosecond Laser for Facial Rejuvenation.](#)

Ross EV, Tidwell WJ, Guss L, Sutton AV. *Dermatol Surg.* 2021 Sep 22. doi: 10.1097/DSS.0000000000003229. Online ahead of print. PMID: 34608097

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[Airborne particulate concentration during non-thermal nano-pulse stimulation wart clearance is negligible compared to thermal modalities.](#)

Ross EV, Newman J, Ravichandran J, Nuccitelli R. *Lasers Surg Med.* 2021 Aug 25. doi: 10.1002/lsm.23468. Online ahead of print. PMID: 34431551

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[Safety and Efficacy of Nano-Pulse Stimulation Treatment of Non-Genital, Cutaneous Warts \(Verrucae\).](#)

Nuccitelli R, LaTowsky BM, Lain E, Munavalli G, Loss L, Ross EV, Jauregui L, Knape WA. *Lasers Surg Med.* 2021 May 19. doi: 10.1002/lsm.23423. Online ahead of print. PMID: 34008877

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[Hair Removal With Blended 755/1064 nm Laser Energy.](#)

Ross EV, Domankevitz Y. *Lasers Surg Med.* 2021 Oct;53(8):1020-1025. doi: 10.1002/lsm.23381. Epub 2021 Jan 28. PMID: 33508141

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[Laser Rejuvenation of Nonfacial Skin: A Review and a Personal Approach.](#)

Ross EV. *Dermatol Surg.* 2020 Oct;46 Suppl 1:S71-S76. doi: 10.1097/DSS.0000000000002656. PMID: 32976173

[1,550 nm Erbium-Doped and 1,927 nm Thulium Nonablative Fractional Laser System: Best Practices and Treatment Setting Recommendations.](#)

Friedman PM, Dover JS, Chapas A, Rahman Z, Ross EV, Kilmer SL, Roberts WE, Sodha P, Stimmel JB, Moncrief MBC, Waibel JS. *Dermatol Surg.* 2022 Feb 1;48(2):195-200. doi: 10.1097/DSS.0000000000003321. PMID: 35050945 **Free PMC article.**

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["Photon recycling" can enhance cutaneous response to lasers: A pilot human study.](#)

Ross EV, Raythen J, Anderson RR. *Lasers Surg Med.* 2022 Jan;54(1):152-156. doi: 10.1002/lsm.23505. Epub 2021 Dec 23. PMID: 34939685

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[Optimizing Outcomes With the 1550/1927 nm Dual Wavelength Non-Ablative Fractional Laser: Experienced User Recommendations.](#)

Friedman P, Chapas A, Kilmer S, Rahman Z, Roberts W, Ross E, Waibel J, Dover J. *J Drugs Dermatol.* 2021 Nov 1;20(11):1150-1157. doi: 10.36849/jdd.6181. PMID: 34784135

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[Study of a 532/1064 Fractional Picosecond Laser for Facial Rejuvenation.](#)

Ross EV, Tidwell WJ, Guss L, Sutton AV. *Dermatol Surg.* 2022 Jan 1;48(1):109-113. doi: 10.1097/DSS.0000000000003229. PMID: 34608097 Clinical Trial.

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[Airborne particulate concentration during non-thermal nano-pulse stimulation wart clearance is negligible compared to thermal modalities.](#)

Ross EV, Newman J, Ravichandran J, Nuccitelli R. *Lasers Surg Med.* 2022 Jan;54(1):189-192. doi: 10.1002/lsm.23468. Epub 2021 Aug 25. PMID: 34431551 **Free PMC article.**

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[Safety and Efficacy of Nano-Pulse Stimulation Treatment of Non-Genital, Cutaneous Warts \(Verrucae\).](#)

Nuccitelli R, LaTowsky BM, Lain E, Munavalli G, Loss L, Ross EV, Jauregui L, Knape WA. *Lasers Surg Med.* 2021 Dec;53(10):1301-1306. doi: 10.1002/lsm.23423. Epub 2021 May 19. PMID: 34008877 **Free PMC article.**

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BOOK CHAPTERS:

1. Ross EV, Anderson RR: Erbium laser in resurfacing. Chapter in book entitled Cosmetic Surgery: A Practitioner's Guide, 2nd edition
2. Ross EV, Anderson RR: Lasers in Dermatology. Chapter in book entitled Fitzpatrick's Dermatology in General Medicine, 5th edition
3. Ross EV, Anderson RR: Laser tissue interactions. Chapter in book entitled Cutaneous Laser Surgery
4. Ross EV and Uebelhoer N, Lasers and Laser Tissue interactions in Lasers in Dermatology and Medicine, Nouri, K editor.

Meeting chairs:

1. Co-chaired topical meeting on laser in dermatology as part of the Optical Society of America Annual Meeting in Long Beach, CA. October 1997.
2. Chair of Annual American Society for Lasers in Surgery and Medicine Annual Meeting:

- Dallas, TX. April 2004.
3. Chair of topical meeting on fillers and neurotoxins. American Society for Dermatologic Surgery.

LIST OF PRESENTATIONS (1994-2012- partial list):

1. Massachusetts General Hospital: Wellman Laboratories of Photomedicine. Departmental Seminar: presented lecture on *"Pulse duration effects in laser skin resurfacing."* Jan 1995
2. American Society for Lasers in Surgery and Medicine Annual Meeting; April 1995, San Diego, CA.
Presented 3 abstracts:
 - a. Measurement purpura diameters after PDL therapy: influence of spot diameters and comparison with a Monte Carlo Model
 - b. Comparison of CO₂ laser resurfacing systems
 - c. PDL treatment of verrucae: measurement of temperature with a thermal camera
3. Instructor for course on *Skin resurfacing and hair transplantation using novel flashscanner techniques*: presented two lectures 23 Jan 1995, Boston, MA.
4. Instructor for course on *Skin resurfacing and hair transplantation using novel flashscanner techniques*: presented two lectures: Boston, MA, March 11, 1995.
5. Instructor for course: *Skin resurfacing and hair transplantation using novel flashscanner techniques*: presented two lectures: presented two lectures: Boston, MA April 8, 1995
6. Instructor for course: *Skin resurfacing and hair transplantation using novel flashscanner techniques*: presented two lectures: Maastricht, the Netherlands, June 1995.
7. Instructor for course: *Skin resurfacing and hair transplantation using novel flashscanner techniques*: presented two lectures: Boston, MA . September 23, 1995.
8. Instructor for course: *Skin resurfacing and hair transplantation using novel flashscanner techniques*: presented two lectures. Brussels, Belgium, October 1995.
9. Lecture in *Lasers in Dermatology*: presented as part of Tufts University Electro-optics Lecture Series. Jan. 1995, Boston. MA.
10. American Society for Lasers in Surgery and Medicine Annual Meeting, Orlando, FL, April 1996.
Presented three abstracts:
 - a. *In-vivo wound contraction after CO₂ laser injury in a domestic pig*
 - b. *Use of a reflective device to recycle wasted photons in cutaneous laser surgery*
 - c. *Comparison of nanosecond and picosecond Nd:YAG lasers pulses in tattoo removal*
4. Annual Meeting of the Association of Military dermatologists: Williamsburg, VA. May 1996. Presented two lectures:
 - a. *Overview of laser tissue interaction in dermatology*
 - b. *Photodynamic therapy in dermatology*
5. American Society of Photobiology Annual Meeting. Atlanta, GA June 1996. Presented abstract entitled: *"Use of a Nile blue derivative in treatment of squamous cell carcinoma in hairless mice."*
6. Gordon Research Conference: Section on Lasers in Biology and Medicine. NH. July 1996. Presented lecture entitled *"Overview of laser resurfacing methods"*
7. American Academy of Dermatology Summer Meeting. July 1996. Orlando, FL.
Presented lecture entitled *"Update on laser skin resurfacing."*
8. Massachusetts General Hospital. Presented lecture on *"Novel techniques in laser resurfacing"* at annual meeting of MGH Laser Center. October, 1996.
9. Annual BIOS meeting of the Society of Photo-instrumentation Engineers. San Jose, CA. Feb. 1997. presented talk on *"Effects of pulse stacking in laser skin resurfacing."*
10. Annual meeting of the American Academy of Dermatology. March 1997. San Francisco, CA. Presented lecture on *"Update on laser skin resurfacing."*
11. Semiannual *Lasers in Surgery* Course. Co-director. April and October 1997. Naval Medical Center San Diego.
12. Annual Meeting of the Am Society for Lasers in Surgery and Medicine. Phoenix, AZ. April, 1997 Presented abstract entitled *"Effects of pulse stacking in laser skin resurfacing."*
13. Annual Scripps Clinic/Greenway Course on Cutaneous anatomy (6 hours CME):

- presented lecture entitled *"The use of laser in treatment in scars and keloids."* San Diego, CA. July 1997.
14. Annual "Melanoma Update Course" sponsored by Scripps Clinic. Presented lecture on *"Role of laser in management of melanoma"*: Jan. 1997, San Diego, CA
 15. Annual *"Controversies in Lasers in Dermatology"* course sponsored by Harvard Medical School. Santa Fe, NM, Aug. 1997 . Presented lecture on *"The erbium laser in skin resurfacing."*
 16. Annual Summer Meeting of the American Academy of Dermatology. NY, NY. August 1997. Presented lecture on "Novel techniques in skin resurfacing."
 17. Annual meeting of the Lasers and Electro-optics Society. Nov. 1997. San Francisco, CA. Presented talk on *"Laser skin resurfacing."*
 18. Annual meeting of the Optical Society of America: co-chaired topical meeting on *"Lasers in Dermatology"*. Long Beach, CA. Oct. 1997.
 19. Annual meeting of the Association of Military Dermatologists. San Diego, CA. Sept. 1997. Presented talk on "Photodynamic therapy in dermatology."
 20. Annual Harvard *Lasers in Dermatology* Course. (12 hours CME) October, 1995. Boston, MA. Participated as faculty in laser demonstration for attendees.
 21. Annual meeting of the American Society of Dermatologic Surgery. Portland, OR, May, 1998. Presented talk entitled, "Effect of wiping in laser skin resurfacing."
 22. Summer American Academy of Dermatology Meeting. Aug 3, 1998. Presented talk on "Update on laser skin resurfacing. Chicago, IL.
 23. UCSD Cutaneous Anatomy Course. July, 1998. Presented three lectures on laser surgery in dermatology, San Diego, CA.
 24. Scripps Clinic Update on Melanoma. JAN 1999, JAN 2000, JAN 2001 San Diego, CA.
 25. American Academy of Dermatology Annual Meeting, March 23-25, 1999. Presented three lectures on laser surgery topics. New Orleans, LA.
 26. Am. Society for Laser Surgery And Medicine annual meeting, Orlando, FL, April 13-18, 1999. Presented three lectures on basic and advanced laser skin resurfacing.
 27. American Society of Plastic and Reconstructive Surgery - Frontiers in Aesthetic Surgery Meeting. Dallas, May 14, 1999. Presented talks on 1. Wound care after laser skin resurfacing and 2. Physics of laser skin resurfacing.
 28. Uniformed Services Dermatology Seminar, San Diego, AUG 2000 - Update on Lasers: PFB, the Battlefield and the Operating Room
 29. University of Minnesota Laser Surgery Meeting - AUG 99 and 2000 - Surface Cooling Combined with Lasers
 30. Laser Hair Removal and Non-ablative Skin Rejuvenation - JAN 2001 -St John's Hospital, London, England. Invited speaker. As Louis Foreman lectureship
 31. American Academy of Dermatology, National Meeting - 1999 and 2000 - Laser Skin Resurfacing
 32. American Society for Laser Surgery and Medicine, annual meeting - APR 2000 - Reno, NV - Tattoo Removal with Lasers
 33. Harvard Dermatology Course - Woodstock, VT - AUG 2000 - Controversies in Laser Dermatology
 34. American Academy of Dermatology Annual Meeting: 2002: New Orleans. Presentation on laser resurfacing
 35. American Society for Dermatological Laser Surgery: 2001: Dallas TX. Presentation on laser resurfacing.
 36. Controversies in Cutaneous Laser surgery- Beaver Creek, CO, Aug 2001- presentations on laser resurfacing and laser tattoo removal
 37. Controversies in Cutaneous laser surgery. 2002; Ojai, CA presentations on skin tightening and laser treatment of pigmented lesions
 38. American Academy of Dermatology Annual meeting- 2003 San Francisco
 39. American Academy of Dermatology Annual meeting : 2004; Washington DC
 40. American Academy of Dermatology Annual Meeting: 2005: New Orleans, LA
 41. American Academy of Dermatology: San Francisco: 2006
 42. Chicago Dermatology Society: invited speaker 2003 (February) on What's new in cutaneous laser surgery
 43. Phoenix Dermatology Society: March 2012: invited speaker on practical applications in skin laser surgery
 44. Maui Dermatology Annual Meeting: featured speaker 2006-12 on topics ranging from

basic science of laser applications to laser treatment of vascular lesions
45. Hawaii Dermatology Meeting: 2010- talks on laser treatment of rosacea and striae
46. Hawaii Dermatology Meeting: 2011- talks on photodynamic therapy
47. Hawaii Dermatology Meeting: 2012- talk on non ablative laser skin rejuvenation
48. American Society for Laser Medicine and Surgery- multiple presentation at annual meeting from 2002-2012.

LIST OF PAST RESEARCH PROTOCOLS
AT NAVAL MEDICAL CENTER, SAN DIEGO and Scripps Clinic San Diego (partial list):

PRINCIPAL INVESTIGATOR

1. Treatment of acne with an intense pulsed light device
2. Use of a novel miniature laser to treat pseudofolliculitis barbae
3. Use of an alexandrite laser over various pulse durations to treat facial redness and telangiectasias
4. Use of a radiofrequency device in the presence of dermal fillers in a porcine skin model
5. Split face study comparison of an intense pulsed light device and a KTP laser in facial rejuvenation
6. Treatment of striae and acne scars with a novel radiofrequency fractional device
7. Treatment of rhytids and acne scars with a novel erbium YAG laser integrated into the laser handpiece
8. Treatment of vascular and pigmented lesions with a fractional 1064 nm handpiece
9. Skin tightening with a novel 1320 nm laser
10. Skin tightening with a 1064 nm long pulsed laser
11. Treatment of acne with a 1450 nm laser
12. Facial rejuvenation with a 1450 nm diode laser
13. Selective dermal heating with a 1550 nm laser equipped with contact cooling