

## The Human Papillomavirus Head and Neck Cancer Epidemic: What You Need to Know

Christine G. Gourin, MD, MPH (moderator);  
Maie St. John, MD; Eduardo Mendez, MD; Harry Quon, MD;  
Miriam N. Lango, MD

**Program Description:** Human papillomavirus (HPV)-associated head and neck cancer is an epidemic striking a younger and healthier population without the usual risk factors for head and neck cancer. Most patients have an excellent prognosis following treatment with surgery or chemoradiation, and the sequela of long-term morbidity from treatment is of increasing concern as patients are expected to live long enough to experience complications. Failure to identify a subset of patients at high risk for metastasis, recurrence, and decreased survival can lead to undertreatment and poor outcomes. This miniseminar will discuss the epidemiology, workup, treatment, and surveillance of HPV-positive head and neck cancer.

**Educational Objectives:** (1) Describe features of HPV-positive head and neck cancer. (2) Recognize the role of surgical and nonsurgical therapy in the treatment of HPV-positive head and neck cancer. (3) Explain the indications for adjuvant treatment in the management of HPV-positive head and neck cancer.

## Management of Nasopharyngeal Carcinoma: State of the Art

Eugene N. Myers, MD, FRCS (moderator);  
Jin-Ching Lin, MD, PhD; Chih-Wen Twu, MD, MSc

**Program Description:** Nasopharyngeal carcinoma (NPC) is a distinct and important cancer of the head and neck. As the incidence is rare in Whites, diagnosis can be challenging. However, ear, nose, and throat specialists should be able to manage NPC; therefore, the aim is to provide the attendee a great opportunity to be familiar with some of the current knowledge of the management of NPC, including using Epstein-Barr virus (EBV) as a biomarker to diagnose and monitor NPC, evolution of treatment guidelines of NPC, and salvage nasopharyngectomy for local recurrence in this miniseminar.

**Educational Objectives:** (1) Use EBV as a biomarker to diagnose and monitor patients with NPC. (2) Recognize the evolution and treatment guideline of NPC. (3) Explain the rationale and the various approaches for salvage NPC (open/endoscopic), treatment results, and prognosticators.

## New and Emerging Concepts in Parathyroid Surgery

David J. Terris, MD (moderator); Ralph P. Tufano, MD;  
Michael C. Singer, MD; Jeffrey M. Bumpous, MD

**Program Description:** Diagnosis and management of hyperparathyroidism represents a rapidly changing field in surgery. Much of the change is technologically driven, with the advent of high-resolution imaging, intraoperative assays, and application of robust neuromonitoring. These have led to a preponderance of targeted, outpatient procedures that have a high

rate of success. As the role of the otolaryngologist in treating this condition continues to be established, mastery of fundamental and emerging concepts is essential. This miniseminar will explore the importance of ultrasound, sestamibi, 4-dimensional (4D) computed tomography (CT), and other imaging options as well as proper use of hormone assays, postoperative management techniques, and the recent controversy regarding 4-gland exploration.

**Educational Objectives:** (1) To become familiar with the latest refinements in parathyroid imaging, including high-resolution ultrasound, 4D CT scans, and CT-mibi. (2) To understand the strategy behind focused exploration and the principles promoted by surgeons who routinely perform bilateral neck exploration. (3) To appreciate the nuances of modern postoperative management, including calcium prophylaxis and persistent eucalcemic hyperparathyroidism.

## Sialendoscopy: The Beginner's Guide to Success

Gordon J. Siegel, MD (moderator); Barry M. Schaitkin, MD;  
Johannes Zenk, MD, PhD; David W. Eisele, MD;  
Michael H. Fritsch, MD

**Program Description:** Sialendoscopy is a relatively new addition to otolaryngology. It offers the opportunity to work with salivary gland disease with noninvasive procedures that yield potentially superior outcomes to previous techniques. It is exciting but very challenging. This miniseminar is geared toward the beginner. It will give basic techniques and point out potential pitfalls. Additional information will include the appropriate diagnostic workup, operative setting, and patient selection. The interactive format will allow the participant to know if he understands basic techniques and is ready to incorporate sialendoscopy in his practice.

**Educational Objectives:** (1) Use basic instrumentation for sialendoscopy. (2) Describe appropriate patient selection for sialendoscopy. (3) Perform sialendoscopy in your practice while recognizing common mistakes and pitfalls.

## Surgery with Optical Imaging: Fluorescence-Guided and Molecular Navigation

Quyen T. Nguyen, MD, PhD (moderator);  
Eben L. Rosenthal, MD; Alex L. Vahrmeijer, PhD

**Program Description:** The next breakthrough in surgery will be intraoperative visualization of key normal structures and diseased tissue in real time using biological targeting compounds. Agents for visualizing blood flow are currently available to evaluate flap perfusion or vessel dynamics and sentinel node detection. Both antibody-based agents and small molecules with high-affinity target binding linked to fluorophores can be detected with high sensitivity using currently available cameras. Agents are being developed for imaging nerves. There are active clinical trials to image cancer cells to ensure complete resection. This miniseminar will provide an overview of agents that are currently available and in development.