

Curriculum Vitae

PART I: General Information

DATE PREPARED: 7/1/2005

Name: Nicolas Y. Bu-Saba.

Address:

Office:

1) Department of Otolaryngology,
Massachusetts Eye and Ear Infirmary,
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2) Department of Surgery,
Brockton/West Roxbury VA Medical Center
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Phone: (617) 323-7700, Ext. 6202

Place of Birth: Lebanon

Education:

1981: B.S. Biology-Chemistry; American University of Beirut, Beirut, Lebanon.

1985: M.D.; School of Medicine, American University of Beirut, Beirut, Lebanon..

Postdoctoral Training:

Internships and Residencies:

7/85 - 6/86: Intern, Department of Surgery Surgery, American University of Beirut Medical Center, Beirut, Lebanon.

7/86 - 6/89: Resident, Department of Otolaryngology, American University of Beirut Medical Center, Beirut, Lebanon.

7/90 - 6/91: Resident, Department of Surgery, Beth Israel-Deaconess Hospital and Harvard Medical School, Boston.

7/91 -6/95: Resident, Department of Otolaryngology, Massachusetts Eye and Ear Infirmary and Harvard Medical School, Boston, MA.

Clinical and Research Fellowships

7/89 - 6/90: Clinical/Research Fellowship in General
Otolaryngology, Massachusetts Eye and Ear Infirmary
and Harvard Medical School.

Specialty Advanced Educational Courses:

9/1994: Resident Symposium on Advances in Otolaryngology:
Johns Hopkins Otolaryngology Faculty; San Diego, CA.
5/1995: Advanced Endoscopic Sinus Surgery Course, Manhattan
Eye and Ear Infirmary, NY
3/2002: Optimizing Treatment to Minimize Bacterial Resistance:
Focus on Respiratory Tract Infections. Bolton Landing, New York.
10/2002: National Otolaryngology Thought Leader Market Research Meeting. The role of
Leukotrienes in allergic rhinitis and chronic sinusitis (with and without
polyposis). Miami, Florida
11/2002: National Visiting Professor Academy: Respiratory Tract Infections. Ashville,
North Carolina.
3/2004: Introduction to Otolaryngologic Allergy for Academicians. Dallas,
Texas.
2003-2004: Daiichi Clinical Scholars Program in Evidence Based Medical Research.

Certification and Licenses:

1984: FMGEMS parts I and II.
1985: Lebanese Medical License.
1989: FLEX parts I and II
1991: Massachusetts Medical License
1996: American Board of Otolaryngology.
2004: American College of Surgery

Academic Appointments:

7/95: Assistant Professor of Otolaryngology- Head and Neck
Surgery, Boston University Medical School, Boston,
Massachusetts.
8/96-7/98: Instructor; Department of Otology and Laryngology,
Harvard Medical School, Boston, Massachusetts.
7/98: Assistant Professor, Department of Otology and
Laryngology, Harvard Medical School, Boston, Massachusetts.

Hospital Appointments:

- 7/95- 8/96: Otolaryngology Surgeon; Veterans' Administration Hospital, Boston Division, Boston, Massachusetts.
- 7/95: Otolaryngology Surgeon; Veterans' Administration Hospital, Brockton/West Roxbury Division, West Roxbury, Massachusetts.
- 8/96: Assistant in Otolaryngology, Massachusetts Eye and Ear Infirmary, Boston, Massachusetts.
- 8/96: Clinical Associate in Surgery, Massachusetts General Hospital, Boston, Massachusetts.
- 7/99: Assistant Surgeon in Otolaryngology, Massachusetts Eye and Ear Infirmary, Boston, Massachusetts.
- 8/01: Associate Surgeon in Otolaryngology, Massachusetts Eye and Ear Infirmary, Boston, Massachusetts.

Other Professional Positions and Major Visiting Appointments:

- 1/97 - 3/97: Consultant in Otolaryngology; Lahey-Hitchcock Clinic, Peabody, Massachusetts.
- 4/97 - 9/97: Otolaryngology Surgeon, East Boston Neighborhood Health Center, Winthrop MA.
- 6/97 – 6/99: Otolaryngology Staff, Harvard Vanguard Medical Associates, Boston, MA.
- 1999: Otolaryngology Consultant for Telemedicine Service at Partner's Health Care System.
- 1999: Otolaryngology Reviewer/Consultant, Medical Care Ombudsman Program (MCOP), Bethesda, Maryland.
- 1999: Otolaryngology Reviewer, Quadrant Health Strategies, Inc.

Hospital and Health Care Organization Service Responsibilities:

- 7/95-6/2000: Chief of Otolaryngology, Brockton/West Roxbury VA Medical Center, West Roxbury, Massachusetts
- 1995-: Member, Sleep Disorders Service, Brockton/West Roxbury VA Medical Center, West Roxbury MA
- 1995- 96: Attending Physician, Surgical Service, Boston VA Medical Center, Boston, MA
- 1996: Attending Physician, Otolaryngology Service, Massachusetts Eye and Ear Infirmary, Boston, MA
- 8/96: Staff, General Otolaryngology Service, Massachusetts Eye and Ear Infirmary, Boston, Massachusetts
- 1996: Clinical Associate in Surgery, Massachusetts General Hospital, Boston MA
- 4/97-9/97: Member, East Boston Neighborhood Health Clinic, Winthrop MA

- 8/99: Staff, Laryngology Service, Massachusetts Eye and Ear Infirmary, Boston, Massachusetts
- 7/2000: Associate Chief of Otolaryngology-Head and Neck Surgery, Boston VA Healthcare System, Boston, Massachusetts

Major Administrative Responsibilities:

- 7/88 - 12/89: Chief Resident; Department of Otolaryngology, American University of Beirut, Beirut, Lebanon.
- 10/94 - 12/94: Chief Resident; Department of Otolaryngology, Massachusetts Eye and Ear Infirmary, Boston, Massachusetts.
- 7/95-6/2000: Chief of Otolaryngology; Brockton/West Roxbury VA Medical Center, West Roxbury, Massachusetts.
- 6/98-6/2000: Treasurer; New England Chapter of the American University of Beirut Alumni Association.
- 9/98: Secretary/Treasurer, ORL American University of Beirut Alumni Association of North America.
- 6/2000: President, New England Chapter of the American University of Beirut Alumni Association.
- 7/2000: Associate Chief of Otolaryngology-Head and Neck Surgery, Boston VA Healthcare System, Boston, Massachusetts.

Major Committee Assignments:

National and Regional

- 7/94 - 6/95: Resident's Committee of the American Academy of Otolaryngology - Head and Neck Surgery.
- 1997-2000: Member, Speech, Voice and Swallowing Disorders Committee, American Academy of Otolaryngology- Head and Neck Surgery, Inc.
- 1997-2003: Member, Sleep Disorders Committee; American Academy of Otolaryngology- Head and Neck Surgery, Inc.
- 1999: Physician Reviewer, Medical Care Ombudsman Program, Bethesda, MD.
- 2004: Faculty, Slide Lecture Series. American Academy of Otolaryngology- Head and Neck Surgery.

Hospital:

- 9/96-8/98: Utilization Review Committee; Physician Reviewer from the Department of Surgery; Brockton/West Roxbury VA Medical Center.
- 1/97: Tumor Board; West Roxbury VA Medical Center, West

- Roxbury, MA.
 6/98: Infection Control Committee; Massachusetts Eye and Ear
 Infirmary, Boston, MA.
 11/99: Cancer Committee; Boston VA Healthcare System, Boston MA

Professional Societies:

- 1985-1989: Lebanese Medical Association.
 1991: American Medical Association.
 1991: Massachusetts Medical Society.
 1991 - 1996: Member, American Academy of Otolaryngology-Head
 and Neck Surgery.
 1996: American Board of Otolaryngology.
 1996: Fellow, American Academy of Otolaryngology-Head
 and Neck Surgery.
 1996: Association of Research in Otolaryngology.
 1996: Association of Veterans' Administration Otolaryngologists.
 1997: Society of Veterans' Administration Surgeons.
 1997: SOURCE.
 1997: New England Otolaryngology Society.
 1998: Massachusetts Society of Otolaryngology-Head and Neck Surgery.
 1999: American Rhinologic Society
 2000: American Broncho-Esophological Association (ABEA)
 2004: Initiate; American College of Surgeons
 2004: Member, Trigologic Society
 2004: Fellow, American College of Surgeons
 2004: Associate Member, American Academy of Otolaryngic Allergy

Journal Editorial Board:

- 2004: Ad Hoc Reviewer; Laryngoscope.

Awards, Honors and Scholarships:

- 1978 –1985: Dean's Honor List; American University of Beirut,
 Beirut, Lebanon
 1979-1984: University Scholarship; American University of Beirut,
 Beirut, Lebanon
 1981: B.S. Biology-Chemistry with Distinction, American
 University of Beirut, Beirut Lebanon
 1985: M.D. with Distinction, American University of Beirut,
 Beirut, Lebanon
 1992: Resident Travel Award; Association of Research in

- Otolaryngology
- 1993: Resident Travel Award; Association of Research in Otolaryngology
- 1994: Resident Presentation Award; New England Otolaryngology Society Meeting, April 1994
- 1995: Resident Travel Award; Association of Research in Otolaryngology.
- 2002: Daiichi Clinical Scholars Program in Evidence Based Medical Research

PART II: Research, Teaching, and Clinical Contributions

My professional duties include clinical activities, teaching of medical students, health care professionals and residents, and research.

My clinical practice encompasses most areas of the field of Otolaryngology, but with special emphasis on Rhinology, Paranasal Sinus Disorders, and Obstructive Sleep Apnea (OSA)/Sleep-Disordered Breathing. I have offices at both the Massachusetts Eye and Ear Infirmary, and the Boston VA Healthcare System. I belong to the divisions of General Otolaryngology, and Laryngology at the Massachusetts Eye and Ear Infirmary. I am the associate chief of the Division of Otolaryngology at the VA hospital. At both facilities, I work in close association with the Sleep Disorders clinics and laboratories. I was among the first in the Boston area to perform radiofrequency volume reduction of the soft palate and turbinates for the treatment of habitual snoring and mild OSA. On an annual basis, I see approximately 3500 outpatient clinic visits and perform 300 operations.

I have teaching responsibilities at Harvard Medical School, Boston University Medical School, and MEEI. I am involved in the training (didactic and clinical) of the Harvard and Boston University Otolaryngology residents. My interaction with the Harvard residents is at the MEEI, and BU residents at the VA hospital. I supervise and teach residents in the outpatient clinics, inpatient consults, and the operating room. I have participated in instructional courses for Otolaryngology residents at both Harvard and BU medical schools. I am also involved in the teaching (mainly clinical) of medical students, typically third year medical students, from both universities who rotate on the Otolaryngology service. I also participate in Otolaryngology-Head and Neck Surgery courses given to graduate students in the Hearing and Speech Therapy Program at MIT, and Physician Assistants Study Program at the Massachusetts College of Pharmacy. I have given Grand Rounds for the departments of Surgery and Spinal Cord Injury at the Boston VA health Care System on the topics of Obstructive Sleep Apnea, Chronic Sinusitis, and Head and Neck Oncology. I participate in the department of Otolaryngology CPC's at MEEI. I was a faculty on multiple regional Specialty Instructional Courses (CME courses) for Otolaryngologists at MEEI and Boston University.

My research interests are in the fields of Rhinology and Paranasal Sinus Disorders, and Sleep-Disordered Breathing. I perform mainly clinical research in the above fields. I have authored and co-authored several papers that were published in peer-review medical journals. I frequently present the results of my research at regional and national scientific meetings. I authored and co-authored several chapters in Otolaryngology textbooks in the fields of obstructive sleep apnea, surgery for paranasal sinus disease, and anatomy and histology of the nasopharynx.

I was invited as a "professor and instructor" in the "Theoretical – Practical Endoscopic Surgery Course" that was organized by the department of Otolaryngology at Universidad Autonoma De Nuevo Leon in Monterrey, Mexico in November 2004. In addition, I was a visiting professor at

the same department and the Guest Lecturer during the annual meeting of Otolaryngology society of Monterrey, Mexico, in August 2004.

Major Research and Clinical Interests:

- 1) Rhinology and Disorders of the Paranasal Sinuses.
- 2) Sleep-Disordered Breathing – Obstructive Sleep Apnea

Funded Research Project:

Title of Project: Identification and management of sleep disorders in Gulf war veterans.

Grant: Merit Review Grant; Department of Veterans Affairs.

Co-Investigator (Principal Investigator: Lawrence Epstein, MD).

Teaching Contributions:

VA Boston HealthCare System

- 1995: Surgical Management of Obstructive Sleep Apnea. Department of Surgery Grand Round.
- 1999: Surgical Management of the Neck in Patients with Head and Neck Cancer. Department of Surgery Grand Round.
- 2000: Diagnosis and Management of Sinusitis. Spinal Cord Injury Service Grand Round.
- 2002: Obstructive Sleep Apnea: Diagnosis and Treatment. Spinal Cord Injury Service Grand Round.

Boston University Medical School:

- 1995: Temporal Bone Dissection Course for Otolaryngology Residents.
- 1995-1996: Head and Neck Anatomy Dissection Course for Otolaryngology Residents.
- 1996: Rhinologic Manifestations of Systemic Diseases. In: Sinus Surgery and Rhinology Update Instructional Courses, Boston University School of Medicine, Boston MA.
- 1996: Faculty; “Ossicular Reconstruction: A Temporal Bone Workshop” Instructional Course, Boston University

School of Medicine.

- 1999: Clinical Evaluation of Sleep Disordered Breathing. In: Somnoplasty Course, Boston University School of Medicine, Boston MA

Massachusetts Eye and Ear Infirmary:

- 1997: Evaluation and Management of Sleep Apnea. In: Clinical Aspects of Speech and Hearing Course; Hearing and Speech Therapy Ph.D. Graduate course; MIT and Harvard.
- 1998: Evaluation and Management of Sleep Apnea. In: Hearing and Speech Therapy Ph.D. Graduate Course; MIT and Harvard University.
- 1998: Emergencies of the Nose. Introductory Summer Course for Otolaryngology Residents; Massachusetts Eye and Ear Infirmary.
- 1999: Nasal sarcoidosis and maxillary sinus mucoceles. Clinicopathologic conference ; General Otolaryngology Service.
- 1999: Obstructive Sleep Apnea. Graduate course; Hearing and Speech Therapy PhD program, MIT and Harvard Universities.
- 1999: Emergencies of the Nose. Introductory Summer Course for Otolaryngology Residents, Massachusetts Eye and Ear Infirmary/Harvard Medical School.
- 2000: Evaluation and Management of Sleep Disordered Breathing. In: Clinical Aspects of Speech and Hearing Course; Hearing and Speech Therapy Ph.D. Graduate course; Massachusetts Institute of Technology and Harvard Medical School.
- 2000: Co-Director; Radiofrequency In-Service.
- 2000: Patient workup and selection for sleep-disordered breathing. In: Radiofrequency In-Service Course for Otolaryngology Staff at MEEI.
- 2000: Turbinate and base of tongue application for radiofrequency volume reduction. In: Radiofrequency In-Service Course for Otolaryngology Staff at MEEI.
- 2001: Diagnosis and management of obstructive sleep apnea. In: Clinical Aspects of Speech and Hearing Course; Hearing and Speech Therapy PhD Graduate Course, Massachusetts Institute of Technology and Harvard Medical School.
- 2001: Emergencies of the Nose. Introductory Summer Course for Otolaryngology Residents, Massachusetts Eye and Ear Infirmary/Harvard Medical School.
- 2002: Evolution of sleep-disordered breathing and update on radiorequency treatment. Grand Round, Department of Otolaryngology, Massachusetts Eye and Ear Infirmary.
- 2002: Diagnosis and management of obstructive sleep apnea. In: Clinical Aspects of Speech and Hearing Course; Hearing and Speech Therapy PhD Graduate Course, Massachusetts Institute of Technology and Harvard Medical School.

Regional, National, and International Contributions:

- 1996: Rhinologic Manifestations of Systemic Diseases. In: Sinus Surgery and Rhinology Update Instructional Courses, Boston University School of Medicine, Boston MA.
- 1996: Faculty; “Ossicular Reconstruction: A Temporal Bone Workshop” Instructional Course, Boston University School of Medicine.
- 1998: Diagnosis and Management of Sinusitis. Massachusetts College of Pharmacy; Physician Assistant Studies Program.
- 1998: Treatment of Obstructive Sleep Apnea. AMIL Study Group Continuing Education Program, Boston, MA.
- 1999: Sinusitis: Diagnosis and Treatment. Physician Assistant Studies Program, Massachusetts College of Pharmacy and Health Sciences, Boston, MA.
- 1999: Clinical Evaluation of Sleep Disordered Breathing. In: Somnoplasty Course, Boston University School of Medicine, Boston MA
- 2000: Sinusitis: Diagnosis and Treatment. Physician Assistant Studies Program, Massachusetts College of Pharmacy and Health Sciences, Boston, MA.
- 2001: Acute and Chronic Sinusitis. Physician Assistant program, Massachusetts College of Pharmacy and Health Sciences, Boston, Massachusetts.
- 2002: Surgical Management of Inferior Turbinate Hypertrophy. Division of Allergy and Immunology, Massachusetts General Hospital, Boston, MA.
- 2002: Laryngopharyngeal Reflux. Meetings and Events International, CME Consultants, Boston, Massachusetts.
- 2002: Medical History for the Sleepy Patient. In: “Diagnosis and Medical Treatment of the Sleepy Patient”. Interactive Committee Presentation (Sleep Disorders Committee), American Academy of Otolaryngology-Head and Neck Surgery Foundation annual meeting, San Diego, California.
- 2002: Optimizing Treatment to Minimize Bacterial Resistance: Focus on Respiratory Tract Infections. In: ALERT (Antimicrobial Education in Resistance and Treatment) Program, (CME Program), Boston, MA.
- 2002: Emerging Trends in the Management of Acute Respiratory Tract Infections. (CME Program). Boston, MA.
- 2002: Diagnosis and Management of Laryngopharyngeal Reflux (LPR). (CME program), Boston, MA.
- 2003: Acute bacterial sinusitis: A clinical update. Sponsored by GlaxoSmithKline Pharmaceuticals, Boston, MA.
- 2003: Sleep-disordered Breathing: Diagnosis and Treatment. Partners HealthCare Telemedicine Lecture Series (CME), ARAMCO, Dahrhan, Saudi Arabia (lecture given at Boston via telemedicine/videoconference).
- 2003: Clinical Evaluation and Management of Sleep-Disordered Breathing. Grand Round, Division of Allergy and Immunology, Massachusetts General Hospital, Boston, MA.
- 2003: Surgical Treatment of Sleep-Disordered Breathing. Grand Round, Emerson Hospital, Concord, MA.
- 2004: Laryngopharyngeal Reflux: Implications, Diagnosis and Treatment. Society of Otolaryngology-Head and Neck Surgeons, Monterrey, Mexico.

- 2004: Surgery for Sleep-disordered Breathing. Grand Rounds. Department of Otolaryngology-Head and Neck Surgery, University of Nueva Leon School of Medicine, Monterrey, Mexico.
- 2004: Panel and Case Presentations: Controversies in Snoring and Sleep Apnea. New England Otolaryngology Society (NEOS) meeting, Boston MA.

Visiting Professor

- 10/2002: Little Falls Hospital: "RTIs: A Focus on the Diagnosis and Management of Sinusitis". Little Falls, New York.
- 11/2002: Medical Center Hospital: "The Management of RTIs: Chronic Sinusitis: Management, Pathophysiology, and Clinical Presentation." Odessa, Texas.
- 3/2003: University of Nevada School of Medicine, Department of Family and Community Medicine: "Respiratory Tract Infections: A Focus on Bacteriology of Sinusitis". Las Vegas, Nevada.
- 8/2004: La Facultad de Medicina de la Universidad Autonoma de Nuevo Leon (University of Nueva Leon School of Medicine), Department of Otolaryngology-Head and Neck Surgery. "Surgery for Sleep Disordered Breathing". Monterrey, Mexico.

Presentations in Professional Regional/National Meetings

- 1989: Primary localized amyloidosis of the nose and paranasal sinuses. A case report with immunohistochemical observations and a review of the literature. ASPO Meeting, San Diego CA.
- 1989: Management of an unusual presentation of foreign body aspiration. ASPO Meeting, San Diego CA.
- 1991: Laser doppler measurements and electrocochleography during ischemia of the guinea pig cochlea: Implications for hearing preservation in acoustic neuroma surgery. ARO Meeting, St Petersburg, FL
- 1991: The Significance of a false-positive auditory brainstem response: A prospective study. Eastern Section Meeting of Triologic Society, Philadelphia, PA.
- 1993: Electrode placement during extratympanic electrocochleography. ARO Meeting, St. Petersburg, FL.
- 1994: The Significance of ABR and gadolinium-enhanced MRI for idiopathic sudden sensorineural hearing loss (ISSHL). Annual Meeting of American Academy of Otolaryngology-Head and Neck Surgery, San Diego, CA.
- 1996: Clinical presentation and management of labyrinthine fistulas caused by chronic otitis media. ARO Meeting, St. Petersburg, FL.
- 1996: Extent of lymphadenectomy achieved with various modifications of neck dissection: A pathologic study. Triologic Society Meeting, Palm Beach, FL.
- 1999: Maxillary sinus mucocoeles: Clinical presentation and long-term results of endoscopic surgical treatment. Eastern Section Meeting of the Triologic Society, Providence RI.

- 1999: Sarcoidosis presenting as recurrent nasal polyps. Eastern Section Meeting of the Triologic Society, Providence RI.
- 1999: Chronic invasive fungal sinusitis: Does it exist? American Rhinologic Society meeting, New Orleans, LA.
- 2000: Bacteriology of maxillary sinus mucoceles versus chronic sinusitis. Eastern Section Meeting of the Triologic Society, Pittsburgh, PA.
- 2000: Primary melanoma of the sphenoid sinus. Eastern Section Meeting of the Triologic Society, Pittsburgh, PA.
- 2000: Otologic manifestations of Amyloidosis: A case report with review of literature. Annual meeting of the Triologic Society, Orlando, Florida.
- 2000: Open Zenker's diverticulectomy using stapling techniques. Annual meeting of the American Bronch-Esophagological Association, Orlando, Florida.
- 2000: Are imaging studies necessary in the work-up of anosmia? IX International Rhinologic Society Congress, The Nose 2000...And Beyond, Washington, DC.
- 2001: Same stage nasal and palatopharyngeal surgery for OSA: Is it safe? Annual meeting of the American Academy of Otolaryngology-Head and Neck Surgery Foundation, Denver, Colorado.
- 2001: Ectopic normal gastric tissue in the cervical esophagus. Annual meeting of the American Academy of Otolaryngology-Head and Neck Surgery Foundation, Denver, Colorado.
- 2002: Endoscopic sinus surgery for inflammatory maxillary sinus pathology. Eastern Section of the Triologic Society, Philadelphia, Pennsylvania.
- 2002: Treatment of isolated sphenoid sinus disease with endoscopic sphenoidotomy without ethmoidectomy. Eastern Section of the Triologic Society, Philadelphia, Pennsylvania.
- 2002: Ethmoid mucocele as a late complication of endoscopic ethmoidectomy. Annual Meeting of the American Academy of Otolaryngology-Head and Neck Surgery Foundation, San Diego, California.
- 2003: Clinical outcomes of septoplasty in the geriatric population. Eastern Section of the Triologic Society meeting, Boston, Massachusetts.
- 2004: Correlation between clinical diagnosis and histopathologic findings in patients with sinonasal disease. Eastern Section of the Triologic Society meeting, NY, NY.

Presentations at International Meetings

- 2004: Laryngopharyngeal Reflux: Implications, Diagnosis and Treatment. Annual Meeting of the Society of Otolaryngology-Head and Neck Surgeons (Colegio de Especialistas en Cirugia de Oido, Nariz Y Garganta de Monterrey, A.C), Monterrey, Mexico.
- 2004: Professor Extranjero (Visiting Professor), "Theoretical- Practical Endoscopic Surgery Course" (Curso Internacional Teorico-Practico de Cirugia Y Diseccion Endoscopica de Nariz Y Senos Paranasales), Universidad Autonoma De Nuevo Leon, Monterrey, Mexico.
- 2004: Paranasal Sinus Mucocele: Pathophysiology and Surgical Treatment. Curso Internacional Teorico-Practico de Cirugia Y Diseccion Endoscopica de Nariz Y Senos Paranasales. "Theoretical- Practical Endoscopic Surgery Course", Universidad Autonoma De Nuevo Leon, Monterrey, Mexico.

- 2004: Rhinosinusitis: Is it Anatomic, Infectious, or Inflammatory Disease? Curso Internacional Theorico-Practico de Cirugia Y Diseccion Endoscopica de Nariz Y Senos Paranasales. "Theoretical- Practical Endoscopic Surgery Course", Universidad Autonoma De Nuevo Leon, Monterrey, Mexico.
- 2004: Nasal Polyposis: Clinical Presentaion, Pathophysiology and Treatment. Curso Internacional Theorico-Practico de Cirugia Y Diseccion Endoscopica de Nariz Y Senos Paranasales. "Theoretical- Practical Endoscopic Surgery Course", Universidad Autonoma De Nuevo Leon, Monterrey, Mexico.
- 2004: Headache and Facial Pain: Is It Sinus Disease? Does ESS Help? Curso Internacional Theorico-Practico de Cirugia Y Diseccion Endoscopica de Nariz Y Senos Paranasales. "Theoretical- Practical Endoscopic Surgery Course", Universidad Autonoma De Nuevo Leon, Monterrey, Mexico.
- 2004: Panel Discussion. "Sobre Dilemas en Sinusitis Y Cirugia Endoscopica de Senos Paranasales". Sesiones Mensuales Del Colegio de Especialistas en Cirugia de Oido, Nariz Y Garganta de Monterrey, A.C., Monterrey, Mexico.

Humanitarian/Medical Missions:

8/24 – 9/2/2002: Medical Mission for Children. Quito, Ecuador.

PART III: Bibliography

Original Articles:

- 1) Levine R, Busaba NY, Brown C. Laser doppler measurements and electrocochleography during ischemia of the guinea pig cochlea: Implications for hearing preservation in acoustic neuroma surgery. *Ann Otol Rhinol Laryngol*. 1993; 102 (2) 127-136.
- 2) Busaba NY, Rebeiz E, Salman S, Thornton A, West C. The Significance of a false-positive auditory brainstem response: A prospective study. *Am. J. Otology* 1994; 15: 233-236.
- 3) Busaba NY, and Rauch S. The Significance of ABR and gadolinium-enhanced MRI for idiopathic sudden sensorineural hearing loss (ISSHL). *Otolaryngology-Head and Neck Surgery*, 1995; 113: 271-275.
- 4) Busaba NY. Clinical presentation and management of labyrinthine fistulas caused by chronic otitis media. *Annal Otol Rhinol Laryngol* 1999; 108: 435-439.
- 5) Busaba NY, and Fabian R. Extent of lymphadenectomy achieved with various modifications of neck dissection: A pathologic study. *Laryngoscope* 1999; 109:212-215.
- 6) Busaba NY, and Salman SD. Maxillary sinus mucocoeles: Clinical presentation and long-term results of endoscopic surgical treatment. *Laryngoscope* 1999; 109: 1446-9.
- 7) Busaba NY, Siegel N, Salman SD. Bacteriology of non-traumatic maxillary sinus mucocoeles versus chronic sinusitis. *Laryngoscope* 2000;110:969-971.
- 8) Busaba NY, Ishoo E, Kieff D. Open Zenker's diverticulectomy using stapling techniques. *Annal Otol Rhinol Laryngol* 2001;110:498-501.
- 9) Busaba NY. Is imaging necessary in the evaluation of the patient with an isolated complaint of anosmia? *ENT (Ear, Nose and Throat) Journal* 2001; 80:892-896.
- 10) Busaba NY. Same stage nasal and palatopharyngeal surgery for OSA: Is it safe? *Otolaryngology-Head and Neck Surgery* 2002;126:399-403.
- 11) Busaba NY, Colden D, Faquin WC, Salman SD. Chronic invasive fungal sinusitis: A report of two atypical cases. *ENT (Ear, Nose, and Throat) Journal* 2002; 81: 462-466.
- 12) Busaba NY, Kieff D. Endoscopic sinus surgery for inflammatory maxillary sinus pathology. *Laryngoscope* 2002; 112:1378-1383.
- 13) Kieff D, Busaba NY. Treatment of isolated sphenoid sinus inflammatory disease by endoscopic sphenoidotomy without ethmoidectomy. *Laryngoscope* 2002; 112:2186-2188.

- 14) Busaba NY, Salman SD. Ethmoid mucocele as a late complication of endoscopic ethmoidectomy. *Otolaryngology-Head and Neck Surgery* 2003; 128:517-522.
- 15) Kieff DA, Busaba NY. Same-day discharge for selected patients undergoing combined nasal and palatal surgery of obstructive sleep apnea. *Annals of Otolaryngology, Rhinology, and Laryngology*, 2004; 113:128-131.
- 16) Kieff DA, Busaba NY. Non-dental related isolated chronic maxillary sinus opacification does not correlate with ipsilateral intranasal structural abnormalities. *Annals of Otolaryngology, Rhinology, and Laryngology* 2004; 113: 474-476.
- 17) Busaba NY, Siegel NS, Salman SD. Microbiology of chronic ethmoid sinusitis. Is this a bacterial disease? *American Journal of Otolaryngology*, 2004; 25: 379-384.
- 18) Busaba NY, Hossain M. Clinical outcomes of septoplasty and inferior turbinate reduction in the geriatric veterans population. *American Journal of Rhinology* 2004; 18: 343-347.
- 19) Busaba NY, Oliveira LV, Kieff DA. Correlation between clinical diagnosis and histopathologic findings in patients with sinonasal disease. *American Journal of Rhinology* 2005, 19: 153-157.
- 20) Kieff DA, Busaba NY. The efficacy of monteleukast in the treatment of nasal polyposis: A pilot study. Accepted for publication in the *Annals of Otolaryngology, Rhinology and Laryngology*, 6/2005.

Reviews, Chapters, Editorials:

- 1) Busaba NY, and Salman S. Management of upper airway obstruction: Intubation vs tracheotomy. *Lebanese Medical Journal* 1994; 42: 235-239.
- 2) Busaba NY. The nose in snoring and obstructive sleep apnea. *Current Opin in Otolaryngol Head Neck Surg* 1999; 7: 11-13.
- 3) Busaba NY. Obstructive Sleep Apnea. In: K.J. Lee (editor). *Essential Otolaryngology*, 8th edition, Chapter 32. McGraw-Hill, New York, 2002.
- 4) Busaba NY. The Nasopharynx: an Overview. In: Salman SD (editor). *An Atlas of the Nasopharynx*. Parthenon Publishing, New York, 2003.
- 5) Lewis D, Busaba NY. Surgical Management of Sinusitis. In: Brook I (editor). *Sinusitis*. Marcel Dekker, Inc, NY, NY. (In Press).

Clinical Communications (Case reports):

- 1) Mufarrij AA, Busaba NY, Zaytoun GM, Gallo GR, Feiner HD. Primary localized amyloidosis of the nose and paranasal sinuses. A case report with immunohistochemical observations and a review of the literature. *Am.J.Surg.Path.* 1990; 14(4): 379-83.
- 2) Ramadan HH, Busaba NY, Baraka A, and Mroueh S. Management of an unusual presentation of foreign body aspiration. *The Journal of Laryngology and Otology* 1992; 106: 751-752.
- 3) Megerian C. Busaba NY, McKenna M. Ojamen R. Post microvascular decompression Teflon granuloma presenting as an enlarging cerebellopontine angle mass. *Am. J. Otology* 1995; 16: 783-786.
- 4) Busaba NY, and Poulin M. Invasive *Pseudallescheria Boydii* fungal infection of the temporal bone. *Otolaryngology-Head and Neck Surgery*, 1997; 117: s91-94.
- 5) Colden D, Busaba NY. Sarcoidosis presenting as recurrent nasal polyps. *Otolaryngology Head and Neck Surgery* 2000; 123:519-521.
- 6) Busaba NY. Primary melanoma of the sphenoid sinus. *Otolaryngology-Head and Neck Surgery* 2000; 123:748-749.
- 7) El-Sayed I, Busaba NY. Otologic manifestations of Amyloidosis. *Otology and Neurotology* 2002; 23:158-159.
- 8) Ishoo E, Busaba NY. Ectopic normal gastric tissue in the cervical esophagus. *American Journal of Otolaryngology* 2002; 23:181-184.

Abstracts:

- 1) Sillman J, and Busaba NY. Laser-Doppler measurements of facial nerve blood flow. Presented at the American Neurotology Society annual meeting, Los Angeles CA, April 18, 1993.
- 2) Busaba NY, Herrmann B, Thornton AA, and West CA. "Electrode placement during extratympanic electrocochleography". Presented at the ARO meeting, St. Petersburg, Florida, February 1993.
- 3) Durand ML, Busaba NY, Varvares MA. Rhinocerebral Mucormycosis without intra-nasal mucosal necrosis. Presented at the annual meeting of the American Academy of Otolaryngology-Head and Neck Surgery, September 2000, Washington DC.
- 4) Busaba NY, Sin HJ, Faquin W. Correlation between Middle Turbinate and Ipsilateral Ethmoid Histopathology in Chronic Rhinosinusitis. Accepted for oral presentation at the upcoming annual meeting of the American Academy of Otolaryngology – Head and Neck Surgery, Los Angeles, CA, September 25, 2005.

- 5) Busaba NY, Sin HJ, Salman SD. The Impact of a Patient's Age on the Clinical Presentation of Inflammatory Sinus Disease. Accepted for oral presentation at the upcoming annual meeting of the American Academy of Otolaryngology – Head and Neck Surgery, Los Angeles, CA, September 28, 2005.
- 6) Busaba NY and Sin HJ. The Impact of Gender on the Clinical Presentation of Inflammatory Paranasal Sinus Disease. Submitted for presentation at the upcoming meeting of the Eastern Section of the Triologic Society, Toronto, Canada, January 2006.