

CURRICULUM VITAE

THOMAS E. SERENA, M.D., F.A.C.S.

BIRTHDATE: January 23, 1959

MARITAL STATUS: Married, Three Children

EDUCATION: The College of William & Mary 1977-82
Williamsburg, VA
BS – Biology (Highest Honors)

The Penn State University 1982-86
School of Medicine
The Hershey Medical Center
Hershey, PA

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
Springfield, IL

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

Founder and Medical Director
Penn North Centers for Advanced Wound Care
1999-Present

Penn North Centers for Advanced Wound Care
Central Office,
552 Quaker Hill Rd.
Warren, PA 16365

Wound Clinics

Armstrong County Memorial Hospital
2004-present
One Nolte Drive
Kittanning Pennsylvania 16201

Bradford Regional Medical Center 2004-present
116 Interstate Parkway
Bradford, PA 16701-0281

Elk Regional Health Center 2002-present
763 Johnsonburg Rd.
St. Marys, PA 15857-3498

UPMC-Northwest 2003-present
 1 Spruce St
 Franklin PA 16323

UPMC Horizon: Greenville 2004-present
 110 North Main St
 Greenville, PA 16125

UPMC Horizon:Shenango Valley 2004-present
 2200 Memorial Drive
 Farrell, PA 16121

Bradford Regional Medical Center 2004-present
 116 Interstate Parkway
 Bradford, PA 16701-0281

Union City Memorial Hospital 2004-present
 130 N Main St
 Union City Pennsylvania 1643

ACADEMIC APPOINTMENTS:

Assistant Professor, Gannon University
 Lecturer and Research Coordinator
 Physician Assistant Department
 Gannon University, Erie, PA

Faculty, Angiogenesis Foundation
 Cambridge Mass.

CERTIFICATION:

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

LICENSES:

Pennsylvania MD038905E
 New York 228580
 Ohio 83627

FELLOWSHIP:

Fellow American College of Surgeons 1995

Fellow American Professional Wound Care
 Association 2003

HONORS & AWARDS:

Alpha Lambda Delta
 Freshman Honor Society
Sigma Chi
 Biology Honor Society
Phi Beta Kappa

GYMNASTICS:

Eleven Time Individual State Champion
Team Captain 1981 & 1982
All American NCAA Gymnast 1982

William & Mary Scholar Athlete of the
Year Award 1982

Hall of Fame, William & Mary 1999

PRESENTATIONS

“The Neighborhood Size of the Parasitic Jewel Wasp
(Nasonia Vitrpennis)” 1982
Highest Honors Presentation
The College of William & Mary
Williamsburg, VA

“The Effect of Nadolol and Proarolol on Plasma
Lidocaine Clearance.” 1984
Problem Solving Project
Penn State University School of Medicine

“Graves Disease: A Surgical Prospective” 1990
Hershey Surgical Society, Hershey, PA

“My Trauma Experience and Myocardial Contusion at the
Penn State School of Medicine.” 1991
Hershey Surgical Society, Hershey, PA

“The Right Stuff, Nobel Prize Winning Surgeons” 1991
Hershey Surgical Society, Hershey, PA

“Limited Arthrodesis for the SLAC Wrist” 1992
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

PUBLICATIONS

1. 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

2. "Josephine," WILD ONIONS: 4:38-39, 1990
(Wild Onions is an annual Literature-In-Medicine publication)
3. "The Scoop on the Scope," Seniors Today February 1998
4. "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.
5. "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.
6. "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.
Published in *Wound Repair and Regeneration*. Volume 7 Issue 3 Page 131-195 May 1999.
7. "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.
8. "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.
9. "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.
10. 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.
- 11 "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.
12. Large, Recurrent Venous Leg Ulcers. A case Study. A teaching monograph published by Novartis Pharmaceuticals.
- 13 "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.

14. "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.
- 15 "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.
16. "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.
17. "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.
18. "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.
19. "The Use of Platlet-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.
20. "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.
21. "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.
22. " 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.
23. 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.
24. 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.

25. 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.

27. 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.

28. 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.

29. 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.

30. 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.

31. 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.

32. 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.

33. 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.

34. 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.

35. 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.

36. 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.

37. 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

38. Serena TE. Bacteria, Infection and Topical Antimicrobials in Chronic Wounds. Podiatry Management July 2004.

39. Healing of Chronic Venous Ulcers Is Not Enhanced by the Addition of Topical Repifermin (KGF-2) to Standardized Care Martin C. Robson, MD, Jason Hanfnt, 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.

40. 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.

41. Planned Serial Debridement. Thomas E. Serena MD FACS. *Synergy* Vol. 1. Issue 3. pp. 11. Spring-Summer 2004.

42. 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.

43. 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
To be presented at the American Academy of Dermatology, 2005.

44. Featured Article "Becaplermin Beat Bacitracin In Wound Healing Study" Kerri Wachter. *Dermatologic Therapy*. A review of my research with becaplermin and acute wound healing.

CLINICAL TRIAL EXPERIENCE:

Certificate of Training for Medical Research July 2003

NIH certification 2004

1. Principal 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. Principal 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. 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. Highest enrollment in trial.

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 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. 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.

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.

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. In follow up.

11. Protocol Author and Lead Investigator.

The Determination of Persistence of Apligraf in Chronic Wounds using Polymerase Chain Reaction Technology. In progress

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. Opened in 2004.

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. Pending IRB approval.

14. Protocol Author and Lead Investigator

Sulbogin/ SUILE (Ointment) Wound Dressing in the Treatment of Wagner Grade II Diabetic Foot Ulcerations. Protocol still under preparation and review.

15. Principle Investigator

A Randomized, Blinded Assessor, Placebo Controlled Study of NVC-101 in the Treatment of Chronic Non-Healing Venous Stasis Ulcers. Scheduled to begin winter of 2004 or early 2005.

16. Principle Investigator

A Phase 3, Randomized, Double-Blind, Multinational Trial of Intravenous Telavancin Versus Vancomycin for Treatment of Complicated Gram-Positive Skin and Skin Structure Infections with a Focus on Patients with Infections Due to Methicillin-resistant Staphylococcus aureus. . Scheduled to begin 2005. Has received IRB approval.

17. Principle Investigator

A prospective Randomized, Controlled Pivotal Study of Apligraf for the Treatment of Pressure Ulcers. Reply letters sent to FDA. Awaiting FDA final approval to proceed.

18 Principal Investigator

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

19. Principal Investigator

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

PROFESSIONAL SOCIETIES AND ORGANIZATIONS

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-Present
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
President, Warren County Medical Society	2001- Present

COMMITTEE MEMBERSHIPS

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
Under 14 Age Group Commissioner Northwest District Pennsylvania West Soccer	1997 – 1998
Marine Corps Marathon	1995 & 1996
Buffalo Marathon	1998
Boston Marathon	2000
Pittsburgh Marathon	2002

NATIONAL ORGANIZATION COMMITTEE MEMBERSHIP

Membership Committee, Wound Healing Society	2002-Present (acting Chairman 2003)
Board of Directors, Wound Healing Society	2003-Present
Co-Founder, Wound Healing Cooperative Group	2003
Chairman, Clinical Trials Course Wound Healing Society	2004
Lecturer Wound Care course, American College of Surgeons	2004

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

CONSULTANT AND BOARDS

Ortho McNeil, Speaker's Bureau and consultant 1997-2003

Johnson & Johnson Wound Management Worldwide, Consultant, speaker's Bureau

Novartis, Consultant and Speakers Bureau

Consultant New Alliance HMO

Otsuka Pharmaceuticals: Speaker's Bureau, Consultant.

Medline Industries

Smith and Nephew

WOUND CARE 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 Platlet-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 Platlet-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 Becaplermin 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.

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