

Department of Cardiothoracic Surgery New York Presbyterian/Weill Cornell Medical College

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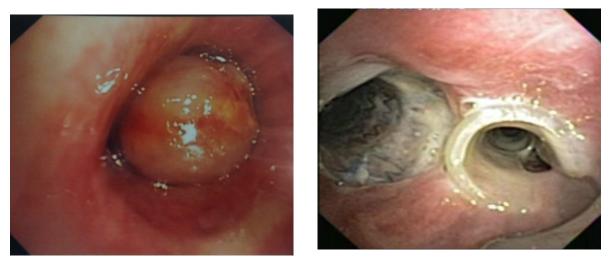
p: 212-746-6275 f: 212-746-8223 https://weillcornell.org/eshostak



Multidisciplinary Lung Cancer Program

We provide advanced therapeutic bronchoscopy for evaluation and management of patients with lung cancer.

Ablative Techniques	Airway Stenting		
• Laser	Silicone stents		
Argon Plasma Coagulation (APC)	Metallic stents		
Electrocautery	Hybrid stents		
Cryotherapy			
Microdebrieder			



Rigid bronchoscopy with airway stenting in patient with malignant central airway obstruction.



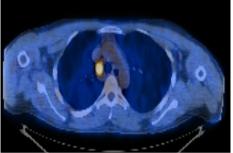
Pulmonary Nodule & Lung Cancer Screening Program

We provide comprehensive evaluation of patients with pulmonary nodules. Lung cancer screening is offered to appropriate patients using a low dose CT screening under the guidance of a coordinated, multidisciplinary team of experts. We also provide smoking cessation therapy and support groups for compassionate counseling and education. Please call 212-746-6275 for more information.

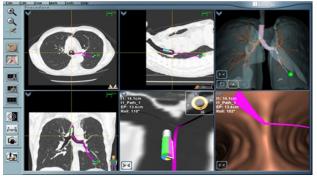


Advanced Diagnostic Bronchoscopy

We utilize endobronchial ultrasound (EBUS) and electromagnetic navigational bronchoscopy to perform minimally invasive mediastinal and hilar lymph node sampling and biopsies of peripheral pulmonary nodules during the same procedure.



PET avid mediastinal lymphadenopathy





EBUS TBNA of mediastinal lymph node. Note blood vessel nearby.

Electromagnetic navigational bronchoscopy for biopsy of peripheral nodule

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Pleural Disease Program

We provide comprehensive evaluation and treatment of patients with pleural diseases affecting the lungs, such as malignant pleural effusion, empyema, chylothorax, pneumothorax, and trapped lung.

Patients are evaluated using:

- Chest Ultrasound
- Pleural Manometry
- Thoracentesis
- Pleuroscopy

Available therapies include:

- Insertion of Chest Tubes
- Insertion of Tunneled Pleural Catheters
- Pleurodesis



Pleural mass biopsied during pleuroscopy (medical thoracoscopy)



Complex Airway Program

We provide comprehensive, multidisciplinary care for patients with malignant and benign airway disorders. Conditions we treat include tracheal and bronchial stenosis, tracheobronchomalacia (TBM), tracheo-esophageal fistula, tracheostomy-related complications, removal of foreign body and laryngeal, tracheal, and bronchial tumors.

Excessive dynamic airway collapse in patient with severe tracheobronchomalacia



Inspiration

Expiration

Tracheobronchial stent provides central airway support

Pre-Procedure PFTs

Post- Procedure PFTs*

Spirometry	Pre Observed	Pre % Pre- dicted	Predicted	Spirometry	Pre Observed	Pre % Pre- dicted	Predicted
FVC (L)	1.80	41	4.36	FVC (L)	3.24	75	4.34
FEV1 (L)	1.21	35	3.50	FEV1 (L)	2.29	66	3.48
FEV1/FVC (%)	67	82	82	FEV1/FVC (%)	71	87	81
Lung	Pre	Pre % Pre-	Predicted	Lung	Pre	Pre % Pre-	Predicted
Volumes	Observed	dicted		Volumes	Observed	dicted	
TLC	5.07	81	6.24	TLC	4.82	77	6.24
FRC	3.45	115	3.00	FRC	1.78	59	3.00
R∀	3.23	172	1.88	RV	1.61	85	1.90
RV/TLC	64	211	30	RV/TLC	33	110	30

*Note significant improvement in pulmonary function following central airway stabilization



Bronchial Thermoplasty – bronchoscopic treatment of distal airways using radiofrequency ablation (RFA) resulting in reduction of excess airway smooth muscle.

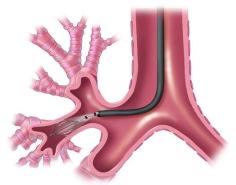
The Alair System



Alair Catheter – a flexible tube Alair Radiofrequency (RF) way walls via a standard eter to the airway walls bronchoscope

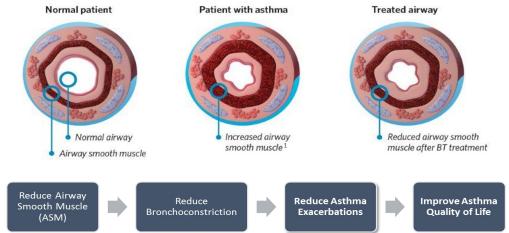


with an expandable wire ar- Controller - designed to safely and ray at the tip to deliver thera- accurately deliver precise, conpeutic RF energy to the air- trolled RF energy through the Cath-



Device in patient

BT Reduces Excess Airway Smooth Muscle (ASM)



¹Woodruff PG, et al. Am J Respir Crit Care Med. 2004;169:1001-1006.



Canine airway following instillation of methacholine. The BTtreated airway on the left remains open (arrow), while the right airway is constricted, representing what would happen during a severe asthma exacerbation.

¹Cox et al. Eur Respir Journal. 2004;24: 659-663





My life passion has been to establish a state of the art complex airway, lung and pleural center that would serve as a regional and national referral center for patients with a wide range of advanced thoracic and pleural disorders. J

Eugene Shostak is an Assistant Professor of Medicine

and Assistant Attending Physician in Cardiothoracic Surgery specializing in Interventional Pulmonology. Dr. Shostak's interests include lung cancer screening, advanced bronchoscopy for diagnosis of lung nodules utilizing a GPS-like guidance system termed electromagnetic navigation, evaluation of thoracic lymph nodes with assistance of endobronchial ultrasound, and endoscopic surveillance and treatment of early lung cancer using narrow band imaging and ablative therapies, respectively. Dr. Shostak is one of a few pulmonologists nationwide who is formally trained in rigid bronchoscopy and percutaneous dilation tracheostomy. He utilizes a variety of airway prosthesis in the treatment of complex airway disorders such as tracheal stenosis, tracheobronchomalacia, and airway obstruction. Dr. Shostak offers a wide range of treatment options for patients with pleural disorders such as ultrasound-guided thoracentesis with pleural manometry, placement of image-guided percutaneous chest tubes and tunneled pleural catheters. Dr. Shostak also performs medical thoracoscopy, a procedure that allows direct visualization of pleural surface performed under moderate sedation in a spontaneously breathing patient through a single incision. This offers a less invasive approach to patients who may be unable to tolerate thoracoscopy performed through traditional VATS approach. Dr. Shostak's research interests are in novel endoscopic therapies for asthma and emphysema and critical care ultrasonography.

Why Choose Us?

Here at New York Presbyterian Hospital, within the Division of Thoracic Surgery and Interventional Pulmonology, we provide **expert evaluation** and **state-of-the-art treatment** for patients with a broad range of chest conditions. Our services are offered through a variety of specialized programs. We utilize a **multidisciplinary approach** in the evaluation and treatment of patients. With help from our excellent support staff, we **coordinate all services on behalf of our patients** to ensure seamless delivery of care.

Quick, Easy Access:

Simply call **212-746-6275** to speak with a member of our staff. We will arrange an appointment for your patient.

Prompt Regular Communication:

We communicate with you about your patient's treatment plans and progress on a regular basis. We appreciate your referral and will work with your staff to return the patient to your care as quickly as possible.

Мы говорим по-русски

NewYork-Presbyterian Weill Cornell Medical Center

Cardiothoracic Surgery

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