
**DEPARTMENT OF OTOLARYNGOLOGY -
HEAD & NECK SURGERY
YEAR III CLERKSHIP HANDBOOK
SINAI HEALTH SYSTEM**



Otolaryngology - Head & Neck Surgery
UNIVERSITY OF TORONTO



Otolaryngology - Head & Neck Surgery UNIVERSITY OF TORONTO

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TABLE OF CONTENTS

COURSE OVERVIEW/OBJECTIVES

Course Overview.....	4
Course Objectives	5
A. General Competencies.....	6
B. Educational Core Objectives	8

SITE

Sinai Health System	9
---------------------------	---

CASE LOGS	13
------------------------	----

ENCOUNTER CARDS	14
------------------------------	----

DRUG LIST	16
------------------------	----

SEMINAR SCHEDULE	17
-------------------------------	----

EVALUATIONS	18
--------------------------	----

EXAMINATION SCHEDULE	19
-----------------------------------	----

RESOURCES	20
------------------------	----

COURSE OVERVIEW: CLERKSHIP

The one-week Otolaryngology - Head & Neck Surgery block is part of the Anesthesia / Emergency Medicine / Ophthalmology / Otolaryngology - Head & Neck Surgery rotation. This year, about half the clerks will be doing their week rotation in a community site such as Michael Garron Hospital, North York General Hospital, the Scarborough Hospital, Humber River Regional Hospital, Markham Stouffville Hospital, or William Osler Hospital (Etobicoke Site). Each hospital develops and distributes a site-specific schedule of teaching sessions and clinical experience in the outpatient clinics. The remainder of the time will be spent on the wards, in the operating room, on seminars and self-directed learning with otoscopy simulators at the academy and online cases. The rotation includes a series of online seminars, covering common and important topics in Otolaryngology - Head & Neck Surgery including hearing loss, vertigo, epistaxis, rhinosinusitis, emergencies, and head & neck malignancies. Students are also given a paediatrics Otolaryngology - Head & Neck surgery seminar, an Otosim seminar and an audiology lecture at the Hospital for Sick Children.

In clinic, students will be responsible for taking complete otolaryngologic histories and performing relevant head & neck examinations on patients, as well as formulating differential diagnoses and plans of management, which will be presented to preceptors. Attendance in the operating room is available to students.

Students are not expected to take call, but may do so if interested. Call may be arranged with the Otolaryngology - Head & Neck surgery residents at each hospital/Academy.

COURSE OBJECTIVES: CLERKSHIP

Goals:

By the end of the Otolaryngology-Head & Neck Surgery Clerkship Rotation, the clinical clerk will demonstrate the foundation of knowledge of medical conditions involving the ears, nose, neck and upper aerodigestive tract necessary for the practice of Otolaryngology - Head & Neck surgery from the perspective of the primary care physician. In addition, the clinical clerk will demonstrate the skills necessary to perform a thorough head & neck examination.

The Otolaryngology-Head & Neck Surgery clerkship course follows the CanMEDS Guidelines through both didactic and clinical teaching. The course also provides an opportunity to develop collaborator and manager skills through interprofessional collaboration with nursing, audiology and speech-language pathology services.

A. General Competencies

1. Medical Expert
2. Communicator
3. Collaborator
4. Leader
5. Health Advocate
6. Scholar
7. Professional

B. Educational Core Objectives

1. Skills (Clinical and Technical)
2. Problem based

A. General Competencies

1. Medical Expert

The clinical clerk will be able to:

- I. Demonstrate the ability to evaluate and manage common ear, nose and throat problems presenting to the primary care physician
- II. Demonstrate the ability to rapidly recognize airway and head & neck oncologic emergencies that require immediate referral to an otolaryngologist
- III. Demonstrate a focused history and physical examination for patients presenting with common ear, nose and throat symptoms.
- IV. Develop plans for investigations (diagnostic imaging and audiometry) and interpret those investigations.
- V. Develop a differential diagnosis and management plan.

2. Communicator

The clinical clerk will be able to:

- I. Communicate effectively and empathetically with patients and their families.
- II. Demonstrate thorough and clear documentation and charting, with concise recording of pertinent positive and negative findings.
- III. Demonstrate the ability to counsel and educate patients and families.
- IV. Demonstrate the ability to present a patient case in a clear, concise and complete manner.

3. Collaborator

The clinical clerk will be able to:

- I. Establish and maintain effective working relationships with colleagues and other healthcare professionals commonly treating Otolaryngology - Head & Neck surgery patients (nursing, audiology, speech language pathology).
- II. Demonstrate knowledge of community resources available to the otolaryngologist-head & neck surgeon.

4. Leader

The clinical clerk will be able to:

- I. Demonstrate appropriate and cost-effective use of investigations and treatments.
- II. Develop organizational skills and efficiency in managing patients and maintaining patient flow.

III. Develop an understanding of the factors contributing to resource issues in the otolaryngology-head & neck surgery clinic.

5. Health Advocate

The clinical clerk will be able to:

- I. Demonstrate an awareness of the underlying psychosocial and socioeconomic problems that contribute to otolaryngologic-head & neck surgery problems.
- II. Identify opportunities for primary and secondary prevention strategies (smoking cessation, alcohol intake, etc.).

6. Scholar

The clinical clerk will be able to:

- I. Access and critically appraise the literature relevant to otolaryngology-head & neck surgery.
- II. Understand the many unique learning and teaching opportunities available in otolaryngology-head & neck surgery.

7. Professional

The clinical clerk will be able to:

- I. Recognize and accept his or her limitations and know when to ask for help.
- II. Protect information provided by or about patients, keeping it confidential, and divulge it only with the patient's permission except when otherwise required by law.
- III. Be reliable and responsible in fulfilling obligations.
- IV. Recognize situations where common medical errors may occur in the Otolaryngology-Head & Neck Surgery clinic.

B. Educational Core Objectives

1. Skills

By the end of the Otolaryngology-Head & Neck Surgery Clerkship rotation, the student should be able to demonstrate basic proficiency in the following skills:

Clinical Examination Skills:

- I. Head & Neck examination
- II. Thyroid examination
- III. Oral examination

IV. Cranial nerve examination

Technical Skills:

I. Otoscopy

2. Problem based

By the end of the Otolaryngology-Head & Neck Surgery Clerkship rotation, the student should understand the following concepts and/or be able to demonstrate an approach to patients presenting to the Emergency Department (based on real or simulated encounters) with the following problems or conditions:

- I. Hearing Loss
- II. Vertigo
- III. Nasal Obstruction
- IV. Epistaxis
- V. Neck Mass
- VI. Stridor

Sinai Health System



Preceptor(s)

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Sub-specialty: Rhinoplasty and Rhinology

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Location	600 University Ave., Toronto, M5G 1X5
TTC Directions	From Queens Park station, walk 150m South on University Avenue to Mount Sinai Hospital.
Clinical Experience/ Strengths	<ul style="list-style-type: none">• Advanced sinus and skull base surgery• Auditory perceptions• Facial plastic and reconstructive surgery• Head & Neck endocrine surgery• Head & Neck oncology• Laryngology• Lateral skull base surgery• Microvascular reconstructive surgery• Minimally invasive skull base surgery• Nasal upper airway problems• Neurotology• Rhinology• Rhinoplasty

CASE LOGS

Documentation and electronic logging of clinical experiences through Case Logs on Medsis is mandatory for the Otolaryngology - Head & Neck Surgery Clerkship Rotation. The course director at the end of the block will review the final reports online.

The required clinical encounters include one each of the following: dizziness/vertigo, hearing loss, nasal obstruction and neck mass. The required procedure is performing otoscopy at least once. Students are also encouraged to work on the otoscopy simulator (Oto-Sim™) available at each of the teaching sites as well as review the online cases available in the Course Materials Section. The required clinical encounters and procedures are listed under the Case Logs tab on medsis.

It is the expectation of the course director that achieving all of the Case Logs requirements is feasible as all of the encounters are common. If the student anticipates that it does not appear likely that the encounters will occur, they are encouraged to inform the preceptor, site coordinator or course director of this possibility. Students will then be advised on how they can seek out the required clinical encounters.

Students are expected to have 80% of the encounters or procedures on real patients. However, each of the required encounters are also available as online cases and can be reviewed by clicking on the Course Materials button on the menu to the left. Reviewing these cases can serve to remedy any gaps in clinical encounters, again provided that at least 80% of the encounters occur on real patients.

If a student is unable to achieve 100% of the required clinical encounters by the end of the rotation (including the use of the online cases), the course director will contact the student to work out a satisfactory solution to remedy the gaps, including assigning an extra clinic with focused objectives.

ENCOUNTER CARDS

The encounter cards are a mechanism to foster interaction between academy site directors or faculty and students. They are not designed to be used for deriving the student's clinical mark and the academy site director can use them to discuss the rotation with students at their exit encounter or interview. In a similar way, the medication list should also be discussed with students to introduce the most common pharmacologic agents used in our specialty with indications, contraindications, side effects etc. mentioned.

Otolaryngology-Head & Neck Surgery Rotation Encounter Card

Clinical skills feedback:

Goal is that each skill is observed at least once during the rotation

Skill	Needs Improvement	Done adequately	Done well	Preceptor	Date
Obtain HPI in OTOHNS patient					
General Head & Neck exam					
Thyroid exam					
Oral exam					
Cranial nerve exam					
Otoscopy					

Clinical problem discussion summary:

When was approach to the problem discussed?

Goal is that each problem is discussed at least twice

OTOLARYNGOLOGY



Use this sheet to manually record your patient encounter/ procedures. Then Transfer the data to Case Logs accessed through MedSIS at <http://medsis.utoronto.ca/> at a more convenient time.

Encounters	Goal	Real
dizziness/ vertigo	1	R
epistaxis	1	R
hearing loss	1	R
nasal obstruction	1	R
neck mass	1	R
Total	5	

Date	Real?	Patient Information Notes

Procedures	Goal	Real	Level of Involvement
flexible nasopharyngoscopy	1	R	A
otoscopy	3	R	C
Total	4		

Date	Real?	Patient Information Notes

Student

1. Please input all entries into Case Logs on a regular basis
2. Mid Rotation - Please bring an updated printout of your rotation
3. End Rotation - Please email an updated printout of your rotation to the Course Director

Legend

Goal - Number of Encounters/ Procedures
 Real - "R" must be a real patient
 Level of Involvement (Minimum)
 A. Observe procedure
 B. Perform with assistance or assist someone else
 C. Perform independently

DRUGS OF ROTATION

Clinically Relevant Drugs of the Rotation – Otolaryngology-Head & Neck Surgery

Drug	Mechanism	Possible Clinical Scenarios	Caution!!
Oxymetazoline hydrochloride (Otrivin®)	α 1 and α 2 adrenergic agonist	Treat nasal congestion by vasoconstriction	Rebound congestion if used more than 3 days
Mometasone Furoate (Nasonex®)	Anti-inflammatory glucocorticosteroid	Allergic rhinitis, rhinosinusitis	Nasal drying and epistaxis possible with prolonged use
Ciprofloxacin/Dexamethasone (Ciprodex®)	Anti-bacterial and anti-inflammatory	Otitis externa, otitis media	Prolonged use may cause fungal otitis externa, not to be used in the eyes
Omeprazole (Losec®)	Proton pump inhibitor - inhibition of the H ⁺ /K ⁺ -ATPase in the gastric parietal cell	Gastroesophageal reflux, laryngopharyngeal reflux	Prolonged use increases risk of community acquired pneumonia, fractures
Clindamycin	Lincosamide antibiotic – inhibits bacterial protein synthesis	Various Head & Neck polymicrobial infections	Risk of Clostridium difficile diarrhea

2016-2017 PAEDIATRIC SEMINAR SCHEDULE

OPHTHALMOLOGY/OTOHNS/AUDIOLOGY/ OTOSIM

Rotation	Week of Block	Date	Lecture/seminar	Room/Wing	Time
D	1	Sep 16	Ophthalmology	8431 Black	9:30am-12pm
D	2	Sep 23	Audiology/OtoHNS OtoSim	4704 Atrium 6711 Atrium	1pm-3pm 3pm-4pm
D	3	Sep 30	Ophthalmology Audiology/OtoHNS OtoSim	8431 Black 6711 Atrium 6711 Atrium	9:30am-12pm 1pm-3pm 3pm-4pm
D	4	Oct 7	Exam	MS 3281	9:30am-12pm
F	1	Nov 11	Ophthalmology	8431 Black	9:30am-12pm
F	2	Nov 18	Audiology/OtoHNS OtoSim	4704 Atrium 6711 Atrium	1pm-3pm 3pm-4pm
F	3	Nov 25	Ophthalmology Audiology/OtoHNS OtoSim	8431 Black 4704 Atrium 6711 Atrium	9:30am-12pm 1pm-3pm 3pm-4pm
F	4	Dec 2	Exam	MS 3281	9:30am-12pm
E	1	Jan 20	Ophthalmology	8431 Black	9:30am-12pm
E	2	Jan 27	Audiology/OtoHNS OtoSim	4704 Atrium 6711 Atrium	1pm-3pm 3pm-4pm
E	3	Feb 3	Ophthalmology Audiology/OtoHNS OtoSim	8431 Black 4704 Atrium 6711 Atrium	9:30am-12pm 1pm-3pm 3pm-4pm
E	4	Feb 10	Exam	MS 3281	9:30am-12pm
A	1	March 24	Ophthalmology	8431 Black	9:30am-12pm
A	2	March 31	Audiology/OtoHNS OtoSim	8431 Black 6711 Atrium	1pm-3pm 3pm-4pm
A	3	April 7	Ophthalmology Audiology/OtoHNS OtoSim	8431 Black 8431 Black 6711 Atrium	9:30am-12pm 1pm-3pm 3pm-4pm
A	4	April 13 (Thurs)	Exam	MS 2173	9:30am-12pm
C	1	May 19	Ophthalmology	8431 Black	9:30am-12pm
C	2	May 26	Audiology/OtoHNS OtoSim	8431 Black 6711 Atrium	1pm-3pm 3pm-4pm
C	3	June 2	Ophthalmology Audiology/OtoHNS OtoSim	8431 Black 8431 Black 6711 Atrium	9:30am-12pm 1pm-3pm 3pm-4pm
C	4	June 9	Exam	MS 3281	9:30am-12pm
B	1	July 14	Ophthalmology	8431 Black	9:30am-12pm
B	2	July 21	Audiology/OtoHNS OtoSim	8431 Black 6711 Atrium	1pm-3pm 3pm-4pm
B	3	July 28	Ophthalmology Audiology/OtoHNS OtoSim	8431 Black 8431 Black 6711 Atrium	9:30am-12pm 1pm-3pm 3pm-4pm
B	4	Aug 4	Exam	MS 3281	9:30am-12pm

EVALUATIONS

Evaluations are based on performance on a written exam in MCQ format (80%), and preceptor evaluations (20%). The written exam is given on the final day of the combined 4 week OTL/OPHTHO/Anaesthesia block. The written exam is one hour duration (50 questions) and is separate from the ophthalmology and anesthesia examinations. See the Schedules for specific dates and location of exams. In order to obtain a credit in the Otolaryngology - Head & Neck Surgery course, students must receive a grade greater than 60% on both the written examination and preceptor evaluation.

Sample written exam questions are presented below:

The indications for ventilation tube insertion in acute otitis media include all but which of the following?

- a. Mastoiditis
- b. Failed response to medical therapy
- c. Adenoid hypertrophy
- d. Febrile seizures of AOM
- e. CN VII paralysis

What is the most common thyroid malignancy?

- a. Follicular thyroid carcinoma
- b. Anaplastic carcinoma
- c. Papillary thyroid carcinoma
- d. Medullary thyroid carcinoma
- e. Lymphoma

What is the most common cerebellopontine angle tumour?

- a. Acoustic neuroma
- b. Meningioma
- c. Epidermoid tumour
- d. Glioblastoma

EXAMINATION SCHEDULE

Date	Day	Room	Start Time	End Time
7/10/2016	Friday	MSB 3281	9:30AM	12:00PM
02/12/2016	Friday	MSB 3281	9:30AM	12:00PM
10/02/2017	Friday	MSB 3281	9:30AM	12:00PM
13/04/2017	Thursday	MSB 2173	9:30AM	12:00PM
09/06/2017	Friday	MSB 3281	9:30AM	12:00PM
04/08/2017	Friday	MSB 3281	9:30AM	12:00PM

RESOURCES

The following resources will be useful throughout the Otolaryngology - Head & Neck Surgery rotation. Please look at portal for additional resources and course content.

Online Resources:

ENT Physical Examination (American Academy of Otolaryngology - Head & Neck Surgery):
<http://www.entnet.org/EducationAndResearch/The-ENT-EXAM.cfm>

Baylor College of Medicine: <https://mediasrc.bcm.edu/documents/2013/ec/otolaryngology-core-curriculum.pdf>

Otolaryngology Houston: <http://www.ghorayeb.com/pictures.html>

Martindale's the "Virtual" Medical Centre:
http://www.martindalecenter.com/MedicalAudio_2_C.html

E-Books:

American Academy of Otolaryngology - Head & Neck Surgery:
<http://www.entnet.org/mktplace/ebooks.cfm>

Textbook:

Head & Neck Surgery – Otolaryngology. Byron J Bailey and Jonas T Johnson eds.