

CURRICULUM VITAE

THOMAS E. SERENA, M.D. F.A.C.S. M.A.P.W.C.A. F.A.C.H.M.

BIRTHDATE: January 23, 1959

MARITAL STATUS: Married, Three Children

CELL: (814) 688-4000

E-Mail: serena@healingwounds.com

Web Site www.serenagroup.net

Home Address: 1390 Quaker Hill Rd.
Warren, PA 16365

Office Address: 311 Pennsylvania Ave. West
Warren, PA 16365
(814) 230- 7000

Executive Assistant: Rachel Thayer
X101

EDUCATION:

The College of William & Mary 1977-82
P.O. Box 8795
Williamsburg, VA, 23187-8795
BS – Biology (Highest Honors)

The Penn State University 1982-86
School of Medicine
The Hershey Medical Center
500 University Drive
Hershey, PA. 17033
MD-degree

RESIDENCY:

The Hershey Medical Center 1986-91
Department of Surgery
Hershey, PA
(Administrative Chief – 1991)

SIU School of Medicine 1991-92
Department of Surgery, Division of Plastic & Reconstructive Surgery
(included burn unit)
Springfield, IL

SURGICAL PRACTICE:

Warren Surgeons, Inc. 1992-2002
General and Vascular Surgery
103 St. Clair Street
Warren, PA 16365

A broad practice of general and vascular surgery including gastric bypass surgery, peripheral arterial surgery and advanced laparoscopy.

THE SERENA GROUP™

Founder and Medical Director 1997-2011
Penn North Centers for Advanced Wound Care now a subsidiary of The Serena Group™

Founder and Chief Medical Officer 2004-2011
Oxygen-8 Hyperbaric Medicine Centers now a subsidiary of the Serena Group™

The Serena Group™ Administrative Office,
311 Pennsylvania Ave. West
Warren, PA 16365
(814) 230-7000 (PHONE)
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THE SERENA GROUP™: WOUND AND HYPERBARIC CENTERS

Saint Vincent's Health System 232West25Street Erie, PA 16544	2002 -present
Grove City Medical Center 631 N. Broad Street Ext., Grove City, PA 16127	2006-present
Westfield Memorial Hospital 185 E Main St Westfield, NY 14787	2006-present
Armstrong County Memorial Hospital One Nolte Drive Kittanning, PA. 16201	2006-present
New York Methodist 1 Prospect Park West Brooklyn, NY	2008-present
St. Johns Medical Center 1923 S Utica Ave Tulsa, OK 74104	2008-present
Miami Valley Hospital South Campus 2400 Miami Valley Drive Centerville, Ohio 45459	2010-present
Orangeburg Regional Medical Center 3000 Saint Matthew Road, Orangeburg, SC 29118	2011 – present
St. Mary Mercy Hospital 36475 Five Mile Rd Livonia, MI 48154	2011 - present
Hackensack University Medical Center 20 Prospect Avenue, Hackensack, NJ	2011 – present
Chambersburg Hospital-Summit Health	2011 – present

112 North Seventh Street,
Chambersburg, PA 17201

Jefferson Regional Health System
1400 U.S. 61,
Festus, MO

2011 – present

St. Mary's Health Care System
1230 Baxter Street,
Athens, Georgia

2012 – present

HEALING WOUNDS™

Founder, Healing Wounds, providing care to patients in extended care facilities. A list of facilities is available on request.

NEWBRIDGE MEDICAL RESEARCH™

Founder and Scientific Director

A non-profit (501(c) 3) research group dedicated to the science of wound healing

NewBridge Medical Research
311 Pennsylvania Ave West
Warren, PA 16365
(814) 688-4000

EXPERT WITNESS

I am an experienced expert witness in tort and patent cases involving issues related to wound care and hyperbaric medicine. I have reviewed more than 30 cases, given numerous depositions (state and federal) and appeared in court. A list of firms is available on request. Detailed information can be found on my web site: www.serenagroup.net.

PRODUCT DEVELOPMENT CONSULTATION

I have been involved in product development in the wound care space for more than a dozen years. I have thorough knowledge of the unmet needs in wound care, clinical trial design for regulatory approval and reimbursement. I have experience meeting with the FDA and CMS. Please visit my web site for further information on these consultation services, www.serenagroup.net.

ACADEMIC APPOINTMENTS:

Gannon University, Assistant Professor 1995-2010
Lecturer and Research Coordinator
Physician Assistant Department
109 University Square
Erie, PA 16541-0001

INTERNATIONAL POSITIONS

CST Technologies Director of Clinical Programs, China
International Board on Pain in Wound Healing
Chairman, Steering committee, Health Volunteers Overseas/AAWC Global Volunteers.
Member, World Alliance of Wound and Lymphedema Care (WAWLC)

BOARD CERTIFICATION:

Board Certified in Surgery	1992
Re-Certified in Surgery	2001
Re-Certified in Surgery	2011
Certificate of Training for Medical Research	2003
Certificate in Hyperbaric medicine	2004

LICENSES:

Pennsylvania	MD038905E	-valid until 12/31/12
New York	228580	-valid until 12/ 2012

FELLOWSHIPS:

Fellow American College of Surgeons	1995
Fellow American Professional Wound Care Association	2003
Fellow American College of Hyperbaric Medicine	2008
Master in Wound Care, American Professional Wound Care Association	2011

HONORS & AWARDS (William and Mary):

Alpha Lambda Delta
Freshman Honor Society
Sigma Chi
Biology Honor Society

Phi Beta Kappa, Alpha chapter

GYMNASTICS:

Eleven Time Individual State Champion

Team Captain 1981 & 1982

All American: Division 1 NCAA Gymnast 1982

William & Mary Scholar Athlete of the Year Award 1982

Qualified for Olympic Trials

Hall of Fame, William & Mary 1999

PRESENTATIONS: (College-Residency):

- | | |
|---|------|
| “The Neighborhood Size of the Parasitic Jewel Wasp
(Nasonia Vitirpennis)”
Highest Honors Presentation
The College of William & Mary
Williamsburg, VA | 1982 |
| “The Effect of Nadolol and Proarolol on Plasma
Lidocaine Clearance.”
Problem Solving Project
Penn State University School of Medicine | 1984 |
| “Graves Disease: A Surgical Prospective”
Hershey Surgical Society, Hershey, PA | 1990 |
| “My Trauma Experience and Myocardial Contusion at the
Penn State School of Medicine.”
Hershey Surgical Society, Hershey, PA | 1991 |
| “The Right Stuff, Nobel Prize Winning Surgeons”
Hershey Surgical Society, Hershey, PA | 1991 |
| “Limited Arthrodesis for the SLAC Wrist
Grand Rounds Presentation
SIU School of Medicine
Springfield, IL
(Also presented at):
Illinois Chapter of the American College of Surgeons Peoria, IL
(Also presented at): Midwestern Association of Plastic Surgeons
Bismarck, ND | 1992 |

PUBLICATIONS (PEER REVIEWED ABSTRACTS)

1. . “Totally Laproscopic Billroth I Gastrectomy in A Rural Community Hospital”.
Thomas E. Serena, M.D., Robert H. McLaughlin, M.D., Gary L. McAfoos, M.D.,

Department of Surgery, Warren General Hospital, Warren, Pennsylvania; SAGES SCIENTIFIC SESSION, March 1999.

2. "Laprosopic Repair of Para esophageal Hernia in a Rural Community Hospital" Robert H. McLaughlin, M.D., Thomas E. Serena, M.D., Gary L. McAfoos, M.D., Department of Surgery, Warren General Hospital, Warren, Pennsylvania; SAGES SCIENTIFIC SESSION, March 1999.
3. The beneficial Effects of Becaplermin (rhPDGF-BB) in the Treatment of a Dehisced Surgical Wound." Thomas E. Serena MD. Presented at The Wound Healing Society and European Tissue Repair Society Meeting, August 1999, Bordeaux, France.
Abstract Published in *Wound Repair and Regeneration*. Volume 7 Issue 3 Page 131-195 May 1999.
4. "Graftskin Heals a Chronic Leg Ulcer Complicated by Osteomyelitis." Thomas E. Serena. MD. Presented at the 14th Annual Clinical Symposium on Wound Care. September 1999. Denver, Colorado.
5. "The Use of Graftskin in The treatment of Diabetic Foot Ulcers Refractory to Standard Treatment." Thomas E. Serena, MD; Carrie Corbran, CETN. Presented at the Society of Clinical Vascular Surgery meeting in March 2000. Rancho Mirage, California.
6. "Becaplermin (rhPDGF-BB) in the treatment of a Chronic Vasculitic/Diabetic Neuropathic Ulcer in a Patient with Rheumatoid Arthritis. Presented at the European Tissue Repair Society Meeting held in Brussels, Belgium, May 2000. Presented in the United States at the American Society of Hospital System Pharmacist meeting in Las Vegas Nevada 12/00. Published in *Wound Repair and Regeneration*. Volume 8, Number 5 pp A432 September-October 2000.
7. A Comparison of Becaplermin Gel and Myocutaneous Flap Closure in the Treatment of Separate Pressures Ulcers in a Single Patient. Thomas E. Serena MD, Casey Miller PA-S. Presented at the Wound Healing Society meeting in Toronto Canada in June 2000.
Published in *Wound Repair and Regeneration*. Volume 8, Number 2. April 2000.
8. Rapid Healing of Fingertip Injury Using Recombinant Human Platlet-Derived Growth Factor-BB (Becaplermin). Presented at the Wound Healing Society meeting in Toronto Canada in June 2000. Published in *Wound Repair and Regeneration*. Volume 8, Number 2. April 2000.
9. The Beneficial Effect of Becaplermin (rhPDGF-BB) in the Treatment of Pilonidal cysts. Thomas E. Serena MD C. Corbran COWCN. Presented at the American College of Surgeons meeting in Chicago 10/00.

10. Gastric Bypass in a Community Setting: A Safe and Effective Means of Weight Loss for the Treatment of Clinically Severe Obesity. David Reidel, Thomas E. Serena MD, Jerry Glenn MD PhD, et al., Presented at the Southwestern Surgical Congress in Cancun, Mexico. May 2001.
11. An Unusual Late Complication of Laproscopic Nissen Fundoplication: an intrawrap Herniation." Thomas E. Serena MD, Gary L. McAfoos MD. Presented at the Society of Gastrointestinal Endoscopic Surgeons meeting in St. Louis, MO. April 2001.
Published *Surgical Endoscopy* Volume 15, Number 1. ppS162. 2001.
12. Laproscopic Celiac Plexus Neurolysis in a Patient with Intractable Pain Associated With Chronic Pancreatitis" Thomas E. Serena MD, Gary McAfoos MD. Presented at the Society of Gastrointestinal Endoscopic Surgeons meeting in St. Louis, MO. April 2001.
Published *Surgical Endoscopy* Volume 15, Number 1. ppS162. 2001.
13. Esophageal Manometry Performed By Surgeons at a Rural Community Hospital." Thomas E. Serena MD, Sartaj Amed MS, Robert Pillitriere PAS, et. Al. Presented at The Society for Gastrointestinal Endoscopic Surgeons meeting in St. Louis, MO. April, 2001.
Published *Surgical Endoscopy* Volume 15, Number 1. ppS162. 2001.
14. Bioengineered Skin (Apligraf) Facilitates Healing In Patients on Long Term Steroids. Thomas E. Serena MD FACS C. Corbran COWCN. Presented at the Southwestern Surgical Congress in Cancun, Mexico. May 2001.
15. The Combination of Bioengineered Skin and The Subfacial Endoscopic Perforator Surgery (SEPS) results in rapid healing of Venous Stasis Difficult To Heal Venous Stasis Ulcers" Thomas E. Serena MD C. Corbran COWCN. Presented at the Wound Healing Society meeting in May 2001. Published in *Wound Repair and Regeneration* Volume 9, Number 2. pp 162. March-April 2001.
16. A Comparison of Becaplermin Gel and Myocutaneous Flap Closure in the Treatment of Two Separate Ischial Pressure Ulcers in the Same Patient" Thomas E. Serena MD, Carrie Corbran COWCN. Presented at the Wound Healing Society Meeting in May 2001. Published in *Wound Repair and Regeneration* Volume 9, Number 2. pp 162. March-April 2001.
17. Yersinia Enterocolitis presenting As Acute Appendicitis in a Three Year Old Amish Boy in Rural Northwest Pennsylvania. Michele Kauffman PA-C, Sarah Blazek PA-S, Cheri Zinger LPN, David McConnell, MD, Gary L. McAfoos MD, Thomas E. Serena MD.
Presented at the Pennsylvania Physician Assistant Annual Meeting. Philadelphia

- 2001.
18. The Use of Bioengineered Skin (Apligraf) To Treat a Complex Wound Created By Ecthyma Gangrenosum and the Persistence of Bioengineered Skin 10 Months after Application. Thomas E. Serena, Kristin Collins, C. Isaacs, J Hardin-Young, P. Bialas, C Corbran. Podium presentation at the Wound Healing Society. Baltimore, MD. May 2002.
Published in *Wound Repair and Regeneration* Volume 10, Number 2. pp 162. March-April 2002.
 19. Incorporation of Bioengineered Skin (Apligraf) Into a Diabetic Foot Ulcer Treatment Protocol. TE Serena, S. Kostintinova, M Kauffman, C. Corbran, C. Serena, C. Zinger. Poster presentation at the Wound Healing Society meeting 2002. Baltimore, MD.
Published in *Wound Repair and Regeneration* Volume 10, Number 2. pp 162. March-April 2002.
 20. The Use of Apligraf in the Healing of a Fasciotomy Site. Thomas E. Serena MD FACS. Oral presentation at the Focus group meeting of the European Tissue Repair Society, Nice, France. September 2002.
 21. The Combination of Becaplermin (PDGF-BB) and The Oxidized Regenerated Cellulose (ORC)-Collagen Matrix Wound Dressing (Promogran) Results in Healing of a Dehisced Sternal Wound. TE Serena MD. Presented The European Tissue Repair Society Meeting Amsterdam September 2003.
Published in *Wound Repair and Regeneration* Volume 11, Number 5. pp A19. September-October 2003.
 22. The Use of Topical Growth Factors (Becaplermin, PDGF-BB) as an Adjunct to Incision and Curettage in the Treatment of Pilonidal Cysts. Thomas E. Serena MD FACS, Colleen Sterner PA-S. Poster Presentation 18th Clinical Symposium of Advances in Skin and Wound Care. Chicago. October 2003.
 23. Wound Healing Morphology in an Acute Wound Healing Study T. Serena, on behalf of the Wound Healing Cooperative Group. Poster Wound Healing Society. May 2004. Atlanta, Georgia. Published in *Wound Repair and Regeneration*. Vol. 12; No. 2 March-April 2004.
 24. The Human Forearm Biopsy Model for Acute Wound Healing T. Serena, V. W. Li, W. W. Li, on behalf of the Wound Healing Cooperative Group. Podium presentation Wound Healing Society. May 2004. Atlanta, Georgia.
Abstract published in *Wound Repair and Regeneration*. Vol. 12; No. 2 March-April 2004.
 25. The Importance of Arm Dominance in Acute Wound Healing T. Serena, on behalf of the Wound Healing Cooperative Group. Poster presentation Wound Healing Society. May 2004. Atlanta, Georgia. P

Published in *Wound Repair and Regeneration*. Vol. 12; No. 2 March-April 2004.

26. The Upregulation Of Wound Healing Related Genes In Venous Ulcerations Treated With Apligraf, a Possible Mechanism of Action T.E. Serena, C. Finley. Poster presentation Wound Healing Society. May 2004. Atlanta, Georgia.
Published in *Wound Repair and Regeneration*. Vol. 12; No. 2 March-April 2004.
27. The Use of Cilostazol in the Treatment of Raynaud's Disease with Digital Ischemia and Tissue Loss. T. Serena, J. Probst. Podium presentation Wound Healing Society May 2004. Atlanta, Georgia.
Published in *Wound Repair and Regeneration*. Vol. 12; No. 2 March-April 2004.
28. Studies of growth factor therapy for acute wound healing in the human forearm biopsy model. Thomas E. Serena MD, FACS and Vincent W. Li MD, on behalf of the Wound Healing Cooperative Group (WHCG), and Kevin Briceland PA-S Kate Eckert PA-S Sheila Payne PA-S. William W. Li MD. presentation to the SAWC meeting. Orlando May 2004.
Published in *WOUNDS*. Vol.16, No.4. April 2004.
29. An increased incidence of depression in patients with venous leg ulcerations: subgroup analysis from a recent multi-center clinical trial. Sartaj Ahmed MS-IV Mark Beuger MD, Thomas E. Serena MD, FACS, Tamara Orr, PA-S, Presented at the SAWC meeting Orlando, May 2004.
Published in *WOUNDS*. Vol.16, No.4. April 2004.
Winner Young Investigator's award
30. The incidence of biopsy-proven infection in patients with venous leg ulcerations; subgroup analysis from a large multi-center clinical trial. Thomas E. Serena MD FACS Diane Cooper PhD Jason Ignatius. Presentation 2nd World Union of Wound Healing Societies. Paris, France. July 2004.
31. A New Electronic Wound Measurement Device in Clinical Practice: Is it Practical? Thomas E. Serena MD FACS *, David Serena, Nissar Ahmed, Jamie Peterson. Poster presentation
Symposium on Advances in Skin and Wound Care. Phoenix, AZ. September, 2004.
32. Dynamics Of Acute Wound Healing Following Topical rhPDGF-BB Therapy. V. Li on behalf of the Wound Healing Cooperative Group V Driver, W Ennis, R Kirsner, V Li, W Li, T Serena. Wound Healing Cooperative Group, The Angiogenesis Foundation, Cambridge, MA USA.
Presented at the American Academy of Dermatology, 2005.
33. Recombinant Human Lactoferrin (rhLF) ay Promote Healing of Diabetic Neuropathic Ulcers. Ernest W. Yankee, Michael Miller, Thomas Serena, Peter Sheehan, et.al. Presented at the American Diabetic Association meeting 2005.

34. The Use of Apligraf in the Reconstruction of a Complex Abdominal Wound in a Patient with Hepatic Failure. Thomas E. Serena MD FACS, Sartaj Ahmed MS-4, Michele Kaufman PA-C, JD. Presented at the Symposium on Advanced Wound Care, San Diego, and CA. April 2005.
Published in *WOUNDS* vol. 17: 4 April 2005.
35. Does the Long-Term Use of a Silver Gel Result In Silver-Resistant Organisms in Clinical Practice? Thomas E. Serena MD FACS, Cynthia E. Serena SC, Cris Beuger MPH. Presented at the Symposium on Advanced Wound Care, San Diego, and CA. April 2005.
Published in *WOUNDS* vol. 17: 4 April 2005.
36. Studies of a Novel Wound Healing Agent, Bismuth Subgallate/Borneol (SSWD), for Acute Wound Healing in the Human Forearm Biopsy Model. Thomas E. Serena MD, FACS^{§*}, Carrie Knox PA-C^{*}, Kristen Shay PA-S^{*}, Mike Wilt PA-S^{*}, Melissa Brown PA-S^{*}, Tami Hyziewicz PA-S^{*}, Laura K.S Parnell,[¶] Vincent Li, MD MBA,¹ Michael Miller DO [£].[§]Penn North Centers for Advanced Wound Care/NewBridge Medical Research, ^{*} Gannon University, Erie, Pennsylvania, [¶]Parnell Precision Consulting, Missouri City, [£] Wound Healing Center, Terre Haute, IN, ¹Brigham and Women's Hospital and the Angiogenesis Foundation. Presented at the Symposium on Advanced Wound Care, San Diego, and CA. April 2005.
Abstract Published in *WOUNDS* vol. 17: 4 April 2005.
37. The Combination of PDGF-BB and ORC/Collagen heals a Complex Lower Extremity Stingray Injury .Thomas E. Serena MD FACS, Michele Kaufman PA-C, JD Rose Konsel CWOCN. Presented at the Symposium on Advanced Wound Care, San Diego, CA. April 2005.
Abstract published in *WOUNDS* vol. 17: 4 April 2005.
38. A New Silver Alginate with Greater Contribution to Wound Bed Preparation. Thomas E. Serena MD FACS[†], Dorothy M Weir, RN. Presented at the Symposium on Advanced Wound Care, San Diego, CA. April 2005.
Abstract published in *WOUNDS* vol. 17: 4 April 2005.
39. Apligraf Reduces Pain Associated With Venous Leg Ulcerations: Data From an Ongoing Randomized, Open Label, Multi-Center Study Sartaj Ahmed MS-4[§] Thomas E. Serena MD, FACS^{§*}, Cris Beuger MPH[§], Cynthia E. Serena SC[§], Vincent Li, MD MBA,¹ Michael Miller DO [£], Michele Kauffman PA-C, JD. Presented at the Symposium on Advanced Wound Care, San Diego, CA. April 2005.
Abstract published in *WOUNDS* vol. 17: 4 April 2005.
40. The Use of an Electronic Measuring Device to Measure Wound Area in Clinical

- Trials. Cris Beuger MPH, Sartaj Ahmed MS-4 Thomas E. Serena MD FACS. Presented at the Symposium on Advanced Wound Care, San Diego, CA. April 2005.
Abstract published in *WOUNDS* vol. 17: 4 April 2005.
41. A Novel Fetal Bovine Dermal Matrix Scaffold is Rapidly Incorporated into Animal and Human Wounds Resulting in Wound Bed Stimulation. Presented at the Symposium on Advanced Wound Care, San Diego, CA. April 2005.
Abstract published in *WOUNDS* vol. 17: 4 April 2005.
42. Interval Analyses of a Randomized Open Label Multi-center Study Comparing Apligraf vs. Standard Multilayer Compression in the Reduction of Pain Associated with Venous Leg Ulcerations. T. Serena*and V.W. Li § on behalf of the Wound Healing Cooperative Group. Presented as a poster at the Wound Healing Society Meeting. Chicago, IL. May 2005
Abstract published in *Wound Rep and Regen* Vol. 13: no. 2. Mach-April 2005.
43. The Treatment of Venous Leg Ulcerations with a Novel Fetal Bovine Dermal Collagen matrix with a Comparison to Pre-clinical Animal Studies. T. Serena D. Steed Presented as a poster at the Wound Healing Society Meeting. Chicago, IL. May 2005
Abstract published in *Wound Rep and Regen* Vol. 13: no. 2. Mach-April 2005.
44. Apligraf Heals a Recalcitrant Pressure Ulcer of 28 years Duration. T. Serena, F. York, V. Hindman. Presented as a poster at the Wound Healing Society Meeting. Chicago, IL. May 2005
Abstract published in *Wound Rep and Regen* Vol. 13: no. 2. Mach-April 2005.
45. Bismuth Subgallate/Borneol (Suile) vs. Bacitracin in The Human Forearm Biopsy Model for Acute Wound Healing. T.Serena, V.W. Li 2 on behalf of the Wound Healing Cooperative Group; L.K.S. Parnell, M. Miller, K.Shay, M.Brown, M.Wilt. Presented as a poster at the Wound Healing Society Meeting. Chicago, IL. May 2005
Abstract published in *Wound Rep and Regen* Vol. 13: no. 2. Mach-April 2005.
46. A Randomized Clinical Trial to Evaluate the Ease of Donning and Removal of Silver-Coated Elastic Compression Stockings Compared to Standard Stockings. Poster presentation European Tissue Repair Society Meeting. Stuttgart, Germany. September 2005.
47. The Use of Bi-layered Cell Therapy in the Treatment of a Hand Mitten Deformity in Recessive Scarring Epidermolysis Bullosa T. Serena. Presented at 2006 Symposium of Advanced Wound Care, San Antonio TX. April 2006.
48. The use of clothing containing silver fibers in the treatment of patients with

Epidermolysis Bullosa. T. Serena, L. Navarolli. Presented at 2006 Symposium of Advanced Wound Care, San Antonio TX. April 2006.

49. The Use of Topical PDGF-BB for the Treatment of a Complex Scrotal Wound, T. Serena
Presented at 2006 Symposium of Advanced Wound Care, San Antonio TX. April 2006
50. The Use of Ultrasonic Therapy in a Painful Burn Wound. T. Serena, J. Lasko, M. Shannon.
Presented at 2006 Symposium of Advanced Wound Care, San Antonio TX. April 2006.
51. Gene Chip Analysis of Venous Leg Ulcerations before and After Treatment with Bi-Layered Cell Therapy. Wound Healing Society Lunch Symposium. May 2006.
52. Evaluation of the Clinical Effectiveness of a Collagen-ORC Antimicrobial Matrix in Venous Leg Ulcerations J.R. Hanft, T. Serena, R. Snyder Podium presentation. European Tissue Repair Society annual scientific meeting. Pisa, Italy. September 14, 2006.
53. The Use of a Silver Calcium Alginate in the Treatment of Burns. Podium presentation. North American Burn Society meeting. Vail, CO. January. 2007
54. Bismuth Subgallate/Borneal (suile) vs. Acticoat 3 in the Human Forearm Biopsy Model for Acute Wound Healing. Serena TE, Parnell, L, et. al. Podium presentation Wound Healing Society annual meeting. Tampa, FL. April 30, 2007. Abstract published in *Wound Repair and Regeneration*.
55. Maxorb Ag a Novel Treatment for Pediatric Burns. Serena TE., Zinger, C., Kauffman M., Poster presentation. Symposium for Advanced Wound Care. Tampa, FL. April 2007.
56. A New Silver Alginate with Greater Contribution to Wound Bed Preparation. Serena TE., Zinger, C., Kauffman M., Poster presentation. Symposium of Advanced Wound Care. Tampa, FL. April 2007.
57. Wound Related Pain: The patient experience. Serena, TE, Podium presentation. Symposium on Advanced Wound Care annual meeting. San Diego, CA. April, 2008.
58. The Successful Use of a Novel Antimicrobial Silver Fabric Dressing in Combination with Negative Pressure Wound Therapy in the Treatment of Stage III and IV Pressure Ulcers. Serena TE, Poster presentation. Symposium on Advanced Wound Care annual meeting. San Diego, CA. April, 2008.

59. Is the Incidence of Skin Cancer in Venous Leg Ulcerations Overestimated?: Subgroup Analysis from Two Multi-Center Clinical Trials. Serena TE et. al. Poster presentation. Symposium on Advanced Wound Care annual meeting. San Diego, CA. April, 2008.
60. Bismuth Subgallate/Borneol (Suile) Results in Less Scarring than A Topical Antimicrobial: Follow up analysis of a randomized clinical trial. Serena TE. et. al. Poster presentation. Symposium on Advanced Wound Care annual meeting. San Diego, CA. April, 2008.
61. Bismuth Subgallate/Borneol (Suile) is well tolerated in the Treatment of Diabetic Foot Ulcerations. Serena TE. et. al. Poster presentation. Symposium on Advanced Wound Care annual meeting. San Diego, CA. April, 2008.
62. The Efficacy of Bismuth Subgallate/Borneol (Suile) in the Treatment of Partial Thickness Wounds in the Skilled Nursing Setting. Serena TE. et. al. Poster presentation. Symposium on Advanced Wound Care annual meeting. San Diego, CA. April, 2008.
63. Clinical Assessment is Inaccurate and Unreliable in Making the Diagnosis of Infection in Chronic Wounds: Analysis of Two Randomized Clinical Trials. . Serena TE. et. al. Poster presentation. Symposium on Advanced Wound Care annual meeting. San Diego, CA. April, 2008.
64. Cryopreserved Bi-Layered Cellular Matrix (Orcel) is Superior to Standard of Care in the Treatment of Venous Ulcers: Results of a Prospective, Randomized, Controlled, Multi-Center Clinical Trial. Serena TE on behalf of the Orcel Study Group. Podium presentation. Wound Healing Society annual meeting. San Diego, CA. April 2008.
Abstract publication: Cryopreserved Bi-Layered Cellular Matrix (Orcel) is Superior to Standard of Care in the Treatment of Venous Ulcers: Results of a Prospective, Randomized, Controlled, Multi-Center Clinical Trial. Serena TE on behalf of the Orcel Study Group. Serena TE. on behalf of the Orcel Study Group. *Wound Repair and Regeneration* 16 (2), A22.
65. Bismuth Subgallate/Borneol (Suile) Results in less Scarring than a Topical Antimicrobial in the Human Forearm Biopsy Trial for Acute Wound Healing. Thomas E. Serena MD, Michelle Kauffman PA-C JD. Poster presentation and Podium Presentation., 2nd Scar Meeting. Montpieller France. September 25, 2008.
66. Clinical Research. A Requirement for a Wound Care Center of Excellence. Thomas E. Serena. Abstract. Symposium on Advances in Wound Care. Orlando, FL. April 17-20, 2010.
67. Bi-layered Living Cell-based Treatment for Pressure Ulcers: Results of a

- Prospective, Randomized Multicenter Open-Label Clinical Trial. Thomas Serena, Randall Wolcott, Michelle DiSalvo, David Hurley. Abstract. Symposium on Advances in Wound Care. Orlando, FL. April 17-20, 2010.
68. The Development of a Cooperative Study Group to Evaluate Multi-Modality Therapies in Wound Healing. Thomas E. Serena. Abstract. Symposium on Advances in Wound Care. Orlando, FL. April 17-20, 2010.
69. The Human Forearm Biopsy Model for Acute Wound Healing: The Missing Link? Thomas E. Serena. Abstract. Symposium on Advances in Wound Care. Orlando, FL. April 17-20, 2010.
70. Factors which Determine the Ease of Donning and Removing Elastic Compression Stockings: Results of a Clinical Trial. Thomas E. Serena et. al. Abstract. Symposium on Advances in Wound Care. Orlando, FL. April 17-20, 2010.
71. Topical Oxygen delivered via a closed cell foam matrix in patients with peripheral arterial disease and critical limb ischemia: a case series. Thomas E. Serena. Abstract. Symposium on Advances in Wound Care. Orlando, FL. April 17-20, 2010.
72. The use of a Robotic system to create dressings. Thomas E. Serena. Diane Cooper et. al. Abstract. Symposium on Advances in Wound Care. Orlando, FL. April 17-20, 2010.
73. Quality of Life in a Venous Leg Ulcer Study. Matthew Brennen, Thomas Serena. Abstract. Symposium on Advances in Wound Care. Orlando, FL. April 17-20, 2010.
74. Pain reduction and exudate control in venous leg ulcerations using a non-adherent silver alginate dressing: A case series. Thomas E. Serena et. al. Abstract. Symposium on Advances in Wound Care. Orlando, FL. April 17-20, 2010.
75. Topical Bismuth Subgallate/Borneal (Suile™) successfully resolves recalcitrant atopic dermatitis in a two year old. Thomas E. Serena et. al. Abstract. Symposium on Advances in Wound Care. Orlando, FL. April 17-20, 2010.
76. Abnormal Connexin 43 Expression in Chronic Wounds. Kuen Y. Chin, Jessica E.S. Sutcliffe, Thomas Serena, Shay O'Neil, Rebecca Hu, Alexis White, Anthony RJ Phillips and David L. Becker. Presented at the Wound Healing Society Meeting April 2011.
Abstract published in *Wound Repair and Regeneration*. Volume 19. Issue 2. P. A
77. Acceleration of Venous Leg Ulcer Healing using a Topical Connexin 43 Antisense

Compound-Phase 2 Clinical Trial Results. T. Serena, S. Bannan, J. Data, M. Twomey, A. Phillips, T. Johns E. Schmidt, D. Eisenbud. Presented at the Wound Healing Society Meeting April 2011.

Abstract published in *Wound Repair and Regeneration*. Volume 19. Issue 2. P. A. 50.

78. Consensus Principles for Wound Care Research Obtained Using a Delphi Process. Thomas Serena MD, Barbara Bates-Jensen, PhD, Marissa J. Carter PhD MA, Renee Cordrey PT MPH, Vickie Driver MS DPM, Caroline E. Fife MD, Paul B. Haser MD, Diane Krasner PhD, Marcia Nusgart RPh, Adrienne PS Smith MD, Robert J. Snyder DPM.

For the Alliance of Wound Care Stakeholder's Panel on Wound Care Evidence-Based Research (POWER™). Abstract presented at the following meetings,

- The National Pressure Ulcer Advisory Panel (NPUAP) annual meeting. Las Vegas. February, 2010.
- The 17th annual ICHM Conference. March, 2011.
- The George Washington University medical Center Research Day. Washington DC. 3/23.
- DFCON. Las Angeles, CA. March, 2011.
- American Professional Wound Care Association annual mtg. Phi., PA. April, 2011.
- Symposium for Advanced Wound Care. Dallas, TX. April 2011

79. EPA Protease Activity Levels Associated with Healing Status of Chronic Wounds. T. Serena, B. Cullen, S. Bayliff, M. Gibson, D. DeMarco, J. Galbraith, N. Le, M. Mancinelli, M. Sabo, J. Samies. Poster presented Wounds UK. Harrogate UK. November 2011.

80. Add second Wounds UK poster.

PUBLICATIONS (PEER REVIEWED FULL MANUSCRIPTS)

81. Serena, T.E., Gifford, RRRM, Neumyer, MM, Thiele, BL., Yang, H.O.: "Identification of an Intimal Flap with Image-Directed Doppler Ultrasonography following Renal transplantation: *J. Clin Ultrasound* 19:105-110, Feb. 1991.
82. Large, Recurrent Venous Leg Ulcers. A case Study. Thomas E. Serena MD A teaching monograph published by Novartis Pharmaceuticals.
83. The Use of Platelet-Derived Growth Factor-BB (Becaplermin) in the treatment of Fingertip Injuries increases the rate of healing and shortens time lost from work." In conjunction with Bruce Freedman MD. Submitted for publication to Plastic and Reconstructive Surgery.
84. Serena TE. Effect of Extensive Debridement and Treatment on the Healing

Diabetic Foot Ulcers. Foot and Ankle Quarterly Volume 16, Number 2. pp 72-74. Summer 2004.

85. Serena TE. Bacteria, Infection and Topical Antimicrobials in Chronic Wounds. Podiatry Management July 2004.
86. Healing of Chronic Venous Ulcers Is Not Enhanced by the Addition of Topical Repifermin (KGF-2) to Standardized Care. Martin C. Robson, MD, Jason Hanft, DPM, Warren Garner, MD, Jeffrey Jenson, DPM, Thomas Serena, MD, Wyatt G. Payne, MD, Anthony Sussman, MD, Adrian Barbul, MD, Markete Limova, MD, Robert Snyder, DPM, Daniel J. Odenheimer, PhD, Diane M. Cooper, PhD, KGF-2 Venous Ulcer Study Group. Journal of Applied Research Volume 4, Number 2. pp 302-312.
87. Dynamics of Acute Wound Healing Following Topical PDGF-BB Therapy. Vincent Li, Jeffery Ma, Yeuh Jo Ko, Thomas Serena et. al. *J Am Acad Derm.* Vol. 53. Number 3. Jan 2005.
88. Recombinant Human Lactoferrin (rhLF) ay Promote Healing of Diabetic Neuropathic Ulcers. Ernest W. Yankee, Michael Miller, Thomas Serena, Peter Sheehan, et.al. Archives of Surgery Vol.
89. Bismuth Subgallate/Borneol (Suile) Is Superior to Bacitracin in the Human Forearm Biopsy Model for Acute Wound Healing. Thomas Serena , Laura Parnell , Carrie Knox , Julia Vargo , Amanda Oliver , Sarah Merry , Andrew Klugh , Nicole Bubar , Neil Anderson , Lynn Rieman , Wade Walnoha , Holly Smith , Samantha Rice Adv Skin Wound Care. 2007 Sep; 20 (9):485-492 17762217
90. Serena, Thomas MD, FACS; Parnell, Laura K.S. MS, CWS; Knox, Carrie PA-C; Vargo, Julia PA-S; Oliver, Amanda PA-S; Merry, Sarah PA-S; Klugh, Andrew PA-S; Bubar, Nicole PA-S; Anderson, Neil PA-S; Rieman, Lynn PA-S; Walnoha, Wade PA-S; Smith, Holly PA-S; Rice, Samantha PA-S. Bismuth Subgallate/Borneol (Suile) Is Superior to Bacitracin in the Human Forearm Biopsy Model for Acute Wound Healing. *Advances in Skin & Wound Care.* 20(9):485-492, September 2007.
91. A New Technology to Address the Ever-Changing Wound Microenvironment. T. Serena MD FACS. *WOUNDS.* August 2005.
92. Negative Pressure Wound Therapy: An option for hard-to-heal Wounds. Michael Miller, Marta Ortegon, Cheryl McDaniel and Thomas Serena. *Nursing Homes: Long Term Care management.* Vol. 55, No.1. January 2006.
93. A Prospective, Randomized, Controlled Trial of Autologous Platelet-Rich Plasma Gel for the Treatment of Diabetic Foot Ulcers Vickie R. Driver, DPM, MS,

FACFAS; Jason Hanft, DPM, FACFAS; Carelyn P. Fylling, RN, MSN; Judy M. Beriou, RN, Margaret Doucette, DO ; Michael Dellacorte, DPM; Robert Fryk berg, DPM; Gabriel Halperin , DPM; Robert Kirsner, MD;Mi ch ael Mi ll er,DONeal Mozen, DPM; Jeffrey Page , DPM; Alexander Rey zelman, DPM; Thomas Roukis , DPM; Roger Schechter, MD; Thomas Serena , MD; Jinsup Song, DPM; and Robert Snyder, DPM. *Ostomy/Wound Management* 2006;52 (6):68–87.

94. Lack of Reliability of Clinical/Visual Assessment of Chronic Wound Infection: The Incidence of Biopsy-Proven Infection in Venous Leg Ulcers. Serena TE, Robson MC, Cooper DM, Ignatius J. *WOUNDS* 2006; 18(7): 197-202.
95. Hidden Healing: Restoring the Wound micro Environment. CME Publication. Distributed in *WOUNDS* 2006.
96. Guidelines for the treatment of diabetic ulcers. David L. Steed MD, Christopher Attinger MD, Theodore Colaizzi CPed, COF, Mary Crossland RN, Michael Franz MD, Lawrence Harkless DPM, Andrew Johnson BS, Hans Moosa MD, Martin Robson MD, Thomas Serena MD, Peter Sheehan MD, Aristidis Veves MD, Laurel Wiersma-Bryant RN, BC, ANP. (2006) *Wound Repair and Regeneration* 14 (6), 680–692.
97. Guidelines for the treatment of venous ulcers. Martin C. Robson MD, Diane M. Cooper PhD, RN, Rummana Aslam MD, Lisa J. Gould MD, PhD, Keith G. Harding MBChB, MRCP, FRCS, David J. Margolis MD, MSCE, PhD, Diane E. Ochs RN, Thomas E. Serena MD, Robert J. Snyder DPM, David L. Steed MD, David R. Thomas MD, Laurel Wiersma-Bryant RN, BC, ANP (2006)*Wound Repair and Regeneration* 14 (6), 649–662.
98. Addressing the Pain. Thomas Serena MDFACS, Becky Fry CWOCN OWM December 2006.
99. Talactoferrin alfa, a recombinant human lactoferrin promotes healing of diabetic neuropathic ulcers: a phase 1/2 clinical study. Thomas E Lyons , Michael S Miller , Thomas Serena , Peter Sheehan , Lawrence Lavery , Robert S Kirsner , David G Armstrong , Amber Reese , Ernest W Yankee , Aristidis Veves *Am J Surg.* 2007 Jan ;193 (1):49-54 17188087.
100. Wound Closure and Gradual Involution of an Infantile Hemangioma Using a Noncontact, Low-frequency Ultrasound Therapy. Serena, TE. *Ostomy and Wound Management* 2008; 54 (2):68-71.
101. The Lack of Reliability of Clinical Examination in the Diagnosis of Wound Infection: Analysis of a Venous Leg Ulcer Clinical Trial. Serena TE, Hanft J.,Synder R., *International Journal of Lower Extremity WOUNDS* 2008 Mar;7

(1):32-5.

102. Guidelines for the prevention of diabetic ulcers. David L. Steed, MD; Christopher Attinger, MD; Harold Brem, MD; Theodore Colaizzi, CPed, COF; Mary Crossland, RN; Michael Franz, MD; Lawrence Harkless, DPM; Andrew Johnson, BS; Hans Moosa, MD; Martin Robson, MD; Thomas Serena, MD; Peter Sheehan, MD; Aristidis Veves, MD; Laurel Wiersma-Bryant, RN, BC, ANP. *Wound Repair and Regeneration*, Volume 16, Issue 2, Page 169-174, Mar 2008.
103. Guidelines for the prevention of venous ulcers. Martin C. Robson, MD; Diane M. Cooper, PhD, RN; Rummana Aslam, MD; Lisa J. Gould, MD, PhD; Keith G. Harding, MBChB, MRCP, FRCS; David J. Margolis, MD, MSCE, PhD; Diane E. Ochs, RN; Thomas E. Serena, MD; Robert J. Snyder, DPM; David L. Steed, MD; David R. Thomas, MD; Laurel Wiersema-Bryant, RN, BC, ANP. *Wound Repair and Regeneration*, Volume 16, Issue 2, Page 147-150, Mar 2008.
104. The Impact of Noncontact, Non-thermal, Low-Frequency Ultrasound on Bacterial Counts in Experimental and Chronic Wounds. Thomas Serena MD FACS; S. Kwon Lee MS FACS et. al. *Ostomy Wound Management* 209;55(1):22-30.
105. The Sound of Healing. Jeff Lasko MPT, Joe Kochik PTA, Thomas Serena MD. *ADVANCE for Physical Therapists & PT Assistants* July 13, 2009 edition, Volume 20 Issue .
106. Persistence of Bi-Layered Living Cell Therapy 10 Months after Application: A Case Report. TE Serena, P Bialas. *Ostomy Wound Management*. 2009;55 (10) pp.
107. Combining Acoustic Pressure Wound Therapy With Electrical Stimulation for Treatment of Chronic Lower-Extremity Ulcers: A Case Series Lasko, Jeffrey; Kochik, Joe; Serena, Thomas. *Advances in Skin & Wound Care*. 23 (10):446-449, October 2010.
108. An international consensus document on acellular matrix products in the treatment of hard-to-heal wounds such as diabetic foot ulcers, venous leg ulcers and pressure ulcers. Keith Harding, Robert Kirsner, Daniel Lee, Gerit Mulder, Thomas Serena. London. *Wounds International*. 2010.
109. The role of proteases in wound diagnostics. International Consensus document. *Wounds International*. Cape Town, SA. Feb. 2011.
110. Analysis of run-in and treatment data in a wound outcomes registry: clinical impact of topical platelet-rich plasma gel on healing trajectory. Carter MJ, Fylling CP, Li WW, de Leon J, Driver VR, Serena TE, Wilson J. *Int Wound J* 2011; 8:638–650.

111. Using a Diagnostic Tool to Identify Elevated Protease Activity Levels in Chronic and Stalled Wounds: A Consensus Panel Discussion. Robert J. Snyder, DPM, CWS; Vickie Driver, MS, DPM; Caroline E. Fife, MD; John Lantis, MD, FACS; Benjamin Peirce, BA, RN, CWOCN; Thomas Serena, MD; and Dot Weir, RN, CWOCN, CWS. *Ostomy Wound Management* 2011;57(12):36–46.
112. Targeting Cx43 and N-cadherin, Which are Abnormally Upregulated in Venous Leg Ulcers, Influences Migration, Adhesion and Activation of Rho GTPases. Ariadna Mendoza-Naranjo; Peter Cormie; Antonio E Serrano; Rebecca Hu; Shay O'Neill; Chiuhui Mary Wang; Christopher Thrasivoulou; Kieran T Power; Alexis White; Thomas Serena; Anthony RJ Phillips; David L Becker. Pending *J. of Pathology*

PUBLICATIONS (NON-PEER REVIEWED MANUSCRIPTS)

113. Josephine,” WILD ONIONS: 4:38-39, 1990
(Wild Onions is an annual Literature-In-Medicine publication).
114. “The Scoop on the Scope,” Seniors Today, February 1998.
115. Ongoing Debridement Using an Interactive Debriding Agent. Elizabeth O’Connell-Gifford RN,CWOCN, Thomas E. Serena MD FACS. Synergy Vol. 1. Issue 3. pp.8. Spring-Summer 2004.
116. Planned Serial Debridement. Thomas E. Serena MD FACS. Synergy Vol. 1. Issue 3. pp. 11. Spring-Summer 2004.
117. Featured Article “Becaplermin Beat Bacitracin In Wound Healing Study” Kerri Wachter. Dermatologic Therapy. A review of my research with becaplermin and acute wound healing.
118. A Case for Empiric Therapy for Chronic Wound Infection. Thomas e. Serena MD
Closure: The Newsletter for Wound Care Clinic Practitioners. June 2006 issue.
119. Sorting Through the Choice Of A Management Company. T. Serena.
Today’s Wound Clinic. January 2011.
120. The Evolution of Wound Healing Business. T. Serena. *Today’s Wound Clinic*. March 2011.
121. Developing A Policy Based On Your Needs. T Serena. *Today’s Wound Clinic*. April 2011.

122. The Iron Woundologist. T. Serena. *Today's Wound Clinic*. P. 28-29. May 2011.
123. The Art of Volunteering: Finding Satisfaction in your Work. *Today's Wound Clinic*. P20-21. June 2011.
124. No man is an island-without his iPhone. *Today's Wound Clinic*. July/August 2011.
125. Quality Measures for wound healing. *Today's Wound Clinic*. Sept. 2011.
126. Measure for (Quality) Measure. *Today's Wound Clinic*. October 2011.
127. Let's not forget the Human Side to the iPatient. *Today's Wound Clinic*. Nov/Dec 2011.

ON-LINE COURSES

Wound Care Boot Camp (Web CME)	2010
The Development of Diagnostics in Wound Care: Proteases and Chronic Wound Healing; Moving Beyond Clinical Inertia	2011

EDITORIAL BOARDS

International co-editor Chinese Journal of Burn and Wound Care.	2006	
Editor, European Journal of Wound And Burn Management	2010	-
present		
Editor, Wound Source	2010	-
present		
Wound Healing Society (WHS) yearbook series	2011	-
present		

INVITED EDITOR

Archives of Dermatology
 International Journal of Wounds
 Wound Repair and Regeneration
 Wound Healing Society (WHS) yearbook series

CLINICAL TRIAL EXPERIENCE:

Clinical Trial Education

- Certificate of Training for Medical Research July 2003 (WIRB)
- NIH certification on-line 2004, 2010.
- Certificate in Site Operations and SOPs August 2005 (WIRB)
- University of Pittsburgh Medical Center. Certification in Good Clinical Practices
- IBC Approval for biosafety level 2 trials. 2008
- Sanofi-Aventis GCP Training 2008.

Clinical Trials

1. Principle Investigator, CLOSURE Trial

A Randomized Double-Blinded Parallel-Group Placebo-Controlled, Multicenter Study To Evaluate The Efficacy And Safety Of Repifermin (KGF-2) In Subjects With Venous Stasis Ulcers. Closed November 2002. Third highest enrollment in United States.

2. Principle Investigator, VER001-5 Trial

Phase II Pilot, Randomized, Open Label, Multi-center Study to Evaluate the Safety and Efficacy of Dalbavancin (V-Glycopeptide) Versus Investigator/Physician Designated Comparator in Skin and Soft Tissue Infection. Closed May 2002. Highest enrollment in United States.

3. Principle Investigator' Phase III Study of Tamoxifen versus Toremifene as Adjuvant Therapy for Women with Carcinoma of the Breast. Completed and closed May 2002.

4. Principle Investigator. US-09.

The Mechanistic Action of Apligraf vs. Compression in the Treatment of Venous Leg Ulcerations. Closed in September 2002.

5. Principle Investigator, VER001-8 Phase III Trial

Phase III, Randomized, Double-Blind, Multi-Center Study to Evaluate the Safety and Efficacy of Dalbavancin versus Cephazolin in the Treatment of Uncomplicated Skin and Soft Tissue Infections with Suspected or Confirmed Gram-Positive Bacterial Pathogens Completed and Closed.

6. Principle Investigator, VER001-9 Phase III Trial

Phase III, Randomized, Double-Blind, Multi-Center Study to Evaluate the Safety and Efficacy of Dalbavancin Versus Linezolid in the Treatment of Complicated Skin and Soft Tissue Infections with Suspected or Confirmed Gram-Positive Bacterial Pathogens. Completed and Closed.

7. Lead Investigator and Protocol Author, Wound Healing Cooperative Group Protocol 03001

A Randomized Open Label Multi-center Study to Evaluate the Safety and Efficacy of Combination therapy with Becaplermin (PDGF-BB) and Oxidized Reduced Cellulose (ORC) versus Standard Multilayer Compression in the Treatment of Venous Leg

Ulcerations. Closed.

8. Lead Investigator and Protocol Author, the Wound Healing Cooperative Group 03002 A Randomized, Investigator-Blind, Pilot Study to Evaluate the Efficacy of Topical Bacitracin and Becaplermin at Different Dosing Frequencies in Acute Wound Healing in Normal Healthy Volunteers. Completed and closed.

9. Principle Investigator.

Treatment of Diabetic Foot Ulcers with a Protease Inhibitor, Doxycycline. University of Florida. Closed.

10. Principle Investigator

Phase 2 Study of Safety and Efficacy of Topical Administration of Recombinant Human Lactoferrin to Patients with Lower Extremity Diabetic Neuropathic Ulcers. Completed and Closed.

11. Protocol Author and Lead Investigator.

The Determination of Persistence of Apligraf in Chronic Wounds using Polymerase Chain Reaction Technology. Completed and Closed.

12. Protocol Author and Lead Investigator.

A Randomized, Open Label, Multi-center Study to Evaluate Apligraf versus Standard Multilayer Compression in the Reduction of Pain Associated with Venous Leg Ulcerations. Completed and Closed.

13. Protocol Author and Lead Investigator

A Randomized, Investigator-Blind, Pilot Study to Evaluate the Efficacy of Topical Sulbogin / SUILE (Ointment) vs. Bacitracin in Acute Wound Healing in Normal Healthy Volunteers. Completed and Closed.

14. Protocol Author and Lead Investigator

Sulbogin/ SUILE (Ointment) Wound Dressing in the Treatment of Wagner Grade II Diabetic Foot Ulcerations. Completed and Closed.

15. Principle Investigator

A Randomized, Blinded Assessor, Placebo Controlled Study of NVC-101 in the Treatment of Chronic Non-Healing Venous Stasis Ulcers. Completed and Closed.

16. Protocol Author and Principle Investigator

A Randomized, Investigator-Blind, Study to Evaluate the Safety and Efficacy of Topical Sulbogin / SUILE (Ointment) vs. Acticoat in Acute Wound Healing in Normal Healthy Volunteers. Completed and closed 2005.

17. Principle Investigator

A prospective Randomized, Controlled Pivotal Study of Apligraf for the Treatment of Pressure Ulcers. Completed and closed 2006.

18 Principle Investigator

A Study to Evaluate the Clinical Effectiveness of a Collagen ORC Antimicrobial Matrix (CAM) in Venous Leg Ulcers. Completed and closed. 2005.

19. Principle Investigator

A Study to Evaluate the Clinical Effectiveness of a Collagen-ORC Antimicrobial Matrix in Full-thickness, Neuropathic Diabetic Foot Ulcers. Completed and Closed.

20. Principle Investigator

A Prospective, Randomized, Controlled, Blinded, Multi-center Pivotal

Trial of AutoloGelSM Versus Control When Added to the Standard of Care in the Treatment of Non-healing Diabetic Non-healing Foot Ulcers. Completed and Closed.

21. Protocol Author and Principle Investigator.

A Randomized Clinical Trial to Evaluate the Ease of Donning and Removal of Silver-Coated Elastic Compression Stockings Compared to Standard Stockings. Unrestricted Educational Grant from Juzo. Completed and Closed..

22. Principle Investigator

A Confirmatory Study to evaluate the safety and Efficacy of Cryopreserved Bilayered Cellular Matrix (Orcel) for the Treatment of Venous Leg Ulcerations. PROTOCOL 100-VLU-02-CLN. Completed and Closed.

23. Principle Investigator

A Comparative Prospective, Randomized, Double-Masked, Parallel Group, Sham-Controlled Trial of MIST Therapy for the Reduction of Pain in Chronic Lower Extremity Ulcers. Completed and Closed.

24. Principle Investigator.

A Prospective, Randomized, Controlled, Unmasked, Multiple Treatment, Multi-Center Clinical Trial to Evaluate the Efficacy and Safety of an Interactive Wound Dressing Containing Cultured Keratinocytes versus Conventional Wound Therapy for the Treatment of Diabetic Foot Ulcers. Closed.

25. Principle Investigator and protocol author

Randomized Study Using Yamax Digi-Walker TM Pedometers to Evaluate Activity Levels (Steps) in Healthy Volunteers. Gannon University Grant. Completed and Closed.

26. Principle investigator

A Multi-center, Randomized Study of the Safety and Preliminary Efficacy of Topical Low Dose Nicotine Gel (AT G002) in Patients with PLANTAR Diabetic Foot. Closed.

27. Principle Investigator.

A Multi-Center, Double-Blind, Randomized, Parallel, Vehicle- and Standard Care-

Controlled, Dose-Ranging Study Assessing the Safety and Efficacy of MRE0094 Gel When Applied Topically for 90 days to Subjects with Diabetic, Neuropathic, Foot Ulcers” Closed.

28. Principle Investigator. RS03-2004

Pivotal Study to Evaluate the Efficacy and Safety of Dermal – Living Skin Replacement (Dermal – LSR) in the Treatment of Chronic Diabetic Foot Ulcers. Completed and Closed.

29. Principle Investigator. CVBT-W2005-01

A Phase 1, Open Label, Dose Response, Pilot Study to Evaluate the Safety and Tolerability of Human Fibroblast Growth Factor-1 (FGF-1) in Patients with Diabetic or Venous Stasis Ulcers” Completed and Closed.

30. Principle Investigator. 02-VLU-003

A Prospective, Multi-Center, Double Blind, Randomized, Placebo Controlled Trial to Evaluate the Safety and Efficacy of ICXP007 in a Phase III Trial with Four-Layer Therapeutic Compression, for the Treatment of Non Infected Skin Leg Ulcers, due to Venous-Insufficiency. Completed.

31. Principle and Lead Investigator

A Sub-study to determine Persistence of bioengineered skin. Adjunct to A Prospective, Multi-Center, Double Blind, Randomized, Placebo Controlled Trial to Evaluate the Safety and Efficacy of ICXP007 in a Phase III Trial with Four-Layer Therapeutic Compression, for the Treatment of Non Infected Skin Leg Ulcers, due to Venous Insufficiency. Closed.

32. Principle Investigator Protocol Number: Cell08-01

A Prospective Evaluation of the Effects of MIST Therapy® on Bacteria Reduction in Pressure Wounds. Completed and Closed.

33. Principle Investigator.

A Randomized, Double-Blind, Placebo-Controlled, Dose-Response Study of the Safety and Efficacy of Thymosin Beta 4 in the Treatment of Patients with Pressure Ulcers. Phase I/II Dose escalation. Completed and Closed.

34. Principle Investigator.

A Randomized, Double-Blind, Placebo-Controlled, Dose-Response Study of the Safety and Efficacy of Thymosin Beta 4 in the Treatment of Patients with Epidermolysis bullosa. Closed.

35. Principle Investigator PUMA

Open, non-comparative, multi-centre investigation evaluating the effect of an absorbent foam dressing containing silver (Mepilex Ag) when used in chronic ulcers.(PUMA)

Completed and Closed.

36. Principle Investigator (United States organizer).
International Pain Survey of patients with chronic wounds. Closed and completed.

37. Principle Investigator (Gene Therapy Trial)
A Randomized, Double-Blind, Placebo-Controlled, Single- and Double-Dose, Comparator Arm (Standard of Care), Multicenter Phase 2b Study of Topical GAM501 (Ad5PDGF-B/bovine type I collagen gel) in the Treatment of Non-Healing Diabetic Ulcers of the Lower Extremity. Completed and Closed.

38. Principle Investigator (FC6145-TAMARIS)
A randomized Double-Blind Placebo-Controlled Parallel Group Study of the Efficacy and Safety of Four Administrations of XRP0038/NV1FGF 4mg at Two Week Intervals on Amputation or Any Death in Critical Limb Ischemia Patients with Skin Lesions. Completed and Closed.

39. Principle Investigator
The Mechanism of Action of Unite™ Biomatrix in Diabetic Foot Ulcers. Closed.

40. Principle Investigator
The Mechanism of Action of Unite™ Biomatrix in Venous Leg Ulcers. Closed.

41. Principle Investigator
Evaluation of A Medical Food For Chronic Wounds. Sponsor Abbott. Closed.

42. Principle Investigator
A clinical trial to Evaluate the Healing of Diabetic Ulcers Using a Herbal Extract Impregnated Dressing. Closed.

43. Principle Investigator. NIH Grant: RFA A1-07-037
A Study to Determine the diagnostic accuracy of the ExpressDetect® wound pathogen diagnostic test relative to the gold standard in diabetic foot ulcers, pressure ulcers, or chronic wounds caused by venous insufficiency. Open.

44. Principle Investigator
A Prospective, Phase III, Multi-center, Randomized, Controlled Clinical Investigation of Dermagraft® in Patients with Venous Leg Ulcers. Completed and closed.

45. Lead and Principle Investigator
A Case Study Evaluation by Clinicians Treating and Patients Receiving Serial, On-Demand, Point-of-Care, Customized PolyFIT® Wound Dressings fabricated by Poly-Remedy WoundStation® vs. Subjects with Similar Wounds Receiving Currently Marketed Wound Dressings. Completed and Closed.

46. Lead and Principle Investigator

Analysis of Connexin Distribution in Various Skin Wounds. NEX-ULC-006. Completed and closed.

47. Principle Investigator

A Randomized, Double-Blind, Vehicle-controlled, Parallel Group, Dose-Ranging, Multi-center Study of the Efficacy and Safety of Nexagon® in the Treatment of Participants with Venous Leg Ulcers. Completed and closed.

48. Principle Investigator

A Randomized Trial of the Flexitouch® System as an Adjunctive Treatment for Venous Stasis Ulcer. Completed and closed.

49. Principle Investigator

To Evaluate The Healing Of Diabetic Ulcers Using A Herbal Extract Impregnated Dressing. Completed and closed.

50. Principle Investigator

A Multicenter, Randomized, Controlled Clinical Trial to Evaluate the Safety and Effectiveness of Intergra® Dermal Regeneration Template for the Treatment of Neuropathic Diabetic Foot Ulcers. Open.

51. Principle Investigator

Randomized, Parallel-Group, Double-Blind, Placebo-Controlled Phase 2 Clinical Trial to Evaluate the Safety and Effectiveness of DSC 127 in Treating Subjects with Diabetic Foot Ulcers. Completed and closed.

52. Principle Investigator

Randomized standard-of-care-controlled trial of silica gel fiber (SGF) wound dressing in the treatment of chronic venous leg ulcers. Closed.

53. Principle Investigator.

Lower extremity venous and diabetic ulcer negative pressure wound therapy trial. Completed and closed.

54 – 64. Lead and Principle investigator.

Determining the appropriate levels of proteases using a rapid diagnostic technique. Closed. This program consisted of a series of trials to determine the clinically appropriate levels of inflammatory proteases in chronic wounds. In addition, these trials included the development of the swab technique, the Serena technique.

65. Principle Investigator.

Safety and Efficacy of HO/03/03 10µg in the Treatment of Plantar Neuropathic Diabetic Foot Ulcers. Open.

66. Principle Investigator

A Randomized, Parallel Group, Dose-Ranging, Controlled, Multi-Center Study to Assess the Efficacy and Safety of Nexagon® in the Treatment of Subjects with a Venous Leg Ulcer. Open.

67. Lead and Principle Investigator

Determining levels of negative pressure in vivo with a non-cannister based device. Closed.

FDA Audits

February 2008. Orcel Trial. No 483s issued.

FEDERAL GRANTS

NIH Sponsored Clinical Trial: Phase 2 Study of Safety and Efficacy of Topical Administration of Recombinant Human Lactoferrin to Patients with Lower Extremity Diabetic Neuropathic Ulcers

NIH Sponsored Clinical Trial: A Randomized, Double-Blind, Placebo-Controlled, Single- and Double-Dose, Comparator Arm (Standard of Care), Multicenter Phase 2b Study of Topical GAM501 (Ad5PDGF-B/bovine type I collagen gel) in the Treatment of Non-Healing Diabetic Ulcers of the Lower Extremity

NIH Grant: 1R43GM079834-02 Diagnostic Tool for the Detection of Infection in Chronic Wounds.

NIH-Sponsored Trial: Randomized, Parallel-Group, Double-Blind, Placebo-Controlled Phase 2 Clinical Trial to Evaluate the Safety and Effectiveness of DSC 127 in Treating Subjects with Diabetic Foot Ulcers.

BOOKS

1. American Suction Wound Therapy and Advance Wound Healing. Published by Peking University Health Science Center. 2005.
Chapter 11 Suction Wound Therapy for Acute Wounds, Burns Trauma and Surgical Incisions.
Chapter 24: Wound Infections.
2. Wound Care: A Collaborative Practice Manual for Health Professionals. Published by Lippincott Williams & Wilkins. 3rd Edition. 2011.
Chapter 10: Debridement.

INTERNATIONAL VOLUNTEER ORGANIZATIONS

AAWC Global Alliance/ Health Volunteers Overseas

2011	Program Director, Health Volunteers Overseas, Cambodia	2008-
	Volunteer Phnom Penh, Cambodia: January 2008	
	Haiti, Disaster Relief Volunteer February 2010	
present	Chairman, HVO/Global Volunteers Steering Committee	2011–

World Alliance for Wound and Lymphedema Care (WAWLC)

2009	Attendee inaugural meeting Geneva	Oct.
	Member	2009-present

Consultant to the Government of Rwanda

	Clinical Trial Oversight. Kigali, Rwanda	2010-present
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PROFESSIONAL SOCIETIES AND ORGANIZATIONS

Memberships

The Hershey Surgical Society	1982 - present
The Warren County Medical Society	1992 - present
The Pennsylvania Medical Society	1992 - present
The American College of Surgeons	1992 - present
The NW Chapter of the American College of Surgeons	1992 - present
The American Society of General Surgeons	1996 - present
The Wound Healing Society	1998 - present
Delegate to the Pennsylvania Medical Society	1996 - 2003
The European Tissue Repair Society	2002 - 2010

American Professional Wound Care Association	2003 - present
The Association for the Advancement of Wound Care	2004 - present
The Society of Undersea and Hyperbaric Medicine	2004 – present

Society Boards and Officer Positions.

President, Warren County Medical Society	2001 - 2011
American College of Hyperbaric Medicine Board of Directors	2008 - present
The Association for the Advancement of Wound Care Board of Directors (2 terms).	2009 - present
Vice-President, American College of Hyperbaric Medicine.	2009 - present
American Professional Wound Care Association Board of Directors.	2011 – present.

COMMITTEE MEMBERSHIPS LOCAL

Credentials Committee	1996 – 1998
Medical Executive Committee	1997 – 2001
American Cancer Society Board	1993 – 1997
Vice-chairman, Department of Surgery	2001- 2003
Chairman, Utilization Review/ Quality Assurance committee.	2001- 2003
Chairman, Education Committee	2001- Present

COMMUNITY ORGANIZATIONS & ACTIVITIES

President and Founder: Kinzua Youth Soccer Club	1995 – 1999
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Under 14 Age Group Commissioner Northwest District 1997 – 1998
Pennsylvania West Soccer

MARATHONS

Marine Corps Marathon	1995 & 1996
Buffalo Marathon	1998, 2007
Boston Marathon	2000
Pittsburgh Marathon	2002

SOCIAL ORGANIZATIONS

Shakespeare Club	2010 - 2012
Acting: Ford Merry Wives of Winsor.	2011

NATIONAL ORGANIZATION COMMITTEE MEMBERSHIP

Membership Committee, Wound Healing Society Chairman 2003)	2002-2005	(acting
Board of Directors; Wound Healing Society	2003-2006	
Co-Founder, Wound Healing Cooperative Group	2003-2004	
Chairman, Clinical Trials Course Wound Healing Society	2005	
Lecturer Wound Care course, American College of Surgeons	2004	
Guidelines for Chronic Wounds. Venous Leg Ulcer Section. (Wound Healing Society).	2005	
Guidelines for Chronic Wounds. Diabetic Foot Ulcer Section. (Wound Healing Society).	2005	

Chairman, Industrial Relations Committee Wound Healing Society	2005-present
Chairman, Pre-session symposium Wound Healing Society	2006
Chairman, Research section Symposium on advanced wound care	2006
Fellowship Director, American College of Hyperbaric Medicine	2008
Board of Directors, Association for the Advancement of Wound Care (AAWC)	2009
Vice-President American College of Hyperbaric Medicine	2009
Chairman Consensus Panel on Wound Care Research	2010
Member. Consensus Panel on the Development and Progression of Pressure Ulcers.	2010
Pennsylvania Pressure Ulcer Prevention Partnership	2011-present

GOVERNMENT POSITIONS

Advisor to Pennsylvania's Medicare Carrier Committee, Wound Care (drafted the policies for the use of bioengineered skin products in Pennsylvania)

Physician reviewer Quality Insights	2003-Present
Pennsylvania Pressure Ulcer Partnership	2008-present
Alliance for Wound Care Stake Holders Antimicrobial policy NPWT policy POWER panel.	2009-present
Chairman, Clinical advisory board Alliance of Wound Care Stake Holders	2011-present

WHITE PAPERS/DELPHI GROUPS

Chairman, POWER. Guidance document in clinical research.	2010
Member, STOP Panel	2010
Member, Wound infection, dressings and pain, is there a relationship in the chronic wound?	2010
Reviewer. SCALE	2009

INDUSTRY CONSULTANT AND BOARDS

ACTIVE (activity in 2011).

Arthrocare Consultant, Product development.	2009-present
Bayer Advisory Board, Consultant, Clinical Trial Investigator	2009-present
Celleration Consultant, Clinical Trial Investigator. Advisory Board.	2005-present
Circ-Med Consultant, Clinical trial advisor.	2010-present
CoDa Consultant, Clinical Trial Investigator.	2008-present
Cytomedix Clinical Trial Investigator, Consultant	2004-present
EnzySurge Consultant, Investigator.	2010-present
Health Point Consultant, Speaker's Bureau, Medical Advisory Board	2005-present

Kaypto Consultant.	2010-present
Mego Aflec/Lympha Press USA Consultant.	2011 –present
Mölnlycke Health Care: Consultant, Speaker’s Bureau, Clinical Trial Investigator, Advisory Boards (USA & International)	2004-present
Osnovation Advisor. NIH collaboration	2010-present
PolyRemedy Inc. Consultant, Medical Advisory Board, Clinical Trial Investigator	2008-present
RedDress Consultant	2009-present
Sanofi-Aventis Consultant, Clinical Advisory Boards (3)	2010-present
Synovis Clinical Advisory Board, Clinical Trial Investigator.	2009-present
Systagenics Clinical Advisory Board, Clinical Trial Investigator	2009-present
Tissue Therapeutics Consultant, Clinical trial design.	2011 –present

INACTIVE OR COMPLETED

3QMatrix Consultant, Advisory Board	2009-10
Acrymed Clinical Advisory Board.	2010

Agennix Incorporated Clinical Trial investigator/NIH	2004-2006
Apopharma Clinical Trials Investigator	2006-2008
CardioVascular BioTherapeutics Clinical Trial Investigator, Consultant	2006-present
CoMentis Clinical Trial Investigator	2006-present
Covidien Clinical Advisory Board	2008-present
Derma Sciences: Consultant, Advisory Board, Clinical Trial Investigator.	2006-present
Gliamed Consultant, Clinical Advisory Board	2008-present
Intercytex Consultant, Clinical Trial Investigator	2006-present
Ivivi Technologies, Inc.: Advisory Board	2006-present
Hedonist Biochemical Technologies. Clinical Trial Investigator, Product development, Consultant.	2004-present
Johnson & Johnson Wound Management Worldwide. Consultant, Speaker's Bureau, Clinical Trial Investigator, Product Development. Medical Advisory Board.	2003-2008
Juzo Clinical Trial Investigator, Research grants.	2005-2009
Kerakure. Clinical Trial Investigator	2005-2010
King Pharmaceuticals Clinical Trial Investigator	2005-2008

Krog and Partners Consulting	2006-2008
Medline Industries. Consultant, Speaker's Bureau, Clinical Trial Investigator, Research grants	2000-present
Milliken & Company Consultant. Product development	2006-present
Novacal Pharmaceuticals Consultant, Clinical Trial Investigator	2006-2007
Organogenesis. , Consultant, Speaker's Bureau, Clinical Trial Investigator, Research grants.	1998-present
Ortec Consultant, Clinical Trial Investigator	2005-2009
Ortho McNeil, Speaker's Bureau and consultant	1997-2003
Otsuka Pharmaceuticals. Speaker's Bureau, Consultant	1997-2004
RegeneRx Biopharmaceuticals, Inc Clinical Trial Investigator, Consultant	2006-present
Schulke Consultant, Trial development.	2008-present
Smith and Nephew. Visitrak development	2004-2006
Steifel Podiatry: Consultant, Speaker's Bureau	2006-2007
Tactile Systems Technology Clinical Trial Investigator	2009-present

Tissue Repair Company

2007-present

Clinical Trial Investigator

* HCC Guidelines for Professional Speakers and Trainers course 2007.

WALL STREETCONSULTING

Gerson Lehman

2005-present

Consultant

MULTIMEDIA PRESENTATIONS

WSEE Erie Evening News "Wound Healing" 2005

JCHO Instructional Video "Pressure Ulcer Care and Prevention" March 2006.

WSEE Erie Evening News Special Hyperbaric Oxygen for the Diabetic Foot" May 11, 2006

WJET Focus on Erie Medicine. "Wound Healing." July 16th 2006.

WICU Erie News. Hyperbaric Oxygen for Carbon Monoxide Poisoning. December 7, 2006.

WSEE Erie Evening news. Diabetic Foot Ulcers. December 14, 2007.

WICU Erie Evening News. Diabetic Ulcers. December 14, 2007.

WJET Erie Evening News Diabetic Ulcers and Gene Therapy. December 14, 2007.

Fox Erie Evening News. Diabetic Foot Ulcers. December 14, 2007.

Wound Institute Online Course. Infection in Chronic Wounds. 2007.

Carbon Monoxide Poisoning: Dangers and Treatment, *WJET* December 23, 2008.

"Dr. Serena Tells it like it is." HMP Publications on-line video interview.

Two-Part series on Hyperbaric Medicine, NBC News. December 2009. Erie PA.

INVITED PRESENTATIONS, GRAND ROUNDS AND LECTURES

1. "Advances In the Treatment of Diabetic Foot Ulcerations" Grand Rounds. Holy Family Hospital. Grand Rounds. Altoona, PA. December 14, 1998.
2. "New Treatment Options For Diabetic Foot Ulcerations" New England Podiatric Society. Hartford, CT. January 20, 1999.
3. "Integrating New Approaches in the Treatment of Diabetic Foot Ulcers" Sayre, PA. January 27, 1999.
4. "The Old and New in the Treatment of Chronic Wounds." Grand Rounds. Hamot Hospital. Erie, PA. February 27, 1999.
5. "Advances in Wound Healing" Medical Center of Beaver. Beaver, PA. March 3, 1999.
6. "New Treatment Strategies in Diabetic Wound Care & the Medicoeconomic Relevance." Grand Rounds. St. Francis Hospital. March 19, 1999.
7. The Complicated Wounds Advisory Panel Meeting. The R.W. Johnson Pharmaceutical Research Institute. Short Hills, NJ. April 23-24, 1999.
8. "Wound Care for the Next Century." Grand Rounds. Warren, PA. April 4, 1999.
9. "The Role of Platelet-Derived Growth Factors in Wound Healing" Rosemont, IL. April 27, 1999.
10. "Advances in Wound Care" Johnstown, PA. April 28, 1999.
11. "New Treatment Strategies or Chronic Wounds." Altoona, PA. May 12, 1999.
12. "Current Concepts IN the Treatment of Chronic Wounds." New Hampshire Medical Society. Nashua, NH. May 26, 1999.
13. "Advances in Wound Healing." Grand Rounds. St. John's Regional Health System, Springfield, MO. May 20, 1999.
14. "Advances in Wound Care" Lake Ozark, MO. May20, 1999.
15. "Diabetic Foot Ulcers: Wound Healing Challenges and New Treatment Options." Central New York Academy of Medicine. Utica, NY. June 16, 1999.
16. "Advances in Wound Healing." Grand Rounds. Togus VA Hospital. Togus, ME. June 25, 1999.
17. "Wound Care." Grand Rounds. Hamot Medical Center. Erie, PA July 15, 1999.

18. "Chronic Wound Care and the Emerging Role of Platelet-Derived Growth Factor." Oshkosh, WI. July 27, 1999.
19. "Innovative Treatments in Wound Care." Muncie, IN. July 28, 1999.
20. "Advances in Wound Care." Elkhart Medical Society. Elkhart, IN. July 29, 1999.
21. "New Treatment Strategies for Chronic Wounds." Stevensville, MI. August 12, 1999.
22. "Wound Healing and New Treatment Options For Chronic Wounds." Grand Rounds. Missouri Baptist Medical Center, St. Louis, MO. September 8, 1999.
23. "Innovative Treatment Strategies in Wound Healing." Richmond, IN. September 8, 1999.
24. "New Treatment Strategies for Chronic Wounds." Loveland, CO. September 13, 1999.
25. "Advances in Chronic Wound Healing." Boulder, CO. September 13, 1999.
26. "Innovative Treatments in Wound Healing." Johnson Medical Society. Franklin, IN. September 15, 1999.
27. "Innovative Wound Healing Treatment Options." Indianapolis, IN. September 22, 1999.
28. "The Role of Growth Factors in Chronic Wound Healing." Jacksonville, FL. September 29, 1999.
29. "Wound Healing Challenges & New Treatment Options." Wheeling, WV. October 6, 1999.
30. "Wound Healing Challenges & New Treatment Options." 2nd Annual Continuing Education Program. Massena Memorial Hospital. Massena, NY. October 23, 1999.
31. "Wound Challenges & New Treatment Options." Suffern, NY. October 27, 1999.
32. "Growth Factor Therapy in Clinical Practice." Chattanooga, TN. November 18, 1999.
33. "The role of Growth Factors in the Chronic Wound." Grand Rounds. Chattanooga, TN. November 19, 1999.

34. "Taking Wound Healing to the Next Level." Denver, CO. December 1, 1999.
35. "The assessment of Chronic Wounds and Treatment Options." The Pennsylvania Association of Assistants Region 1. Pittsburgh, PA December 2, 1999.
36. "Current Concepts in Wound Healing and the Care of Chronic Wounds." Grand Rounds. Detroit Medical Center. Detroit, MI. December 9, 1999.
37. "Current Concepts in the Treatment of Chronic Wounds." Grand Rounds. Nalle Clinic. Charlotte, NC. December 17, 1999. "Growth Factor Therapy in the New Millennium." Newark, NJ. January 11, 2000.
38. "Wound Healing Challenges & New Treatment Options." Elkhart General Topics at Snowmass VIII. Snowmass, CO. February 6, 2000.
39. "Vascular Evaluation of the Diabetic Foot." Elkhart General Topics at Snowmass VIII. Snowmass, CO. February 7, 2000.
40. "New Advances in Wound Care." Southern Ohio Association of Podiatry. Grand Rounds. Dayton, OH. February 21, 2000.
41. "Bioengineered Skin (Apligraf) in the Treatment of Chronic Wounds." Canton, OH. February 23, 2000.
42. "New Treatment Options For Difficult to Heal Wounds." John J. Kane County Nursing Home Annual Meeting. Pittsburgh, PA. March 1, 2000.
43. "Advances in Wound Healing: Growth Factor Technology." Rutland Regional Medical Center. Grand Rounds. Rutland, VT. March 2, 2000.
44. "Advances in Wound Healing" Cedar Grove, NJ. March 7, 2000.
45. "The role of Growth Factors in Advanced Wound Care." Pensacola Surgical Society. Pensacola, FL. March 13, 2000.
46. "Advances in Wound Management." Curative Health Services. Weirton, WV. April 18, 2000.
47. "Advances in Chronic Wound Care." Parkersburg, WV. April 26, 2000.
48. "New Treatment Strategies for Chronic Wounds." Grand Rounds. Hermitage, PA. May 17, 2000.
49. "Recent Advances in Wound Care." Grand Rounds. Elk Regional Health Center. St. Mary's, PA. June 14, 2000.

50. "Advances in the Treatment of Chronic Wounds." Visalia, CA. June 20, 2000.
51. "Wound Healing Challenges and New Treatment Options." Fresno, CA. June 21, 2000.
52. "The Role of Topical Growth Factors in Chronic Wound Healing." Ventura, CA. June 22, 2000.
53. "The Chronic Wound: A Multidisciplinary Approach." Belle Vernon, PA. November 15, 2000.
54. "Advances in Wound Care" Grand Rounds Bon Secours Hospital. Detroit, MI. October 10, 2000.
55. An Overview of the Phase II clinical trial testing the Safety and Efficacy of Repifermin in the Treatment of Venous Stasis Ulcerations. Grand Rounds presentation. Warren County Medical Society. January 16, 2001.
56. The Use of Apligraf in the treatment of Diabetic Foot Ulcers. William L. Goldfarb Memorial Lecture. Temple University School of Podiatric medicine. Philadelphia, PA. January 26, 2001.
57. Vascular Evaluation of the Diabetic Foot. William L. Goldfarb Memorial Lecture. Temple University School of Podiatric Medicine. Philadelphia, PA. January 26, 2001.
58. Setting a New Standard in Wound Care: Apligraf (Graftskin). Apligraf in Diabetic Foot Limb Salvage. Orlando FL. February 2-4, 2001.
59. "A Whirlwind Tour through the Wonderful World of Wounds" Grand Rounds presentation. The Warren County Medical Society. March 19, 2001.
60. "Development of a Comprehensive Wound Care Program" Mon Valley Hospital. September 26, 2001.
61. "The Evolution of Apligraf (Graftskin) use in a Wound Care Center" Apligraf Standard of Care Conference. Hershey, PA. November 10, 2001.
62. Becaplermin Treatment of a Chronic Vasculitic/Diabetic Neuropathic Ulcer in a Patient with Rheumatoid Arthritis. Presentation for the American Society of Hospital Pharmacists. Las Vegas NV December 4, 2001.
63. Apligraf vs. Autograft. Presented at Apligraf (Graftskin) in Clinical Practice: A new Standard in Wound Care. Palm Beach, FL. December 8, 2001.
64. Apligraf reimbursement in 2002. Presented to the Medicare Carrier Committee.

Harrisburg, PA. February 6, 2002.

65. Overview of Apligraf Use. Tissue Engineering Consulting Network meeting of Western Pennsylvania and West Virginia. February 27, 2002.
66. The Clinical Role of Apligraf (Graftskin) in Surgical Practice. Meeting moderator. Presentation: Apligraf as a Concomitant in Limb Salvage. Chicago, I March 1-2, 2002.
67. Advances in Wound Care. Grand Rounds Corry Memorial Hospital. Corry, PA. March 12 2002.
68. Regranex revisited: Case studies using Bcaptermin in The treatment of Chronic Wounds. Dallas, Texas. April 19-20 2002.
69. Graftskin (Apligraf) in the treatment of Chronic Wounds. Standard of Care Meeting. Virginia Beach, VA. April 25, 2002.
70. "Aches and Pains in the Pipes and Drains: the use of medications in the treatment of peripheral vascular disease" Warren County Medical Society. Grand Rounds August 2003.
71. "Aches and Pains in the Pipes and Drains: the use of medications in the treatment of peripheral vascular disease" Dubois Medical Group. February 2003.
72. Aches and Pains in the Pipes and Drains: the use of medications in the treatment of peripheral vascular disease" St. Mary's PA., April 2003.
73. Diagnosis, Management and Treatment of Patients Suffering from Intermittent Claudication. June 25, 2003. Erie Pennsylvania.
74. The Art of Wound Healing: Advances in Wound Care. The American Association of Medical Transcriptionists meeting. Warren, Pennsylvania. August 2, 2003.
75. Advances in Wound Care and Limb Preservation in the diabetic patient. Patriots Day Lecture. Erie Veterans Administration Hospital. September 10th, 2003.
76. Quality Insights, Improving Patient Safety. First Annual Blair Safety Lecture. Conewango Club. Warren, Pennsylvania. September 12, 2003
77. Advances in the Treatment of Peripheral Arterial Disease. Franklin, Pennsylvania. September 26, 2003.
78. Advances in the Treatment of Peripheral Arterial Disease. Warren County Medical Society Meeting. Conewango Club. October 11, 2003.

79. New Technologies in Wound Healing: a Focus on Growth Factors and MMP Inhibitors. Albany Medical Society meeting. Albany NY. November 18, 2003.
80. New Technologies in Wound Healing: a Focus on Growth Factors and MMP Inhibitors. Buffalo Podiatry Society Meeting. Buffalo New York. January 13, 2004.
81. The Science of Silver: From the lab bench to the bedside. Thomas E. Serena MD FACS FAPWCA Podium presentation at the annual meeting of the American Professional Wound Care Association. Philadelphia, PA March 26, 2004.
82. Diagnosis and Management of Peripheral Arterial Disease. Erie PA April 21st 2004.
83. Advanced Wound Care in the Hospice Setting." Pennsylvania Hospice Network Annual Meeting and Conference. Erie PA April 26, 2004.
84. New Technologies in Wound Healing: a Focus on Growth Factors and MMP Inhibitors. UPMC Horizon Hospitals. At the Tara, Hermitage PA. May 2004.
85. The diagnosis and management of peripheral arterial disease. Butler, PA. June 25th 2004.
86. New Technologies in Wound Healing: a Focus on Growth Factors and MMP Inhibitors. Grand Rounds. Mercy Hospital. Pittsburgh, PA. July 28, 2004.
87. The Diagnosis and medical management of peripheral Arterial Disease" Erie, PA August 25, 2004.
88. Patient Safety and the Prevention of Pressure Ulceration. Second Annual Blair Safety Lecture. Warren, PA September, 2004.
89. Patient Safety and Hyperbaric Oxygen. When is it indicated? Second Annual Blair Safety Lecture. Warren, PA. September 17th 2004.
90. Advances in the treatment of Venous Leg Ulcerations. Wound care for the Practicing Surgeon. American College of Surgeons. Clinical Congress. October 2004. New Orleans, LA.
91. Bilayered Cell Therapy: unveiling the mystery of Apligraf. New Cardiovascular Horizons. New Orleans LA. October 16, 2004.
92. The Sigma Tau Nursing Honor Society Annual lecture. "Advances in Wound Healing." Gannon University. October, 28 2004.
93. Advances in Wound Healing. Warren, Ohio. Nov. 2nd 2004.

94. New Technologies to Address the Ever-changing Wound Microenvironment. Ft. Lauderdale, FL. April 2005.
95. New Technologies to Address the Ever-changing Wound Microenvironment. National Physicians Training Meeting. Las Vegas, NV. April 2005.
96. New Technologies to Address the Ever-changing Wound Microenvironment National Physicians Training Meeting-II. Orlando, FL. April 2005.
97. New Technologies to Address the Ever-changing Wound Microenvironment. Minneapolis, MN. April 19th, 2005.
98. New Technologies to Address the Ever-changing Wound Microenvironment. Satellite Symposium. Symposium on Advanced Wound Care. San Diego, CA. April 21st 2005.
99. Understanding Infection and Bacterial Colonization in Chronic Wounds. Presentation for the Medical Director Advisory Panel. April 20, 2005. San Diego, CA.
100. New Technologies in Wound Care. Grand Rounds. St. Vincent's Health Center. Erie, PA. July 8, 2005.
101. New Technologies to Address the Ever-changing Wound Microenvironment. Regional meeting of the WOCN. Forbes Hospital. Pittsburgh, PA. July 21, 2005.
102. Wound Infection in The World of Chronic Wound Care. Managing Infection Risk in Tissue Repair: Clinical Perspectives and Potential Solutions. Somerville New Jersey. August 23, 2005.
103. The Biochemistry of Wound Healing. Detroit Medical Center annual Podiatric Seminar. September 24th, 2005.
104. Basics in Wound Healing. Blackburn's Wound Healing Symposium. Erie, PA September 19th 2005.
105. Advances in Wound Healing. Blackburn's Wound Healing Symposium. Erie, PA September 19th 2005.
106. Advances in Wound Care. Hazelton, PA. September 27th 2005.
107. Do No Harm: pain reduction in Wound Care. Northeast Regional WOCN Conference. Hershey, PA October, 22nd 2005.
108. Introduction to Wound Care. Mercy Hospital, Pittsburgh, PA. Grand

Rounds.
February, 22, 2006.

109. Wound Care Essentials and Pediatric Wound Care. Grand Rounds Shriners Hospital. March 8, 2006.
110. Healing Wounds in the 21st Century. Erie, PA. March. 2006
111. Advances in Wound Healing. Kittanning, PA. March 2006.
112. Managing the Wound Microenvironment. Breakfast Conference, Symposium on Advanced Wound Care. San Antonio, TX. May 1, 2006.
113. Clinical Trials for FDA use--studying an agent vs. treating a patient. Symposium on Advanced Wound Care. San Antonio, TX. May 3, 2006.
114. Investigator Initiated, Industry Sponsored Clinical Trials. Symposium on Advanced Wound Care. San Antonio, TX. May 3, 2006.
115. Wound Care: the emerging specialty. American Association of Physicians Assistants National Meeting. San Francisco CA. May 27, 2006.
116. Advances in Wound Care. HCR Wound Care Conference. Rochester, NY. June 7, 2006
117. Bi-Layered Cell therapy. York, PA. June 8, 2006.
118. Wound Healing: Developing a Hospital Wound Care Program. Annual Meeting of the Northwestern PA Pharmacists. June 14, 2006. Erie, PA.
119. Wound Healing: Looking to the Future. Chautauqua Institute Invited Lecture. July 6, 2006.
120. Hyperbaric Medicine. St. Vincent's Health System Grand Rounds. July 7, 2006. Erie, PA.
121. American Podiatric Medicine Association. Annual Meeting. Breakfast Symposium. Podiatric Complications of Diabetes. August 8 2006.
122. American Podiatric Medicine Association. Annual Meeting. The Use of Silver in the Treatment of Chronic Wounds. Oral Abstract. August 9, 2006.
123. Advances in Wound Care. Butler PA. August 29, 2006.
124. Managing Difficult to Heal Wounds: Extracellular Matrix. Pittsburgh, PA.

September 21, 2006.

125. Managing Difficult to Heal Wounds: Extracellular Matrix. New Orleans, LA. October 5, 2006.
126. The role of Extracellular Matrix in Wound healing. Presentation for the open discussion on the draft policy for skin equivalents. Harrisburg, PA October 11, 2006.
127. From basic to advanced wound healing. Keynote lecture. Blackburn's annual wound care conference. Erie, PA. October 19, 2006.
128. For all the wounds I've loved before. Blackburn's annual wound care conference. Erie, PA. October 19, 2006.
129. Hyperbaric Oxygen Therapy. Annual Blair Lecture Series. Warren, PA. October 21, 2006.
130. Advances in Wound Care. Allegheny General Hospital Annual Wound Conference. Keynote Lecture. Pittsburgh, PA. October, 26 2006.
131. Tissue engineering in the 21st century. Allegheny General Hospital Annual Wound Conference. Pittsburgh, PA. October, 26 2006.
132. Managing Difficult to Heal Wounds: Extracellular Matrix. Long Island, NY. November 1, 2006.
133. Managing Difficult to Heal Wounds: Extracellular Matrix. Manhattan, NY. November 2, 2006.
134. What every WOCN should know about the diabetic foot. Regional WOCN Conference. Pittsburgh, PA. November 4, 2006.
135. Managing Difficult to Heal Wounds: Extracellular Matrix. Philadelphia, PA. November 9, 2006.
136. Managing Difficult to Heal Wounds: Extracellular Matrix. Chicago, IL. November 13, 2006.
137. Managing Difficult to Heal Wounds: Extracellular Matrix. Baltimore, MD. November 14, 2006.
138. The role of the Extracellular Matrix in Wound Healing. Vieth Symposium. Manhattan. NY November 15, 2006.
139. Tissue Engineering. The Achilles Symposium. Pittsburgh, PA. January

15th 2007.

140. Carbon Monoxide Poisoning. Grand Rounds. St. Vincent's Health Center, Erie, PA. February 2, 2007.
141. Wound Care Course: Basics of Wound Care. Health Point National Training Meeting. Albuquerque, New Mexico. March 6, 2007.
142. The Extracellular Matrix in Wound Healing. Philadelphia, PA. March 15, 2007.
143. Advances in Wound Healing: Growth Factors. Pittsburgh, PA April 10, 2007.
144. Controversies in Hyperbaric Medicine. American Professional Wound Care Association Session. Philadelphia, PA. March 19, 2007.
145. Collagen in Wound Healing. Main Session. American Professional Wound Care Association. Philadelphia, PA April 20, 2007.
146. All my Trials and Tribulations: Clinical trials from the investigator's prospective. Pre-Conference presentation. Wound Healing Society annual meeting. Tampa FL. April 28, 2007.
147. Venous Leg Ulcer Prevention Guidelines. Presentation for open forum. Wound Healing Society annual meeting. Tampa, FL. April, 20, 2007.
148. 147 Meet the Mentors. Wound Healing Society forum. Wound Healing Society annual meeting. Tampa, FL. April 21, 2007.
149. American Association of Wound Management Research forum. Tips on medical publishing. Symposium on Advanced Wound Care. Tampa, FL. May 1, 2007.
150. Advances in Tissue Engineering. Cumberland MD. May 3, 2007.
151. Advances in the Treatment of Diabetic Foot Ulcerations. VHA annual conference. Cambridge Springs, PA. May 9, 2007.
152. Advances in Wound Healing and Tissue Engineering. Pittsburgh, PA. May 21, 2007. Sponsored by Organogenesis.
153. Comprehensive Wound Healing and Hyperbaric Oxygen. AAPA's 35th Annual Physician Assistant Conference, Philadelphia, PA. May 26, 2007.
154. Advances in Wound Healing and Tissue Engineering. Canton, OH May 30,

2007. Sponsored by Organogenesis.
155. Wound Healing Basics. Blackburn's Annual Wound Care Symposium. Butler, PA. June 13, 2007.
 156. Advanced Wound Healing. Blackburn's Annual Wound Care Symposium. Butler, PA. June 13, 2007.
 157. Advances in Wound Healing and Tissue Engineering. Carbondale, PA July 10, 2007. Sponsored by Organogenesis.
 158. Clinical Best Practices for the Care of Lower Extremity Wounds. Best Practices in Wound Care. Conference sponsored by 3M. Warrendale, PA August 1, 2007.
 159. Clinical Trials in Wound Healing: Advances in Wound Healing Research. A NewBridge educational conference. Erie, PA. August 2, 2007.
 160. Advances in Wound Healing. Sponsored by Johnsons & Johnson Wound Management World Wide. Cleveland OH. September 18, 2007.
 161. The Matrix in Wound Healing. Grand Rounds. Murfreesboro Wound Care Center. Murfreesboro, TN. Lecture and rounds. Murfreesboro, TN October 10, 2007.
 162. Tissue Engineering. Presentation for wound care specialists. Clarks Summit, PA. November, 7, 2007.
 163. Wound Care in the Long Term Acute Care Setting. Grand Rounds. Greenville, SC December 7, 2007.
 164. Advanced Wound Care Technologies (Promedica conference). For all the Wounds I have Loved Before. Toledo, Ohio. February 7. 2008.
 165. Introductory Course to Wound and Hyperbaric Medicine. UHMS certifying course. Warren, PA. April 5-10, 2008.
 166. Bi-Layered Cell Therapy. Boston, MA. April 10, 2008.
 167. Wound Care Basic to Advanced. AORN Annual Meeting. Erie, PA April 12, 2008.
 168. Basic Wound Care Course. Miami Valley Hospital. April 19-20, 2008.
 169. Sound Evidence for Ultrasound. SAWC annual meeting. San Diego, CA. April 26, 2008.

170. Growth Factors in Wound healing. Promotional presentation. Greensburgh, PA. May 22, 2008.
171. The Matrix in Wound Healing. CME Presentation. Houston, TX, June 3, 2008.
172. Arterial Disease in the Diabetic Patient. Invited Lecture. World Union of Wound Healing Societies. Toronto, Canada. June 5, 2008.
173. Introductory Course to Wound and Hyperbaric Medicine; UHMC Certification Course. NY Methodist and Kingsbrook Jewish Medical Centers. NY,NY. June 8-13, 2008.
174. Pennsylvania Pressure Ulcer Partnership. (1) State of the Commonwealth (2) Documentation. Pittsburgh Pennsylvania October 15, 2008.
175. Pennsylvania Pressure Ulcer Partnership. (1) State of the Commonwealth (2) Documentation. Philadelphia, Pennsylvania October 21, 2008.
176. Pennsylvania Pressure Ulcer Partnership. (1) State of the Commonwealth (2) Documentation. Harrisburg Pennsylvania October 23, 2008.
177. Antimicrobials and bacteria in chronic wounds. Copenhagen Denmark. Invited lecture. November 7, 2008.
178. Introduction to Hyperbaric Medicine. Erie, Pennsylvania. December 5-8. UHMS Certification Course.
179. New Approaches to Personalized Medicine Using Inflammation, Healing, and Regeneration as Prototypes. Sponsored by the Wound Healing Society and University of California-Riverside. January 9-10, 2009.
180. Limb Preservation: the role of Hyperbaric Medicine. NY Podiatric Meeting. Manhattan, NY. January 23-25, 2009.
181. Venous Leg Ulcers. NY Podiatric Meeting. Manhatten, NY. January 23-25, 2009.
182. Tissue Engineering in Wound Healing. NY Podiatric Meeting. Manhattan, NY. January 23-25, 2009.
183. Noncontact, Non-thermal, Low Frequency Ultrasound. NY Podiatric Meeting. Manhattan, NY. January 23-25, 2009.
184. Noncontact, Non-thermal, Low Frequency Ultrasound: A Vascular

- Surgeon's prospective. Celleration National Sales Meeting. January 28, 2009.
185. Moderator, Personalized Medicine Session. University of California-Riverside. January 10, 2009.
 186. Hyperbaric Oxygen: Evidenced-Based Medicine. Grand Rounds. Scranton Community Medical Center. March 3, 2009.
 187. Advanced Wound Care; Evidenced Based Medicine. Lackawana Podiatric Society. Olde Forge, PA. March 18, 2009.
 188. Advances in Wound Healing and Regenerative medicine. The Snyder Institute for Vascular Health and Research Spring Conference. Kittanning, PA. April 14, 2009.
 189. Venous Leg Ulcer Disease. Session Moderator. Wound Healing Society. May 27, 2009.
 190. An overview of Non-contact Non-Thermal Ultrasound in the treatment of Chronic Wounds. Symposium of Advanced Wound Care (SAWC). Dallas, TX. April 27, 2009.
 191. An overview of Non-contact Non-Thermal Ultrasound in the treatment of Chronic Wounds. Symposium of Advanced Wound Care (SAWC). Dallas, TX. April 28, 2009.
 192. The Role of Hyperbaric Oxygen Therapy in the Treatment of Radiated Injured Tissues. ACMH/AGH Oncology Conference. May 19, 2009.
 193. Introduction to Hyperbaric Medicine: Basic Course. NY Methodist Medical Center. Brooklyn, NY. May 27-31, 2009.
 194. The Crucial Role of Hyperbaric Medicine in Limb Preservation. The Snyder Institute for Vascular Health and Research. Annual Nursing Conference. Armstrong County Memorial Hospital. Kittanning, PA. June 2 2009.
 195. Advances in Wound Care. Amedysis wound care conference for home health nursing. Cannonsburg, PA June 3, 2009.
 196. Introduction to Hyperbaric Medicine Course for UHMS Certification. June 25-28. Tulsa Oklahoma.
 197. How to Effectively Manage Your Wound Care Center and Overcoming Challenges with the Center's Budget: Pre-Conference Workshop (Four Hours). World Research Congress and American College of Hyperbaric Medicine. Chicago, IL. June 30, 2009.

198. Integrating new technologies into the wound care center. World Research Congress and American College of Hyperbaric Medicine. Chicago, IL. June 30, 2009.
199. Hyperbaric Oxygen Practice. Questions and Answers. World Research Congress and American College of Hyperbaric Medicine. Chicago, IL. July 1, 2009.
200. Wound Healing. Weigao Wound Care Conference. Weihai, China. July 11, 2009. Visiting Professor lecture.
201. Bacterial burden and the action for topical Antimicrobials in chronic wounds. Proposed Medicare Coverage for Antimicrobial Wound Care Dressings meeting. Columbia, SC. August 7, 2009.
202. The Evidence for Non-Thermal Non Contact Ultrasound in wound healing and Bacterial Reduction. Chicago, IL. August 12, 2009.
203. Critical Limb Ischemia. Pre-Conference Clinical Symposium for Advances in Skin and Wound Care. October 22, 2009. San Antonio, Tx.
204. Pressure Ulcer Assessment: Is It a Pressure Ulcer or Something Else? A WebEx presentation sponsored by Quality Insights of Pennsylvania. September 23, 2009.
205. The Crucial Role of Hyperbaric Medicine in Limb Salvage. Lunch and Learn. September 25, 2009. Scranton, PA.
206. For All The Wounds I've Loved Before: unusual wounds. Clinical Symposium for Advances in Skin and Wound Care. October 22, 2009. San Antonio, Tx.
207. Infection and Antimicrobials in Chronic Wounds. Mt Nittany Medical Center Conference. October 30, 2009. State College, PA.
208. Advanced Wound Care. Mt Nittany Medical Center Conference. October 30, 2009. State College, PA.
209. The financials & driving the Wound Care Center's P&L: Maximizing the Revenue while Decreasing the Expense of Comprehensive Wound Care Centers. 3 hr. Workshop. World Research Group Conference Orlando, FL. January 25, 2010.
210. Expert Panel on Hyperbaric Medicine. World Research Group Conference Orlando, FL. January 26, 2010.

211. Evidence-based treatment of Venous Disease. Southwest General Hospital's 8th Annual Wound Management Conference. San Antonio, TX. March 5, 2010.
212. Peripheral Arterial Disease. Preconference. American Professional Wound Care Association. Philadelphia, PA. April 8, 2010.
213. Hyperbaric Oxygen. American Professional Wound Care Association. Philadelphia, PA. April 10, 2010.
214. All my trials and Tribulations. American Professional Wound Care Association. Philadelphia, PA. April 11, 2010.
215. Current Wound Care Practices. Sanofi-Aventis advisory meeting on chronic wounds. Orlando, FL. April 15, 2010.
216. Poster Grand Rounds. Symposium on Advanced Wound Care/Wound Healing Society annual meeting. Orlando, FL. April 18, 2010.
217. Meet the Mentors presentation. Symposium on Advanced Wound Care/Wound Healing Society annual meeting. Orlando, FL. April 18, 2010.
218. The Wound Care Pipeline. Symposium on Advanced Wound Care/Wound Healing Society annual meeting. Orlando, FL. April 19, 2010.
219. Practical and Advanced Aspects of Negative Pressure Wound Therapy. Post course. Symposium on Advanced Wound Care/Wound Healing Society annual meeting. Orlando, FL. April 20, 2010.
220. Introduction to Wound Care. Certification course. 8 lectures. Key Largo, FL. May 22, 2010.
221. Introduction to Hyperbaric Medicine. Basic Course for Certification. 12 lectures. Key Largo, FL. May 23-27, 2010.
222. All my Trials and Tribulations. Advanced Biohealing Principle Investigator's Meeting. Krakow, Poland. May 29, 2010.
223. The Financials & Driving the Wound Center's P&L: Maximizing the Revenue While Decreasing the Expense of Comprehensive Wound Care Centers. World Research Group/American College of Hyperbaric Medicine meeting. San Diego, CA. June 22, 2010.
224. A NOVEL treatment for Venous Leg Ulcerations. Domain Investments meeting. San Diego, CA. July 6, 2010.

225. Moderator. Comparative Effectiveness Research. CMTF Meeting. Baltimore, MD. June 20, 2010.
226. The Antimicrobial Effects of Non-Contact, Low Frequency Ultrasound. Del Ray Beach, FL. July 27, 2010.
227. Nueva tecnología en heridas: Noticias desde la "Wound Healing Society" Fourth International Congress of the Mexican Association for Comprehensive Care and Wound Healing AC (AMCICHAC) Acapulco, Guerrero, Mexico. Sept 2-5, 2010.
228. La importancia de las biopelículas en las heridas crónicas. Fourth International Congress of the Mexican Association for Comprehensive Care and Wound Healing AC (AMCICHAC) Acapulco, Guerrero, Mexico. Sept 2-5, 2010.
229. Mesa de discusión: lo último de las biopelículas. Fourth International Congress of the Mexican Association for Comprehensive Care and Wound Healing AC (AMCICHAC) Acapulco, Guerrero, Mexico. Sept 2-5, 2010.
230. Iniciando una clínica de heridas privada. Fourth International Congress of the Mexican Association for Comprehensive Care and Wound Healing AC (AMCICHAC) Acapulco, Guerrero, Mexico. Sept 2-5, 2010.
231. Entendiendo y manejando la isquemia crítica. Fourth International Congress of the Mexican Association for Comprehensive Care and Wound Healing AC (AMCICHAC) Acapulco, Guerrero, Mexico. Sept 2-5, 2010.
232. Clinical Trials in Venous Disease. Erie, PA. Sept. 9, 2010.
233. Assessing the microcirculation. Clinical Symposium on Advances in Skin and Wound Care. Orlando. Sept 30 2010.
234. Wound Healing at a Cellular Level. Clinical Symposium on Advances in Skin and Wound Care. Orlando. Sept 30 2010.
235. Hyperbaric Oxygen and Advanced Wound Care Technologies. Miami Valley Hospital Wound Care Symposium. Dayton, OH. Oct. 7th 2010.
236. Introduction to Wound Care and Hyperbaric Medicine training. Milwaukee. WI. October 10, 11, 13 and 14, 2010.
237. Non-Invasive Vascular Assessment. American College of Hyperbaric Medicine Annual Meeting Milwaukee, WI. October 15, 2010.

238. Creating a Comprehensive Wound and Hyperbaric Program. American College of Hyperbaric Medicine Annual Meeting Milwaukee, WI. October 15, 2010.
239. Developing a financially viable center of excellence. American College of Hyperbaric Medicine Annual Meeting Milwaukee, WI. October 16, 2010.
240. Registries in Wound Care and Hyperbaric Medicine. American College of Hyperbaric Medicine Annual Meeting Milwaukee, WI. October 16, 2010.
241. The American College of Hyperbaric Medicine Diabetic Foot Ulcer Registry. American College of Hyperbaric Medicine Annual Meeting Milwaukee, WI. October 16, 2010.
242. Evidence that Demands a Verdict, Hyperbaric Oxygen Therapy for Diabetic Foot Ulcers. 6th annual Wentworth-Douglas Wound Care Symposium. Somersworth, NH. October 21, 2010.
243. Indications, Techniques and Results of Hyperbaric Oxygen Therapy. 3rd Annual Overlook Hospital Symposium on Wound Healing & Hyperbaric Medicine. Summit. NJ. October 29, 2010.
244. The Scientific Basis for Hyperbaric Oxygen Therapy. Desert Foot 2010 Conference. Scottsdale, AZ. November 18, 2010.
245. Surgical Management of the "Other" Vascular Disease. Desert Foot 2010 Conference. Scottsdale, AZ. November 18, 2010.
246. Evidence that Demands a Verdict. Invited Grand Rounds. Scranton Community Medical Center. Scranton, PA. December 7, 2010.
247. A Review of Advanced Wound Care. Invited presentation. Bridgewater, NJ. December 7, 2010.
248. Kaypto. A Novel Negative Pressure Device. Presentation for Centers for Medicare Services. Baltimore, MD. December 10, 2010.
249. Evidence that demands a verdict. Superbones East. Nassau, Bahamas. January, 15 2011.
250. Understanding the role of Clinical Research and Registries to Develop a profitable Wound and Hyperbaric Center. World Research Group. Orlando, FL. January 25, 2011.
251. Wound assessment and Diagnostics. Wound International Meeting 2011. Cape Town. South Africa. February 1, 2011.

252. Wound assessment and Diagnostics. Wound International Meeting 2011. Cape Town. South Africa. February 2, 2011.
253. Introduction to Hyperbaric Medicine. Tulsa, OK. February 27- March 3rd 2011.
254. Evidence that demands a Verdict. Tulsa, OK. Invited dinner meeting. March 2, 2011.
255. Wound Healing in Three Acts. St. Johns 1st Annual Wound and Hyperbaric Conference. Tulsa, OK. March 4, 2011.
256. History of Human Experimentation. Research in Wound Healing Course. Key Largo, FL. March 11, 2011.
257. All My Trials and Tribulations. Research in Wound Healing Course. Key Largo, FL. March 11, 2011.
258. Developing a Protocol for Wound Healing. Research in Wound Healing Course. Key Largo, FL. March 11, 2011.
259. Connexin 43 in Wound Healing. American Professional Wound care Association annual meeting. Philadelphia, PA. April 1, 2011.
260. POWER guidelines for research in wound healing. American Professional Wound care Association annual meeting. Philadelphia, PA. April 2, 2011.
261. Bench to the bedside. Panel discussion. American Professional Wound care Association annual meeting. Philadelphia, PA. April 2, 2011.
262. The HVO/Global Volunteers Pre-conference. Moderator. Symposium for Advanced Wound Care. Dallas, TX. April 14, 2011
263. HVO/Global Alliance Volunteer Opportunities/Teaching and Enjoying the Volunteer Experience. Symposium for Advanced Wound Care. Dallas, TX. April 14, 2011.
264. For all the Wounds I have Loved Before. Trident, Legends in Wound Care Lecture. Symposium for Advanced Wound Care. Dallas, TX. April 14, 2011
265. Research to Practice. Meet the Mentors. Wound Healing Society. Symposium for Advanced Wound Care. Dallas, TX. April 15, 2011
266. AAWC Poster Grand Rounds. Symposium for Advanced Wound Care. Dallas, TX. April 15, 2011

267. All My Trials and Tribulations. Symposium for Advanced Wound Care. Dallas, TX. April 15, 2011
268. An Invitation to Global Volunteerism: healing wounds throughout the world. Symposium for Advanced Wound Care. Dallas, TX. April 16, 2011.
269. The use of Antimicrobials in Diabetic Foot Ulcers. Grand Rounds. New Dehli. India. April 26, 2011.
270. The use of Antimicrobials in Diabetic Foot Ulcers. Grand Rounds-II. New Dehli. India. April 26, 2011.
271. The use of Antimicrobials in Diabetic Foot Ulcers. Grand Rounds, Columbia Hospital. Bangalore, India. April 27, 2011.
272. The use of Antimicrobials in Diabetic Foot Ulcers. Grand Rounds, Maxipal Hospital. Bangalore, India. April 27, 2011.
273. The use of Antimicrobials in Diabetic Foot Ulcers. Grand Rounds, Diabetic Clinic. Bangalore, India. April 27, 2011.
274. Introduction to Hyperbaric Medicine. UHMS Introductory Course. Livonia MI. April 29 – May 2, 2011.
275. Experience with Anti-sense Connexin 43. PI meeting. Las Vegas, NV. May 7, 2011.
276. Iniciando una clinica de heridas. XLII Congreso Nacional de Cirugía Plástica, Estética y Reconstructiva. May 12, 2011.
277. Negative Pressure Wound Therapy. XLII Congreso Nacional de Cirugía Plástica, Estética y Reconstructiva. May 12, 2011.
278. Acute Wound Healing Model. XLII Congreso Nacional de Cirugía Plástica, Estética y Reconstructiva. May 12, 2011.
279. Healing the Wounds of the World. Fort Collins Wound Symposium. Fort Collins, CO. may 20, 2011.
280. Diagnostics. European Wound Management Association. Brussels, Belgium. May 26, 2011.
281. Diagnostics - II. European Wound Management Association. Brussels, Belgium. May 26, 2011.

282. NOVEL clinical trial. The efficacy of Nexagon in Venous Leg Ulcers. European Wound Management Association. Brussels, Belgium. May 27, 2011.
283. Wound Healing Section, Panel Discussion. New Cardiovascular Horizons. New Orleans, LA. June 3, 2011.
284. Conducting Research in Wound Healing. New Cardiovascular Horizons. New Orleans, LA. June 3, 2011.
285. Experience with the Kalypto Negative Pressure Wound Therapy System. Centers for Medicare Services. Baltimore, MD. June 7, 2011.
286. Diagnostics: a review of current evidence. Molnlycke Clinical Advisory Board. New Orleans, LA. June 9, 2011.
287. Evidence that Demands a Verdict: The use of Hyperbaric Oxygen in Wound Healing. Grand Rounds, Melrose Wakefield Hospital. Melrose, MA June 15, 2011.
288. Evidence that Demands a Verdict: The use of Hyperbaric Oxygen in Wound Healing. Grand Rounds, Lawrence Memorial Hospital. Medford, MA June 21, 2011.
289. Key Decision Tools when Choosing a Management Company. World Research Group. Chicago, IL. June 22, 2011.
290. Transitional Hyperbaric Services. World Research Group. Chicago, IL. June 22, 2011.
291. The Business of Running a Hospital-Based Wound Center. World Research Group. Chicago, IL. June 23, 2011.
292. Evidence that Demands a Verdict. Brain-Food Lecture. Armstrong County Memorial Hospital. July 12, 2011.
293. Introduction to Hyperbaric Medicine. Introductory UHMS course. Brooklyn, NY. July 13 -16, 2011.
294. Principles of Wound Care in the Long Term Care Setting. American Medical Directors Regional Meeting. Lisle, IL. July 16, 2011.
295. Evidence that Demands a Verdict. Brain-Food Lecture. Armstrong County Memorial Hospital. July 19, 2011.
296. Introduction to Hyperbaric Medicine. UHMS Introductory Course. Tulsa

OK. August 19 - 22, 2011.

297. Biological Skin Substitutes. Midwest Undersea and Hyperbaric Medicine Regional Conference. Milwaukee, MI. August 26, 2011.
298. Advances in Hyperbaric Oxygen Therapy. Midwest Undersea and Hyperbaric Medicine Regional Conference. Milwaukee, MI. August 26, 2011.
299. Experience with the Kalypto Negative Pressure Wound Therapy System. Centers for Medicare Services. Baltimore, MD. August 30, 2011.
300. Limb Preservation and Wound Care. Radio Interview. 96KIX. Dunkirk, NY. August 31, 2011.
301. Aches and Pains in the Pipes and Drains. Clinical Symposium on Advances in Skin and Wound Care. Washington, DC. September 10, 2011.
302. Diagnostics. Clinical Symposium on Advances in Skin and Wound Care. Washington, DC. September 10, 2011.
303. Healing what's Down the Road? Clinical Symposium on Advances in Skin and Wound Care. Washington, DC. September 12, 2011.
304. A Case-Based Approach to Advanced Wound Care. American Medical Director's Association Annual Meeting. Cambridge, MA. September 24, 2011.
305. Healing the World. Symposium for Advanced Wound Care - Fall. Las Vegas, NV. October 14, 2011.
306. Poster Grand Rounds. Symposium for Advanced Wound Care - Fall. Las Vegas, NV. October 14, 2011.
307. Diagnostics. Symposium for Advanced Wound Care - Fall. Las Vegas, NV. October 15, 2011.
308. Diagnostics and Theranostics in Wound Care: the future is now. Wentworth-Douglass Hospital 7th Annual Wound Care Symposium. October 20, 2011.
309. Hyperbaric Oxygen in the Treatment of Osteomyelitis. Save a Limb Save a Life Annual Symposium. Orlando, FL. October 28, 2011.
310. Diagnostics and Theranostics in Wound Care Save a Limb Save a Life Annual Symposium. Orlando, FL. October 28, 2011.
311. Evidence that Demands a Verdict: The use of Hyperbaric Medicine in

Wound Healing. 4th Annual Overlook Medical Center Symposium on Wound Healing & Hyperbaric Medicine. November 4, 2011.

312. Hyperbaric Oxygen Hype or Helpful? Desert Foot. Phoenix, AZ. November 17, 2011.

313. Introduction to Hyperbaric Medicine. UHMS Introductory Course. December 1 – 5, 2011.

TES/DEC, 2011.