Donald and Barbara Zucker School of Medicine at Hofstra/Northwell

Initial Clinical Experience (ICE)

Preceptor Handbook

2021-22

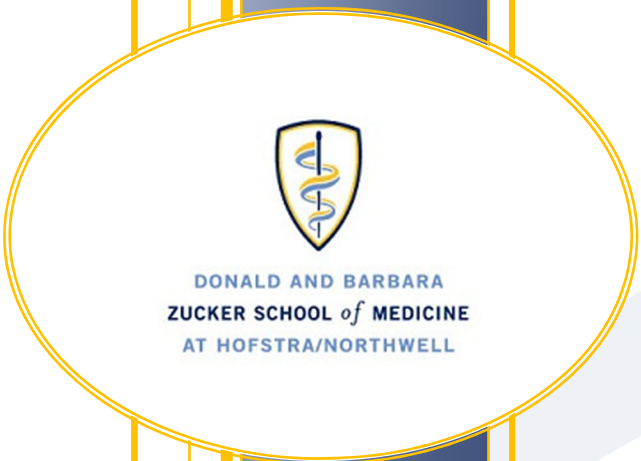


TABLE OF CONTENTS

"TO STUDY THE PHENOMENA OF DISEASE WITHOUT BOOKS IS TO SAIL AN UNCHARTED SEA, WHILE TO STUDY BOOKS WITHOUT PATIENTS IS NOT TO GO TO SEA AT ALL."

-SIR WILLIAM OSLER

Introduction and Context

The First 100 Weeks is an integrated curriculum with eight courses inclusive of both scientific and clinical content.

The first seven courses have three components: (1) Mechanisms of Health, Disease, and Intervention, (2) Structure, and (3) Patient, Physician, and Society.

Mechanisms of Health, Disease, and Intervention includes normal and abnormal molecular, cellular, and organ physiology, as well as pharmacology and therapeutics. **Structure** integrates normal and abnormal anatomy, embryology, histology, pathology, imaging, physical diagnosis and ultrasound. **Patient, Physician, and Society** incorporates classroom sessions focusing on non-biological sciences and core clinical skills.

During the First 100 Weeks, students partake in a longitudinal, community practice-based clinical experience, known as the **Initial Clinical Experience (ICE)**

Each week of the curriculum is defined by a scientific theme and anchored by two hybrid problem-based/ case-based learning cases known by the acronym **PEARLS** (Patient-Centered Explorations in Active Reasoning, Learning, and Synthesis). During Structure sessions, faculty preceptors challenge students to apply their understanding of biomedical science in solving clinical problems by linking structure and function. In ICE, students complement their classroom learning with direct patient care. Each week also includes specific concept framing sessions, opportunities for review and reinforcement, and ample self-directed learning time.

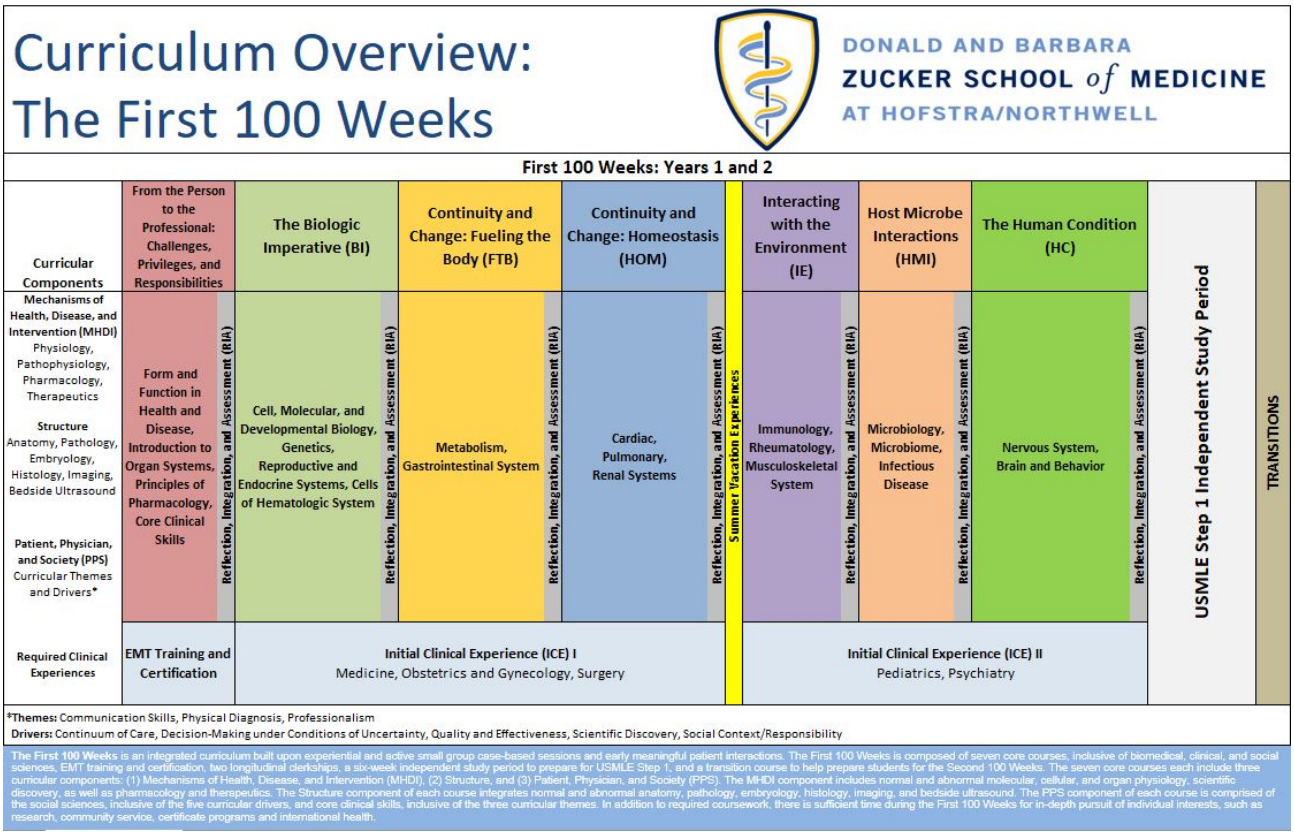
The First 100 Weeks ends with an 8-week period in which the students prepare for the USMLE Step 1, followed by Transitions, a 2-week course in preparation for the Second 100 Weeks. In addition, there is ample time in the First 100 Weeks for personalized experiences, including opportunities during the first summer for in-depth pursuit of individual interests such as research, community service work, or international health.

For ICE, each individual student is assigned to five discipline-specific, physician faculty preceptors. The preceptors represent four core disciplines: general medicine (internal medicine or family medicine), surgery, pediatrics, obstetrics and gynecology, and psychiatry. Students participate in a minimum of one-half day per week in caring for patients with these practitioners primarily in the ambulatory setting. Students also attend deliveries, surgeries, and have structure teaching time in clinical psychiatry setting.

ICE affords students the critically important opportunity to participate in first encounters with patients with common clinical conditions as well as in the ongoing care of patients already diagnosed and being cared for by physicians in the community. **The longitudinal nature of the experience offers students the potential to follow a small cadre of patients longitudinally.** Students are expected to experience the breadth of health care as their patients do, and this might include radiologic testing, consultation with specialists, or inpatient stays as applicable. A site director is assigned to supervise (function as an additional layer) the experiences of each group of students and their preceptors.

As much as possible, clinical experiences are designed to be coordinated temporally with the integrated science curricular content and themes. As an example, during The Biologic Imperative course which focuses on growth and development from a genetic to an organism level, students spend a larger proportion of their ICE time with their obstetrics and gynecology preceptor with whom they begin following a pregnant patient longitudinally through to the delivery of her newborn.

The following is an image of the First 100 weeks, which equates to the first half or first 2 years of medical school:



INITIAL CLINICAL EXPERIENCE

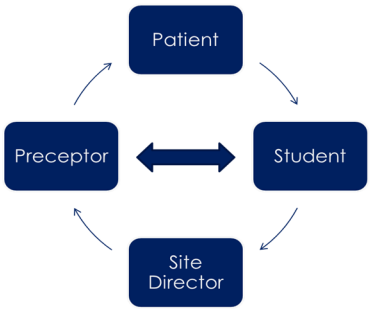
Global View of ICE Organization

In ICE, each individual student is paired with five preceptors representing the five core disciplines: ***medicine, surgery, pediatrics, obstetrics and gynecology, and psychiatry***. The 6th ICE "discipline" is the ambulance runs, which students begin doing early in their first year. For a ***minimum*** of one half-day per week, students meet with one of their preceptors with the goal of active participation and **hands-on** learning. As repeatedly emphasized throughout this handbook, the goal of ICE is for the student to engage in direct, HANDS-ON patient care. **This is not a shadowing experience!**

First year experience*: Emphasis on Ambulance Runs, Medicine, OB/GYN and Surgery*
Second year experience*: Emphasis on Pediatrics and Psychiatry*

The Value of Relationships and Continuity

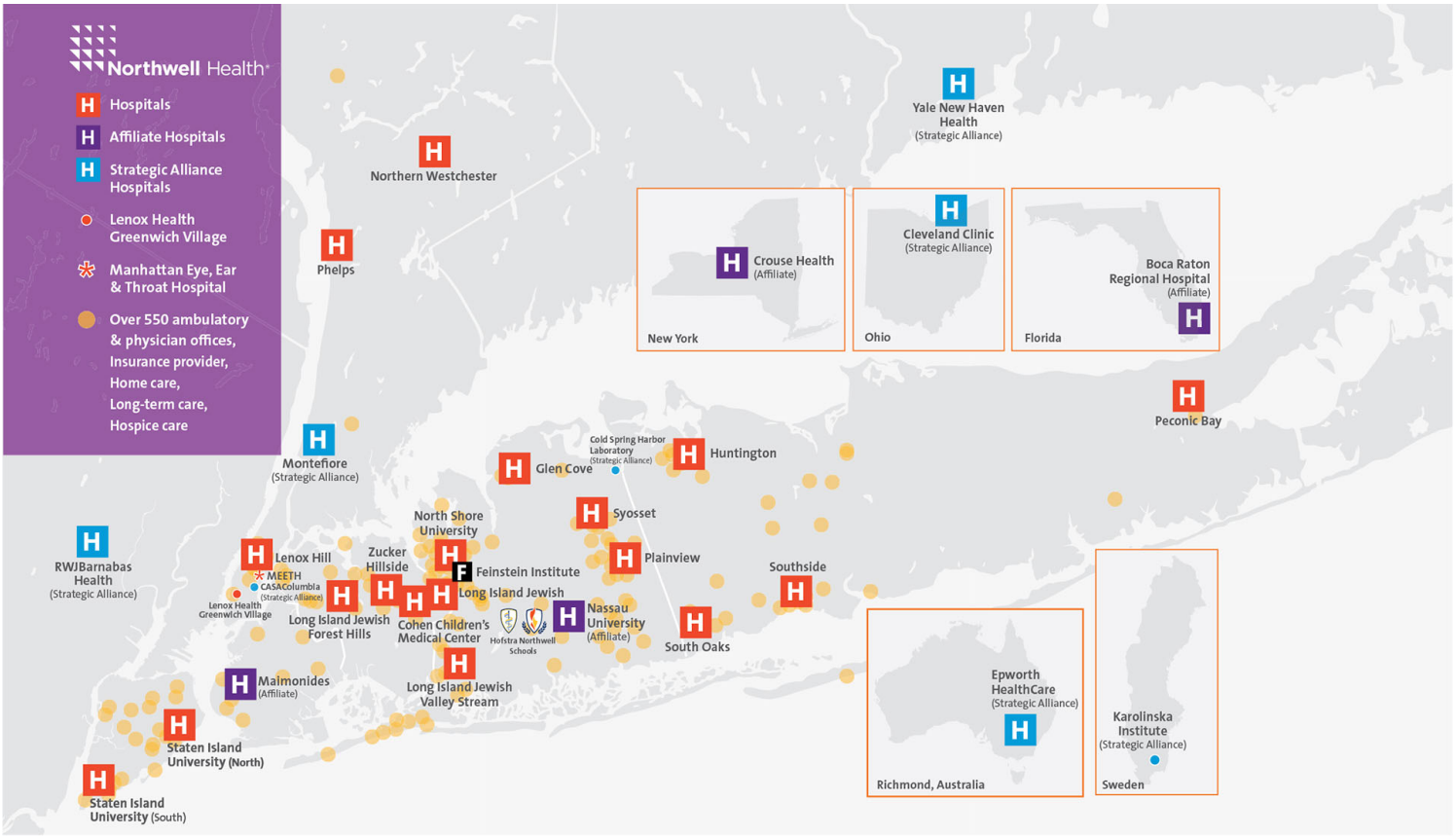
What makes this program unique is that the pairings of student with preceptor and of, student with patient continue for 100 weeks. This continuity allows relationships to be cultivated, and through these relationships, learning occurs.



It is important to note that it is these ***relationships*** that are critical to success in ICE. Through this, ICE becomes a ***relationship-based program,*** rather than an office-based one.

Assignment to Sites and Role of Site Director

In ICE, students are divided into small groups of 11-16 learners and assigned to one of seven community sites. These sites are: ***LIJ Valley Stream (formerly Franklin Hospital), Forest Hills, Glen Cove Hospital, Huntington Hospital, Plainview Hospital, South Nassau, and Southside Hospital.*** A local site director supervises the experiences of each group of students and preceptors. *Names/contacts are listed on the next page.*



ICE CONTACTS

ICE Directors and Program Manager

Sunita Cheruvu, MD Sunita.Cheruvu@hofstra.edu (516) 463-7585	Co-Director, Ambulatory Clerkships
Michael Parrish Michael.C.Parrish@hofstra.edu Work: (516) 463-7531 Fax: (516) 463-5547	Program Manager, Ambulatory Clerkships

ICE Site Directors

Site	Site Directors		
LIJ Valley Stream	Richard Schwarz, MD RSchwarz@northwell.edu 718-470-7858	Corey Karlin-Zysman, MD CKarlin@northwell.edu (516) 256-6100	----
Forest Hills	Teresa Amato, MD tamato@northwell.edu (718) 830-4167	Isabella Park, DO ipark1@northwell.edu (718) 830-4001	----
Glen Cove Hospital	John Sheehy, MD jsheehy@Northwell.edu (516) 676-7116	James Mumford, MD JMumford@northwell.edu (516) 674-7619	----
Huntington Hospital	Michael Grosso, MD MGrosso@Northwell.edu (631) 351-2609	Mitchell S. Kramer, MD MKramer2@Northwell.edu (631) 470-8940	Robert Scanlon, MD Rscanlon@northwell.edu (631) 229-5002
Plainview Hospital	Morris Rabinowicz, MD MRabinow@Northwell.edu (516) 935-7333	Alan Mensch, MD AMensch@Northwell.edu (516) 719-2356	----
South Nassau	Samuel Sandowski, MD SSandowski@snch.org (516) 255-8414	Adhi Sharma, MD Adhi.Sharma@snch.org (516) 632-3999	----
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INITIAL CLINICAL EXPERIENCE: OVERARCHING GOALS & OBJECTIVES

GOALS: In the ICE program, the student:

- Experiences meaningful hands-on patient encounters in the context of community-based clinical practices.
- Builds longitudinal relationships with patients, preceptors, peers and the interprofessional healthcare team.
- Actively participates in first encounters with patients with undifferentiated clinical conditions and others with chronic conditions that evolve over the first 100 weeks.
- Integrates, both intellectually and practically, classroom work in the basic and social sciences with the care of individual patients and of populations.
- Experiences the "system" in action through the eyes of patients.

OBJECTIVES:

Patient Care (PC)

By the end of ICE, the student will be able to:

1. Assess and begin to develop an approach to diagnosing patients who present to the ambulatory setting;
2. Appreciate uncertainty in the diagnostic process;
3. Perform comprehensive histories, inclusive of Functions 1 and 2, as well as Hofstra "Core" physical exams;
4. Begin to perform problem-focused histories and physical exams;
5. Perform a mental status exam;
6. Follow-up on patient results of basic labs and additional tests;
7. Begin to select common laboratory and radiologic tests in a diagnostic work-up;
8. Interpret lab and other test results under supervision;
9. Demonstrate basic skills in patient education;
10. Define preventive measures in the ambulatory setting;

Medical Knowledge (MK)

By the end of ICE, the student will be able to:

1. Describe the pathophysiology, expected clinical findings, differential diagnosis, risk factors, and management of the conditions listed above under "Patient Care."
2. Describe indications, dosage, contraindication, and side effects of commonly used medications in the ambulatory care setting;
3. Describe the variables that account for diversity of presentation, including gender, genetics, age, and duration of illness;
4. Use deductive reasoning to solve basic clinical problems (i.e. clinical reasoning)
5. Describe the indications, contraindications, and cost-effectiveness of common diagnostic and therapeutic modalities;
6. Describe the operating characteristics (sensitivity, specificity, positive and negative predictive values, and likelihood ratios) for diagnostic tests;
7. Explain the rationale/justification of the management of patients.

Interpersonal and Communications skills (IPCS)

By the end of ICE, the student will be able to:

1. Communicate effectively with patients, family members, and other members of the health care team;
2. Identify cultural forces and communication issues affecting each patient's care;
3. Demonstrate a compassionate and nonjudgmental approach when caring for patients;
4. Present cases in both oral and written formats in a complete and organized fashion;
5. Frame a question for a referral to another physician;
6. Educate and ensure patients' comprehension of their medical conditions including diagnostic, therapeutic and preventative plans.

Systems-based Practice (SBP)

By the end of ICE, the student will be able to:

1. Define "quality" in terms of patient care;
2. Assist patient and families in dealing with system complexities;
3. Begin to understand and navigate different systems of care along the healthcare continuum;
4. Understand the roles and expertise of the various interdisciplinary team members within the ambulatory setting and when to call on them for help;
5. Appreciate how cost plays a role in the care of a patient; and
6. Recognize the systems of care of a patient during off hours.

Practice-based Learning and Improvement (PBLI)

By the end of ICE, the student will be able to:

1. Use information technology to access background and foreground resources and self-directed learning in the care of patients;
2. Develop a question in the PICO format in the care of patients;
3. Reflect on his or her performance and be responsive to feedback;
4. Appreciates the role of quality and safety in the care of patients;
5. Recognizes the scope and potential for medical error and considers approaches to reducing them.

Professionalism (PROF)

By the end of ICE, the student will be able to:

1. Adhere to the Hofstra "Student Code of Conduct"
2. Provide and be receptive to feedback.

Research and Scholarship (RS)

By the end of ICE, the student will be able to:

1. Identify conflicting views presented in different texts and sources of information;
2. Investigate different sources of information in order to assess which is likely to be more accurate to address questions related to normal physiology, disease pathogenesis, public health, and health care delivery;
3. Begin to interpret data and adjusts hypotheses based on conflicting/contradictory evidence;
4. Appreciate the potential of conflict-of-interest to evaluate research studies and media.

Population Health (PH)

By the end of ICE, the student will be able to:

1. Identify appropriate channels to report infectious diseases, emerging diseases and side effects, as well as public health concerns;
2. Appreciate the importance of an individual's culture or community in caring for a patient (i.e. cultural competence);
3. Appreciate socioeconomic barriers;
4. Appreciate the cultural and linguistic needs of patients, including appropriate use and documentation of interpreter services.

CME Credit Opportunity

Recently, we have developed a process for obtain CME credits for the time spent learning/teaching a topic. Additional information for the current academic year will be provided shortly.

Getting Started: Assignment and Contacting Your Student

*Please make sure that any changes to your office location, contact #, and/or hours are communicated to the ICE Team

Next steps:

1. **Email**: Michael Parrish, ICE Program Manager, will send you an email with your student's name and contact information
2. **Contact Student**: When you receive your letter, you will be asked to reach out to your student and finalize plans for his/her first visit to your office
3. **First visit:** Make arrangements for the 1st visit with your student

Day 1 in your Office: First Visit

Day 1 will set the tone for your student's experience. The following are recommended as an orientation to the office:

- Spend time getting to know your student. Where is he/she from? What prior experience has he/she had? What is his/her personal goal? What is he/she worried about?
- Introduce your student to **everyone** in the office. The student is now a part of your practice!
- Exchange contact information: what is your PREFERRED mode of contact? Cell phone, text, email, telephone, office manager?
- Show him/her a place to stay and a place to keep his/her personal belongings.
- Discuss the usual flow of the afternoon.
- State your expectations:
    - Arrival time and departure time
    - Documentation procedures within office
    - Follow-up of patients seen
    - What protocol you would like your student to follow if they happen to be late or will be missing ICE – **all missed ICE sessions must be made up**
        - ***If a student needs to change more than 2 sessions, they must inform Michael Parrish of why a 3rd change is needed as well as discuss with you any issues that may be prompting a need to change.***

Schedules, Office Logistics & Student Code of Conduct

Question: Will my student be coming every week?

No. Because each student will be interacting with several different community preceptors, he or she will be coming on a ***schedule*** which can be found here. A yearly schedule is distributed by mail and email by the School of Medicine's ICE office. The schedule details the week in which a student is scheduled within your discipline. ***The specific day of the week in which a student is supposed to visit you is decided by you***.

In addition, you will receive a weekly email from the School of Medicine's ICE office reminding you that your student is scheduled within your discipline.

There are **2 Flex Weeks** in the MS 1 year and **3 Flex Weeks** in the MS 2 year. Please see the ICE calendars here. The students will be given the flexibility to schedule whichever ICE discipline they feel they need to improve on or are interested in. They may choose to gain additional experience in your discipline during these weeks (if you are okay with it).

> A Flex opportunity is an 'elective' option for students where they can choose a specialty/ subspecialty field of interest and commit the designated time in a clinical setting where there will be delivery of patient care. (This does not include clinical research/research related time)
>
> **If you are uncertain if your experience counts as a flex opportunity, please refer to Dr. Sunita Cheruvu*

Question: What adjustments should I make in my schedule to accommodate my student?

Initially, we would recommend that you decrease the number of patients in your afternoon by 1-2. In time (and this will vary), we expect that the presence of the student will NOT hold you up. We expect that your student may, in fact, help you. Your student will be able to screen patients as to the reason for the visit, begin to obtain a medical history, and report back to you succinctly.

Question: Is there a policy on Faculty Supervision?

To ensure patient, provider, and student safety, the Zucker School of Medicine ensures the presence of qualified faculty members for the teaching, training and on- and off-site supervision of students during required clinical activities. Faculty members are empowered to determine the level of appropriate supervision for medical student patient care duties.

- https://medicine.hofstra.edu/policy/policy-clinical-supervision.html

Question: Will my student spend any time with the rest of the office staff?

Beyond caring for patients, you also run a practice and your student is part of that practice. As such, we expect the students to be part of the office experience as well. In a way that complements the student's classroom curriculum, your student will be expected to spend time with other people in your office, including:

- Nurses and physician extenders to understand immunizations, vital signs, chief complaints, screening, etc.
- Medical assistant/Lab tech to learn about procedures including but not limited to phlebotomy, vaccines/shots, EKG's, PFT's, etc.

- Medical billers to learn more about health care financing
- Front desk to learn more about the check-in and check-out process

ICE Attendance Card

After each ICE session, the student will ask to get your initial on an *Attendance Card*. Any date missing an initial will be counted as an ICE absence. **This card serves as their attendance for ICE.**

Please sign off on your student's attendance card the day of their ICE session. Email confirmations of their attendance will not be accepted.

Question: Is there a code of conduct that the students must adhere to?

Yes, there is a student code of conduct that we expect all students to adhere to. It is outlined below:

Student Code of Conduct

For Medical Students Participating in the Initial Clinical Experience (ICE)

When working with my preceptor, I will:

- Arrive promptly.
- Accurately represent my position and role as a student.
- Appreciate the limits of my role as a student.
- Respects patients' rights to refuse to have students present.
- Treat all patients, others accompanying patients, and staff with respect and dignity, regardless of age, gender, race, ethnicity, national origin, religion, disability, or sexual orientation.
- Maintain strict confidentiality and privacy about patient information.
- Maintain honesty and integrity by being forthright in my interactions with patients, peers, physician supervisors and staff.
- Ensure patient safety by remaining at home if I am ill; I will notify my preceptor of ANY absence with the understanding that I will make up all absences.
- Report concerns about patient safety to my preceptor.
- Behave in an appropriate, professional, courteous manner at all times.
- Not initiate or accept patients' invitations to engage in social or social media relationships.
- Dress and act professionally.
- Not abuse drugs or alcohol.
- Be aware of and follow the guidelines of the Donald and Barbara Zucker School of Medicine at Hofstra/Northwell and of the setting in which I am a student.

Adapted from: https://www.aamc.org/download/356316/data/shadowingguidelines2013.pdf

PATIENT SELECTION

Question: What are the characteristics of the "right" patient?

The "right" patient is simply a patient who is willing to share his/her story with the student and to have the student participate in his/her care. Patients need to understand that as their physician, you will continue to provide the same level of care which you always have, but that you now have an "apprentice" who will learn best by doing, not by watching. Your student is a new member of your patient's health care team, please take the lead in introducing your student to the patient.

ICE CLINICAL LEARNING OBJECTIVES

Question: Are there specific ICE clinical learning objectives the student should complete?

The clinical learning objectives are closely knit with the classroom content your student will be learning in the course that they are in. This was done to provide curricular alignment and therefore make their clinical experiences more relevant.

The learning objectives will be presented to the students by course so that they can complete in whichever discipline of ICE it is applicable to. **The students are responsible for completing/meeting these objectives within the course since they will be assessed on these same objectives during their final exam week (RIA week) at clinical skills.** Please see Appendix C for the complete list by course. You will note that some objectives are repeated in subsequent courses and can be considered a core skill for ICE. The same clinical learning objectives have also been organized by ICE discipline, which you will find here.

The following is a visual that illustrates this realignment.

Question: How should I introduce my student to my patient?

This may seem obvious, but the introduction should ALWAYS come from you. Let the patient know that your student is working with you for the year and will become a member of their health care team.

Question: How should my student document their patient interactions?

Students should be encouraged to document their encounters with patients within your charts (depending on your EHR capability). If your EMR does not allow student input, they should be encouraged to either hand write or type a note that you can review. You should review all student documentation and co-sign (when applicable). In addition, students will be expected to document patients seen in a "patient log" that the School of Medicine will review. You will NOT have to countersign any of these "patient log" notes.

EDUCATIONAL PASSPORT/EXPECTATION GRID

Question: How can I track which ICE clinical learning objectives the students have/haven't seen?

There are two ways you can track the clinical learning objectives. The students have access to their patient logs which tracks the ICE Clinical Learning Objectives they have seen to date in a format known as an **expectation grid**. Periodically, you should ask your student to pull up his/her expectation grid from *One45* (program used by students to enter their patient logs) to follow-up on the Clinical LOs they are yet to see. In addition, we have they student has a hard-copy **educational passport**, which will track the objectives they have seen by course. If you choose to look at either, it is best to ask the student which one is most up to date (their expectation grid or the educational passport).

Question: What is the purpose of the Educational Passport?

The Educational Passport is for the student's self-directed tracking of objectives/tasks completed during ICE. This passport will provide **structure to their ICE experiences** by mapping objectives matched with their classroom content, allow the student to **keep inventory** of completed objectives for self-reflection/self-critique and serve as a real time live document to track their encounters/experiences.

Question: When should the student check off an objective in their educational passport?

Checking a box indicates your student has:

a) **practiced** the item
b) **reflected** on their personal performance
c) **identified areas for improvement**

Question: Who reviews their Educational Passport?

This passport will be reviewed by their:

a) ICE preceptors – any opportune time
b) Site Directors - at the 1:1 site director meetings

Please sign your student's passport anytime you review their completed objectives in the section labeled "Faculty Check-In"

Question: Does the preceptor have to sign-off on EACH completed clinical learning objective?

No. The passport is a self-report for the student's records.

Question: The student was unable to complete all the learning objectives within the course, what should they do?

Some suggestions are to clarify with your student which clinical learning objectives (CLOs) are remaining so you can facilitate opportunities within the course. If they complete the course with outstanding CLOs, they are expected to complete these CLOs in addition to the list of CLOs of the subsequent course.

TYPES OF PATIENT EXPERIENCES

Question: What constitutes a typical afternoon schedule?

Each week, students are scheduled to spend an afternoon in one practice, preferably from 1-5pm (2-6pm is also acceptable). You should already be aware of the weeks of the year in which your student is scheduled for your discipline based on the yearly calendar emailed to you (See schedule here).

During each afternoon, we expect the students will see two types of patients:

- ***New Visit (Full history and physical***): complete history and performance of a physical exam. Consider directing the student to a "new" patient for this type of encounter.
- ***Focused visit:*** Please see below…

Episodic Care: Full History and Physical

During each half-day session in the office, a student should see *at least* one patient comprehensively, meaning that the student should have enough time with a patient to obtain a complete history and perform a physical exam. Based on our experience, many preceptors suggest that patients seen as **"new"** are ideal for this type of encounter, though certainly, many patients are happy to share their stories with students.

Episodic Care: Focused Visit

In addition to a comprehensive encounter, students should also have the opportunity to see multiple patients for shorter, focused encounters. What the student accomplishes in these shorter encounters should mirror what you would accomplish with the patient. For example, the student may assess a patient after beginning a medication regimen for hypertension.

Longitudinal Patients

One of the most important relationships that we expect will evolve during ICE is that of the student with his or her longitudinal patient(s). ICE affords students the opportunity to capture and cultivate that relationship. Several patient types have been specifically selected to allow students to experience a spectrum of clinical conditions that evolve over the first 100 weeks. At a ***minimum,*** these include:

FIRST YEAR STUDENTS		
Longitudinal Patient	**Discipline**	**Initial Encounter**
An elderly patient with multiple medical problems	**Medicine**	October
A pregnant woman ideally in 3rd trimester	**OB/GYN**	October
A patient requiring surgery (pre-op, operative and post-op encounters)	**Surgery**	January
A patient with a cardiovascular, pulmonary, or metabolic issue	**Medicine**	January
SECOND YEAR STUDENTS		

A newborn baby	**Pediatrics**	September

The intention is that students understand the healthcare system through the eyes of their patients, which goes beyond the medical aspects of care. Therefore, the longitudinal patient holds a great level of importance in ICE. **A longitudinal experience is defined as a patient having been seen in at least two different settings and/or at a follow-up visit.** Students should plan to follow these patients as closely as possible.

Longitudinal Patients: "Whole Illness Episode"

Longitudinal care can occur over a period of time but can also occur over the span of an illness. For instance, if a student were to see a patient in the office for evaluation and treatment of otitis media and was scheduled to return for follow-up, it would be optimal for the student to return when the patient does. We encourage students to interact with office staff to ensure that a follow-up visit is scheduled when he/she is planned to be at your office for a session. This allows the student to experience the "system" in action through the eyes of the patient. This also provides the student with a role in caring for a patient that is distinct from yours; (s)he becomes an important member of the patient's "health care team".

Question: When will my student have time to see his or her longitudinal patient outside of the usual afternoon session?

The student has class time scheduled for approximately 22 hours per week. Outside of that time, students have "self-directed" learning time (green blocks on the schedule below) during which they are free to see patients. In conjunction with the Directors of ICE, the students will decide which visits to prioritize and when it is ever appropriate to miss class time.

Sample Weekly Schedule for MS1

	Monday	Tuesday	Wednesday	Thursday	Friday
8:00am	PEARLS Case 1	Self-Directed Learning	PEARLS Case 1 (continued)	Structure	PEARLS Case 2 (continued)
9:00am	PEARLS Case 2	Review & Reinforcement (R&R)			
10:00am	Mechanisms of Health, Disease, Intervention		Mechanisms of Health, Disease, Intervention		Patient, Physician, and Society
11:00am	Mechanisms of Health, Disease, Intervention	Self-Directed Learning	Mechanisms of Health, Disease, Intervention		Patient, Physician, and Society
12:00pm	Self-Directed Learning		Self-Directed Learning		Self-Directed Learning
1:00pm	Initial Clinical Experience (ICE) (occurs one afternoon per week)			Self-Directed Learning	
2:00pm					
3:00pm					
4:00pm					

Sample Weekly Schedule for MS2

	Monday	Tuesday	Wednesday	Thursday	Friday
8:00am	Mechanisms of Health, Disease, Intervention	Structure	Mechanisms of Health, Disease, Intervention	Self-Directed Learning	Patient, Physician, and Society
9:00am	Mechanisms of Health, Disease, Intervention		Mechanisms of Health, Disease, Intervention	Review & Reinforcement (R&R)	Patient, Physician, and Society
10:00am	PEARLS Case 1		PEARLS Case 1 (continued)		PEARLS Case 2 (continued)
11:00am	PEARLS Case 2			Self-Directed Learning	
12:00pm	Self-Directed Learning		Self-Directed Learning		Self-Directed Learning
1:00pm	Initial Clinical Experience (ICE) (occurs one afternoon per week)	Self-Directed Learning			
2:00pm					
3:00pm					
4:00pm					

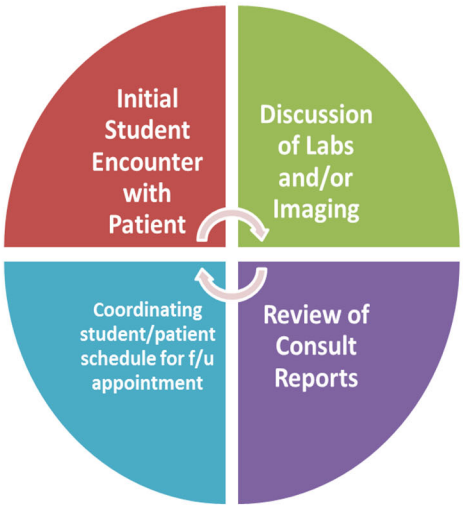
Question: How can I facilitate patient follow-up for the student?

Patient follow-up is key in the practice of medicine. When a student has an encounter with a patient, there are many opportunities that you can use to facilitate "closing the loop" in regards to that patient. The following image represents a few ways this can be done.

Patient f/u to the student after the initial encounter can be provided in multiple ways to facilitate "closing the loop":

· Reviewing ordered labs and /or imaging
· Discussion of recommendations made by consultants
· Coordinating a f/u appt. with the patient and student

Patient Follow-Up Loop



ICE Clinical Learning Objectives

To offer guidance in patient selection in your office setting, the Donald and Barbara Zucker School of Medicine at Hofstra/Northwell suggests that students have patient encounters in which they can meet/complete the following clinical learning objectives/tasks over the course of the first 100 weeks of medical school. Please note that it is an expectation that all procedures are done under observation. Students will be entering this information into their "Patient Logs" and will be given periodic feedback.

A longitudinal experience is defined as a student having more than two clinical encounters with a patient separated from one another by either a change in venue and/ or a follow-up visit. It is intended to span the patient's health continuum from pre-diagnosis through diagnosis and management.

Patient Selection for MEDICINE Initial Clinical Experience

ICE Medicine Clinical LO's

Over the course of the year, we expect that students will interview and examine patients in order to meet/complete the following clinical learning objectives/tasks:

1. Obtain a Complete History with Agenda Setting
2. Obtain a History of Present Illness
3. Obtain a Sexual History
4. Generate a Differential Diagnosis
5. Observe Delivery of Emotionally Challenging News
6. Conduct a Core Physical Exam
7. Conduct a Thyroid Exam
8. Conduct a Pelvic Exam (Predominantly done in OB/GYN)
9. Conduct a Breast Exam (Predominantly done in OB/GYN)
10. Document a History of Present Illness
11. Identify a Screening Test for a Patient to your Preceptor using healthfinder.gov/myhealthfinder
12. Obtain an Interval History
13. Obtain a Nutrition History
14. Obtain a Nutrition History and Identify an Area for Intervention
15. Observe/Conduct a Pre-Operative Assessment (Predominantly done in Surgery/ObGyn)
16. Observe/Conduct a Post-Operative Assessment (Predominantly done in Surgery/ObGyn)
17. Provide Counseling to a Patient with Diabetes
18. Use Teach-Back with a Patient when Providing Patient Education
19. Conduct a Hypothesis Drive Physical Exam for a Patient with Diabetes
20. Conduct an Abdominal Exam
21. Administer a Depression Screen PHQ-2/9
22. Obtain Manual Orthostatic Blood Pressure Measurements
23. Administer an Audit Screen (SBIRT)
24. Educate a Patient on a New Rx
25. Perform Medication Reconciliation and Adherence

26. Assist your preceptor in writing a Rx
27. Discuss Smoking Cessation with a Patient
28. Create a Brief Action Plan (BAP)
29. Conduct a Cardiac Exam
30. Conduct a Pulmonary Exam
31. Document a Physical Exam

PATIENT SELECTION FOR OB/GYN INITIAL CLINICAL EXPERIENCE

OB/GYN ICE Clinical LOs

Over the course of the year, we expect that students will interview and examine patients in order to meet/complete the following clinical learning objectives/tasks:

1. Obtain a Complete History with Agenda Setting
2. Obtain a History of Present Illness
3. Obtain a Sexual History
4. Generate a Differential Diagnosis
5. Observe/Conduct a Pre-natal/Post-partum Assessment
6. Observe Delivery of Emotionally Challenging News
7. Conduct a Core Physical Exam
8. Conduct a Thyroid Exam
9. Conduct a Pelvic Exam
10. Conduct a Breast Exam
11. Document a History of Present Illness
12. Identify a Screening Test for a Patient to your Preceptor using healthfinder.gov/myhealthfinder
13. Obtain an Interval History
14. Obtain a Nutrition History
15. Observe/Conduct a Pre-Operative Assessment
16. Observe/Conduct a Post-Operative Assessment
17. Provide Counseling to a Patient with Diabetes
18. Use Teach-Back with a Patient when Providing Patient Education
19. Conduct a Hypothesis Driven Physical Exam for a Patient with Diabetes
20. Conduct an Abdominal Exam
21. Observe a Delivery (NSVD/C-Section)
22. Administer a Depression Screen PHQ-2/9
23. Complete a Healthcare Proxy
24. Observe a Surgical Procedure
25. Administer an Audit Screen (SBIRT)

Over the course of the obstetrical and gynecologic ICE experience we would hope a student will be able to:

- Interview and examine patients in the office
- Be exposed to a variety of obstetrical and gynecologic patients:
    - Well women screening exams
    - Gynecologic problems as they present themselves
    - Obstetrical patients presenting for routine pre-natal care
    - Obstetrical patients presenting with a complaint or problem
- Attempt to identify and follow a longitudinal obstetrical patient, affording the opportunity to participate in the delivery (for which they can miss mandatory class time).
- Participate in the care of an obstetrical patient on the labor and delivery unit
    - Observe and/or participate in a C-section and normal delivery
    - Observe the initial evaluation of the newborn
- Participate in the care of the patient in the gynecology surgery unit
    - Observe a laparoscopy
- Understand the common screening and diagnostic tests used in both obstetrics and gynecology, for example;
    - PAP test
    - Endometrial biopsy
    - Mammogram
    - Ultra screen
    - Amniocentesis
    - Level II sonogram
- Procedures that the student can be exposed to and/or develop the skill of:
    - Use of the Doppler to evaluate the fetal heart tones
    - Use of the speculum to facilitate a gynecologic exam
    - Ability to perform a PAP test
    - Use of trans vaginal sonography to augment the physical examination
    - Ability to perform a breast and pelvic exam

PATIENT SELECTION FOR SURGICAL INITIAL CLINICAL EXPERIENCE

Surgery ICE Clinical LOs

Depending on a surgeon's practice, different chief complaints will be appropriate.

Over the course of the surgical experience, we expect that students will meet/complete the following clinical learning objectives/tasks:

1. Obtain a History of Present Illness
2. Generate a Differential Diagnosis
3. Observe/Conduct a Pre-Operative Assessment
4. Observe/Conduct a Post-Operative Assessment
5. Conduct a Core Physical Exam
6. Observe a Surgical Procedure with a Surgical Preceptor

PATIENT SELECTION FOR PEDIATRIC INITIAL CLINICAL EXPERIENCE

Pediatric ICE Clinical LOs

Over the course of the Pediatric ICE experience, we expect that students will interview and examine patients in order to meet/complete the following clinical learning objectives/tasks:

1. Obtain a Complete History with Agenda Setting
2. Obtain a History of Present Illness
3. Obtain an Interval History
4. Obtain a Sexual History
5. Generate a Differential Diagnosis
6. Educate a Patient on a New Rx
7. Obtain a Pediatric Developmental History
8. Obtain a Nutrition History and Identify an Area for Intervention
9. Interpret BMI Percentile on a Growth Chart
10. Conduct a Pediatric Physical Exam
11. Perform an Oral Patient Presentation
12. Conduct a Pediatric HEENT Exam
13. Document a History of Present Illness
14. Administer a HEEADSSS Screen + CRAFFT
15. Document a Pediatric Physical Exam
16. Identify a Screening Test for a Patient to your Preceptor using healthfinder.gov/myhealthfinder
17. Use of Health Education Material to Discuss recommended Vaccines with a Patient or Family

INITIAL CLINICAL EXPERIENCE: FACULTY DEVELOPMENT

We are always looking for innovative ways to support your needs as a mentor to our students. Knowing how busy your practices are, we want to make it as convenient as possible for you to take advantage of the faculty development opportunities we offer. These include the following:

- **Intro to ICE Video "Teaching in your Office"**
  This short video focuses on how an ICE session with a student should be structured. There are many vital components of ICE that are highlighted here including the oral presentation format taught at the SOM, SNAPPS.

  The video can be accessed thru the following link:
  https://medicine.hofstra.edu/faculty/faculty-webinars.html

- **Weekly Classroom Theme Emails**

Weekly emails describing the classroom curriculum content of the week will be sent to the email address you have provided. Knowing the weekly theme enables you to integrate clinical medicine with the basic sciences from the classroom.

- **Webinars**

  Webinars have been found to be quite popular because of their convenience. Preceptors can participate in real time from their home or office. Once a webinar runs live, it is archived to our faculty development website and can be viewed at the following link: **https://medicine.hofstra.edu/faculty/faculty-webinars.html**

- **Video of the Hofstra Core Exam**

  Though each of you has an established "head-to-toe" physical exam, our students learn the *Hofstra Core Exam.* To help both students and faculty, the *Hofstra Northwell Core Physical Exam* video has been created.

  The video can be accessed thru the following link: **https://youtu.be/tZkmMHJWWLY**

PRECEPTOR SKILLS

Question: What are the characteristics of a great preceptor?

For your student, enthusiasm is key! Be enthusiastic about their participation and role model for them what you love about being a physician. Consider your student your apprentice and a critical member of your team. Please keep in mind that this early in their career, they model their behavior and actions after you. The experiences they obtain during this time will mold them for the rest of their career.

Question: Should my student also have some opportunity to watch me when I'm seeing patients?

The answer is yes! Though we emphasize a "hands-on experience", we also know how important directed observation is in a student's growth. This is your time to direct your student toward what to watch. For example, you might say "watch me…"

…deliver bad news
…examine a patient's knee
…discuss results of the patient's stress test
…educate the patient about new onset diabetes
…educate the patient on lifestyle modifications

The list can go on and on and will depend on the patients

Be sure to discuss the observation with the student after he/ she watches you*

Question: How often should I observe and give feedback to my student?

The simple answer is as often as possible after observing your student in any interaction. Please refer to the S-FED model below for a 4-step process in providing feedback.

Community Preceptor-Teaching Tips

"Acknowledging Professionalism in Medicine & Providing Feedback"

Acknowledging Professionalism

Accountability
- Completes assigned tasks for patients and colleagues
- Independently "takes initiative"
- Manages time wisely
- Appropriate attention to detail
- Responds to pages

Life-Long Learning
- Seeks opportunities to learn about patients.
- Aspires to excellence through self-evaluation & acceptance of critique
- Seeks to learn from errors

Altruism/Advocacy
- Adheres to best interest of patient above self-interest
- Places interest of other parties above self-interest
- Actively advocates for patient's need

Self Efficacy
- Able to identify learning needs
- Initiates, accepts, & integrates constructive feedback
- Attends to personal growth
- Attentive to impact of own behavior on others

Honesty /Integrity
- Truthful with patients
- Truthful with peers
- Truthful in professional work (ie. Documentation, communication, research presentations)

"Plant the seed"

Assessing Professionalism

"Be a role model, set the example"

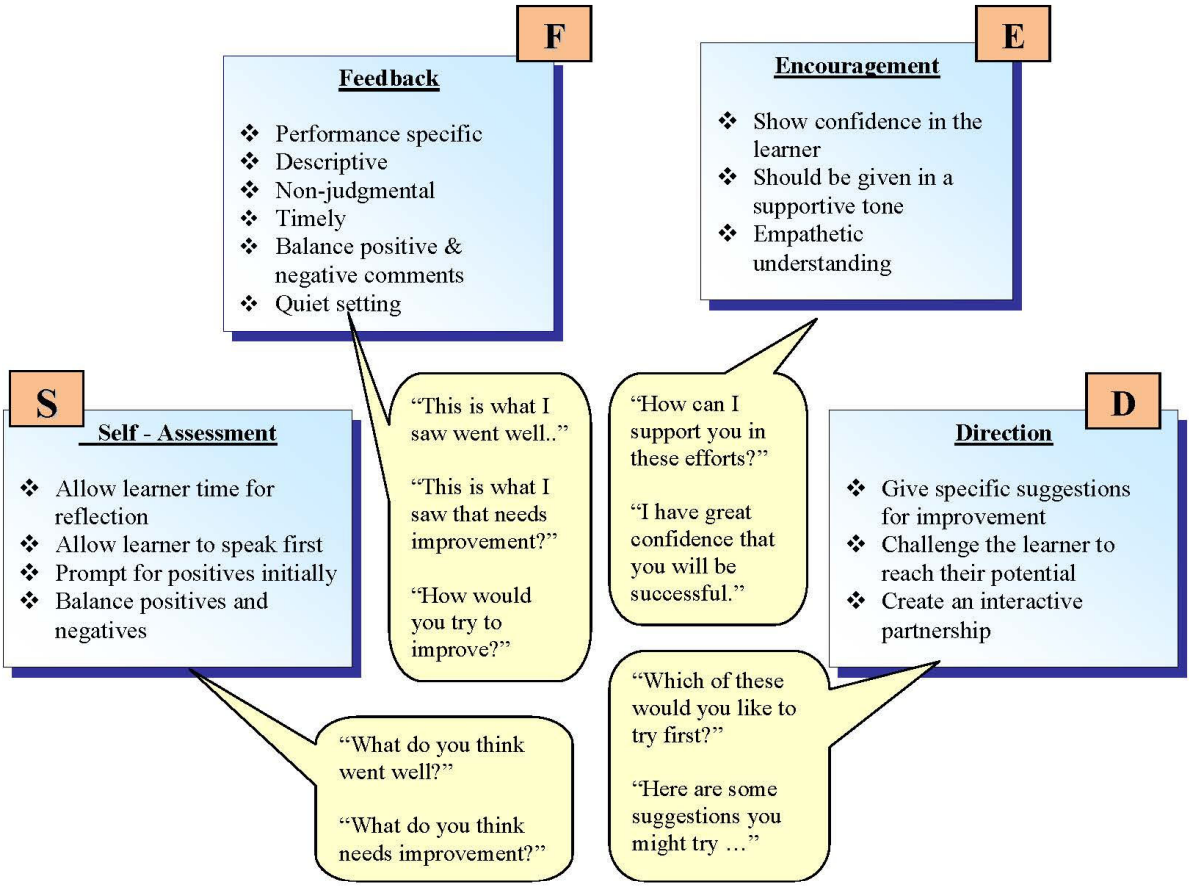
Gathering Information:
1. Include other perspectives: "360 degree evaluations"
2. Your observations
3. Institution guidelines for professionalism
4. Observed Encounters

Keep in Mind:
1. Begin VERY EARLY!
2. Conduct assessments frequently
3. Be specific
4. Give timely feedback
5. Conduct before/after observation

Delivering the assessment:
1. Provide feedback
2. Meet in a private setting
3. Ensure good timing for feedback
4. Encouragement & direction

Community Preceptor - Teaching Tips

"Giving feedback the 'S'-FED Model"



Steps for Giving Feedback

Step 1: **Set up a private confidential space & establish partnership for learning**

Step 2: **Open ended questions & facilitated listening**

Step 3: **Acknowledge barriers to the learner's success**

Step 4: **Clarify, reflect & summarize**

Adapted from: Bell, Hershey - Encouragement: Giving "Heart" to Our Learners in a Competency-based Education Model (Fam Med 2007;39(1):13-5). Supported by HRSA Grant. Contact Ellen Tattelman (etattelm@montefiore.org)

Question: How can I help my student to "think" as a doctor?

Our curriculum is one that values experience in action. Seeing patients in ICE enables students to integrate their classroom learning in the context of real patients.

Your job is encouraging and engaging them to THINK by constantly asking them this simple question:

"WHAT DO YOU THINK?"

We include this because people tend to doubt that a first- or second-year student will be able to "think like a doctor." We are convinced that if you ask the question, you will be very pleasantly surprised at the answer you get!

Question: Will the student be expected to research the patients they encounter in ICE?

Yes. In every course, the students are given open-ended questions to complete on Fridays which are due by Sunday. These questions originate from the classroom content that was covered in the week. As of the 2018-19 academic year, we added the following question, which relates to ICE, on a weekly basis:

"Please create a learning objective from a patient you have seen in ICE. Formulate a response to your learning objective and note the source(s) you have used."

The question stem compliments their learning style of self-directed learning. Your vital role is as follows: the student will be instructed to discuss with you the learning objective they created with the answer they found from their research at their NEXT ICE session with you. There will be a place on the attendance card to verify with your initial that this discussion took place. At the end of the course, these cards are collected for both attendance and number of patient learning objective discussions.

The students may already be researching questions that come up with patients they see in ICE and they informally review their research with you. This process will just formalize it. Our hope is that it holds students accountable for researching about patients they see in ICE and provides the catalyst to begin the lifelong learning process of reading and learning about patients.

Question: Is there a certain number of required patient-based learning objective discussions for each course?

There are a certain number of required patient learning objective discussions for each course:

MS 1 YEAR: BI (Biological Imperative) – 4 FTB (Fueling the Body) – 5
HOM (Homeostasis) – 6

MS 2 YEAR: IE/HMI (Interacting with the Environment/Host Microbe Interactions)-8
HC (Human Condition)– 5

PRESENTATION SKILLS

Question: Is there a preferred format for students presenting cases to me?

There is no preferred format for presenting cases to the preceptor. To promote THINKING skills, you *may* use the SNAPPS format.

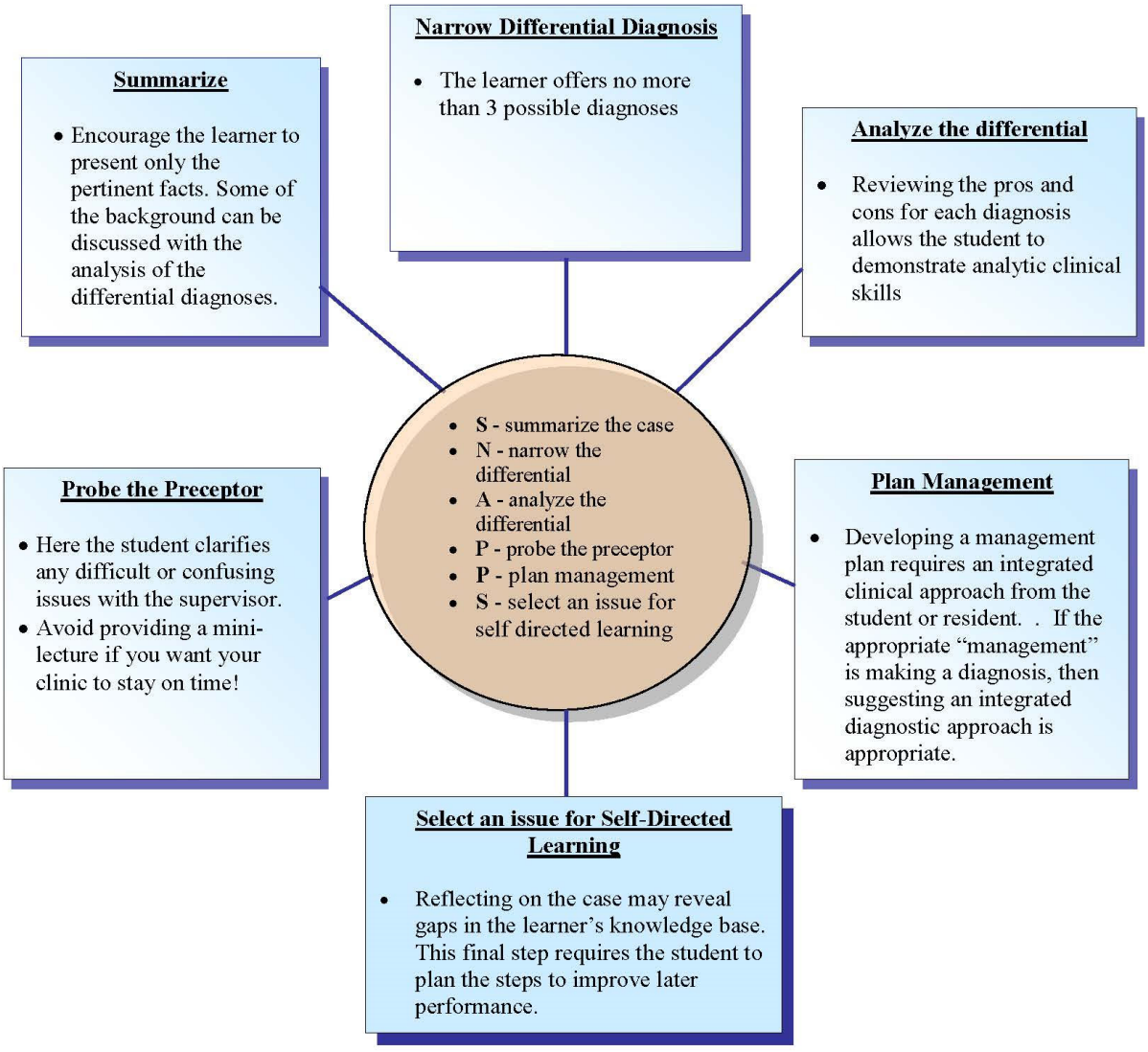
Teaching rapidly – SNAPPS

SNAPPS is a six step, student-driven approach to presenting a patient to the preceptor:

1. S: Summarize briefly the history and findings.
2. N: Narrow down the differential to two or three relevant possibilities.
3. A: Analyze the differential by comparing and contrasting the possibilities.
4. P: Probe the clinical teacher by asking questions about uncertainties, difficulties, or alternative approaches.
5. P: Plan management for the patient's medical problems.
6. S: Select a case-related problem for self-directed learning.

Community Preceptor Teaching Tips

SNAPPS



Linking RIME Assessment to SNAPPS Presentations

Reporter=Summarize & Narrow Differential
Interpreter=Analyze the differential
Manager=Plan management
Educator=Probe & select a learning issues

Question: What is RIME and how does it apply?

The RIME model[1] is a reliable way to descriptively assess and provide feedback to medical students on their current skill level. RIME is a classification measure of a student's progression from that of a **R**eporter to **I**nterpreter to **M**anager/ **E**ducator. These identifiers guide your thinking when listening to students as they report a patient encounter and helps you guide their progression/ thinking.

- **Reporters** can accurately gather information through history taking and physical exam, and can accurately report the information through presentations or write-ups.
- **Interpreters** understand the clinical significance of the information obtained, and can generate a short differential diagnosis and prioritize problems.
- **Managers** can generate a reasonable diagnostic plan to deal with outstanding questions and a therapeutic plan to solve problems.
- **Educators** have risen to the level where they can identify knowledge gaps in themselves and in others and effectively fill those gaps.

In ICE, you will find that your students are working on all four levels simultaneously. At the beginning, they will be accurate **reporters**, but should be encouraged to **interpret** their findings and begin to think about how they would **manage** their patients. They should always be encouraged to **educate** themselves and their patients by identifying knowledge gaps.

1 Pangaro L. A new vocabulary and other innovations for improving descriptive training evaluations. *Acad Med*. 74:1203-7.
2 Alguire P, Dewitt D, Pinsky L, Ferenchick G. Teaching in your office: A guide to instructing medical students and residents, p.48. Philadelphia: American College of Physicians; 2001.
Adapted from: http://www.atsu.edu/kcom/preceptors/professional_development/pdfs/rime.pdf

"RIME"

Assessing your Learner- the RIME Concept

- **R-Reporters**
- **I-Interpreters**
- **M-Managers**
- **E-Educators**

RIME

Reporters

- Accurately gather & clearly communicate the clinical facts of patients.
- Hinges on ability to do history & physical well
- Discern normal from abnormal
- Label & identify a new problem
- Requires a sense of responsibility & consistency when talking to patients

Interpreters

- Interpret the clinical data using reasoning & problem solving
- Prioritization and construction of a differential diagnosis
- Requires a higher level of knowledge & skill in selecting the findings that support diagnoses in the differential
- A transition for learner emotionally from "bystander" to "active participant" in patient care

Managers

- Manage the care of the patient, anticipate outcomes and make independent decisions, understanding the alternatives
- This calls for even more knowledge, confidence and judgment in deciding when action needs to be taken, and options for patients need to be selected
- Understand & verbalize the patient's situation and preferences

Educators

- Perform all RIME steps
- Learn in a self directed way, and teach other learners
- Read deeply, go beyond the basics, define important questions to research and share the results with learners
- Insight into quality of evidence and how to search for it & apply it to patient care

Steps to RIME

Linking Question Types to RIME

- **REPORTERS** will be most comfortable with recall questions.
- **INTERPRETERS** will also be comfortable with analysis/synthesis questions.
- **MANAGERS** will also be comfortable with applications questions.
- **EDUCATORS** should link to questions focused on self assessment.

* HRSA Title VII supported grant – AECOM/Montefiore Medical Center

QUESTIONS REGARDING ICE

Your three main resources are:

- Our **ICE Program Manager:** Michael Parrish. He can be reached at 516-463-7531 and email is Michael.C.Parrish@hofstra.edu. Michael can direct you to the right person in regards to your question.
- Our **ICE Co-Director:** Sunita Cheruvu, MD – sunita.cheruvu@hofstra.edu
- Your **Site Directors**

Problems??

Question: What if I believe that there is a mismatch between me and my student?

If you have ANY problems or concerns related to a student, the first person to whom you should reach out to is Michael Parrish and Dr. Cheruvu. You can also contact the Site Director. The ICE Team will assist with problems/concerns you may have.

Absences/Lateness/SOM Closures

Question: What do I do in case my student didn't show up for an expected ICE session in my office? Who should I contact? What if my student constantly arrives late for my session?

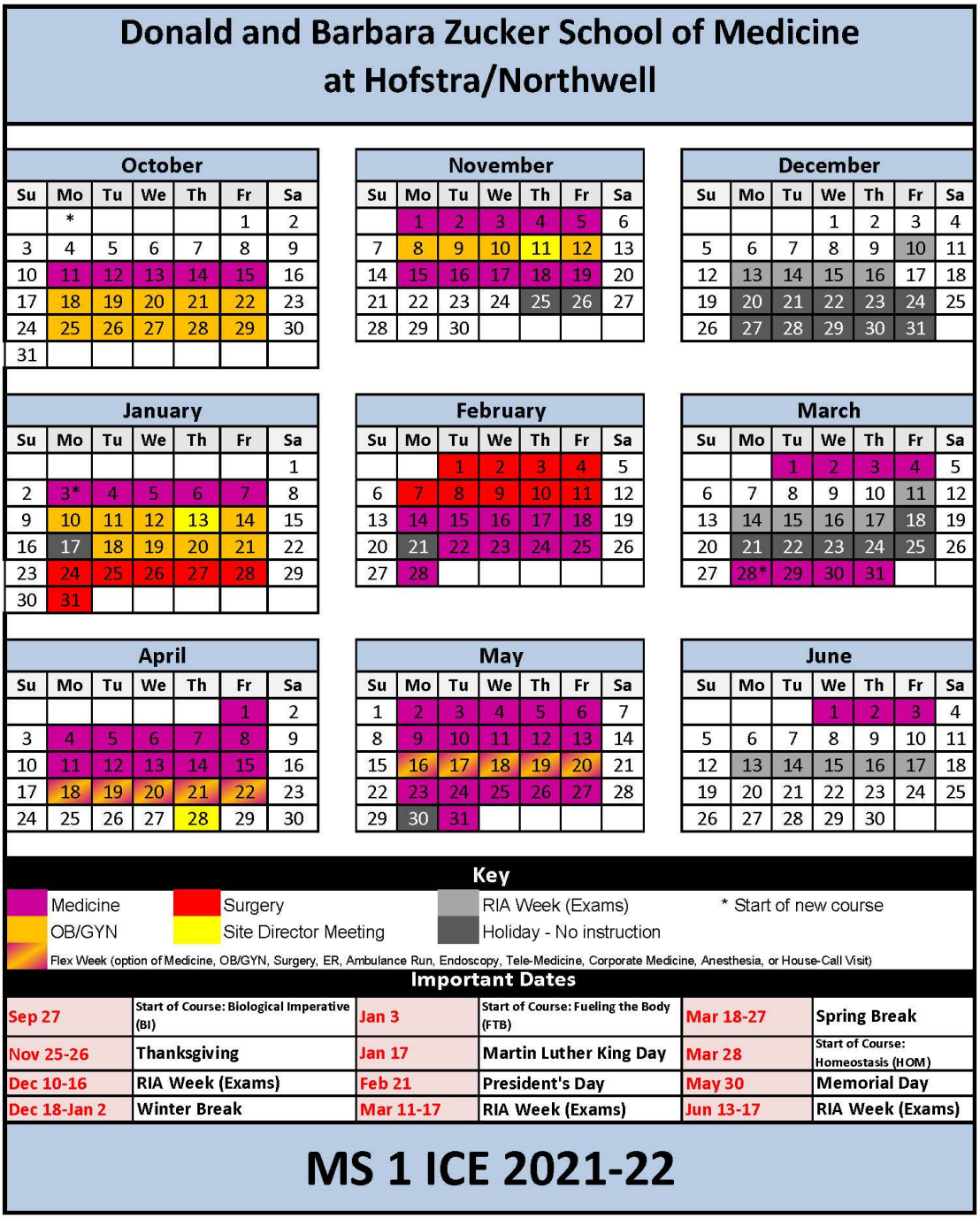
Contact your student if they do not show up for an expected session to ensure they are safe and inquire about their reason for missing ICE. If you are unable to get in touch with the student, contact either Michael Parrish (ICE Program Manager) or Dr. Sunita Cheruvu (Co-Director of Ambulatory Clerkships), who will then notify the student affairs office to contact the student. If you have lateness concerns with your student, please speak with them directly to provide feedback. If there is no change in their tardiness after your conversation, again, contact Michael Parrish.

Question: Is the student expected to attend ICE if the SOM is closed due to weather?

If there is a weather-related closure of the school of medicine, the student **can't** attend ICE. They will have to re-schedule their session with you.

Please note: **All missed ICE sessions must be made up.**

Appendix A: Week by week schedule



Donald and Barbara Zucker School of Medicine at Hofstra/Northwell

October

Su	Mo	Tu	We	Th	Fr	Sa
	*				1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
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24	25	26	27	28	29	30
31						

November

Su	Mo	Tu	We	Th	Fr	Sa
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21	22	23	24	25	26	27
28	29	30				

December

Su	Mo	Tu	We	Th	Fr	Sa
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19	20	21	22	23	24	25
26	27	28	29	30	31	

January

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23	24	25	26	27	28	29
30	31					

February

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27	28					

March

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13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28*	29	30	31		

April

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					1	2
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10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

May

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
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15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

June

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
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12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

Key

Medicine
Surgery
RIA Week (Exams)
* Start of new course
OB/GYN
Site Director Meeting
Holiday - No instruction
Flex Week (option of Medicine, OB/GYN, Surgery, ER, Ambulance Run, Endoscopy, Tele-Medicine, Corporate Medicine, Anesthesia, or House-Call Visit)

Important Dates

Sep 27	Start of Course: Biological Imperative (BI)	Jan 3	Start of Course: Fueling the Body (FTB)	Mar 18-27	Spring Break
Nov 25-26	Thanksgiving	Jan 17	Martin Luther King Day	Mar 28	Start of Course: Homeostasis (HOM)
Dec 10-16	RIA Week (Exams)	Feb 21	President's Day	May 30	Memorial Day
Dec 18-Jan 2	Winter Break	Mar 11-17	RIA Week (Exams)	Jun 13-17	RIA Week (Exams)

MS 1 ICE 2021-22

Donald and Barbara Zucker School of Medicine at Hofstra/Northwell

August

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

September

Su	Mo	Tu	We	Th	Fr	Sa
			1*	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

October

Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24/31	25	26*	27	28	29	30

November

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

December

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

January

Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3*	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

February

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

March

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Key

- Pediatrics
- Medicine
- Psychiatry
- Flex Week
- Site Director Meeting
- RIA Week (Exams)
- Holiday - No instruction

* Start of new course

Important Dates

Sep 1	Start of Course: Interacting with the Environment (IE)	Nov 25-26	Thanksgiving	Jan 17	Martin Luther King Day
Sep 6	Labor Day	Dec 14-17	RIA Week (Exams)	Feb 21	President's Day
Oct 15-21	RIA Week (Exams)	Dec 18-Jan 2	Winter Break	Mar 18-25	RIA Week (Exams)
Oct 26	Start of Course: Host Microbe Interactions (HMI)	Jan 3	Start of Course: Human Condition (HC)		

MS 2 ICE 2021-22

APPENDIX B: CURRICULUM

Question: What are the students learning in the classroom?

We think of the community preceptors' practices as being a clinical complement to the classroom. As such, it is important for you to understand the material on which they are focusing in the classroom for you to expose them to the best types of patients in the practice. In the School of Medicine's weekly email to you, you will receive a description of what the students are learning in the classroom. Discuss this with your student.

In the first year, the students participate in four courses: *From the Person to the Professional: Challenges, Privileges and Responsibilities (CPR), The Biologic Imperative (BI), Fueling the Body (FTB), and Homeostasis (HOM)*. In the second year, the students participate in three courses: *Interacting with the Environment (IE), Host Microbe Interactions (HMI) and The Human Condition (HC).* The goals of each course are detailed below:

⇨ ***First Year Student Curriculum***

CPR		BI			FTB			HOM		
August	September	October	November	December	January	February	March	April	May	June

***From the Person to the Professional: Challenges, Privileges and Responsibilities* (CPR)**

CPR is a course constructed upon the framework of the New York State Department of Health (NYSDOH) Emergency Medical Technician (EMT) curriculum. However, to be better suited to its central role within the first course of a medical school curriculum, the EMT curriculum has been intentionally expanded in its depth and breadth of content to include more advanced scientific and clinical concepts. Additionally, topics from each of the two longitudinal components, ***Structure*** and ***Patient, Physician, and Society*** as well as fundamentals of pharmacology are introduced and thematically integrated throughout the course.

***The Biologic Imperative* (BI)**

The Biologic Imperative integrates the process of proliferation at its two fundamental levels, the cell and the organism. Through a series of carefully crafted patient-based sessions, the course builds a story of how regulation of cellular proliferation controls both the growth of an individual and the ability of an individual to procreate. The course highlights the importance of the process of proliferation in disease, with each week introducing examples of pathogenic states resulting from aberrations in the process. Among these pathogenic states, a particular focus will be placed on neoplasia, the second largest cause of death in this country today.

***Continuity and Change: Fueling the Body* (FTB)**

FTB addresses topics in biochemistry and metabolism in the context of normal and abnormal nutritional and gastrointestinal function. Additionally, mechanisms by which function may be restored

or approximated when it is altered by disease are covered. The nutrition section discusses the micronutrients (vitamins and minerals) and macronutrients (carbohydrates, proteins and lipids) required for human health. The metabolic consequences of malnutrition and obesity are presented in the context of disorders.

The biochemistry component has two major threads. The first of these is protein structure and function, in which proteins are considered both as structural components of cells and tissues and as enzymes. The second thread is intermediary metabolism**:** the biotransformations of fuel molecules via catabolism and anabolism for the purpose of fuel generation and/or storage.

Functions of the gastrointestinal tract in health and disease are integrated in the gastroenterology section of the course. Study of the normal physiology of the components of this organ system and their roles in digestion and processing of food is integrated with exploration of the mechanisms by which important diseases disrupt gastrointestinal function.

Continuity and Change: Homeostasis **(HOM)**

Homeostasis addresses the physiology of the cardiac, pulmonary and renal systems from the cellular to the organismic level. The interrelationships between the aforementioned systems in the maintenance of homeostasis are stressed. Complementary elements of the three curricular components, *Mechanisms of Health, Disease and Intervention, Structure,* and *Patient, Physician and Society* are thematically woven, matrix-style, into the course, through contextualized choices for the patients and situations presented in the PEARLS cases.

⇨ ***Second Year Student Curriculum***

IE		**HMI**		**HC**		
September	October	November	December	January	February	March

Interacting with the Environment (IE)

Interacting with the Environment (IE) presents how the human organism, whose immune system co-evolved with its microbial partners, maintains homeostasis. Normal immune function is contrasted to immune dysfunction including immune deficiencies, hypersensitivity, and autoimmunity. The dynamics of immune modulation are investigated by evaluating the pharmacology of immunosuppressive and anti-inflammatory medications. The clinical applications of immunology are further extended during an introduction to rheumatology, which is paired with the study of the musculoskeletal system. Students will be introduced to the core principles of dermatology crossing between dermatopathology and clinical diagnosis. Finally, students will be guided through how to communicate, examine and evaluate pediatric patients, aligning with their experiences in ICE.

Host-Microbe Interactions (HMI)

Human-Microbe Interactions (HMI) explores the contribution of microorganisms to maintaining health and causing disease. The course begins with an overview of the fundamentals of bacteriology,

virology, mycology, and parasitology. Additional focus is placed on the role of the microbiome in maintaining human homeostasis. This is followed by a systems-based approach to covering infectious diseases. Emphasis is placed on the mechanisms by which pathogenic microbes evade the immune system and subvert normal host cellular functions. Pharmacological principles of antimicrobial therapy are covered throughout the course. HMI links to the next course, The Human Condition, by concluding with infections of the central nervous system.

The Human Condition (HC)

HC provides an integrated presentation of the factors that make us uniquely human. The course covers the physiology, pharmacology, chemistry and anatomy of the central and peripheral nervous system from the cellular to the organismic level. The major topics in this course include normal and abnormal musculoskeletal, neural, and neuropsychiatric functions, all presented in the clinical context of health and disease, and with attention to the mechanisms by which function may be restored or approximated when it is altered by disease.

The major part of the course is a journey through the neuroaxis reviewing the structure and function of all brain regions. Also included is an examination of the normal and abnormal spine and spinal cord transitions to fundamental topics in neuroscience, ranging from neurocytology to synaptic physiology to CNS development. Additionally, pain medicine and basic principles of nervous system dysfunction and evaluation are addressed. The special senses section includes basic science and clinical topics related to our unique ability to physically perceive our environment. Normal and abnormal functions of vision, hearing, balance, sinuses and olfaction, and speech are considered.

An important component of the course is the neuropsychiatric section, which focuses on how we process information mentally and respond behaviorally. Neurologic disorders are generally presented by etiologic category (including disorders of motor, vascular, traumatic, neoplastic causation) or by symptom (e.g., dementia, headache, hypotonia). The approach to psychiatric function and illness begins with basic principles of psychiatry and human mental development, and transitions into specific groups of psychiatric disorders, presented both from a clinical diagnostic and interventional perspective and with attention to what is known about the underlying pathophysiology of these disorders.

APPENDIX C: EDUCATIONAL CLINICAL LEARNING OBJECTIVES BY COURSE

Course	History, Communication and Clinical Reasoning Skills	Physical Exam	Procedures/Screens/Documentation
BI	**Obtain a Complete History with Agenda Setting (P)**	**Conduct a Core Physical Exam (P)**	**Document a History of Present Illness (HPI) (P)**
Oct-Dec	**Obtain a History of Present Illness (HPI) (P)**	Conduct a Thyroid Exam	Identify a Screening Test for a Patient to your Preceptor using healthfinder.gov/myhealthfinder
	Obtain a Sexual History (P)	Conduct a Pelvic Exam	
Med (IM/FM)	**Generate a Differential Diagnosis (P)**	Conduct a Breast Exam	
Ob-Gyn	Observe/Conduct a Pre-natal/Post-partum Assessment		
	Observe Delivery of Emotionally Challenging News		
FTB	**Obtain a Complete History with Agenda Setting (P)**	**Conduct a Core Physical Exam (P)**	**Document a History of Present Illness (HPI) (P)**
Jan-Mar	**Obtain a History of Present Illness (HPI) (P)**	Conduct a Hypothesis Driven Physical Exam for a Patient with Diabetes	
	Obtain an Interval History (P)	Conduct an Abdominal Exam	Observe a Delivery (NSVD/C-Section)
	Obtain a Sexual History (P)		Administer a Depression Screen PHQ-2/9
	Generate a Differential Diagnosis (P)		Observe a Surgical Procedure with a Surgical Preceptor
Med (IM/FM)	Obtain a Nutrition History		Adminster an Audit Screen (SBIRT)
Ob-Gyn	Observe/Conduct a Pre-Operative Assessment		Identify a Screening Test for a Patient to your Preceptor using healthfinder.gov/myhealthfinder
Surgery	Observe/Conduct a Post-Operative Assessment		
	Provide Counseling to a Patient with Diabetes		
	Use Teach-Back with a Patient when Providing Patient Education		
HOM	**Obtain a Complete History with Agenda Setting (P)**	**Conduct a Core Physical Exam (P)**	**Document a History of Present Illness (HPI) (P)**
Mar-May	**Obtain a History of Present Illness (HPI) (P)**	Obtain Manual Orthostatic Blood Pressure Measurements	
	Obtain an Interval History (P)	Conduct a Cardiac Exam	Document a Physical Exam
	Obtain a Sexual History (P)	Conduct a Pulmonary Exam	Identify a Screening Test for a Patient to your Preceptor using healthfinder.gov/myhealthfinder
	Generate a Differential Diagnosis (P)		
	Educate a Patient on a New Rx (P)		
Med (IM/FM)	Perform Medication Reconciliation and Adherence		
	Obtain a Nutrition History and Identify an area for Intervention		
	Assist your preceptor in writing a Rx		
	Discuss Smoking Cessation with a Patient		
	Create a Brief Action Plan (BAP)		
IE/HMI	**Obtain a Complete History with Agenda Setting (P)**	**Conduct a Pediatric Physical Exam (P)**	**Document a History of Present Illness (HPI) (P)**
Sept-Dec	**Obtain a History of Present Illness (HPI) (P)**	Conduct a Pediatric HEENT Exam	
	Obtain an Interval History (P)		Administer a HEEADSSS Screen + CRAFFT
	Obtain a Sexual History (P)		Document a Pediatric Physical Exam
	Generate a Differential Diagnosis (P)		Identify a Screening Test for a Patient to your Preceptor using healthfinder.gov/myhealthfinder
	Educate a Patient on a New Rx (P)		Use Health Education Material to Discuss Recommended Vaccines with a Patient or Family
Pediatrics	Obtain a Pediatric Developmental History		
	Obtain a Nutrition History and Identify an area for Intervention		
	Provide Pediatric Anticipatory Guidance		
	Interpret BMI Percentile on a Growth Chart		
	Perform an Oral Patient Presentation		
HC	**Obtain a Complete History with Agenda Setting (P)**	**Conduct a Core Physical Exam (P)**	**Document a History of Present Illness (HPI) (P)**
Jan-Mar	**Obtain a History of Present Illness (HPI) (P)**	**Conduct a Mental Status Exam (P)**	
	Obtain an Interval History (P)	Conduct a Neurologic Exam	**Document a Mental Status Exam (P)**
	Generate a Differential Diagnosis (P)		Document a Physical Exam
Psychiatry	**Perform an Oral Patient Presentation (P)**		Screen for Domestic Violence
	Perform a Psychiatric Interview		

Appendix D: Example of SNAPPS Presentation

Step	**Student Presents:**	**Rationale:**
Summarize	*"This is a 20 year-old college student with sore throat and fever for one week. He was in clinic four days ago and had a negative rapid test for Group A Strep. He says he feels worse now. There is no cough or other symptoms. He is otherwise generally healthy.* *His temperature here is 39C, HR 90, RR 16 and BP 100/70. His pharynx is erythematous and there are white exudates on his tonsils. Several cervical lymph nodes are enlarged. I couldn't feel his spleen or liver and the rest of his examination was normal.*	The rationale for sticking to a summary is NOT to avoid thoroughness – the student still needs to obtain all the data. The point is to focus on what's relevant and to leave time for the rest of the presentation…
Narrow the possibilities	*"I suppose this could be a routine viral sore throat, or maybe a Strep infection despite the lab result. What I really think he has, though is Mono…*	Again, the student is required to FOCUS. A "complete differential diagnosis" can be copied out of any textbook of primary care, but our goal is to approximate the way clinicians actually approach the task of diagnosis
Analyze the differential	*"Well, I think pharyngitis can be caused by a variety of respiratory viruses, but usually there are other symptoms and the sore throat is better in less time. Even untreated Strep throat is usually better within a week, though I'm not sure about that…the exudate and ongoing symptoms sound most like infectious mono…*	The student makes his thinking visible. This helps the preceptor understand what the student already knows and where he may benefit from more direction and study.
Probe the preceptor	*"I'm not sure about finding an enlarged spleen on physical examination. Can you show me how you perform that part of the exam?*	This step invites the active learner to access the expertise of the mentor in ways that he, the learner, feels are helpful.
Plan management	*"I think we should send a throat culture, obtain a CBC and a serological test for mono. I would encourage him to drink more but avoid alcohol.*	The plan doesn't have to be correct, but does need to provide the student an opportunity to practice…how does diagnosis lead to a rational plan?
Select a case-related problem for further study	*"I want to learn more about the role of different tests for identifying infectious mononucleosis*	Linking study and literature review to a specific patient's problem facilitates learning. Compare this with a directive – in the absence of an actual case – to "read the chapter on Infectious Mononucleosis!

APPENDIX E: ASSESSMENT

Question: When does assessment of my student occur?

As an ICE community preceptor, you will be asked to ***formally*** assess your student **towards the end of an ICE experience for your specific discipline (except Surgery).** The medicine preceptor assesses their student twice for the MS 1 academic year, while the rest only once. ***This assessment is your student's grade and we greatly value your feedback and require that you complete this assessment in a timely fashion.*** As of the 2019-2020 academic year, we will be incorporating a question addressing professionalism into the assessment. Please raise any concerns via this portion if you have not already done so via conversation/phone or in person meeting with the ICE team.

A sample assessment form has been included on page 46.

MS 1 Assessments:
Medicine – January & May
Ob-Gyn – February

MS 2 Assessments:
Pediatrics – November

It is imperative that you discuss this assessment with your student for their further growth and development. In addition, if there's ever a time that you would like to discuss a student ***informally***, please do not hesitate to contact the ICE Team.

Preceptor tips on acknowledging professionalism and a copy of the formal assessment can be found ***on the next few pages***. Please review the sample assessment that will be sent to you as well as the form the students will fill out based on their experience with you. We have included an example of what a student will fill out for their Medicine preceptor. If you would like to review the form specific to your discipline please contact Dr. Sunita Cheruvu (sunita.cheruvu@hofstra.edu)

Your Student's Complete ICE Assessment occurs in the following ways:

- Preceptor Assessment of Student (as described above)
- Completion of all ICE Clinical Learning Objectives
- Completion of expected number of patient-based learning objective discussions with you, their preceptor
- Completion of the ICE sessions as determined by the attendance cards *at the end of each course*

NOTE: the following assessments are subject to change during the 2021-22 academic year

Donald and Barbara Zucker School of Medicine at Hofstra/Northwell First 100 Weeks	Evaluated By : evaluator's name Evaluating : person (role) or moment's name (if applicable) Dates : start date to end date	

* indicates a mandatory response

ICE Community Preceptor Assessment 2021-22 (Med/Ob/Peds)

Preceptors: Please note that an exact copy of this completed form, including all comments, will be released to your student. As part of feedback, we expect that you will discuss this assessment with your student.

Please rate the following aspects of the student:

	Never	Sometimes	Most of the time	Always
*1. This student is punctual	○	○	○	○
*2. This student communicates effectively (i.e., calls ahead to schedule or cancel an appointment, emails effectively)	○	○	○	○
*3. This student gains confidence and trust of the patient and family	○	○	○	○
*4. This student is respectful of patients and others accompanying patients	○	○	○	○
*5. This student demonstrates enthusiasm for learning	○	○	○	○
*6. This student communicates learning needs	○	○	○	○
*7. This student demonstrates self-directed learning for questions identified by student or preceptor	○	○	○	○
*8. This student is proactive	○	○	○	○
*9. This student works well with the inter-professional team in the office	○	○	○	○

*10. This student modifies behavior based on feedback.

n/a (student never received feedback)	Never	Sometimes	Most of the time	Always
○	○	○	○	○

*11. The student has had the opportunity to perform the discipline specific (Pediatrics, Medicine, OB/GYN) ICE Clinical Learning Objectives.

No	Uncertain	Yes
○	○	○

If you responded "No" or "Uncertain" to question 12, please describe why:

12. I have directly observed my student...

*Taking a portion (or all) of the history.

○ No
○ Yes

*Performing a portion (or all) of the physical exam.

○ No
○ Yes

*Comments: In light of your answers above, please describe the student's strengths with examples.

*Comments: In light of your answers above, please describe your suggested areas for improvement for this student.

13. The ZSOM seeks to develop medical students' professionalism. Professionalism at the ZSOM is measured through the following seven dimensions: Accountability, Aspiring to Excellence, Conscientiousness, Equanimity, Integrity, Patient-Centeredness, Teamwork.

Please describe any concerns regarding this student as a member of a patient care team:

*I have discussed this evaluation with my student.

○ No
○ Yes

The following will be displayed on forms where feedback is enabled...
(for the evaluator to answer...)

DONALD AND BARBARA ZUCKER SCHOOL of MEDICINE AT HOFSTRA/NORTHWELL

Donald and Barbara Zucker School of Medicine at Hofstra/Northwell
First 100 Weeks

Evaluated By : evaluator's name
Evaluating : person (role) or moment's name (if applicable)
Dates : start date to end date

* indicates a mandatory response

Student Evaluation of Initial Clinical Experience Preceptor: Medicine

*My ICE site was:

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My preceptor...

	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
*1. Builds confidence in me	○	○	○	○	○
*2. Provides opportunities to obtain a history from patients	○	○	○	○	○
*3. Encourages me to practice my physical exam skills on patients	○	○	○	○	○
*4. Directs me to observe specific features of clinical interactions with patients (i.e., "This patient is very angry; watch my interaction on how I query him")	○	○	○	○	○
*5. Probes my clinical reasoning around diagnosis and/or therapeutics (i.e., "What do you think?")	○	○	○	○	○
*6. Provides me with constructive feedback	○	○	○	○	○
*7. Encourages self directed learning by following up at subsequent sessions	○	○	○	○	○
*8. I would recommend this physician continue as an ICE preceptor for future students	○	○	○	○	○
*9. The level of supervision was sufficient to maintain student and patient safety	○	○	○	○	○

If you responded "Neither Agree Nor Disagree", "Disagree", or "Strongly Disagree" to question 9, please describe why.

PLEASE LIMIT YOUR COMMENTS TO YOUR OWN ICE EXPERIENCE

*Comments about preceptor:

*Comments about Medicine ICE:

Available Resources

*10. I had access to secure storage space for my personal belongings during this ICE experience

- [ ] Yes
- [ ] No

If you selected "No", please explain

The following will be displayed on forms where feedback is enabled...
(for the evaluator to answer...)

APPENDIX F: HOFSTRA CORE EXAM

Question: What is the Hofstra Core Exam?

The *Hofstra Core Exam* is the Hofstra version of the "head-to-toe" physical exam. It is what students begin learning in their very first days of medical school and it is part of what they are assessed on at our standardized patient lab called CLI (Center for Learning and Innovation). ICE provides students with a golden opportunity to practice this exam on patients. **Ideally, students should practice the entire Core exam or portions of it during every ICE visit.**

The Core exam applies most directly to Medicine ICE though it is expected that students examine patients in all settings using this format. Lastly, as you will see below, we have integrated ultrasound into the Hofstra Core Exam.

HOFSTRA CORE PHYSICAL EXAM	
Come prepared	It is expected that the student wear professional attire and white coat and bring tuning fork, penlight, reflex hammer, and stethoscope to all patient encounters.
Introduce self	It is expected that the examiner should identify him/herself by: 1. Name 2. Level of training 3. The provider he/she is working with 4. What he/she will be doing
Identify patient using 2-patient identifiers	It is expected that the student should identify patient using name **and** DOB
Communicate with your patient	It is expected that an examiner communicates with the patient throughout the exam without using jargon. Be mindful to use a trauma-informed approach and to use language that is empowering to your patient and enhances the physician- patient partnership
Wash hands	It is expected that the student washes his/her hands before shaking the hands of the SP **and** a second time prior to physical examination **as applicable**.
Examine patients from the right side and be mindful of flow	It is expected that the examiner will examine the patient on the patient's right side where possible and be mindful of the flow as to minimize the patient moving up and down many times
Wash hands	It is expected that the student washes his/her hands with soap and water, being mindful to wash all surfaces, for at least 20 seconds before drying and shaking the hands of the SP **and** a second time prior to physical examination **as applicable**. ***Please note that nails must be clean and not long to perform the physical exam.*
VITAL SIGNS AND GENERAL APPEARANCE	
Physician and patient positioning: Patient should be seated in the chair with back supported and feet flat on the floor	

Measure blood pressure	• Arm at heart level and should be supported • Back should be supported • Arm should be bare or the patient should be wearing no more than a thin sleeve • Legs should be uncrossed AND feet flat on ground • Room should be quiet during measurement • Appropriately sized cuff should be used The student should begin by palpating the radial pulse while inflating the cuff until the pulse disappears to approximate the systolic blood pressure, and should then inflate the cuff to 30 mm Hg above this value while auscultating at least 1 cm above the antecubital fossa
Measure heart rate	• Measure a timed radial pulse for at least 10 seconds • Avoid using thumb
Measure respiratory rate	• Measure the respiratory rate • Can be done while still palpating the radial pulse • Try to not make patient aware until after measured as they may alter their breathing
Measure temperature	• Measure the oral temperature • Appreciate other methods (rectal, temporal, axillary, tympanic) to get this vital sign
Inspect hands	Carefully assess hands including nail beds and palms for: temperature differences • Capillary refill • Cyanosis • Clubbing • Arthritic changes • Rashes • Callouses • Nail deformities or stains
Ultrasound vital signs exam	It is expected that the student demonstrates the common carotid artery and internal jugular vein on ultrasound
HEAD AND NECK EXAM, INCLUDING CRANIAL NERVES	
Physician and patient positioning: Patient should be asked to sit on the exam table.	
Inspect head and neck	• Inspect head and neck (dermatologic --skin and hair as well as structures of the head)
CN II Assess visual fields	• Assess visual fields by confrontation • Keep fingers equidistant between the patient and the examiner.
CN II & III Assess pupillary response	• Assess the pupillary response, including both direct and consensual response to light.

CN III, IV & VI Assess extraocular motion	• Assess extraocular motion by having the patient follow his/her finger in all directions of gaze.
CN V Assess facial sensation	• Assess CN V sensation at three levels of the face bilaterally using light touch
CN V Assess motor function	• Assess CN V motor function by palpating both sides of the patient's face while having the patient clench his/her jaw
CN VII Assess facial movement	• Assess the muscles of facial movement, including the top half and bottom half of face, using the following prompts: 1) Close eyes tight ("Try to keep your eyes shut while I try to open your eye lids") 2) Smile/show teeth
CN VIII Assess hearing	• Assess gross hearing using a finger rub near each ear • Followed this with a simultaneous finger rub to compare hearing in both ears
CN IX, X, and XII Assess oral cavity and palatal elevation and tongue movement	• Assess function by asking patient to open his/her mouth, say "ahh" and stick out his/her tongue. • Inspect oral cavity for symmetry of the tongue, pharynx, sublingual area, gingiva and dentition. • Use tongue depressor and penlight while inspecting
CN XI	• Assess by asking patient shrug shoulder OR turn neck against resistance.
Examine nose using otoscope	• Inspect inside nostrils for discharge, color, deviation, and polyps
Examine ear using otoscope	• Inspect the pinna and external canal • Visualize tympanic membrane
Inspect the conjunctiva and sclera	• Depress both lower lids gently, to expose and inspect both the sclera and conjunctiva for pallor, icterus, injection, discharge or other abnormalities
CN II Performed fundoscopic exam with ophthalmoscope	• Darken the room • Approached patient at eye level • Inspected right eye on right side and left eye on left side
NECK EXAM	
Inspect neck	• Inspect neck for masses, symmetry
Assess ROM of cervical spine	• Perform active range of motion of cervical spine in flexion, extension, rotation, and lateral bending.
Palpate cervical spine and paraspinal muscles	• Palpate the cervical and thoracolumbar spine and paraspinal muscles for tenderness

Palpated lymph nodes	• Palpated lymph nodes methodically, including: posterior-auricular, pre-auricular, anterior cervical, posterior cervical, sub-occipital, sub-mental, submandibular, supraclavicular regions and infraclavicular.
Physician and Patient Positioning: Patient pivots 90 degrees; student moves behind patient when palpating thyroid. Begin pulmonary exam posteriorly.	
Thyroid gland	• Inspection anteriorly and/or laterally and as patient swallows • Palpate both lobes from anterior or posterior approach and while asking patient to swallow.
Ultrasound HEENT exam	It is expected that the student demonstrates the thyroid gland on ultrasound
CHEST EXAM	
Expose chest	• Ask patient or ask for permission to untie gown to expose chest
Inspect chest	• Begin the examination of the chest with inspection
Assess respiratory excursion	• Assess by placing hands properly on posterior chest and measured with full inspiratory and expiratory effort
Assess tactile fremitus	• Ask the patient to say "99" and compare sensation side to side in ladder like configuration • Do this in at least 3 different levels AND mid-axillary line
Percuss lung fields	• Percuss all lung field in at least 3levels AND mid-axillary lines • Compare sounds from left versus right side
Auscultate for breath sounds posteriorly	• Ask patient to take full breaths with mouth open • Auscultate lung fields in at least 3 levels AND mid axillary lines • Compare sounds from left versus right side
Ultrasound chest exam	It is expected that the student demonstrates diaphragmatic excursion on ultrasound
Physician and Patient Positioning: Patient continues to sit upright; examiner moves to the front of the patient.	
Auscultate for breath sounds anteriorly	• Ask patient to take full breaths with mouth open • Auscultate lung fields in at least 3 levels AND mid axillary lines • Compare sounds from left versus right side

CARDIOVASCULAR EXAM	
Physician and patient positioning: Patient leans forward	
Auscultate aortic and pulmonic areas	• Auscultate in aortic and pulmonary areas at end of expiration.
Physician and Patient Positioning: Patient should now be instructed to recline to 30 degrees from horizontal or the level that allows the apex of venous pulsations to be visualized; student stands at right side of patient. It may be appropriate to readjust the position of the head of the bed after JVP has been measured and venous pulsations observed. You may want to pull out the foot rest for patient comfort.	
Inspect neck for jugular venous pulsations	• Inspecting the patient's venous pulses on the right side of his/her neck • Identifying the apex of venous pulsations
Auscultate carotid arteries	• Auscultate the carotid arteries bilaterally
Inspect and Palpate the precordium	• Inspect observations of the precordium • Palpate the precordium and attempt to identify the point of maximal impulse (PMI), heaves and/or presence of thrills
Time cardiac cycle	• Simultaneously auscultate for S1 and palpate carotid pulse using diaphragm of stethoscope and auscultating at apex.
Auscultate heart sounds	• Auscultate the heart in at least 6 different locations, pausing to appreciate the individual heart sounds: S1, S2 This may take several minutes to perform properly
Re-tie gown	Following the cardiac exam, the student offer to assist the patient in re-tying his or her gown.
Ultrasound cardiac exam	It is expected that the student demonstrates apical four chamber view on ultrasound
Physician and Patient Positioning: The table should now be lowered to horizontal and patient placed in left lateral decubitus position.	
Auscultate heart sounds and feel for PMI if not appreciated previously	• Student auscultate the chest wall in left lateral decubitus using the bell • If the PMI was not appreciated previously, it may be felt in left lateral decubitus position

Physician and Patient Positioning: Patient should now be placed fully recumbent position on back. May ask patient to bend needs for comfort when examining abdomen.	
ABDOMINAL EXAM	
Drape abdomen	• Ask for patient's permission and offer/drape the patient before inspecting the abdomen
Inspect abdomen	• Begin with inspection (observing for contour, distention, venous pattern, masses, and scars)
Auscultate bowel sounds and bruits	• Auscultate the abdomen in the midline superior to the umbilicus for bowel sounds and an aortic bruit • Auscultate laterally over both renal arteries
Percuss liver span and spleen	• Percuss the liver, measuring span in mid-clavicular line above and below liver • Percuss for the spleen in Traube's space to assess for splenomegaly
Palpate abdomen	• Palpate using both light and deep touch in all four (4) quadrants.
Palpate the liver	• Palpate the liver along right costal margin in inspiration and expiration
Palpate the spleen	• Palpate the spleen along left lower costal margin bimanually while patient in right lateral decubitus position
Assess ROM of hip and knee joints (*this is not part of the abdominal exam it is part of the MSK exam)	• Assess active range of motion in flexion, extension, and internal and external rotation as appropriate and mindful of modesty
Ultrasound abdominal exam	It is expected that the student demonstrates the liver and spleen tip on ultrasound
Physician and patient positioning: Patient returns to seated position	
Lower extremity exam	
Inspect lower extremities	• Begin the exam of the lower extremities with inspection
Palpate pulses	• Palpate the posterior tibial and dorsalis pedis pulses bilaterally, comparing side to side
Palpate for edema	• Systematically palpate each foot and ankle for any evidence of swelling

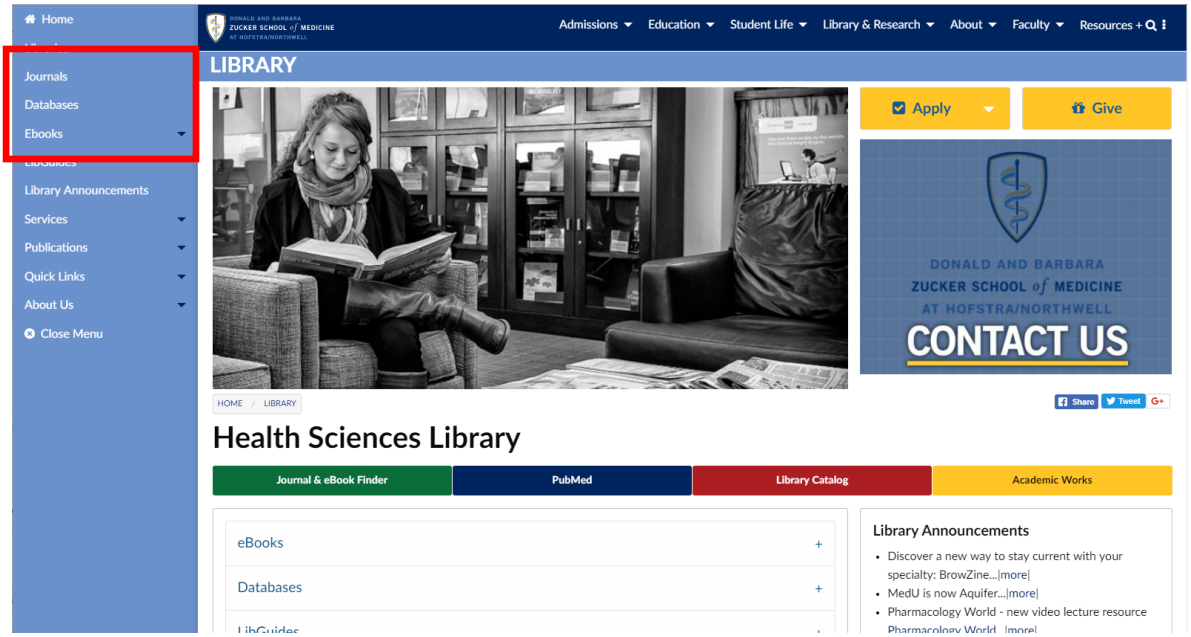
MUSCULOSKELETAL AND NEUROLOGICAL EXAM	
Assess Sensation in upper body and lower body	• Use light touch on upper and lower extremities bilaterally
Assess motor strength in upper body	• Ask patient to flex and extend upper arm, forearm, wrist, and fingers in each upper extremity while resisting patient movement to assess strength.
Assess motor strength in lower body	• Ask patient to flex AND extend the hip, knee, and ankle in each lower extremity individually while resisting patient movement to assess strength.
Assess reflexes in upper body	• Assess the following UE reflexes bilaterally: biceps, triceps and brachioradialis. • Ask the patient to completely relax when eliciting reflexes
Assess reflexes in lower body	• Assess the following lower extremity reflexes: patellar and Achilles. • Distraction may help with the patellar reflexes • Ask the patient to completely relax when eliciting reflexes
Assess coordination	• Perform at least one of the following: finger-to-nose, heel-knee-shin, tapping finger or alternating hand to assess coordination
Assess proprioception	• Assess proprioception via position sense by moving the 1st MTP up and down while holding the toe on either side
Ultrasound MSK exam	It is expected that the student demonstrates quadriceps tendon and the suprapatellar recess on ultrasound.
Physician and Patient Positioning: Patient should be asked to stand.	
Assess alignment and ROM of thoracolumbar spine	• Assess alignment by palpation of the thoracolumbar vertebrae • Assess range of motion through active flexion, extension, rotation, and lateral bending
Examine gait	Assess gait/coordination by having the patient: • walk normally • on his/her toes • on his/her heels • tandem

APPENDIX G: ONLINE RESOURCES: ACCESSING THE LIBRARY SITE

UTILIZING LIBRARY RESOURCES:

Direct your web browser (Internet Explorer 8 or 9 is supported using Windows 7. Only version 8 is supported using Windows XP.) to the School of Medicine Health Sciences Library Homepage at: http://medicine.hofstra.edu/library/

The navigation bar in the middle will be your entry point for electronic journals, textbooks, databases and online software programs.



The 'Journals, Databases, and Books' Menu should give you access to most of the resources that you need.

Username and Password

When accessing any of the databases you will be redirected to the Hofstra Portal. To access the portal, you will need: 1) your Novell Account ID (a 6-letter alpha code) and 2) your default password or the password you have changed it to. These were provided to you when you received your faculty appointment. Use these to login on the top right side of the homepage. For questions regarding obtaining your network ID, please contact Kara Franza at Kara.A.Franza@hofstra.edu. You will receive your network ID after your CV has been submitted to Michael Parrish (Program Manager) and approved for appointment to the faculty.

In the event that you have forgotten or misplaced your password, you can use the Hofstra self-service password reset website located at: http://www.hofstra.edu/About/IT/it_resetpassword.html

Under the Employee box, select “reset your network password”. From here you will be prompted to enter your Network ID (username), Hofstra ID (located on the bottom of your ID card), the last four digits of your Social Security number and your birth date. Click verify and your password will be reset. From here, if you wish to change your password; log into the portal and click on the "My Account" icon at the top.

If you ever have a problem or need help navigating the self-service password reset tool or the Hofstra Portal, you can call the Hofstra Help Desk at (516) 463-7777 and they will walk you through the process.

Accessing Journals

Select the Journals tab and you will be redirected to the Hofstra Portal. Using your Novell ID and password, log in. You will then be redirected to a ‘Journal Finder’ page that allows you to search for the journal you are looking for. This direct link to the ‘Journal Finder’ page is: https://my.hofstra.edu/Home/Library/journalFinder_db.jsp

Accessing E-Books

Select the E-Books tab and you will be redirected to the Hofstra Portal. Using your Novell ID and password, log in. You will then be redirected to a list of E-Books, sorted by topics. The library subscribes to over 1,000 basic science and clinical textbooks. The direct link to the list of textbooks is: http://medicine.hofstra.edu/library/library_ebooks.html

Accessing Databases

The School of Medicine subscribes to a number of E-databases or multi-type resources that aggregate eBooks and supplemental curriculum materials. Images can be searched across all the books in AccessMedicine, LWWHealthLibrary, and MDConsult. Other subscribed resources include: DynaMed, JAMAEvidence, Micromedex, Natural Standard, StatRef, VisualDX, Web of Knowledge, and UptoDate. Other freely available resources are PubMed, MedlinePlus, EMedicine, ERIC, and Health Reference Center Academic. To access these resources, select the Databases tab and you will be redirected to the Hofstra Portal. Most are also available from the QuickLinks tab. Using your Novell ID and password, log in. You will then be redirected to a list of databases. The direct link to the list of databases is: http://medicine.hofstra.edu/library/library_edatabases.html

The library staff also created an ICE LibGuide with links to resources that support the ICE curriculum. You can find it under the Subject Guides tab. If you need any assistance accessing School of Medicine Health Science Library Resources, please email medicine.library@hofstra.edu. If you need access to books or articles not available from the library website, please order them via the Request Forms on the Services tab of the website.

Faculty Development

Our website also features a section dedicated to faculty development, which can be found here under the clinical tab: http://medicine.hofstra.edu/faculty/facdev/

APPENDIX H: FACULTY DISCOUNTS

DONALD AND BARBARA
ZUCKER SCHOOL *of* MEDICINE
AT HOFSTRA/NORTHWELL

FACULTY DISCOUNTS

Computer Discounts— Hofstra University has negotiated special offers for educational discounts to make your computer purchases quick, easy and affordable. If you need a copy of your letter of appointment, the Office of Faculty Affairs will be happy to provide one! Please email Kara.Franza@hofstra.edu to request it.

Employee Phone Discounts—The Hofstra University Telecommunications team is pleased to be able to offer the university discount to faculty members for personal mobile services.

Barnes & Noble Campus Bookstore – Faculty members receive a 10% discount on merchandise (excludes text books) when presenting their Hofstra ID at checkout. Not valid online.

Hofstra Fitness Center – Access to the fitness center, including group exercise classes are free to faculty members showing a valid HofstraCard upon entry. You can also gain access to the **Swim Center**.

Hofstra Theatre Performances – Faculty members receive two free tickets with valid HofstraCard to many performances at the Hofstra theatres. Contact the Box Office for more details 516-463-6644.

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Plum Benefits— Offers discounted ticket prices on movies, theme parks and Broadway shows. Create an account using code PLUM30087 to start saving!

1-800-FLOWERS.com— Faculty members can received a 15% discounts on their orders when using the code Hofstra at checkout.

1-800 flowers.com

Questions? Please email Kara.Franza@hofstra.edu.

APPENDIX I: EDUCATIONAL CONFLICTS OF INTEREST AND RECUSAL

The Zucker School of Medicine is committed to ensuring that students are taught, assessed, and advised by faculty members, fellows, residents, other allied health profession, or committee members whose primary interest is the student's educational development. This policy sets forth the process for avoiding potential conflicts of interest by ensuring that any faculty member, fellow, resident, or committee member with a possible conflict of interest recuses him/herself from participation in any actions related to the transaction or matter where a conflict may exist.

Providers of Healthcare and Assessment:

If a faculty member, fellow, resident, or other allied health professional is assigned to a role in which s/he will assess a student with whom s/he has previously provided health care services including psychological counseling, the faculty member, fellow, or resident must recuse him/herself by advising (without breaching confidentiality) the course/clerkship ("course") director or the Office of Curriculum Support and the student will be re-assigned.

In event that a faculty member, fellow, resident, or other allied health professional has not already recused him/herself from assessment duties and a student is assigned to an educational environment in which the faculty member, fellow, or resident assigned to assess the student has previously provided health care services to the student, the student must advise (without breaching confidentiality) the course director or the Office of Curriculum Support and the student will be re-assigned.

Student Advancement Committee & Student Professionalism Committee Members:

A member of the Student Advancement Committee (SAC) or Student Professionalism Committee (SPC) must recuse him/herself from the presentation, deliberation, and vote about a student with whom s/he has a conflict of interest by notifying the committee chair. Conflicts of interest include but are not limited to the following:

1. Member is the director of a course, clerkship, or curricular thread that prompted a referral to the committee;
2. Member has or has had a family relationship with the student, such as that of a current or former significant other, partner, spouse, child, sibling, or parent;
3. Member has or has had a social relationship with the student;
4. Member has a private financial interest in the outcome of the decision;
5. Member has provided health services to the student;
6. Member is aware of any prejudice, pro or con, that would impair his/her judgement of the decision;
7. Member has participated or intends to participate in deliberations about the student's circumstances at another level of review;
8. Member believes his/her recusal is necessary to preserve the integrity of the review process.

Prior to his/her presentation at the Student Advancement Committee, the student will be provided with a list of committee members. If the student identifies a conflict of interest with any member of the committee, that committee member must recuse him/herself from the presentation, deliberation, and vote about the student.

In most cases, students presented to the Student Professionalism Committee are done so in a de-identified manner. If ever a student's identity were going to be revealed to the SPC members, the student would have an opportunity to identify conflicts of interest by reviewing a

list of committee members, prior to the committee meeting. If the student identifies a conflict of interest with any member, that committee member must recuse him/herself from the presentation, deliberation, and vote about the student.

Admissions Committee Members:

If a member of the Admissions Committee has or has had a family relationship, such as that of a current or former significant other, partner, spouse, child, sibling, or parent with anyone in the current AMCAS application pool, that committee member must recuse him/herself from participation on the Admissions Committee for the entirety of that academic year.

Other conflicts of interest for Admissions Committee members may be resolved by reassigning the applicant to a different screener, interviewer and/or voting committee meeting. Other conflicts of interest for Admissions Committee members include but are not limited to the following:

1. Member has or has had a family relationship other than that of a current or former significant other, partner, spouse, child, sibling, or parent with the applicant;
2. Member has or has had a social relationship with the applicant or applicant's family;
3. Member has a private financial interest in the outcome of the decision;
4. Member has provided health services to the applicant;
5. Member is aware of any prejudice, pro or con, that would impair his/her judgement of the decision;
6. Member believes his/her recusal is necessary to preserve the integrity of the review process.

A Screening Committee member must recuse him/herself from screening the application of an individual with whom there is a conflict of interest. An Interview Committee member must recuse him/herself from interviewing an individual with whom there is a conflict of interest. If a conflict of interest is only identified at the outset of the interview, the Interview Committee member must indicate the presence of a conflict on the interview scoring sheet and that interview scenario can be excluded from the student's overall interview score. A Voting Committee member must recuse him/herself from both discussions of, and voting on a candidate with whom he/she has a conflict of interest.

Providers of Confidential Advice:

Faculty and staff members in the Office of Student Affairs who provide students with confidential advice regarding student's personal matters, especially ones of a sensitive nature, should not assess students or make decisions about a student's advancement, graduation, or dismissal. To alleviate this concern, students may request an alternate MSPE writer.

Violations:

Violations will be addressed on a case-by-case basis. Students and educators who violate this policy may be subject to disciplinary action.

References to Regulations and/or Other Related Policies
Faculty Bylaws
LCME Element 9.9: Student Advancement and Appeal Process
LCME Element 10.2: Final Authority of Admission Committee
LCME Element 12.5: Non-Involvement of Providers of Student Health Services in Student Assessment
Procedure for Requesting a Different MSPE Writer

Last Updated: August 2018