

## CURRICULUM VITAE

Sept. 10, 2008

**NAME:** Frederick A. Kuhn, M.D., F.A.C.S.  
Director, Georgia Nasal & Sinus Institute  
Adjunct Professor of Otolaryngology,  
University of North Carolina

**BUSINESS ADDRESS:** Georgia Nasal & Sinus Institute, P.C.  
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Savannah, GA 31404  
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(912) 355-9773 (Fax)

**PLACE OF BIRTH:** Oklahoma City, Oklahoma

**CITIZENSHIP:** United States of America

### **EDUCATION:**

**High School** Classen High School, Oklahoma City, 1953-1955  
Northwest Classen High School, Oklahoma City, 1955-1956

**College** Westminster College, Fulton, Mo. 1956-1958  
Major: Chemistry and Physics

University of Oklahoma, Norman, Oklahoma, 1958-1962  
B.S. Chemical Engineering

**Graduate School** University of Oklahoma School of Medicine, 1962-1966  
Doctor of Medicine

### **POST GRADUATE TRAINING:**

**Internship** University of Oklahoma Teaching Hospitals, Oklahoma City,  
Oklahoma, Straight Surgery Intern 1966-67

**Residency** St. Lukes Hospital, St. Louis, Mo., 1967-1968  
Resident, General Surgery

Barnes Hospital, Washington University School of Medicine  
St. Louis, Mo.  
1968-1973, Resident, Otorhinolaryngology

1973-1974, Chief Resident, Otorhinolaryngology

**BOARD CERTIFICATION:** American Board of Otolaryngology - 1972

**MILITARY SERVICE:** Major, U.S. Army Medical Corps, U.S. Army Hospital, Augsburg, Germany, Chief of Otolaryngology Service 1972-1974

**ACADEMIC APPOINTMENTS:** Associate Clinical Professor of Otolaryngology, University of Oklahoma School of Medicine, 1974-1991

Associate Professor of Surgery/Otolaryngology, Medical College of Georgia, April 1991 - June 1994

Professor of Surgery/Otolaryngology, Medical College of Georgia, July 1, 1994 - July 1, 1995

Professor of Otolaryngology/HNS, University of North Carolina, December 2004 to present

**EMPLOYMENT HISTORY:** Private Practice/Otolaryngology, Oklahoma City, Oklahoma 1974-1991

Professor of Surgery July 1, 1994-June 30, 1995  
Associate Professor of Surgery, April 22, 1991-June 30, 1994  
Department of Surgery/Otolaryngology  
Medical College of Georgia, Augusta, Georgia. 1991-1995

Director, Georgia Rhinology and Sinus Center  
Georgia Ear Institute, Memorial Medical Center  
Savannah, Georgia. 7-1-1995 – 6-30-1999

Director, Georgia Nasal & Sinus Institute, P.C.  
Savannah, Ga. 7-1-1999 - present

**AWARDS:** **The Distinguished Service Award, AAO/HNS (2003)**, September 21, 2003, Orlando, Fla.

**The Golden Head Mirror Award (2002)**, The American Rhinologic Society's Award for excellence in teaching, presented May 4, 2003, Nashville, Ten.

**The Gerald S. Gussac Award (2002)**, The Georgia Society

of Otolaryngology/HNS Society's award for excellence in teaching, presented July 2002, Destin, FL

The **Maurice H. Cottle Award (2000)** for Basic Science Research in Rhinology. International competition, presented at the Nose 2000 and Beyond. September 2000, Washington, D.C. **Capsaicin's Effect on Trigeminal Nucleus Substance P Release after Noxious Nasal Stimulus.**

**Case of the Millenium, Silver Medal,** The Nose 2000 and Beyond, Washington D.C., September 2000.

The **Maurice H. Cottle Award** for **Basic Science Research (1996)** presented by The American Rhinologic Society: **Capsaicin's Effect on Rat Nasal Mucosa Substance P Release.** September 28, 1996

**American Academy of Otolaryngology/HNS Honor Award** for Service to the Academy. September 17, 1995, New Orleans, LA

**Second Prize: Residents Competition - Basic Science Research** "A Comparison of Nomarski Differential Interference Contrast and Phase Contrast Microscopy of the Guinea Pig Organ of Corti." Paper, American Academy of Ophthalmology and Otolaryngology, 1970.

**Best Doctors in America** - 1994, 1995-2007

**Best Doctors in the Southeast** – 1997-2007

**ADMINISTRATIVE RESPONSIBILITIES/APPOINTMENTS:**

**Board of Trustees Saint Andrew's School** 2006-present  
Past President, American Rhinologic Soc. 2002-2003  
Immediate Past President, ARS 2001-2002  
**President**, American Rhinologic Society. 2000-2001  
President Elect, Amer. Rhinologic Soc. 1999-2000  
1<sup>st</sup> Vice President Amer. Rhinol. Soc. 1998-1999  
2<sup>nd</sup> Vice President Amer. Rhinol. Soc. 1997-1998

Board of Directors - American Rhinologic Society (ARS), 1994-1997

Consultant, ARS, Board of Directors 1992-1994

AAO/ARS meeting with CMS May 2003, ARS representative – made the presentation to CMS arguing Academy’s position regarding lack of need for new endoscopic debridement code.

## **Fellowship Director, Rhinology and Sinus Fellowship**

### **Georgia Nasal & Sinus Institute 1999-present**

**2009 Fellow:** Carlos Ebert

**2008-2009 Fellow:** Karen Bednarski

**2007-2008 Fellow:** Yvonne Y. Chan, Univ. of Toronto

**2006-2007 Fellow:** Christopher T. Melroy, Georgia Nasal & Sinus Institute, Savannah, Georgia.

**2005-2006 Fellow:** Shridhar Ventrapragada, Lahey Clinic

**2004-2005 Fellow:** Marc G. Dubin, M.D., Asst. Professor of Otolaryngology, Johns Hopkins University, Baltimore, Md., July 1, 2005 -

**2002-2003 Fellow:** Boris I. Karanfilov, M.D., Columbus, Oh

**2001-2002 Fellow:** Ronnie E. Swain, M.D., Mobile, Al.

**2000 - 2001 Fellow:** James N. Palmer, M.D., Assoc... Prof. of Otolaryngology, Univ. of Pa.

**2000 Fellow (Feb.-Sept.):** Bill W. Berry, M.D., Portsmouth, Va.

### **Georgia Rhinology and Sinus Center of the Georgia Ear Institute Memorial Medical Center, 1996-1999**

**1998/1999 Fellow:** Amin R. Javer, M.D. Assistant Professor, University of British Columbia 2000-present

Director, UBC Sinus Center

**1997 Fellow:** Winston C. Vaughn, MD, Asst. Professor, Dept. of Otolaryngology, Stanford University Director, Stanford Sinus Center 1998-2005

**1996 Fellow:** Martin J. Citardi, MD, Yale University; Asst. Professor of Otolaryngology, St. Louis University St. Louis, Mo. 1997-2001

Professor and Director of Rhinology, The Cleveland Clinic Foundation, 2001- present

Professor and Chairman Department of Otolaryngology, The University of Texas, Houston Medical Branch, 2008-

## **Director, Rhinology and Sinus Section & Fellowship Medical College of Georgia 1991-1995**

**1994 Fellow:** Arthur P. Wood, MD, Private Practice,

Youngstown, Ohio

**1993 Fellow:** Michael J. Sillers, MD, James Hicks  
Professor of Rhinology University Alabama, Birmingham

**Research Fellows:**

**1994:** Sergio Gonzales, MD  
Magdalena Rodrigues, MD  
Univ. of Nuevo Leon Monterrey, Mexico  
William J. Fravel, MD, University of Virginia  
Kung Rae Kim, MD, Korea  
**1993:** Carlos Cuiilty-Siller, MD, Monterrey, Mexico

Editorial Board - American Journal of Rhinology, 1994 – 1996

Chairman, Long Range Planning Committee, ARS 1996-2000.

AAO/HNS CPT Coding Committee 1995-1998,  
Chairman - 1998-2001

AMA CPT Advisory Committee 1999 – 2001

ARS/AAO-HNS (American Academy of Otolaryngology - Head and Neck Surgery) Sinus Surgery CPT Coding Committee - Interact with HCFA to Correct Errors in Sinus Surgery RBRVS, 1993 - 1995

AAO/HNS Committee on National CPT Rebundling Council, 1994 - 1995

AAO/HNS Rhinology and Paranasal Sinus Committee – 1991-1994. 1994-1997, reappointed to 2nd three year term.

Organizing Committee, 1st International Advanced Sinus Symposium, Vienna, Austria, July 1992

Organizing Committee, 2nd International Advanced Sinus Symposium, Philadelphia, PA, July 1993

Organizing Committee, 3rd International Advanced Sinus Symposium, Cairns, Australia, August 1995

Organizing Committee, Cottle Centennial Symposium/XVI  
ISIAN, June 4-6, 1997, Philadelphia

**COMMITTEE ASSIGNMENTS:** Infection Control Committee Memorial Health University  
Medical Center, Savannah, Ga. 2002, 2003

AAO/HNS Practice Expense Value Task Force – ARS  
representative 2001, 2002

AAO/HNS-CPT Coding Committee 1995 -1998  
Chairman, 1998-2001

AMA CPT Advisory Committee 1998-2001

AAO/HNS Rhinology and Paranasal Sinus Committee, 1991-  
1994. Reappointed to 2nd three year term 1994-1997.

AAO/HNS-Physician Resources (Manpower) Committee,  
1994-1997. Reappointed 1998-2000

AAO/HNS-Credentials and Membership Committee 1994-  
1997. Reappointed 1998-2000

American Rhinologic Society - Think Tank/Long Range  
Planning Committee, 1994-

Consultant to American Rhinologic Society Board of  
Directors, 1993-1994

Laser Committee, Medical College of Georgia, 1991-1993,  
Chairman 1993-1995

Ways and Means Committee of Physicians Practice Group,  
MCG 1993-1994

Chairman Member Services Committee, Oklahoma County  
Medical Society, 1989-1991

Chairman Laser Committee Deaconess Hospital, Oklahoma  
City, 1988-1991

Laser Committee, Baptist Medical Center of Oklahoma 1987-1991

Medical Education Committee, Baptist Medical Center of Oklahoma, 1980-1990

Operating Room Committee, Baptist Medical Center of Oklahoma, 1976-1986

**RESEARCH PROJECTS:**

Completed

Serum levels of beta methasone with nasal nebulized delivery system. Submitted 2002, reviewed, in revision

Trigeminal Nucleus Substance P Release, Response to Noxious Nasal Stimulus (pinch, formalin and capsaicin) - Completed,  
Manuscript submitted and reviewed, in revision.

Autoradiographic Localization of Neuro Peptide Receptors, in Human and Rat Nasal Mucosa - Completed, Manuscript submitted and reviewed, in revision

Trigeminal Subnucleus Substance P release (oralis, Interpositis, caudalis) - Completed, Manuscript accepted as Triologic Thesis

Intra Nasal Capsaicin's effect on Trigeminal Nucleus Substance P Release - Completed, Manuscript accepted as Triologic Thesis

Intra Nasal Capsaicin's effect on Nasal Secretion Substance P levels - Completed, Manuscript accepted for publication *American Journal Rhinology*. **Maurice H. Cottle Award**. Allergic Fungal Sinusitis (AFS)

- a.) Antifungal Sensitivities of AFS Patient's Fungi - presented, Manuscript published
- b.) ECP Levels in AFS Patient's Allergic Mucin and Serum - Manuscript published
- c.) AFS Treatment Protocol: Prednisone Dose and Duration/Mucosal Response - Manuscript submitted, reviewed, published.

Current

The Frontal Sinus and its Drainage Pathways  
 The Effect of Topical Nasal Capsaicin on Rhinogenic Headache  
 The Neuro Transmitters of the Nasal Mucosa  
 Nasal Pain Transmission  
 Prevention of granulation tissue and stenosis of the frontal sinus ostium after frontal sinus surgery

**SOCIETY AFFILIATION:**

American Academy of Otolaryngology  
 The Triologic Society  
 American Rhinologic Society  
 American Bronchoesophagologic Society  
 American Academy of Otolaryngologic Allergy  
 American College of Surgeons  
 The Georgia Medical Society  
 American Medical Association  
 Oklahoma State Medical Association (inactive)  
 Oklahoma County Medical Society (inactive)  
 Oklahoma Academy of Otolaryngology (inactive)  
 The Society of Minimally Invasive Therapy

**PAPERS PRESENTED:**

1. An Analysis of the Causes of Recurrence of Sinus Disease following Ethmoidectomy. Presented at the VIII International Symposium on Infection and Allergy in the Nose. Baltimore 1989
2. The Agger Nasi Cell in Frontal Recess Obstruction. Presented at the First Contemporary Sinus Surgery Symposium, Pittsburgh, Pa. November 1990
3. Zenker's Diverticulotomy with the KTP Laser. Presented at the Southern Section Meeting of the Triologic Society, Sea Island, Ga. January 1992
4. Selective Intra Nasal Topical Anesthesia for the Localization of Headache. Presented at the Triologic Society, Desert Springs, Ca. April 1992
5. Anatomy, Functional Endoscopic Surgery and Post Operative Care of the Frontal Sinus, Presented at the American Rhinologic Society, Desert Springs, Ca. April 1992
6. Anatomy of an Endoscopic Hypophysectomy. Presented at Southern Section Triologic, West Palm Beach, FL. January 1993



7. Surgical Failures, Revision Surgery and Complications in FESS for Massive Nasal Polyposis and Fungal Sinusitis. Presented at Joint Meeting of the American Rhinologic Society and the AAOA, Los Angeles, Ca., April 1993
8. Transmucosal Cricopharyngeal Myotomy for Cricopharyngeal Dysmotility with KTP Laser. Presented at ABEA Meeting, Los Angeles, Ca., April 1993
9. The Frontal Cell in Frontal Sinus Obstruction. Presented at the Second International Sinus Symposium, Phil, Pa., July 1993
10. 3-Dimensional Imaging in the Management of Chronic Frontal Sinusitis. Presented at the Second International Sinus Symposium, Phil., Pa., July 1993
11. Cataract Risk and Corneal Radiation Exposure in Thin Section Axial CT Scan. Presented at the American Rhinologic Society, Minneapolis, MN, September 1993
12. Demystifying the Maxillary Sinus Ostium. Presented at the American Rhinologic Society, Minneapolis, MN, September 1993
13. The Diagnosis of Allergic Fungal Sinusitis. Presented at the AAO/HNS Meeting, Minneapolis, MN, October 1993
14. A Classification of Allergic Fungal Sinusitis. Presented at the AAO/HNS Rhinology and Paranasal Sinus Committee on Fungal Sinusitis, Minneapolis, October 1993
15. Southern Section, Triologic Society, Marco Island, January 1994:
  - 1) CT Scan, Corneal Radiation Exposure - A Comparison of Techniques
  - 2) The Above and Below Approach to Chronic Frontal Sinusitis: Alternatives to Obliteration.
16. Eastern Section, Triologic Society, Ottawa Canada, January 1994. Three Dimensional Imaging in Sphenoid Sinus Surgery.
17. American Rhinologic Society, West Palm Beach, FL, May 1994:
  - 1) The Supra Orbital Ethmoid Cell in Frontal Sinus Obstruction
  - 2) Trigeminal Ganglion Substance P Release in Response to Noxious Nasal Stimulus
  - 3) The Transconjunctival Approach to the Lateral Orbital Floor: A Technique to Augment Endoscopic Orbital Decompression
18. American Rhinologic Society, San Diego, Sept. 1994, 1) Sinus CPT Coding Changes 2) OBRA 1993's Practice Expense Value Reduction, Effect on Otolaryngology

19. The AAO/HNS Rhinology and Paranasal Sinus Committee Panel of the Nasal Septum: The Deviated Nasal Septum and Sinusitis. AAO/HNS Meeting San Diego, CA, September 1994
20. The Prognosis of Allergic Fungal Sinusitis. Presented at the AAO/HNS. San Diego, CA, September 1994
21. Allergic Fungal Sinusitis: A Treatment Protocol. Presented at The American Rhinologic Society, Palm Springs, CA, May 1995
22. Autoradiographic Localization of Human Nasal Neuropeptide Receptors. Presented at The American Rhinologic Society, Palm Springs, CA, May 1995
23. The Inter Sinus Frontal Septal Cell. Presented at the American Rhinologic Society, New Orleans, LA, September 1995
24. Middle Turbinate Resection and Frontal Sinus Obstruction. Presented at The American Rhinologic Society, New Orleans, LA, September 1995
25. Antifungal Sensitivities of Allergic Fungal Sinusitis Patient Cultures. Presented at The Triological Society Southern Section Meeting, Florida, January 1996
26. Allergic Fungal Sinusitis Treatment Protocol: 1996 Update. Presented at the American Rhinologic Society, Orlando, FL, May 4, 1996
27. Capsaicin's Effect on Rat Nasal Mucosa Substance P Release(Cottle Award Paper). Presented to the American Rhinologic Society, Washington, D.C., September 28, 1996
28. Intranasal Frontal Sinusotomy: First Line Management of Chronic Frontal Sinusitis. Frontal Sinus Panel, The Triologic Society Meeting, Palm Beach, Florida, May 1998
29. Fungal Specific serum IgE levels in Allergic Fungal Sinusitis, The American Rhinologic Society Meeting, Palm Desert California, April 1999
30. Allergic Fungal Sinusitis: A Four Year Follow Up, The American Rhinologic Society Meeting, Palm Desert California, April 1999
31. The Accuracy of Soft Tissue Debriders and the Interchangeability of Headsets with Image Guided Surgery, The American Rhinologic Society Meeting, Palm Desert, California, May 1999
32. Posterior Frontal Sinus Table Erosion and Chronic Frontal Sinus Management, The American Rhinologic Society Meeting, Palm Desert, California, May, 1999

33. Frontal Sinus Rescue (FSR) Procedure: Early Experience and Follow-up. Presented at the American Rhinologic Society Meeting, New Orleans, La. Sept. 1999.
34. Endoscopic Resection of Low Grade Fibrosarcoma of Ethmoid Sinus and Skull Base. Presented at the Nose 2000 and Beyond. Washington, D.C. September 2000.
35. Capsaicin's Effect on Trigeminal Nucleus Substance P Release after Noxious Nasal Stimulus. Presented at the Nose 2000 and Beyond. Washington, D.C. September 2000.
36. Fungal Infection of Neofrontal Sinus after Frontal Sinus Cranialization. Presented at the Nose 2000 and Beyond. Washington, D.C. September 2000.
37. Analysis of Failure of Frontal Sinus Obliteration. Presented at The Triologic Society Meeting, Palm Desert California, May 2001.
38. Nebulized Betamethasone in the treatment of Allergic Fungal Sinusitis. Presented at the Southern Section of the Triologic Society, Marco Island, Fl., Jan 2003.
39. The Frontal Sinus Rescue Procedure & The Extended Frontal Sinus Rescue Procedure, Long term follow-up. Presented at The Triologic Society, Nashville, Tenn., May 2003.
40. Normal Sinus Flora is not necessarily Normal, Presented at The American Rhinologic Society, Boca Raton, Fl., May 2005.
41. Antibiotic Sensitivities of Coagulase Negative Staphylococcus, Presented at The American Rhinologic Society, Boca Raton, Fl., May 2005.
42. Long term follow-up of endoscopic frontal sinusotomy, patency and symptoms, comparing eosinophilic and noneosinophilic sinusitis. Presented at The Triologic Society, Orlando, Fl. May 1, 2008.

#### **POSTERS:**

1. Residual Adenoid Tissue After Traditional Adenoidectomy. Scott A. Dempewolf and Frederick A. Kuhn, AAO/HNS San Diego, CA, September 1994
2. Allergic Fungal Sinusitis Caused by Multiple Fungi. Stephen B. Kupferberg, John P. Bent and Frederick A. Kuhn. AAO/HNS, September 1994
3. Intra Nasal Presentation of Condyloma Acuminatum, David J. Halvorson and Frederick A. Kuhn. AAO/HNS Minneapolis, MN, October 1993
4. KTP Laser Management Nasal Hereditary Hemorrhagic Telangiectasia. Christopher L.

Vickery and Frederick A. Kuhn. AAO/HNS Minneapolis, MN, October 1993

5. Modified Endoscopic Lothrop with punches. The Southern Section, Triologic Society. Marco Island, Fl. January 2005.
6. Lamasil's effect on Total Serum IgE levels of Chronic Sinusitis Patients. Second Prize – Poster Session. The American Rhinologic Society, Boca Raton, Fl. May 2005
7. Office vs. Operating Room repair of frontal ostium stenosis. The Triologic Society. May 1, 2008.

#### **ABSTRACTS:**

1. Frazier, T.C., Rupp, N.T., Kuhn, F.A., Wray, B.B., Stafford, C.T. and Dolen, W.K.: Serum and Allergic Mucin Levels of Eosinophilic Cationic Protein in Allergic Fungal Sinusitis. *J Allergy Clinic Immunology*, Vol. 93, No. 1 pt. 2, January 1994
2. T. A. Feger, N.T. Rupp, F.A. Kuhn, J.L. Ford, W.K. Dolen: Local and Systemic Eosinophil Activation in Allergic Fungal Sinusitis (AFS). *Ann Allergy*, 74 (1):69, January 1995
3. Allergic fungal sinusitis: A Treatment Protocol. Presented at The American Rhinologic Society. Palm Desert, Calif. May 1, 1995
4. Autoradiographic Localization of Nasal Mucosa Neuropeptide Receptors. Presented at The American Rhinologic Society. Palm Desert, Calif. April 30, 1995

#### **PUBLICATIONS:**

1. Kuhn, Frederick A., Thalmann, Ruediger, Marovitz, William F.: “A Comparison of Nomarski Differential Interference Contrast and Phase Contrast Microscopy of the Guinea Pig Organ of Corti.” *The Laryngoscope*, Vol. LXXXI, No. 7, pp. 1090-1118, July 1971.
2. Kuhn, Frederick A., Thalmann, Ruediger, Marovitz, William F.: “Normarski Differential Interference Contrast of The Normal and Pathologic Guinea Pig Organ of Corti.” *The Laryngoscope*, Vol. LXXXI, pp. 1787-1801, November, 1971.
3. Wolff, Allan P., Kuhn, Frederick A., and Ogura Joseph H.: “Pharyngeal-Esophageal Perforations Associated with Rapid Oral Endotracheal Intubation.” *The Annals of Otolaryngology, Rhinology, and Laryngology*, Vol. 81, No. 2, pp. 258-261, April 1972.
4. Kuhn, Frederick A., Sessions, Donald G. and Ogura, Joseph H.: “Hypopharyngeal Diverticulum.” *The Laryngoscope*, Vol . 87, No. 2, pp. 147-153, February 1977.

5. Kennedy, David W., Zinreich, S. James, Kuhn, Frederick A., Shaalan, Hishan, Naclerio, Robert, Lock, Eric: "Endoscopic Middle Meatal Antrostomy: Theory, Technique and Patency." *The Laryngoscope*, Supplement No. 43, Vol. 97, No. 8 Part 3, August 1987.
6. Kuhn, Frederick A., Bolger, Wm. E., Tisdal, Rebecca G., "The Agger Nasi Cell in Frontal Recess Obstruction: An Anatomic, Radiologic and Clinical Correlation," *Operative Techniques in Otolaryngology-Head and Neck Surgery*, Vol. 2, No. 4, pp. 226-231, Dec. 1991.
7. Kuhn, Frederick A., Bolger, William E.: "Prevention of Recurrence After Functional Endoscopic Sinus Surgery: Advanced Techniques for the Endoscopic Sinus Surgeon - The Frontal Recess." *Instructional Courses American Academy of Otolaryngology/HNS*, Vol. 5, pp. 129-136, 1992.
8. Kuhn, Frederick A., Bent, John P.: "Zenker's Diverticulotomy Using The KTP/532 Laser," *Laryngoscope*, Vol. 102, No. 8, pp. 946-950, Aug. 1992.
9. Bolger, William E., Maier, Eric, Parsons, David S., Kuhn, Frederick A.: "Lacrimal Drainage System Injury in Functional Endoscopic Sinus Surgery, Incidence, Analysis, Prevention." *Archives of Otolaryngology, HNS*, Vol. 118, No. 11, pp. 1179-1185, Nov. 1992.
10. Wolf, G., Anderhuber, W., Kuhn, Frederick A.: "Development of the Paranasal Sinuses in Children: Implications for Paranasal Sinus Surgery." *Annals of Otolaryngology*, Vol. 102, No. 9, pp. 705-711, September 1993.
11. Halvorson, D., Kuhn, Frederick A.: "Transmucosal Cricopharyngeal Myotomy with the Potassium - Titanyl Phosphate Laser in the treatment of Cricopharyngeal Dysmotility." *Otolaryngology/HNS*, Vol. 103, No. 3, pp. 173-177, March 1994.
12. Sillers, Michael J., Kuhn, Frederick A., and Owen, R. Glen: "Surgery of the Nose and Paranasal Sinuses." *Current Opinion in ORL/HNS*, Vol. 2, No. 1, February 1994.
13. Bent, John P., Cuijly-Siller, Carlos and Kuhn, Frederick A.: "The Frontal Cell in Frontal Sinus Obstruction." *American Journal of Rhinology*, Vol. 8, No. 4, pp. 185-191, 1994.
14. Bent, John P. and Kuhn, Frederick A.: "The Diagnosis of Allergic Fungal Sinusitis." *Otolaryngology - Head and Neck Surgery*, Vol. 111, pp. 580-588, November 1994.
15. Sillers, M.J., Kuhn, F.A. and Wood, A.P.: "Endoscopic Surgery of the Frontal Recess." *Curr Opin Otolaryngol Head and Neck Surg.* 3:1, pp. 36-40, January 1995.
16. Sillers, Michael J., Kuhn, Frederick A., Vickery, Christopher L.: "Radiation Exposure in Paranasal Sinus Imaging." *Otolaryngology/HNS*, 112: pp. 248-51, March 1, 1995.

17. Owen, R. Glen and Kuhn, Frederick A.: "Demystifying the Maxillary Sinus Ostium." *American Journal of Rhinology*, Vol. 9, No. 6, pp 313-320, 1995.
18. Kennedy, D.W., et al., "Intl. Conference on Sinus Disease: Terminology, Staging, Therapy." *Annals of O.R.L.*, Suppl 167, oct. 1995.
19. Vickery CL, Kuhn FA : Using the KTP/532 laser to control epistaxis in patients with hereditary hemorrhagic telangiectasia. *South Med J.* 89(1):78-80, Jan. 1996.
20. Halvorson, David J. and Kuhn, Frederick A.: "Intranasal Presentation of Condyloma Acuminatum." *Otolaryngology Head & Neck Surgery.* 114:1 pp 113-115, 1996.
21. Morpeth, J.F., Rupp, N.T., Dolan, W.K., Bent, J.P., Kuhn, F.A.: "Fungal Sinusitis, An Update." *Annals of Allergy and Immunology.* Vol 76 pp 128-139, Feb. 1996.
20. Kupferberg, S.B., Bent, J.P. and Kuhn, F.A.: Prognosis for Allergic Fungal Sinusitis. *Jnl. Of Otolaryngology/HNS*, 117:35-41, July 1996
22. Kuhn, F.A., Operative Techniques in Chronic Frontal Sinusitis: "The Endoscopic Frontal Recess Approach." *Operative Techniques in Otolaryngology/HNS.* 7:222-229, September 1996.
23. Merritt, R., Bent, J.P. and Kuhn, F.A.: "The Intersinus Septal Cell." *The Amer. J. Rhinol.*, 10:299-302, Sept.-Oct., 1996.
24. Bent, J.P. and Kuhn, F.A.: "Allergic Fungal Sinusitis/Polyposis." *Allergy and Asthma Proc.*, 17:259-268. Sept.-Oct., 1996.
25. Bent, J.P. and Kuhn, F.A.: "Antifungal Activity Against Allergic Fungal Sinusitis Organisms." *Laryngoscope*, 106:1331-34, December 1996.
26. Owen, R.G. and Kuhn, F.A.: "The Supra Orbital Ethmoid Cell." *Otolaryngology/Head and Neck Surgery*, 116:254-261, February, 1997.
27. Kuhn, F.A., Gonzales, S., Rodriguez, M., Cuiilty Siller, C., Zachariou, V. and Goldstein, B.D. Capsaicin's Effect on Rat Nasal Mucosa Substance P Release: Experimental Basis for Vasomotor Rhinitis Treatment. *Amer. Jnl. Of Rhinology*, 11:313-316, 1997.
28. Bent JP, Spears RA, Kuhn FA, and Stewart SM, Combined endoscopic intranasal and external frontal sinusotomy (The above and below approach to frontal sinusotomy: Alternatives to obliteration). *Amer.Jnl. of Rhinology* 11:349-54, 1997.

29. Noble, J.A., Crow, S.A., Ahearn, D.G., Kuhn, F.A.: Allergic Fungal Sinusitis in the Southeastern USA: involvement of a new agent *Epicoccum nigrum Ehrenb. Ex Schlecht. 1824. Jnl. Of Med. And Vet. Mycology*, 35:405-409,1997.
30. Fried, M.P., Kleefield, J., Gopal, H., Reardon, E. Ho, B.T. and Kuhn, F.A. Image-Guided Endoscopic Surgery: Results of Accuracy and Performance in a multicenter Clinical Study Using an Electromagnetic Tracking System. *Laryngoscope*, 107:594-601, May 1997.
31. Kuhn, F.A. and Citardi, M.J. Advances in Postoperative Care Following Functional Endoscopic Sinus Surgery. *Oto. Clin N. A.* 30:479-490, June 1997.
32. Feger, T.A., Rupp, N.T., Kuhn, F.A., Ford, J.T. and Dolen, W.K. Local and Systemic Eosinophil Activation in Allergic Fungal Sinusitis. *Annals of Allergy, Asthma and Immunol.*, 79:221-225, Sept. 1997.
33. Chrzanowski R.R., Rupp N.T., Kuhn F.A., Phillips A.E. and Dolen W.K. Allergenic Fungi in Allergic Fungal Sinusitis. *Ann. Allergy, Asthma and Immunol.*, 79(5):431-435, November 1997.
34. Sillers M.J., Kuhn, F.A. and Porubsky E.S. Transconjunctival Endoscopic Orbital Decompression. *Oto/Hns*, 117:137-141, December 1997.
35. Kuhn F.A. and Citardi M.J. Epistaxis: The Endoscopic Approach to Sphenopalatine Artery Ligation. *Oto Clinics of N.A.*
36. Citardi MJ, Kuhn FA, Endoscopically guided frontal sinus beclomethasone instillation for refractory frontal sinus/recess mucosal edema and polyposis. *Am Journal Rhinol* 12(3):179-82, 1998 May-Jun
37. Javer AR and Kuhn FA. The Uniturbinate. *In Stammberger H & Wolf G (eds), Proceedings of the XXVI ISIAN and ERS. Bologna, Italy: Monduzzi Editore, July 1998 pp 3-7.*
38. Kuhn FA and Javer AR. Allergic Fungal Rhinosinusitis – our experience. *Arch Otolaryngol Head and Neck Surg.* 124:1179-1180, Oct. 1998.
39. Javer AR and Kuhn FA. Stereotactic Computer Assisted Navigational (SCAN) Sinus Surgery: Advances in Image Guided Surgery for FESS. Presented at the 53<sup>rd</sup> annual meeting, Canadian Society of Otolaryngology-Head and Neck Surgery, Halifax, Nova Scotia. June 21, 1999. In Review, *Jnl of Otolaryngology.*
40. Hurley DB, Citardi MJ, Javer AR and Kuhn FA. The Endoscopic Management of

- Amer. Jnl. of Rhinology, vol.14, no. 2: 113-120. March – April 2000.
41. Kuhn FA and Javer AR. Allergic Fungal Sinusitis: Perioperative Management and Prevention of Recurrence, Role of Steroids and Antifungal Agents. *Oto Clin N A*, April 2000
43. Ferguson BJ, Barnes L, et. Al. Geographic Variation in Allergic Fungal Rhinosinusitis. *Oto. Clin. Of N.A.* April, 2000.
44. Kuhn FA and Javer AR. Allergic Fungal Sinusitis: A four year follow-up. *Amer Jnl of Rhinol*, Vol. 14, No. 3:149-156. May – June, 2000.
45. Kuhn FA and Javer AR. Frontal Sinus Rescue (FSR) Procedure: Early Experience and Follow-up. Presented at the American Rhinologic Society Meeting, New Orleans, La. Sept. 1999. *Amer. Jnl. of Rhinol.*, vol. 14, no. 4: 211-216. July-Aug. 2000.
46. Kuhn FA and Javer AR. Stereotactic Computer Assisted Navigational (SCAN) Sinus Surgery: Accuracy of an Electromagnetic Tracking System with the Tissue Debrider and When Utilizing Different Headsets for the Same Patient. *Amer Jnl of Rhinol.*, Vol. 14, No. 6, pp. 361-365, Nov/Dec, 2000.
47. Javer AR and Kuhn FA. Primary Endoscopic Management of the Frontal Sinus. *Oto Clin NA*. Ed: Donald Lanza. Publication April 2001.
48. Javer AR, Sillers MS and Kuhn FA. Unobliteration of the Frontal Sinus. *Oto Clin NA*. Ed: Donald Lanza. Publication April 2001.
49. Kuhn FA, Citardi MJ and Javer AR. Frontal Sinus Rescue Procedure. *Oto Clin NA*. Ed: Donald Lanza. Publication April 2001.
50. Javer AR, Kuhn FA. Stereotactic computer-assisted navigational sinus surgery: historical perspective and review of the available systems. *J Otolaryngol*. 2001 Feb;30(1):60-4.
51. Kuhn FA and Swain RE, Allergic Fungal Sinusitis, *Current Opinion in Otolaryngology* 2003
52. Kuhn FA and Javer AR. Endoscopic Skull Base Resection of Low Grade Fibrosarcoma of Ethmoid Sinus. *Amer. J. Rhinology*. Nov/Dec 2003.
53. Herrmann BW, Citardi MJ, Vogler G, Gardner L, Smith G, Javer AR, Burt HM, Jackson J, Kuhn FA. A preliminary report on the effects of paclitaxel-impregnated stents on sheep



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54. Kuhn FA. Role of endoscopy in the management of chronic rhinosinusitis. *Ann Otol Rhinol Laryngol Suppl.* 2004 May;193:15-8.
  55. Lee WT, Kuhn FA, Citardi MJ. 3D CT analysis of frontal recess anatomy in patients without frontal sinusitis. *Otolaryngology – Head and Neck Surgery.* 2004; 131:164-173.
  56. Dubin MG and Kuhn FA. Stereotactic Computer Assisted Navigation: State of the Art, not Standard of Care. *Oto Clin NA,* 38:3, pp 535-549 June 2005.
  57. Dubin MG and Kuhn FA. Endoscopic modified Lothrop (Draf III) with frontal sinus punches. *Laryngoscope.* 2005 Sep;115(9):1702-3.
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  59. Dubin MG and Kuhn FA. Preservation of Natural Frontal Sinus Outflow in the Management of Frontal Sinus Osteomas. *Oto/HNS* 134(1):18-24, Jan 2006.
  60. Kuhn, FA, An Integrated Approach to Frontal Sinus Surgery. *Otolaryngology Clinics of North America* 39(3):437-61, (2006).
  61. Dubin MG, Kuhn FA. Unilateral multifocal inverted papilloma of the maxillary and frontal sinus. *Am J Otolaryngol.* 2006 Jul-Aug;27(4):263-5.
  62. Dubin MG, Kuhn FA, Melroy CT. Radiographic resolution of chronic rhinosinusitis without polyposis after 6 weeks vs 3 weeks of oral antibiotics. *Ann Allergy Asthma Immunol.* 2007 Jan;98(1):32-5.
  63. Bolger WE, Brown CL, Church CA, Goldberg AN, Karanfilov B, Kuhn FA, Levine HL, Sillers MJ, Vaughn WC and Weiss RL. Safety and Efficacy of Balloon Catheter Sinusotomy: A Multi-center 24 Week Analysis in 115 Patients. *Otolaryngol Head Neck Surg.* July 2007.
  64. Kuhn FA, Wong KK, Mechor B, Javer AR. Creating the "double curved" suction for sinus endoscopy and surgery. *Laryngoscope.* 2007 Aug;117(8):1450-1.
  65. Church CA, Kuhn FA, Mikhail J, Vaughn WC, Weiss RL. Patient and surgeon radiation exposure in balloon catheter sinus ostial dilation. *Oto/HNS,* (2008) 138, 187-191.
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RL, Balloon Catheter Sinusotomy: One-Year Follow-Up - Outcomes and Role in Functional Endoscopic Sinus Surgery. *Otolaryngology-Head and Neck Surgery* (2008), 139, S 27 – S 37.

#### BOOK CHAPTERS:

1. Bent, J.P and Kuhn, F.A., Endoscopic Frontal Sinus Surgery in Advanced Endoscopic Sinus Surgery, Edited by Stankiewicz, J.A., pp 13-24, 1995 Mosby.
2. Figueroa, R.E. and Kuhn, F.A., Chapter 12 A, Imaging Evaluation for Frontal Endoscopic Sinus Surgery, *Radiology: Diagnosis, Imaging, Intervention*, Edited by Juan M. Taveras, MD, Joseph T. Ferrucci, MD, J.B. Lippincott, Phila. 1995.
3. Bent, J.P. and Kuhn, F.A. Nasal Polyposis and Allergic Fungal Sinusitis in Settipane, G and Lund, V. *Nasal Polyps: Epidemiology, Pathogenesis and Treatment*. Oceanside Publishers, Provid., R.I., 1997.
4. Kuhn, F.A. Chapter 22, Surgery of the Frontal Sinus in Kennedy, D.W., Bolger, B.W. and Zinreich, J., September, 2000.
5. Kuhn FA and Javer AR. Endoscopic Management of Frontal Sinus Disease. In *Minimally Invasive Surgery of the Head, Neck and Cranial Base*. Wackym PA, Rice DH and Schaffer SD. Chapter 21, pp. 245-259. Lippincott, Williams & Wilkins, 2002.
6. Kuhn FA and Palmer JN. Computer Aided Frontal Sinus Surgery. In *Computer Aided Otorhinolaryngology – Head and Neck Surgery*, Citardi MJ, Chapter 14, pp. 243-363, Marcel Decker, Inc. 2002.
7. Karanfilov, B.I. and Kuhn, F.A. The Endoscopic Frontal Recess Approach. In *The Frontal Sinus*, Kountakis, S., Chapter 20, p.p. 179-189, Springer-Verlag, Berlin 2005
8. Melroy, C.T. and Kuhn, F.A., Frontal Sinus Instrumentation. In *Advances in Rhinologic and Sleep Apnea Surgery*, Kountakis, S.E., Chapter \_\_\_\_, p.p.\_\_\_\_, Springer-Verlag, Berlin 2007.
9. Melroy, C.T. and Kuhn, F.A., Non-Frontal Sinus Instrumentation. In *Advances in Rhinologic and Sleep Apnea Surgery*, Kountakis, S., Chapter \_\_\_\_, p.p.\_\_\_\_, Springer-Verlag, Berlin 2007.
10. Chan, Y, Melroy, CT and Kuhn, FA. Endoscopic Frontal Sinusotomy. In Kennedy and Wong, Sinusitis 2008

## PAPERS ACCEPTED FOR PUBLICATION:

1. Kuhn FA & Javer AR: Nasal Endoscopic Resection of Low Grade Skull Base Fibrosarcoma and Skull Base Reconstruction, a 4 year Follow-up. Accepted by the American Journal of Rhinology, August 2003.
2. Whitehouse, A., Kuhn, Frederick A.: Anatomy of an Endoscopic Hypophysectomy. Presented at the Southern Section of the Triologic, Boca Raton, FL, Accepted by the *Laryngoscope*.

## PAPERS SUBMITTED FOR PUBLICATION:

1. Kuhn FA, Lee J, Bohannon I & Karanfilov B: The Frontal Sinus Rescue and Extended Frontal Sinus Rescue Procedures, long term follow-up. Submitted to: *The Laryngoscope*
2. Kuhn, Frederick A.: Selective Intra Nasal Topical Anesthesia for the Localization of Headache. Submitted to: *The Laryngoscope*.

SUBMITTED TO *OTOLARYNGOLOGY/HNS*:

1. Surgical Failures, Revision Surgery and Complications in FESS for Massive Nasal Polyposis, Part I. Surgical Failures and Revision.
2. Surgical Failures, Revision Surgery and Complications in FESS for Massive Nasal Polyposis, Part II. Complications.

SUBMITTED TO *THE AMERICAN JOURNAL OF RHINOLOGY*:

1. Wood, A.P., Kuhn, F.A., Fravel, W.J., Cuiilty-Siller, C., Kim, .R., and Pauley, J., PhD.: Nasal Mucosa Neuropeptide Receptors in Headache Patients: Autoradiographic Localization.
2. Cuiilty-Siller, C., Kuhn, F.A., Zachariou, V., and Goldstein, B.D., PhD: Trigeminal Nucleus Substance P Release After Noxious Mechanical and Chemical Stimulation of Rat Nasal Mucosa

## PARTICIPATION IN COURSES AS INSTRUCTOR:

1. Endoscopic Sinus Surgery Course, U.C. Davis, Sacramento, California, September 1986
2. Endoscopic Sinus Surgery, Johns Hopkins Medical Institution, Baltimore, Maryland, July 1987

3. KTP/532 Laser in Tonsillectomy and UPP, Presentation at American Academy of Otolaryngology - Head and Neck Surgery, Chicago, Illinois, September 1987
4. KTP/532 Laser in ENT, Course for Otolaryngologists, Baptist Medical Center, Oklahoma City, Oklahoma, February 1988
5. KTP/532 Laser in ENT, Course for General Physicians, Baptist Medical Center, Oklahoma City, Oklahoma, April 1988
6. KTP/532 Laser Course for Otolaryngologists, Houston Laser Institute, Houston, Texas, December 1988
7. Functional Endoscopic Sinus Surgery, Univ. of Florida College of Medicine, Gainesville, Florida, February 1989

INVITED SPEAKER/GUEST LECTURER:

1. **St. Louis Children's Hospital, Washington University**, Pediatric Sinusitis and Endoscopy Course, St. Louis, Missouri, March 1990.
2. **St. Louis Children's Hospital, Washington University**, Second Pediatric Sinus Endoscopy Course, St. Louis, Missouri, April 1991. The Cause of Recurrent Sinusitis Following Sinus Surgery. Frontal Recess Obstruction.
3. **St. Louis Children's Hospital, Washington University**, Third Pediatric Sinusitis and Endoscopy Course, St. Louis, Missouri, June 1992. Recurrent Sinus Disease After Ethmoidectomy, Advanced Techniques-The Frontal Sinus.
4. KTP/532 Laser Course for Otolaryngologists, **Willford Hall Air Force Hospital**, San Antonio, Texas, June 1989.
5. Functional Endoscopic Sinus Surgery, **University of California**, Irvine, California, May 1990.
6. **The Oklahoma Academy of Otolaryngology**, Recent Innovations in Lasers for Otolaryngology, San Antonio, Texas, April 1991.
7. **University of Florida**, Endoscopic Sinus Surgery Course, Gainesville, Florida, Headache of Nasal and Sinus Origin, Recurrence of Sinus Disease Following Surgery, June 1991.
8. **University of Graz**, Functional Endoscopic Sinus Technique, Graz, Austria, Recurrent Sinus Disease and the Frontal Recess, July 1991.

9. **First High Altitude Ski Meeting for Sinus Surgeons**, The Westin Resort Vail, Colorado, February 1992. Functional Endoscopic Surgery of the Frontal Sinus.
10. **University of California**, Functional Endoscopic Sinus Surgery, Irvine, California, March 1992. Anatomy and Radiology of the Lateral Nasal Wall, The Frontal Sinus-Advanced Techniques, Headaches of Nasal and Sinus Origin.
11. Clinical Applications of the KTP/532 Laser in Otolaryngology, **Sherman Hospital**, Elgin, Ill., June 1992.
12. **University of Graz**, The First International Advanced Course on Functional Endoscopic Sinus Surgery, Vienna, Austria, July 1992. The difficult Frontal Recess.
13. **Functional Endoscopic Sinus Surgery Course for Military Otolaryngologists**, San Antonio, Texas, August 1992
14. **The TriState Otolaryngology Society** (Ala, GA, Tenn.) Sea Island, Ga., August 1992. (1) Prevention of Recurrent Sinus Disease, Advanced Techniques/The Frontal Recess. (2) Complications of Endoscopic Sinus Surgery
15. **The Greater Charlotte ENT Society**, Charlotte, N.C., October 28, 1992. The Anatomy and Functional Endoscopic Surgery of the Frontal Sinus: Alternatives to Frontal Sinus Obliteration.
16. **Loyola University**, Chicago, IL., Advanced Endoscopic Nasal Sinus Surgery, Boca Raton, FL., November 29 - December 1, 1992. (1) The Frontal Sinus (2) Recurrent Sinusitis After Surgery (3) Results (4) Fungal Sinusitis (5) Massive Polyposis.
17. **University of Pennsylvania**, Department of Otolaryngology, Visiting Professor, March 1993.
  - a. The Frontal Sinus: Anatomy, Functional Endoscopic Surgery and Clinical Problems.
  - b. Fungal Sinusitis
  - c. Massive Nasal Polyposis
18. **University of Iowa**, Department of Otolaryngology, Guest Lecturer, The Advanced Functional Endoscopic Sinus Surgery Course, May 1993. (1) Lateral Nasal Wall Anatomy and Radiology (2) Frontal Sinus Anatomy and Surgery (3) Causes of Post Surgical Recurrence and Revision Surgery (4) Fungal Sinusitis and Massive Nasal Polyposis.
19. **St. Louis Children's Hospital, Washington University**, The Fourth Pediatric Sinusitis and Endoscopy Course, June 1993.

20. **The First Kaiser Permanente Symposium**, Maui, Hawaii, July 1993. The Anatomy and Radiology of The Lateral Nasal Wall. The Frontal Sinus.
21. The Second International Sinus Symposium, **University of Pennsylvania**, Philadelphia, PA, July 1993. Invited Presentation on The Frontal Sinus and Demonstration Dissection, Course on Finding The Maxillary Sinus Ostium.
22. **The University of Minnesota**, Department of Otolaryngology Multi Wave Length Laser Course, Otolaryngology KTP Laser Applications, Minneapolis, September 1993.
23. **The American Rhinologic Society**, Minneapolis, October 1993: Recurrent Disease in The Frontal Sinus.
24. **The American Academy of Otolaryngology**. Rhinology and Paranasal Sinus Committee Panel on Fungal Sinusitis: Classification of Fungal Sinusitis. October 1993.
25. **The American Society of Allergy and Immunology**. Allergic Fungal Sinusitis. November 1993.
26. **The University of Nuevo Leon**, Department of Otolaryngology Endoscopic Sinus Surgery Course, Invited Guest Speaker - five lectures and live demonstration cadaver dissection. Monterrey, Mexico, November 1993.
27. **The Johns Hopkins Medical Institutions**, Department of Otolaryngology/HNS, Endoscopic Sinus Surgery Course. Anatomy and Radiology of the Lateral Nasal Wall. Safe Frontal Recess Dissection. Live Demonstration Cadaver Dissection. Baltimore, MD, January 1994.
28. **Mt. Sinai School of Medicine**, Department of Otolaryngology/HNS, Traditional and Endoscopic Sinus Surgery Course. Anatomy and Radiology of the Lateral Nasal Wall. Safe Frontal Recess Dissection. Alternatives to Frontal Sinus Obliteration. Demonstrating the Maxillary Sinus Ostium. Live Demonstration Cadaver Dissection. New York City, February 1994.
29. **Uniformed Services University of the Health Sciences**, Department of Otolaryngology, 8th Streit Memorial Lecture and Endoscopic Sinus Surgery Course. Safe Frontal Recess Surgery. Alternatives to Frontal Sinus Obliteration. Allergic Fungal Sinusitis. Causes and Prevention of Recurrent Sinusitis After Intranasal Ethmoidectomy. Live Demonstration Cadaver Dissection. Bethesda, MD, March 1994.
30. **New York University School of Medicine**, International Sinus Symposium. Great Debates - Traditional vs. Endoscopic Sinus Surgery. Moderate Panel on Frontal Sinus Disease. Mini

Course - Demonstrating The Maxillary Sinus. New York City, April 1994.

31. **University of Iowa**, Department of Otolaryngology/HNS, 3rd Annual Endoscopic Sinus Surgery Course. Lateral Nasal Wall Anatomy and Radiology. Safe Frontal Recess Surgery. Prevention of Recurrence After Ethmoidectomy. Fungal Sinusitis. Finding the Maxillary Sinus Ostium. CPT Coding Changes. Live Demonstration Cadaver Dissection. Iowa City, May 1994.
32. **Washington University School of Medicine**, St. Louis Children's Hospital, 5th Pediatric Endoscopy and Sinus Surgery Course. Endoscopic Frontal Sinus Surgery. Causes of Recurrent Sinusitis After Intranasal Ethmoidectomy. Complications of FESS/Endoscopic Meningoencephalocele Repair. St. Louis, June 1994.
33. **Rush Presbyterian St. Lukes School of Medicine**, Advanced Endoscopic Sinus Surgery Course. Safe Endoscopic Frontal Sinus Surgery. Conduct/Moderate Panel on Difficult Frontal Sinus Cases. Frontal Sinus Workshop. Live Demonstration Cadaver Dissection. Chicago, June 1994.
34. **University of Alabama Birmingham**, Department of Plastic Surgery International course on Endoscopic Plastic Surgery. Frontal Sinus Anatomy, Radiology and Endoscopic Surgery. Birmingham, July 1994.
35. **University of Michigan**, Department of Otolaryngology/HNS. Advanced Endoscopic Sinus Surgery Course. Advanced Techniques/Prevention of Recurrence - Frontal Sinus, Middle Meatus and Sphenoid Sinus. Endoscopic Management of CSF Leak and Encephalocele. Fungal Sinusitis. Live Demonstration Cadaver Dissection. Ann Arbor, August 1994.
36. **The American Rhinologic Society**. 1994/1995: 1) Sinus CPT Coding Changes. b) HCFA RBRVS and Practice Expense Value Reduction Effect on Billing and Reimbursement. San Diego, September 17, 1994.
37. **AAO/HNS Rhinology and Paranasal Sinus Committee**, Panel on The Nasal Septum. The Deviated Nasal Septum and Sinusitis. San Diego, September 21, 1994.
38. **The Greater Atlanta Otolaryngology Society**. Safe Endoscopic Frontal Sinus Surgery. 1994/1995 Sinus CPT Coding Changes. HCFA RBRVS and Practice Expense Value Reduction Effect on billing and Reimbursement. Atlanta, September 22, 1994.
39. **Harvard Medical School**, Department of Otolaryngology/HNS. Endoscopic Sinus Surgery Course - Beyond the Basics. Prevention and Management of Complications. Safe Endoscopic Frontal Recess Surgery. Recurrent Sinusitis After Intranasal Ethmoidectomy. Live Demonstration Cadaver Dissection. Boston, September 28 - October 2, 1994.

40. **University of Pennsylvania**, Department of Otolaryngology. Advanced Functional Endoscopic Sinus Surgery Course. Safe Endoscopic Frontal Sinus Surgery. Demonstrating the Maxillary Sinus Ostium. Imaging the Frontal Sinus. Philadelphia, October 28-31, 1994.
41. **The University of Nuevo Leon**, Department of Otolaryngology Endoscopic Sinus Surgery Course, and KTP Laser Course Invited Guest Speaker - Five Lectures and Live Demonstration Cadaver Dissection. Monterrey, Mexico, November 1994.
42. **The Greater New England Otolaryngology Society**, Boston, Massachusetts, Two Lectures - Frontal Sinus and Fungal Sinusitis. November 1994.
43. **The University of North Carolina**, Newton Fischer Society, Allergic Fungal Sinusitis. February 1995.
44. **The Adam Politzer Society of PEMEX Hopital, Mexico City**, Anatomy & Radiology of Lateral Nasal Wall, Safe Frontal Recess Dissection Allergic fungal Sinusitis. Tepic, Mexico, February, 1995.
45. **The Mexican Otolaryngology Society**, Cancun, Mexico, May 1995.
  - 1) Frontal Sinus Anatomy
  - 2) Allergic Fungal Sinusitis
  - 3) KTP Laser/Laryngeal Applications
46. **The University of Missouri**, Allergy and Endoscopic Surgery Symposium., Jackson Hole, Wyoming, June 1995.
  - 1) Endoscopic Frontal Sinus Surgery
  - 2) Allergic Fungal Sinusitis
  - 3) Headache of Nasal and Sinus Origin
  - 4) CSF Leak and Encephalocele Repair
47. **2nd Joint International Minimally Invasive Neurosurgical & Otolaryngology Congress**, Pittsburgh, PA, June 1995.
  - 1) Endoscopic Facial Plastic Surgery
  - 2) Endoscopic Encephalocele Repair w/KTP Laser
  - 3) Endoscopic Frontal Recess Dissection
48. **Third International Advanced Sinus Symposium**, Cairns, Australia, August 1995.
  - 1) Radiologic Lateral Nasal Wall Anatomy
  - 2) Frontal Sinus/Recess Anatomy and Surgery
  - 3) New Imaging Techniques/Avoidance of Complications
  - 4) Advanced Maxillary Ostium Techniques
  - 5) Advanced Frontal Sinus Techniques



49. **North Carolina/South Carolina Otolaryngology Society**, Myrtle Beach, South Carolina, August 1995.
  - 1) Frontal Recess Anatomy/Alternatives to Obliteration
  - 2) Allergic Fungal Sinusitis
50. **American Academy of Otolaryngic Allergy**, Allergic Fungal Sinusitis Treatment Protocol. New Orleans, Louisiana, September 1995.
51. **AAO Rhinology & Paranasal Sinus Committee**, What is Maximal Medical Sinus Treatment? New Orleans, Louisiana, September 1995.
52. **The University of Pennsylvania**, Department of Otolaryngology. Advanced Functional Endoscopic Sinus Surgery Course. Safe Endoscopic Frontal Sinus Surgery. Demonstrating the Maxillary Sinus Ostium. Imaging the Frontal Sinus. Philadelphia, October 26-28, 1995.
- 52a. **The University of Pennsylvania**/Health Communication Videotaping, October 29, 1995.
53. **The Academy of Medicine**, Singapore. Appointed the 1995 visiting academician. Lecture entitled "Safety in Endoscopic Sinus Surgery," Singapore, November 11, 1995
54. **Singapore General Hospital**, Department of Otolaryngology, Advanced Endoscopic Sinus Surgery Course. Singapore, November 12, 1995
  - 1) Surgery of the frontal Recess
  - 2) Endoscopic DCR
  - 3) Management of Fungal Sinusitis
  - 4) Orbital Complications
  - 5) Demonstration Dissection
55. **Sinusitis: Bench to Bedside**. Sponsored by NIH, AAO/HNS, AAAAI, Presentation: Allergic Fungal Sinusitis. Scottsdale, AZ, January 19-21, 1996
56. **University of Cincinnati**, Visiting Professor, February 1996
  - 1) Anatomy & Radiology of the Lateral Nasal Wall
  - 2) Frontal Recess Anatomy and Safe Endoscopic Approach
  - 3) Alternatives to Frontal sinus Obliteration
57. **University of Alabama**, Birmingham. Advanced Sinus Course. Birmingham, AL, April, 1996.
  - 1) Anatomy of the Lateral Nasal Wall
  - 2) Advanced Techniques for Frontal Sinus Surgery
  - 3) Allergic Fungal Sinusitis
  - 4) Endoscopic Repair CSF Leak/Encephalocele

- 5) Demonstration Dissection
58. **American Rhinologic Society Spring Meeting.** Allergic Fungal Sinusitis Protocol, 1996 Update. Orlando, FL, May 3-9, 1996
59. **The Chinese University of Hong Kong,** Li Dak Sum Visiting Professorial Lecture: Safety in Endoscopic Sinus Surgery  
FESS Course, June 10-14, 1996
- 1) Anatomy and Radiology of the Lateral Nasal Wall
  - 2) Frontal Sinus Anatomy
  - 3) Safe Endoscopic Frontal Sinus Surgery
  - 4) Alternatives to Frontal Sinus Obliteration
60. **Harvard Medical School,** New Perspectives in Otolaryngology - HNS, Cascais, Portugal, July 3-6, 1996
- 1) The Endoscopic Approach to the Frontal Sinus
61. **University of Pennsylvania,** Department of Otolaryngology. Advanced Functional Endoscopic Sinus Surgery Course. Safe Endoscopic Frontal Sinus Surgery. Demonstrating the Maxillary Sinus Ostium. Imaging the Frontal Sinus. Philadelphia, November 1996
62. **The University of Nuevo Leon,** Department of Otolaryngology Endoscopic Sinus Surgery Course, and KTP Laser Course Invited Guest Speaker - Five Lectures and Live Demonstration Cadaver Dissection. Monterrey, Mexico, November 1996
63. **Chicago Laryngological & Otological Society,** Alternatives to Frontal Sinus Obliteration, February 3-4, 1997
64. **World Congress of Otorhinolaryngology,** Sydney, Australia, March 2-7, 1997
- 1) Frontal Sinus Anatomy
  - 2) Allergic Fungal Sinusitis
  - 3) Demonstration Dissection - Frontal Recess
  - 4) Chair - two panels
65. **American Academy of Oto Allergy,** Allergic Fungal Sinusitis, Scottsdale, AZ, May 1997
66. **University of Alabama, Birmingham.** Advanced Sinus Course. Birmingham, AL, May 1997.
- 1) Anatomy of the Lateral Nasal Wall
  - 2) Advanced Techniques for Frontal Sinus Surgery
  - 3) Allergic Fungal Sinusitis
  - 4) Endoscopic Repair CSF Leak/Encephalocele
  - 5) Demonstration Dissection

67. **Cottle Centennial Symposium**, 16th ISIAN, Philadelphia, PA, June 1997
- 1) Organizing Committee
  - 2) Endoscopic Frontal Sinus Approach
  - 3) Chair - Headache Short Course
  - 4) Chair - Allergic Fungal Sinusitis
  - 5) Co-Chair - Frontal Sinus Course
  - 6) Chair - Surgical Decision Making
68. **2nd US/UK Joint Otolaryngology Conference**, Boston, MA, July 23-26, 1997  
Chronic Frontal Sinusitis Panel – What is the Best Treatment? - The Endoscopic Frontal Recess Approach  
Sinus Surgery in Children: Indications and Operations
69. **Greater Atlanta Otolaryngology Society**, Anatomical Causes of Recurrence after Ethmoidectomy, January, 1998
70. **Chicago Laryngological & Otological Society**, Allergic Fungal Sinusitis – Medical and Surgical Management, Nov. 2, 1998.
71. **Chicago Laryngological & Otological Society**, Allergic Fungal Sinusitis, February 3-4, 1999.
72. **University of Pennsylvania**, Department of Otolaryngology. Advanced Functional Endoscopic Sinus Surgery Course. Safe Endoscopic Frontal Sinus Surgery. Demonstrating the Maxillary Sinus Ostium. Image Guided Surgery. Philadelphia, March 5-7, 1999
73. **Case Western Reserve University, Sinus Update Course, April 16, 17, 1999.**
- a. Anatomy and Radiology of the Lateral Nasal Wall
  - b. Frontal Sinus Anatomy
  - c. An Integrated Approach to Frontal Sinus Surgery
  - d. Allergic Fungal Sinusitis
  - e. Revision Sinus Surgery: Analysis of Causes of Recurrence
74. **Florida Society of Otolaryngology**, Oct. 30, 1999, Bal Harbour, Fla.
- a. Allergic Fungal Sinusitis
  - b. Image Guidance in Frontal Sinus Surgery
75. **Georgia Society of Otolaryngology, Head and Neck Surgery**, Annual Summer Meeting, July 25-26, 1999, Amelia Island Florida.
- a. Frontal Sinus Anatomy
  - b. Allergic Fungal Sinusitis
  - c. Causes of Recurrent Sinusitis after Sinus Surgery

- d. An Integrated Approach to Frontal Sinus Surgery
- 76. **American College of Allergy, Asthma & Immunology**, November 13, 1999, Chicago, Ill., Allergic Fungal Sinusitis, diagnosis and treatment protocol.
- 77. **University of Oklahoma. Fungal Sinusitis Symposium.** St. Louis, Mo. April, 2000.
  - a. Allergic Fungal Sinusitis, a Treatment Protocol
- 78. **University of Virginia. The 24<sup>th</sup> Annual Fitz-Hugh Symposium**
  - a. Nasal and Sinus Anatomy for Endoscopic Sinus Surgery
  - b. Fungal Sinusitis
  - c. New Rhinogenic Pathogens
  - d. Frontal Sinus Anatomy
  - e. An Integrated Approach to Frontal Sinus Surgery
  - f. Image Guidance in Sinus Surgery
- 79. **Southern Medical Society, Update for Primary Care Physicians.** Isle of Palms, S.C. Aug. 2000. Diagnosis and Treatment of Sinusitis
- 80. **University of Porto, Porto, Portugal. Sixth Sinus Course, Nov. 24-25, 2000.**
  - f. Anatomy and Radiology of the Lateral Nasal Wall
  - g. Frontal Sinus Anatomy
  - h. An Integrated Approach to Frontal Sinus Surgery
  - i. Allergic Fungal Sinusitis
  - j. Revision Sinus Surgery: Analysis of Causes of Recurrence
- 81. **MaGill University, Montreal, Canada**
  - a. Frontal Sinus Surgery
  - b. Image Guided Surgery
  - c. New Instruments and Techniques in Sinus Surgery
- 82. **The Mexican Otolaryngology Society, Mexico City, Mexico,** February 1-4, 2001
  - a. Frontal Sinus Anatomy
  - b. An Integrated Approach to Frontal Sinus Surgery
  - c. Allergic Fungal Sinusitis
  - d. Revision Sinus Surgery
- 83. **The Canadian Otolaryngology Society, Ottawa, Canada,** April 20 – May 1, 2002
  - a. An Integrated Approach to Frontal Sinus Surgery
  - b. Allergic Fungal Sinusitis
  - c. Revision Sinus Surgery/ Causes of Recurrence
- 84. **The University of Iowa, Iowa City, Iowa,** June 6,7, 2002
  - a. Revision Sinus Surgery/ Causes of Recurrence after Ethmoidectomy
  - b. Frontal Sinus Anatomy

- c. An Integrated Approach to Frontal Sinus Surgery
  - e. Allergic Fungal Sinusitis
85. **The Florida Society of Otolaryngology, Tampa, FL., November 2002**
- a. An Integrated Approach to Frontal Sinus Surgery
  - b. Bad Results in Sinus Surgery
  - c. Allergic Fungal Sinusitis
86. **Memorial Health Univ. Med. Ctr., ENT Symposium, Savannah, Ga., December 6, 2002**  
Classification & Treatment of Sinusitis
87. **The Royal Society of Medicine, London, England, January,, 2003**  
An Integrated Approach to Frontal Sinus Surgery
88. **Memorial Health Univ. Med. Ctr., Department of Family Practice**
- a. 1-17-03 – Sinus Anatomy
  - b. 2-14-03 - Classification of Sinusitis, Flora and treatment
  - c. 3-14-03 – Allergic Fungal Sinusitis
  - d. 4-11-03 – Surgery for sinusitis – Role, Timing & causes of failure
89. **The Georgia Society of Otolaryngology/HNS, Sea Island, Ga., July 2003**
- a. An Integrated Approach to Frontal Sinus Surgery
  - b. Bad Results in Sinus Surgery
  - c. Allergic Fungal Sinusitis
88. **The Cleveland Clinic 2<sup>nd</sup> biannual Sinus Surgery Course – Guest of Honor, Cleveland, Ohio, Nov. 2003**
89. **Emory University Endoscopic Sinus Surgery Course – Guest of Honor, Atlanta, Georgia, March 2004**
90. **University of Malmo, Guest of Honor – 9 lectures, Malmo, Sweden, October, 2004**
91. **University of Iowa, Guest of Honor – 5 lectures, Iowa City, Iowa, June 2005**
92. **The Cleveland Clinic 3<sup>rd</sup> biannual Sinus Surgery Course – Guest of Honor – 5 lectures, Cleveland, Ohio, Nov. 2005**
93. **Southern States Rhinology Course – 5 lectures, Birmingham, Ala., April 2005**
94. **Southern States Rhinology Course, Savannah, Ga. October 2005**
95. **Middle Eastern Update in Otolaryngology/HNS, Dubai, UAE. January 18-20, 2006**

- Three lectures, (Allergic Fungal Sinusitis, Cause and Prevention of Bad Results in Sinus Surgery and An Integrated Approach to Frontal Sinus Surgery).
96. **University of North Carolina Residents Sinus Course. March 2006**
  97. **Southern States Rhinology Course**, Charleston, S.C. April 2006
  98. **American Academy of Otolaryngology, Instructional Courses** Toronto, Canada. Sept. 2006, 1) Bad Results in Sinus Surgery, 2) Integrated Approach to Frontal Sinus Surgery
  99. The Acclarent Sinus Symposium, Toronto, Canada September 2006
  100. **The California Sinus Course, Guest of Honor**, January 2007
  101. **Southern States Rhinology Course**, Emory University, February 2007
  102. **The Sinus Forum**, Chicago, IL July 2007
  103. **EUROS (European Union of Federated Otolaryngology Societies)** July 2007
  104. **American Academy of Otolaryngology, Instructional Courses** Washington D.C. Sept. 2007, 1) Bad Results in Sinus Surgery, 2) Integrated Approach to Frontal Sinus Surgery
  105. **Southern States Rhinology Course**, Kiahwa Island, April 2008
  106. **The American Rhinologic Society, Polyps – Surgical and Medical Management** Orlando, FL, May 1, 2008
  107. **The University of Iowa Sinus Surgery Course**, Three lectures: Frontal Sinus Anatomy, Chronic Eosinophilic Sinusitis and Polyps, Balloons as Instruments. June 13, 2008
  108. **The Anglo-American ENT Update Course**, Organizer and Moderator, Panel on Balloon Sinuplasty **Dublin, Ireland**, July 8, 2008
  109. **The Sinus Forum, Chicago, IL.** July 26,27, 2008
  110. **American Academy of Otolaryngology, Instructional Courses** Chicago, IL. Sept. 2008, 1) Bad Results in Sinus Surgery, 2) Integrated Approach to Frontal Sinus Surgery

**COURSE DIRECTOR:**

1. Functional Approach to Sinus Disease and Endoscopic Sinus Surgery, Baptist Medical

- Center, Oklahoma City, Oklahoma October 1987.
2. KTP/532 Laser Course for Otolaryngologists, Houston Laser Institute, Houston, Texas, August 1988.
  3. **First Advanced Course** in Functional Endoscopic Sinus Surgery, Baptist Medical Center, Oklahoma, October 1988.
  4. KTP/532 Laser Course for Otolaryngologists, Sun Tower Medical Center, El Paso, Texas, August 1988.
  5. KTP/532 Laser Course for Otolaryngologists, San Antonio, Texas, October 1988.
  6. KTP/532 Laser Course for Otolaryngologists, Deaconess Hospital, Oklahoma City, Oklahoma, November 1988.
  7. KTP/532 Laser Course for Otolaryngologists, Penrose Community Hospital, Colorado Springs, Colorado January 1988.
  8. KTP/532 Laser Course for Otolaryngologists, Southwest Texas Methodist Hospital, San Antonio, Texas, April 1989.
  9. **Second Advanced Course** in Functional Endoscopic Sinus Surgery, Baptist Medical Center, Oklahoma City, Oklahoma, April 1989.
  10. KTP/532 Laser Course for Otolaryngologists, Anesthesiologists, General Surgeons, and Gynecologists, St. Francis Hospital, Tulsa, Oklahoma, May 1989.
  11. KTP/532 Laser Course for Otolaryngologists, St. Lukes Hospital, Houston, Texas, June 1989.
  12. KTP/532 Laser Course for Otolaryngologists, Houston Laser Institute, Atlanta, Georgia, June 1989.
  13. The Adam Politzer Society of the PEMEX Hospital Otolaryngology Department, Tepic, Mexico, February 1995.
  14. **Third Advanced Course** in Functional Endoscopic Sinus Surgery, Baptist Medical Center, Oklahoma City, Oklahoma, August 1989.
  15. KTP/532 Laser Course for Otolaryngologists, Kansas City, Missouri, November 1989.
  16. **Fourth Advanced Course** in Functional Endoscopic Sinus Surgery, Baptist Medical Center,

- Oklahoma City, Oklahoma, January 1990.
17. **Fifth Advanced Course** in Functional Endoscopic Sinus Surgery, Baptist Medical Center, Oklahoma City, Oklahoma, April 1990.
  18. KTP/532 Laser Course for Otolaryngologists, Phoenix, Arizona, June 1990.
  19. Prevention of Recurrence of Sinusitis After Ethmoidectomy - Advanced Techniques for the Sinus Surgeon. American Academy of Otolaryngology/HNS. San Diego, California September 1990.
  20. **Sixth Advanced Course** in Functional Endoscopic Sinus Surgery, Baptist Medical Center, Oklahoma City, OK., November 1990.
  21. **Seventh Advanced Course** in Functional Endoscopic Sinus Surgery, College of Boca Raton/Medical College of Georgia, Boca Raton, Florida, May 1991.
  22. Prevention of Recurrence of Sinusitis after Ethmoidectomy - Advanced Techniques for the Sinus Surgeon. American Academy of Otolaryngology/HNS Instruction Course. Kansas City, Kansas, September 1991.
  23. Anatomy and Radiology of the Lateral Nasal Wall. American Academy of Otolaryngology Instruction Course, Kansas City, KS, September 1991.
  24. Clinical Applications of the KTP/532 Laser. American Academy of Otolaryngology, Kansas City, September 1991.
  25. **Eighth Advanced Course** in Functional Endoscopic Sinus Surgery, Medical College of Georgia, Augusta, Ga., October 1991.
  26. **Advanced Dissection Course** in Functional Endoscopic Surgery of the Sinuses. Medical College of Georgia/LSU Medical Center, New Orleans, LA, February 1992.
  27. **Ninth Advanced Course** in Functional Endoscopic Sinus Surgery, Medical College of Georgia, Augusta, GA, April 1992.
  28. Prevention of Recurrence of Sinusitis After Ethmoidectomy - Advanced Techniques for the Sinus Surgeon. American Academy of Otolaryngology/HNS. Wash., D.C. September 1992 (Second highest attended course at the Academy) two hour official instruction course.
  29. Anatomy and Radiology of the Lateral Nasal Wall. American Academy of Otolaryngology, Washington, D.C. September 1992. Two hour official instruction course.
  30. **Tenth Advanced Course** in Functional Endoscopic Sinus Surgery, Medical College of



- Georgia, Augusta, Ga., October 1992.
31. KTP Laser Course, Gwinnett Medical Center, Atlanta, Ga., March 1993.
  32. **Eleventh Advanced Course** in Functional Endoscopic Sinus Surgery, Medical College of Georgia, Augusta, Ga., March 31, April 1-2, 1993.
  33. Safe Endoscopic Surgery of the Frontal Sinus. (Two Separate one hour courses) The International Advanced Symposium on Sinus Disease, Philadelphia, PA. July 1993.
  34. Demonstrating the Maxillary Sinus Ostium. (one hour course) The International Advanced Symposium on Sinus Disease Philadelphia, PA. July 1993.
  35. **Twelfth Advanced Course** in Functional Endoscopic Sinus Surgery, Medical College of Georgia, Augusta, Ga., September, 1993.
  36. Prevention of Recurrence of Sinusitis After Ethmoidectomy - Advanced Techniques for the Sinus Surgeon. (Two hour instruction course) American Academy of Otolaryngology/HNS Minneapolis, MN. October, 1993.
  37. Anatomy and Radiology of the Lateral Nasal Wall. (Two hour instruction course) American Academy of Otolaryngology, Minneapolis, MN. October 1993.
  38. **Thirteenth Advanced Course** in Functional Endoscopic Sinus Surgery, Medical College of Georgia, Augusta, GA. February 1994.
  39. Prevention of Recurrence of Sinusitis After Ethmoidectomy - Advanced Techniques for the Sinus Surgeon. (Two hour instruction course). American Academy of Otolaryngology, San Diego, CA, September 1994.
  40. Anatomy and Radiology of the Lateral Nasal Wall. (Two hour instruction course). American Academy of Otolaryngology, Minneapolis, MN. October 1994.
  41. Bad Results in Sinus Surgery (Two hour instruction course with Dr. Gerald Gussack and Dr. Scott Graham). AAO/HNS San Diego, CA. September 1994.
  42. **Fourteenth Advanced Course** in Functional Endoscopic Sinus Surgery, Medical College of Georgia, Augusta, GA. March 1994.
  43. Prevention of Recurrence of Sinusitis After Ethmoidectomy. (Two hour instruction course). American Academy of Otolaryngology, New Orleans, Louisiana, September 1995.
  44. Bad Results in Sinus Surgery (Two hour instructions course with Dr. Gerald Gussack and

- Dr. Scott Graham). AAO/HNS, New Orleans, Louisiana, September 1995.
45. **Fifteenth Advanced** Functional Endoscopic Sinus Surgery Course, Rhinology & Sinus Center of Memorial Georgia Ear Institute, Savannah, GA, October 1995
  46. **Sixteenth Advanced** Functional Endoscopic Sinus Surgery Course, Rhinology & Sinus Center of Memorial Georgia Ear Institute, Savannah, GA, March, 1996
  47. Bad Results in Sinus Surgery (Two hour instruction course with Dr. Gerald Gussack and Dr. Scott Graham). AAO/HNS, September 1996.
  48. Frontal Sinus Anatomy and Frontal Sinus Surgery (Two hour instruction course with Dr. Michael Sillers ). AAO/HNS, September 1996.
  49. **Seventeenth Advanced** Functional Endoscopic Sinus Surgery Course, Rhinology & Sinus Center of Memorial Georgia Ear Institute, Savannah, GA, October, 1996.
  50. **Eighteenth Advanced** Functional Endoscopic Sinus Surgery Course, Rhinology & Sinus Center of Memorial Georgia Ear Institute, Savannah, GA, April, 1997.
  51. Bad Results in Sinus Surgery (Two hour instruction course with Dr. Gerald Gussack and Dr. Scott Graham). AAO/HNS, September 1997.
  52. Frontal Sinus Anatomy and Frontal Sinus Surgery (Two hour instruction course with Dr. Michael Sillers & Dr. Martin Citardi ). AAO/HNS, September 1997.
  53. **Nineteenth Advanced** Functional Endoscopic Sinus Surgery Course, Rhinology & Sinus Center of Memorial Georgia Ear Institute, Savannah, GA, October, 1997.
  54. **First Ortho-McNeil Residents'** Functional Endoscopic Sinus Surgery Course, Rhinology & Sinus Center of Memorial Georgia Ear Institute, Savannah, GA, February 19-20, 1998.
  55. **Twentieth Advanced** Functional Endoscopic Sinus Surgery Course, Rhinology & Sinus Center of Memorial Georgia Ear Institute, Savannah, GA, April, 1998.
  56. Bad Results in Sinus Surgery (Two hour instruction course with Dr. Gerald Gussack and Dr. Martin Citardi). AAO/HNS, September 1998.
  57. Frontal Sinus Anatomy and Frontal Sinus Surgery (Two hour instruction course with Dr. Michael Sillers & Dr. Martin Citardi ). AAO/HNS, September 1998.
  58. **Twenty First Advanced** Functional Endoscopic Sinus Surgery Course, Rhinology & Sinus Center of Memorial Georgia Ear Institute, Savannah, GA, October, 1998.

59. **Second Ortho-McNeil Residents'** Functional Endoscopic Sinus Surgery Course, Rhinology & Sinus Center of Memorial Georgia Ear Institute, Savannah, GA, February 19-20, 1999.
60. **Twenty Second Advanced** Functional Endoscopic Sinus Surgery Course, Rhinology & Sinus Center of Memorial Georgia Ear Institute, Savannah, GA, April, 1999.
61. **Third Residents Course:** A Functional Approach to Sinus Disease, Georgia Nasal & Sinus Institute, Savannah, Ga., **Sponsored by Bayer Pharmaceutical Co. September 1999.**
62. Gerald S. Gussack Memorial Course: Bad Results in Sinus Surgery (Two hour instruction course with Dr. Martin Citardi and Dr. Scott Graham). AAO/HNS, September 1999.
63. Frontal Sinus Anatomy and Frontal Sinus Surgery (Two hour instruction course with Dr. Michael Sillers & Dr. Martin Citardi ). AAO/HNS, September 1999.
64. **Twenty Third Advanced** Functional Endoscopic Sinus Surgery Course, The Georgia Nasal & Sinus Institute, Savannah, Ga., October 1999.
65. **First** VTI/HealthSouth Endoscopic Sinus Surgery Course, The Georgia Nasal & Sinus Institute, Savannah, Ga., February 2000.
66. **Twenty Fourth Advanced** Functional Endoscopic Sinus Surgery Course, The Georgia Nasal & Sinus Institute, Savannah, Ga., April, 2000.
67. Gerald S. Gussack Memorial Course: Bad Results in Sinus Surgery (Two hour instruction course with Dr. Martin Citardi and Dr. Scott Graham). AAO/HNS, September 2000.
68. Frontal Sinus Anatomy and Frontal Sinus Surgery (Two hour instruction course with Dr. Michael Sillers & Dr. Martin Citardi ). AAO/HNS, September 2000.
69. **Second** VTI/HealthSouth Endoscopic Sinus Surgery Course, The Georgia Nasal & Sinus Institute, Savannah, Ga., September 2000.
70. **Twenty Fifth Advanced** Functional Endoscopic Sinus Surgery Course, The Georgia Nasal & Sinus Institute, Savannah, Ga., April, 2001.
71. Gerald S. Gussack Memorial Course: Bad Results in Sinus Surgery (Two hour instruction course with Dr. Martin Citardi and Dr. Scott Graham). AAO/HNS, September 2001, Denver, Colorado.
72. Frontal Sinus Anatomy and Frontal Sinus Surgery (Two hour instruction course with Dr. Michael Sillers & Dr. Martin Citardi ). AAO/HNS, September 2001, Denver, Colorado.

73. Contemporary Management of Allergic Fungal Sinusitis ( One hour instruction course with Dr. James Palmer). AAO/HNS, September 2001, Denver, Colorado.
74. **Twenty Sixth Advanced** Functional Endoscopic Sinus Surgery Course, The Georgia Nasal & Sinus Institute, Savannah, Ga., October, 2001.
75. **Twenty Seventh Advanced** Functional Endoscopic Sinus Surgery Course, The Georgia Nasal & Sinus Institute, Savannah, Ga., October, 2002.
76. **Twenty Eighth Advanced** Functional Endoscopic ‘Sinus Surgery Course, The Georgia Nasal & Sinus Institute, Savannah, Ga., April, 2003.
77. Gerald S. Gussack Memorial Course: Bad Results in Sinus Surgery (Two hour instruction course with Dr. Martin Citardi and Dr. Scott Graham). AAO/HNS, September 2003, Orlando, Fl.
78. Frontal Sinus Anatomy and Frontal Sinus Surgery (Two hour instruction course with Dr. Michael Sillers & Dr, Martin Citardi ). AAO/HNS, September 2003, Orlando, FL.
79. Contemporary Management of Allergic Fungal Sinusitis ( One hour instruction course with Dr. James Palmer). AAO/HNS, September 2003, Orlando, Fl.
80. **Twenty Ninth Advanced** Functional Endoscopic ‘Sinus Surgery Course, The Georgia Nasal & Sinus Institute, Savannah, Ga., October, 2003.
81. Gerald S. Gussack Memorial Course: Bad Results in Sinus Surgery (Two hour instruction course with Dr. Martin Citardi and Dr. Scott Graham). AAO/HNS, New York, New York September 2004.
82. Frontal Sinus Anatomy and Frontal Sinus Surgery (Two hour instruction course with Dr. Michael Sillers & Dr, Martin Citardi ). AAO/HNS, New York, New York, September 2004.
83. Contemporary Management of Allergic Fungal Sinusitis ( One hour instruction course with Dr. James Palmer). AAO/HNS, September 2004, Orlando, Fl.
84. Cosponsored Sinus Masters Course with the Medical College of Georgia, Augusta Ga. October 2004.
85. Southeastern States Advanced Sinus Course – Georgia Nasal & Sinus Institute/MHUMC, Savannah, Ga., October 2005.
86. The Savannah Evolve Sinuplasty Course, Georgia Nasal & Sinus Institute, Savannah, GA, November 2007.