Curriculum Vitae

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Name: Adnan Majid, M.D.

Office Address: Interventional Pulmonology

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Place of Birth: Coral Gables, Florida

Education

7/90 – 7/96 Medical Doctor University of Rosario,

School of Medicine

Postdoctoral Training

7/99 – 7/00	Intern	Internal Medicine	Cook County Hospital
7/00 – 7/01	Resident	Internal Medicine	Cook County Hospital
7/01 – 7/02	Resident	Internal Medicine	University of Massachusetts Medical Center
7/03 – 6/06	Fellow	Division of Pulmonary, Critical Care & Sleep Medicine	Tufts University School of Medicine, New England Medical Center
7/06 — 6/07	Fellow	Division of Thoracic Surgery & Interventional Pulmonary	Harvard Medical School Beth Israel Deaconess Medical Center

Faculty Academic Appointments

7/02 – 6/03	Assistant Professor	Department of Medicine	University of Massachusetts Medical School
7/03 – 6/06	Instructor	Department of Medicine	Tufts University School of Medicine
7/07 – 11/10	Instructor	Department of Medicine	Harvard Medical School
12/10- present	Assistant Professor	Department of Medicine	Harvard Medical School

Appointments at Hospitals/Affiliated Institutions

Appointments at nospitals/Anniated institutions				
7/96 – 7/97	Attending Physician	Emergency Department (Social Service)	Hospital San Juan de Dios	
7/02 – 6/03	Attending Physician	Hospitalist	University of Massachusetts	
7/04 - present	Staff Physician	Critical Care Medicine	Winchester Hospital	
7/06 – present	Staff Physician	Division of Pulmonary & Critical Care	Beth Israel Deaconess Medical Center	
7/06 – present	Staff Physician	Division of Thoracic Surgery & Interventional Pulmonary	Beth Israel Deaconess Medical Center	
Major Administrative I	_eadership Positions			
10/1- present	Director	Chest Disease Center / Interventional Pulmonary	Beth Israel Deaconess Medical Center	
7/09 –present	Director	Interventional Pulmonary Fellowship	Beth Israel Deaconess Medical Center	
7/07 -present	Director	Medical Procedure Service	Beth Israel Deaconess Medical Center	
12/07 –6/09	Associate Director	Interventional Pulmonary Fellowship	Beth Israel Deaconess Medical Center	
7/08	Course Director	Introduction to Bronchoscopy and Pulmonary Procedures Carl J. Shapiro Simulation and Skill Center	Beth Israel Deaconess Medical Center	
3/09	Course Director	Basics in US and US Guided Thoracentesis Carl J. Shapiro Simulation and Skill Center	Beth Israel Deaconess Medical Center	
6/09	Course Co-Director	The First Pulmonary and Critical Care Fellows Introductory Conference	Tufts Medical Center	
9/09	Course Co-Director	Pulmonary Update ACCP New England States Chapter	Beth Israel Deaconess Medical Center	
3/11	Course Director	Introduction to Interventional Pulmonology Carl J. Shapiro Simulation and Skill Center	Beth Israel Deaconess Medical Center	

3/11	Course Director	Basics in US and US Guided Thoracentesis Carl J. Shapiro Simulation and Skill Center	Beth Israel Deaconess Medical Center
4/11	Course Director	Basics in US and US Guided Thoracentesis Carl J. Shapiro Simulation and Skill Center	Beth Israel Deaconess Medical Center
7/11	Course Director	Introduction to Bronchoscopy and Pulmonary Procedures Carl J. Shapiro Simulation and Skill Center	Beth Israel Deaconess Medical Center
Committee Service			
10/07 -present	Council Member	Massachusetts Thoracic Societ	у
8/08-present	Committee Member L	JS and Interventional Procedures Beth Israel Deaconess Medica	•

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0.00	2001 –present	Massachusetts Medical Society
	2003 -present	American College of Chest Physicians
	2003 -present	American Thoracic Society
	2003 -present	Massachusetts Thoracic Society
	2003 -present	Society of Critical Care Medicine
	2005 -present	American Association of Bronchology

Honors and Prizes

1996	4 th among 50 students for 5 years
2005	Young Investigator Award for CHEST 2005
2007	Young Investigator Award for CHEST 2007

2007 Chest Challenge Award – Best Critical Care Presentation, Co-Author with Jorge

Guerrero, MD, Cardiogenic Shock Secondary to Takasubo Syndrome after

debridment of malignant endobronchial obstruction, CHEST 2007

Report of Funded and Unfunded Projects

Unfunded Projects

2009-present Principal investigator Correlation between the Volume of Pleural Fluid

Drained During a Thoracentesis and

Improvement in Dyspnea Score: A Descriptive

Study

2009-present	Co-investigator	Silicone Stents in Benign Airway Disease: Bacterial Colonization, Granulation Tissue Response, and Mucus Retention
2009-present	Co-investigator	A Prospective, Single Institution, Internally Controlled Comparison Study of EndoBronchial UltraSound (EBUS) guided Trans-Bronchial Needle Aspiration (TBNA) with Cervical Mediastinoscopy for use in the staging of Non- Small Cell Lung Cancer (NSCLC)
2008-present	Principal Investigator	Gas Embolism with Use of Argon Plasma Coagulation
2008-present	Co-investigator	Tracheal Replacement with Native and Cryo-preserved Aortic Tissue in the Animal Model

Industry Sponsored Projects

Co-investigator

2007-present

2009-present	Co-investigator	A Prospective, Randomized, Open Label,
		Multicenter, Pilot Study to Evaluate the ROX

Anastomotic Coupler System (ACS) in Patients with Chronic Obstructive Pulmonary Disease

(ROX Medical)

and Subglottic Stenosis

2008-present Co-investigator Airway Gene Expression in the Diagnosis of

Lung Cancer (Allegro Diagnostics, Inc.)

Matrix Biology of Tracheobronchomalacia

2006-present Co-investigator EASE(TM) Study (Exhale(R) Airway stents for

Emphysema): A Randomized, Double-blind Study to Evaluate the Safety and Effectiveness

of the Exhale Drug-Eluting Stent in

Homogeneous Emphysema Subjects with Severe Hyperinflation (Broncus Technologies,

Inc.)

Report of Local Teaching and Training Teaching of Medical Students

2008-2009 Lecturer Chest Physical Diagnosis Harvard Medical School 2nd Year HMS 2 hours

Teaching of Residents and Clinical Fellows

2007-2008	Hands-on	Airway Management / Bronch Simulation	BIDMC
		Anesthesia Residents	1 hour/mo
2007-2009	Hands-on	Bronchoscopy Simulator	BIDMC

		Thoracic Residents	1 hour/mo
2007-2009	Hands-on	Airway Management Bronch Simulation	BIDMC
		Emergency Medicine Residents	1 hour/mo
2007-2009	Lecturer	Central Airway Obstruction	BIDMC
		2-3 rd year IM Residents	1 hour/yr
2007-2009	Lecturer	Noninvasive Ventilation	BIDMC
		2-3 rd year IM Residents	1 hour/yr
2007-2010	Lecturer	Approach to Pleural Effusion	BWH
		1 year Pulm/CC fellows	1 hour/yr
2007-2010	Lecturer	Hemoptysis	BIDMC
		2-3 rd year IM Residents	1 hour/yr
2009-2010	Lecturer	Tracheotomy: Complications	BIDMC
		2-3 rd year IM Residents	1 hour/yr

Clinical Supervisory and Training Responsibilities

2006 -present	Attending Physician	IP Fellow	3 wks/month
2006 -present	Attending Physician	Medical Procedure Resident	2 wks/month
2006 –present	Attending Physician	Pulmonary & Critical Care Fellow	6 wks/year

Formerly Supervised Trainees

7/10 – 6/11	Supervisor	Andres F. Sosa, MD	Attending Physician, University of Massachusetts Medical Center
7/10 — 6/11	Supervisor	Renelle Myers, MD	Attending Physician, University of Manitoba
7/09 – 6/10	Supervisor	Saman Rafeq, MD	Attending Physician, Tufts University School of Medicne
7/09 – 12/09	Supervisor	Dilip Nataraj, MD	Attending Physician, Harvard Medical School
7/08 – 11/09	Supervisor	Saleh Alazemi, MD	Attending, University of Kuwait
7/08 – 6/09	Supervisor	David Berkowitz, MD	Attending, Emory University School of Medicine
7/07 - 6/08	Supervisor	Chakravarthy Reddy, MD	Attending, University of Utah

Formal Teaching of Peers

9/06	Lecturer	Endoscopic Ultrasound: Ultrasound Basics Harvard Medical School Continued Medical Education Beth Israel Deaconess Medical Center	Lecturer/Hands-on
12/06	Lecturer	The Management of Pleural Diseases: Thoracentesis & Ultrasound Guidance Harvard Medical School Continued Medical Education	Lecturer/Hands-on

		Beth Israel Deaconess Medical Center	
1/07	Lecturer	Advanced Diagnostic Bronchoscopy Harvard Medical School Continued Medical Education Beth Israel Deaconess Medical Center	Lecturer/Hands-on
9/07	Lecturer	Endoscopic Ultrasound: Ultrasound Basics Harvard Medical School Continued Medical Education Beth Israel Deaconess Medical Center	Lecturer/Hands-on
12/07	Lecturer	The Management of Pleural Diseases: Thoracentesis & Ultrasound Guidance Harvard Medical School Continued Medical Education Beth Israel Deaconess Medical Center	Lecturer/Hands-on
7/08	Lecturer	Introduction to Bronchoscopy & Pulmonary Procedures Course US Guided Thoracentesis / Central Venous Catheters Harvard Medical School Beth Israel Deaconess Medical Center	Lecturer/ Hands-on
8/08	Lecturer	Endoscopic Ultrasound: Ultrasound Basics Harvard Medical School Continued Medical Education Beth Israel Deaconess Medical Center	Lecturer/Hands-on
8/08	Lecturer	Endoscopic Ultrasound: Live Case Harvard Medical School Continued Medical Education Beth Israel Deaconess Medical Center	Lecturer/Hands-on
9/08	Lecturer	Advanced Bronchoscopy: Electromagnetic Navigation Bronchoscopy Harvard Medical School Continued Medical Education Beth Israel Deaconess Medical Center	Lecturer/Hands-on
9/08	Lecturer	Advanced Bronchoscopy: Rigid Bronchoscopy Harvard Medical School Continued Medical Education Beth Israel Deaconess Medical Center	Lecturer/Hands-on
9/08	Lecturer	Advanced Bronchoscopy: Tracheobronchomalacia Harvard Medical School Continued Medical Education Beth Israel Deaconess Medical Center	Lecturer/Hands-on
12/08	Lecturer	The Management of Pleural Diseases: Thoracentesis & Ultrasound Guidance Harvard Medical School	Lecturer/Hands-on

Beth Israel Deaconess Medical Center 3/09 Lecturer Overholt Symposium: Lecturer Electromagnetic Navigation Bronchoscopy Harvard Medical School **Continued Medical Education** Beth Israel Deaconess Medical Center 4/09 Lecturer Introduction to Interventional Pulmonology: Lecturer / Hands- on Egyptian Thoracic Society **Endobronchial Ultrasound** Carl J. Shapiro Simulation and Skill Center Beth Israel Deaconess Medical Center Harvard Medical School 5/09 Lecturer Endoscopic Ultrasound: Lecturer / Hands- on Conventional Endoscopic Staging Harvard Medical School Continued Medical Education Beth Israel Deaconess Medical Center 6/09 The First Pulmonary and Critical Care Lecturer Lecturer Fellows Introductory Conference Tracheal Disorders Tufts Medical Center 7/09 Lecturer Introduction to Bronchoscopy & Pulmonary Lecturer/ Hands-on Procedures Course US Guided Thoracentesis / Central Venous Catheters Harvard Medical School Beth Israel Deaconess Medical Center 10/09 Lecturer Endoscopic Ultrasound: Ultrasound Basics Lecturer/Hands-on Harvard Medical School Continued Medical Education Beth Israel Deaconess Medical Center The Management of Pleural Diseases: Lecturer/Hands-on 12/09 Lecturer Thoracentesis & Ultrasound Guidance Harvard Medical School Continued Medical Education Beth Israel Deaconess Medical Center 5/10 Lecturer Endoscopic Ultrasound: Lecturer / Hands- on **Ultrasound Basics** Harvard Medical School Continued Medical Education Beth Israel Deaconess Medical Center 6/10 The Second Pulmonary and Critical Care Lecturer Lecturer Fellows Introductory Conference Tracheal Disorders **Tufts Medical Center** Boston, MA

Continued Medical Education

3/11 Lecturer Endoscopic Ultrasound: Lecturer / Hands- on

Ultrasound Basics and US Guided Thoracentesis

Harvard Medical School

Beth Israel Deaconess Medical Center

4/11 Lecturer Endoscopic Ultrasound: Lecturer / Hands- on

Ultrasound Basics and US Guided Thoracentesis

Harvard Medical School

Beth Israel Deaconess Medical Center

Report of Regional, National and International Invited Teaching and Presentation

Regional

4/ 2009 Southcoast Hospitals Group Lecturer

Annual Spring Conference Central Airway Obstruction Dartmouth, Massachusetts

5/2010 Tracheotomy: Complications and therapeutics Lecturer

Pulmonary Grand Rounds New England Sinai Hospital

Stoughton, MA

2/2011 Interventional Pulmonary: An Update Lecturer

Medical Grand Rounds

Merrimack Valley Medical Center

Haverhill, MA

2/2011 Interventional Pulmonary: An Update Lecturer

Pulmonary Grand Rounds New England Sinai Hospital

Stoughton, MA

11/2011 Interventional Pulmonology: An Update Lecturer

Pulmonary Grand Rounds

New England Baptist Hospital

Boston, MA

12/2011 Interventional Pulmonology: An Update Lecturer

Pulmonary Grand Rounds New England Baptist Hospital

Boston, MA

National

7/2005 Tracheobronchomalacia

Pulmonary Grand Rounds

Lecturer

MD Anderson Cancer Center

Houston, TX

10/2007 Rigid Bronchoscopy Workshop, Hands-on

	CHEST 2007, American Association of Bronchol Chicago, IL	ogy,
10/2008	Argon Plasma Coagulation and Cryotherapy Work CHEST 2008, Americal Association of Bronchold Philadelphia, Pennsylvania	
8/2008	Tracheomalacia: A Practical Approach 15 th Annual Pulmonary Critical Care Health Sym _l Johnson City Medical Center, Johnson City, TN	Lecturer posium,
9/2009	Tracheostomy Related Complications Therapeutic Bronchoscopy Course New York Methodist Hospital, Bronx, NY	Lecturer/ Hands-on
9/2009	Introduction to Rigid Bronchoscopy Therapeutic Bronchoscopy Course New York Methodist Hospital, Bronx, NY	Lecturer/ Hands-on
10/2009	Endoscopic diagnosis of early-stage lung cancer State-of – the Art of Lung Cancer Management STS/ACCP Session at CHEST 2009 San Diego, CA	Lecturer
10/2009	Interventional Pulmonary Procedures Poster Session at CHEST 2009 San Diego, CA	Moderator
6/2010	Tracheostomy Related Complications and Thera Pulmonary Grand Rounds North Western Memorial Hospital Chicago, IL	peutics Lecturer
Internat	tional	
11/2009		Lecturer/ Hands-on
5/2010	Interventional Pulmonology: Present and Future Clinical Alemana Santiago de Chile	Lecturer
3/2011	Combined EBUS and EUS: A New diagnostic too Clinical Alemana- Universidad Del Desarrollo Santiago de Chile	ol Lecturer
5/2011	Tracheobronchomalacia: Classification, Pathophysiology and Diagnosis XII International Meeting on Respiratory Endosco Sitges, Spain	Lecturer
8/2011	Staging of Lung Cancer: Endoscopic Techniques Clinical Alemana- Universidad Del Desarrollo Santiago de Chile	Lecturer/ Hands-on
8/2011	Management of Malignant Central Airway Obstru-	ction Lecturer

Clinical Alemana- Universidad Del Desarrollo Santiago de Chile

Report of Clinical Activities and Innovations

Current Licensure and Certification

1997	Colombian Medical License
1998	ECFMG Certification
2002	Commonwealth of Massachusetts Medical License
2002	Commonwealth on Massachusetts DEA
2002	Federal DEA
2002	American Board of Internal Medicine
2005	American Board of Internal Medicine/Pulmonary Disease
2007	American Board of Internal Medicine/Critical Care Medicine

Practice Activities

2004-present	ICU Moonlighter/Hospital practice/ Winchester Hospital	1 shift/ month
2006-present	Interventional Pulmonology/Hospital practice/BIDMC	4 days/ week
2007-present	ICU Attending/ Hospital Practice/ BIDMC	4-6 weeks/ year

Clinical Innovations

- <u>Linear Endobronchial Ultrasound (EBUS)</u>- uses a bronchoscope with a linear ultrasound probe attached to the distal end for real time sampling of mediastinal and hilar lymph nodes/masses. This is a minimally invasive approach to lung cancer staging and has revolutionized current clinical practice.
- <u>Radial Endobronchial Ultrasound (EBUS)</u>- uses a high frequency radial probe which allows us to characterize the different layers of the airway wall and helps determine the stage of the tumor. The use of this technology has significant prognostic and therapeutic implications.
- 3) <u>Electromagnetic Navigation Bronchoscopy (EMNB)</u>- uses an electromagnetic field, a steerable sensor at the tip of the bronchoscope and CT images to guide bronchoscopic tools towards the periphery of the lung. This has allowed us to sample peripheral lung lesions in a minimally invasive way.
- 4) Narrow Band Imaging (NBI)- is an optical filter technology that radically improves the visibility of capillaries, veins and other tissue structures. When used in the airways it is extremely sensitive for detecting pre-neoplastic lesions.

Report of Scholarship

Publications

Peer Reviewed Publications in print or other media

 Majid A, Lunn W, Garland R, Nakamura Y, Kocher O, Feller-Kopman D, Becker HD, Herth F, Decamp M, Ernst A. Effects of Radiofrequency Energy in Metallic Stent Removal. J of Bronchology 2005; 12:196-199

- Ernst A, Majid A, Feller-Kopman D, Guerrero J, Boiselle P, Loring S, O'Donnell C, Decamp M, Herth FJF, Gangadharan S, Ashiku S. Airway Stabilization with Silicone Stents for Treating Adult Tracheobronchomalacia. CHEST 2007; 132:609-612
- Karen SL, Maryellen R, Sun MD, Ernst A, Feller-Kopman D, Majid A, Boiselle P. Comparison of Dynamic Expiratory CT with Bronchoscopy for Diagnosing Airway Malacia: A Pilot Evaluation. CHEST 2007; 131(3):785-764
- 4. Lee KS, Ashiku S, Ernst A, Feller-Kopman D, **Majid A**, Guerrero J, Boiselle P. Comparison of Expiratory CT airway abnormalities before and after tracheobronchoplasty surgery for Tracheobronchomalacia. Journal of Thoracic Imaging. May 2008, 23(2): 121-126
- Majid A, Guerrero J, Feller-Kopman D, Ashiku S, Gangadharan S, Michaud G, Herth F, Ernst A. Tracheoplasty for Severe Tracheobronchomalacia: A Prospective Outcome Analysis. CHEST.2008; 134: 801-807
- 6. **Majid A,** Ernst A, Begolli M, Canas A. Riesgos y recomendaciones para la realizacion de broncoscopia flexible en la paciente embarazada. Rev. Colomb. Neumol. 2008; 2008;20(2): 45-52
- 7. Reddy C, **Majid A**, Michaud G, Ernst A. Gas Embolism Following Bronchoscopic Argon Plasma Coagulation: A Case Series. CHEST 2008;134:1066-1069
- 8. Anantham D, Herth F, **Majid A**, Michaud G, Ernst A. Vibration Response Imaging in Detection of Pleural Effusions: A Feasibility Study. Respiration 2008; 77:166-172
- 9. Guerrero J, **Majid A**, Ernst A. Cardiogenic Shock Secondary to Tajasubo Syndrome after debridment of malignant endobronchial obstruction.. CHEST 2009;135;217-220
- Alazemi S, Ernst A, Michaud G, Majid A. Mediastinal migration of self-expanding bronchial stents in the management of malignant bronchoesophageal fistula. CHEST-2009:135:1353-1355
- Reddy C, Michaud G, Majid A, Herth F, Ernst A. Photodynamic Therapy in the Management of Endobronhial Metastatic Lesions from Renal Cell Carcinoma. J Bronchol Intervent Pulmonology 2009; 16:245-249
- 12. **Majid A,** Fernandez L, Fernandez- Bussy S, Herth F, Ernst A, Tracheobronchomalacia. Arch Bronconeumol 2010;46:196-202
- Alazemi S, Majid A, Ruiz A, Litmanovich D, Feller-Kopman D, Ernst A. An Elderly Woman with chronic dyspnea and an endobronchial lesion. CHEST 2010. ;137;460-466
- 14. Alazemi S, Lunn W, **Majid A,** Berkowitz D, Michaud G, Feller-Kopman D, Herth F, Ernst A. Outcomes, Healthcare Resources Utilization and Costs of Endoscopic Removal of Metallic Airway Stents. CHEST 2010. In Press
- Fernández-Bussy S, Majid A, Caviedes I, Akindipe O, Baz M, Jantz M.
 Tratamiento de Complicaciones en la via aerea post transplante pulmonar. Arch Bronconeumol 2011; Arch Bronconeumol. 2011 Mar;47(3):128-33

- Gangadharan S, Bakhos C, Majid A, Kent M, Michaud G, Ernst A, Simon A, DeCamp M. Technical aspects and outcomes of tracheobronchoplasty for severe tracheobronchomalacia. Annal of Thoracic Surg 2011; Ann Thorac Surg. 2011 May;91(5):1574-80
- 17. Nguyen, KS, Sanford R, Huberman, M, Goldstein M, McDonald D, Farquhar M, Gangadharan S, Kent M, Michaud M, Majid A, Berman S, Aronovitz J, Nedea E, Boiselle P, Cohen D, Kobayashi S, Costa D. Patterns of care for non-small-cell lung cancer at an academic institution affiliated with a National Cancer Institute-designated cancer center. J of Onc Practice 2011; 0211-000274
- 18. Odell D, Shah A, Gangadharan S, **Majid A**, Michaud G, Herth F, Ernst A. Airway Stenting and Tracheobronchoplasty Improve Respiratory Symptoms in Mounier-Kuhn Syndrome. CHEST 102010published ahead of print April 14, 2011, doi:10.1378/chest.10-2010
- Ernst, A, Odell D, Michaud G, Majid A, Herth F, Gangadharan S. Central Airway Stabilization for Tracheomalacia Improves Quality of Life in Patients with Chronic Obstructive Pulmonary Disease. CHEST published ahead of print August 2011,10.1378/chest.10-3051
- 20. O'Dell D, Gangadharan S, **Majid A**, Pulmonary Artery Sling: A Rare Cause of Tracheobronchomalacia in the Adult. Journal of Bronchology and Interventional Pulmonology. JOB-D-11-00045
- 21. Berkowitz D, Alazemi S, **Majid A**, Michaud G, Ernst A. Pneumothorax After Reexpansion Pulmonary Edema: Experience with 2 Patients. Journal of Bronchology and Interventional Pulmonology. 2011; 18 (4):343

Non-peer reviewed scientific or medical publications/materials in print or other media

- Majid A, Hill N. Noninvasive ventilation for Acute Respiratory Failure, Curr Opin Crit Care 11:77-81. 2005
- 2. **Majid A**, Ernst A., Response: Tracheoplasty for Severe Tracheobronchomalacia. Chest 2009;135:1404
- 3. Alazemi S., Mackey R., Gangadharan S., **Majid A.**, Pulmonary and Thoracic Simulation. Textbook of Simulation, Surgical Skills and Team Training. Cine-Med, Inc. In press
- 4. Kurugundla N, **Majid A.**, Riquelme L, Sung A. Examination of the Larynx through Flexible Bronchoscopy, Flexible Bronchoscopy 3rd Edition. Blackwell Science. In press

Abstracts

- Majid A, Ashiku S, Feller-Kopman D, Gorden J, Sung A, DeCamp M, Ernst A.
 Tracheobronchoplasty for Severe Tracheobronchomalacia can safely be performed in patients with multiple co-morbidities. ATS 2006 Poster
- 2. Anantham D, Feller-Kopman, Majid A, Ernst A. Vibration Response Imaging in the

- Quantification of Pleural Effusion. CHEST 2007- Poster
- **3.** Garland R, Hisashi T, **Majid A**, Ernst A. Bronchoscopy Related Repair Costs in an Active Interventional Pulmonology Program. CHEST 2008- Poster
- **4.** Rafeq S, **Majid A**, Michaud G, Ernst A. Bronchoscopic Imaging Using Fibered Confocal Fluorescence Microscopy. ATS 2009- Poster
- **5.** Nataraj D, **Majid A**, Ernst A. Gas Embolism with the Use of Argon Plasma Coagulation. ERS 2009- Oral Presentation
- **6. Majid A**, Sosa A, Gangadharan S, Ernst A. The Effect of Tracheobronchoplasty on Lung Hyperinflation- A prospective descriptive Analysis. ERS 2009- Poster
- **7.** Nataraj D, **Majid A**, Ernst A. Prevalence of Gastroesophageal reflux in patients with tracheobronchomalacia. ERS 2009- E- Communication
- **8.** Nataraj D, **Majid A**, Ernst A. Gastroesophageal reflux disease and subglotic stenosis. ERS 2009- Oral Presentation
- **9.** Shah A, **Majid A,** Gangadharan S, Michaud G, Ernst A. Central Airway Stabilization for Mounier-Kuhn Syndrome. CHEST 2009- Poster
- **10.** Nataraj D, **Majid A**, DeCamp M, Kent M, Gangadharan S, Michaud G, Lembo A, Chuttanni R, Herth F, Ernst A. Tracheobronchomalacia and Gastroesophageal Disease. CHEST 2009-Poster
- **11.** Nataraj D, Sugimoto H, Dewar R, **Majid A**, Gangadharan S, Herth F, Kalluri R, Ernst A. Histopathology of Tracheobronchomalacia. CHEST 2009- Poster
- **12.** Nataraj D, **Majid A**, Mahmood F, Alazemi S, Berkowitz D, Michaud G, Herth F, Ernst A. Gas Embolism with Argon Plasma Coagulation. CHEST 2009- Oral Presentation
- **13.** Sosa, A, **Majid A**, O'Donnell C, Gangadharan S, Shah A, Michaud G, Ernst A. Pulmonary Function Tests and The Flow Volume Loops In Patietns With Severe Tracheobronchomalacia. CHEST 2009- Poster
- **14.** Reddy C, **Majid A**, Michaud G, Ernst A. Airway Stabilization in Tracheobronchomalacia: Correlation between Subjective Improvement and Objective Measures. CHEST 2009- Poster
- **15.** Fernandez L, **Majid A**, Kent M, Fernandez-Bussy S, Herth F, Ernst A. External Fixation of Subglottic and Proximal Tracheal Airway Stents: A New Technique. ERS 2010- Poster
- 16. Sosa A. Majid A. Tavernelli D, Alazemi S, Feller-Kopman D, Yasufuki K, Tabba M, Oliveira P, Herth F, Ernst A. Endobronchial Ultrasound Simulator: A Validation Study. ERS 2010-Oral Presentation
- **17.** Sanchez J, **Majid A**, Fernandez-Bussy, S, Tabba M, Sung A, Sosa A, Gangadharan S, Herth F, Ernst A. Assessment of airway collapse in adult tracheobronchomalacia: Correlating subjective visual quatification and colour histogram mode technique. ERS 2010- Poster
- **18.** Odell D, **Majid A**, S. Gangadharan, A. Ernst. Adoption of a standardized protocol decreases serious complications of airway stenting in patients with tracheobronchomalacia. CHEST 2010- Oral Presentation
- 19. Odell D, Majid A, S. Gangadharan .Pulmonary Artery Sling: A Rare Cause of

Tracheomalacia in the Adult. CHEST 2010- Oral Presentation

- Myers R, Majid A. Cryotherapy and cryodebridment for Metallic Stent Removal: A case report. ATS 2011- Poster
- **21.** Stephen C, Myers R, Kotova S, **Majid A**. A rare case of tracheobronchila amyloidosis in a patient with Sjogren's syndrome presenting with Hemoptysis and post-obstructive pneumonia. ATS 2011- Poster

Narrative Report

Interventional Pulmonology is the major focus of my clinical practice, research and education. Interventional Pulmonology is a relatively new sub-specialty of Pulmonary Medicine that involves highly technical diagnostic and therapeutic procedures on the airways, lungs and pleura. These require very specialized skills only available in a small number of academic centers in the US and around the world.

The Division of Interventional Pulmonology at Beth Israel Deaconess Medical Center (BIDMC) is recognized worldwide as a leader in this field. I am actively involved in the innovation of new technologies as well as both industry sponsored and clinician initiated research. Currently, I am involved as a principal investigator and co-investigator in multiple clinical trials.

The Division has also gained national and international recognition for excellence in teaching of these complex techniques. As an expert in this field, I have been invited to participate in multiple courses throughout the year to teach advanced diagnostic and therapeutic bronchoscopy, endobronchial ultrasound, and pleural disease.

As recognition to my experience both in the clinical and research, I was asked to direct a one year fellowship program in Interventional Pulmonology at BIDMC, which provides advanced training to two qualified pulmonologist each year and has trained nationally recognized authorities in the field.

In order to improve the procedural education of all trainees in chest medicine from the region, I am directing a yearly course for basic bronchoscopy and pulmonary procedures which is open to all clinical fellows in pulmonary medicine and thoracic surgery from training programs around the New England area.

Due the to my background and experience I was appointed as Director of the Medical Procedure Service at BIDMC, dedicated to improve the procedural education to medical and surgical house staff, providing high quality teaching, supervision, and standardization of commonly performed procedures such as central venous catheterization, thoracentesis, paracentesis and lumbar punctures.

Our division recently joined the Carl J. Shapiro Simulation and Skills Center at BIDMC, which offers the latest advances in medical simulation technology to BIDMC, neighboring institutions and the global healthcare field in a new, state-of-the-art facility. The Center provides realistic training opportunities for learners at all levels and in different fields. I have also designed a curriculum in Thoracic Endoscopy to train residents and fellows in this field, and have directed these sessions for the past two years.

Finally, I am strongly committed to the advancement of my field on the national and international scene and regularly I am regularly invited to participate in educational activities at other sites including presentations at national and international conferences and hands-on courses.