Introduction
Our goal is to offer the highest quality 1-year subspecialty-training program in Diseases of the Nose & Paranasal sinuses. Through our fellowship training we will help establish leaders who will improve patient care standards, educate others, and perform research. The fellowship provides an intensive rhinologic experience in a tertiary-care academic environment and strives to include the breadth of otorhinolaryngology as it relates to the nose, nasal passages, and paranasal sinuses. There is particular emphasis on management of paranasal sinus inflammatory disorders, complex frontal sinus disease, revision sinus surgery, cerebrospinal fluid leaks and encephaloceles, and minimally invasive approaches to the paranasal sinuses and skull base for resection of benign and malignant sinonasal neoplasms. Diagnosis and management of inhalant allergy is also incorporated into the training curriculum.

Curriculum
Much of the curriculum (i.e., reading materials) will be self-directed; however, the fellow will be encouraged to rely upon these resources:

- 2005 Advanced Rhinology Concepts syllabus
- Advanced Techniques in Rhinology (Otolaryngologic Clinics of North America) (Martin Citardi & Pete S. Batra, editors)
- American Journal of Rhinology (current issues)
- Computer-Aided Otorhinolaryngology-Head & Neck Surgery (Martin Citardi, editor)
- Diseases of the Sinuses (David Kennedy, editor)
- Additional selected articles, chapters and reviews

Goal 1
Develop proficiency in performing a comprehensive evaluation, including office-based nasal endoscopy, of the patient who presents with rhinologic complaints.
In the outpatient setting, the fellow will first observe attending physicians perform initial and follow-up evaluations. Subsequently, the fellow will perform progressively greater parts of these evaluations. Emphasis will be placed upon office-based nasal endoscopy, including correlation of endoscopic findings with patient symptoms, past surgical history and CT scan images. Strategies for gathering an appropriate clinical history from complex patients who have undergone multiple procedures and treatments will be developed.

Goal 2
Develop ability to diagnose and manage patients with hard-to-treat, refractory diseases of the paranasal sinuses.
The fellow will demonstrate proficiency in synthesizing history and physical examination, nasal endoscopy, CT scans, MR scans, and other laboratory data to create a clinical impression and diagnosis list, which together shall support a comprehensive, multi-modality treatment strategy.
Goal 3
Recognize and manage complications of inflammatory diseases of the paranasal sinuses as well as complications of paranasal sinus surgery.
The fellow will gain experience in evaluating and treating patients who suffer complications due to inflammatory diseases of the paranasal sinuses as well as patients who suffer surgical complications.

Goal 4
Gain knowledge about the indications and contra-indications for various surgical procedures as well as the specific techniques themselves.
The fellow will develop knowledge of the risks and benefits of each advanced rhinologic procedure as well as alternative treatments. Emphasis will be placed upon minimally invasive, endoscopic approaches. Revision sinus surgery and frontal sinus surgery will be emphasized.

Goal 5
Perform advanced surgical techniques for the management/treatment of paranasal sinus and skull base disorders/diseases.
By observing, assisting, performing and reading about such procedures, the fellow will gain knowledge about the most advanced, endoscopic approaches for a wide range of paranasal sinuses and skull base disorders/diseases (including chronic rhinosinusitis, sinonasal polyposis, CSF leak, and anterior and middle cranial base neoplasms). Additionally, the fellow will develop skills for endoscopic approaches to the orbit, including orbital decompression dacryocystorhinostomy. Revision sinus surgery and frontal sinus surgery will be emphasized, since these are the core of contemporary surgical rhinology.

Goal 6
Acquire core knowledge in rhinologic diseases including anatomy, embryology, and radiology.
The fellow will be able to identify and interpret appropriate CT and MR scans for the evaluation of paranasal sinus lesions.

Goal 7
Understand the role of Ig-E mediates pathophysiology (i.e., allergy) in rhinologic diseases.
The fellow will participate in the care of patients evaluated and treated through the Section’s allergy practice.

Goal 8
Learn strategies for the multi-disciplinary evaluation of rhinologic diseases
The fellow will help coordinate multi-disciplinary evaluations, including consultations with neurosurgery, neurology, ophthalmology, radiation oncology, medical oncology, pulmonology and medical allergy.

Goal 9
Understand principles for computer-aided surgery and implement such technology effectively
The fellow will learn the core technology and its limitations; such knowledge will then be translated into appropriate usage in the clinical setting.

Goal 10
Understand the rationale for minimally invasive skull base surgery and learn its techniques. The fellow will participate in the care of patients with various skull base lesions, which will be treated through a primary endoscopic modality. In this process, the fellow will learn the indications, contraindications of these approaches as well as the specific surgical techniques.

**Goal 11**
*Present at least abstract and write at least one manuscript at a national meeting, such as the American Rhinologic Society.*
The fellow will be given ample opportunity to perform a clinical research project.

**Goal 12**
*Develop an understanding and appreciation of the various professional practice styles, including styles of interacting with patients.*
The fellow will gain this knowledge from the observation of the attending physicians with colleagues, staff, ancillary personnel, and patients.

**Goal 13**
*Gain an understanding of writing, dictating and coding office procedures and surgeries.*
The fellow will dictate notes, and review these with the attending to ensure that the pertinent information is covered, and that it is written in such a way that it contains all the components for proper billing. The fellow will learn both CPT and ICD coding principles. Cost-effective care will be emphasized.