

**Clinical Supervision of Medical Students:
Promoting Patient and Student Safety**

Faculty Guidelines

Boston University Chobanian & Avedisian School of Medicine

This document and additional faculty resources can be found on our website at:
<https://www.bumc.bu.edu/camed/education/medical-education/faculty-resources/>

Table of Contents

Medical Education Program Objectives.....	4
Clerkship Learning Objectives.....	6
General Responsibilities of the Clinical Faculty	7
Goals of the Clinical Clerkship.....	7
Clerkship Structure	7
Overall Responsibilities.....	7
School’s Clerkship Director & Assistant Clerkship Director	7
Overall Clerkship Coordinator.....	8
Clerkship Site Director	8
Clerkship Site Coordinator	9
Primary Clinical Educators	10
Orientation of the Student to the Clinical Setting.....	10
Setting Expectations for the Student.....	10
Supervising the Student.....	11
Intimate Exam Policy.....	11
Physical Exam Demonstrations.....	11
Supervision and Delegating Increasing Levels of Responsibility	12
Student Assessment.....	12
Feedback.....	13
Early Recognition of Learning Problems.....	14
Mid Rotation Meeting.....	14
Final Grade and Narrative Comments	15
Home Visit.....	16
Home visit safety.....	16
Important Clerkship Policies	16
Attendance Policies.....	16
Learning Environment Expectations	17
Appropriate Treatment in Medicine.....	17
Boston University Sexual Misconduct/Title IX Policy	17
Needle Sticks and Exposure Procedure	17
Appendix A.....	20
Clerkship Learning Objectives.....	23
Contact Information	24
Clerkship Specific Information	1

Didactic Schedule	2
Daily Schedule	3
Required Diagnoses	4
Formative Assessments (Medicine Clerkship Specific)	4
Assignments	8

Medical Education Program Objectives

A Boston University Chobanian & Avedisian School of Medicine graduate will be able to:		
INSTITUTIONAL LEARNING OBJECTIVES	MEDICAL EDUCATION PROGRAM OBJECTIVES	
Establish and maintain medical knowledge necessary for the care of patients (MK)	MK.1	Describe the normal development, structure, and function of the human body.
	MK.2	Recognize that a health condition may exist by differentiating normal physiology from pathophysiologic processes.
	MK.3	Describe the risk factors, structural and functional changes, and consequences of biopsychosocial pathology.
	MK.4	Select, justify, and interpret diagnostic tests and imaging.
	MK.5	Develop a management plan, incorporating risks and benefits, based on the mechanistic understanding of disease pathogenesis.
	MK.6	Articulate the pathophysiologic and pharmacologic rationales for the chosen therapy and expected outcomes.
	MK.7	Apply established and emerging principles of science to care for patients and promote health across populations.
	MK.8	Demonstrate knowledge of the biological, psychological, sociological, and behavioral changes in patients that are caused by or secondary to health inequities.
Demonstrate clinical skills and diagnostic reasoning needed for patient care (CSDR)	CSDR.1	Gather complete and hypothesis driven histories from patients, families, and electronic health records in an organized manner.
	CSDR.2	Conduct complete and hypothesis-driven physical exams interpreting abnormalities while maintaining patient comfort.
	CSDR.3	Develop and justify the differential diagnosis for clinical presentations by using disease and/or condition prevalence, pathophysiology, and pertinent positive and negative clinical findings.
	CSDR.4	Develop a management plan and provide an appropriate rationale.
	CSDR.5	Deliver an organized, clear and focused oral presentation.
	CSDR.6	Document patient encounters accurately, efficiently, and promptly including independent authorship for reporting of information, assessment, and plan.
	CSDR.7	Perform common procedures safely and correctly, including participating in informed consent, following universal precautions and sterile technique while attending to patient comfort.
	CSDR.8	Utilize electronic decision support tools and point-of-care resources to use the best available evidence to support and justify clinical reasoning.
	CSDR.9	Recognize explicit and implicit biases that can lead to diagnostic error and use mitigation strategies to reduce the impact of cognitive biases on decision making.
Effectively communicate with patients, families, colleagues and interprofessional team members (C)	C.1	Demonstrate the use of effective communication skills, patient-centered frameworks, and behavioral change techniques to achieve preventative, diagnostic, and therapeutic goals with patients.
	C.2	Clearly articulate the assessment, diagnostic rationale, and plan to patients and their caregivers.
	C.3	Effectively counsel and educate patients and their families.
	C.4	Communicate effectively with colleagues within one's profession and team, consultants, and other health professionals.
	C.5	Communicate one's role and responsibilities clearly to other health professionals.
	C.6	Demonstrate appropriate use of digital technology, including the EMR and telehealth, to effectively communicate and optimize decision making and treatment with patients, families and health care systems.

A Boston University Chobanian & Avedisian School of Medicine graduate will be able to:		
INSTITUTIONAL LEARNING OBJECTIVES	MEDICAL EDUCATION PROGRAM OBJECTIVES	
	C.7	Practice inclusive and culturally responsive spoken and written communication that helps patients, families, and health care teams ensure equitable patient care.
	C.8	Communicate information with patients, families, community members, and health team members with attention to health literacy, avoiding medical jargon and discipline-specific terminology.
	C.9	Communicate effectively with peers and in small groups demonstrating effective teaching and listening skills.
Practice relationship centered care to build therapeutic alliances with patients and caregivers (PCC)	PCC.1	Demonstrate sensitivity, honesty, compassion, and responsiveness to a diverse patient population, including but not limited to diversity in gender, age, culture, race, religion, disabilities, and sexual orientation.
	PCC.2	Demonstrate humanism, compassion, empathy, integrity, and respect for patients and caregivers.
	PCC.3	Demonstrate a commitment to ethical principles pertaining to autonomy, confidentiality, justice, equity, and informed consent.
	PCC.4	Show responsiveness and accountability to patient needs that supersedes self-interest.
	PCC.5	Explore patient and family understanding of well-being, illness, concerns, values, and goals in order to develop goal-concordant treatment plans across settings of care.
Exhibit skills necessary for personal and professional development needed for the practice of medicine (PPD)	PPD.1	Recognize the need for additional help or supervision and seek it accordingly.
	PPD.2	Demonstrate trustworthiness that makes colleagues feel secure when responsible for the care of patients.
	PPD.3	Demonstrate awareness of one's own emotions, attitudes, and resilience/wellness strategies for managing stressors and uncertainty inherent to the practice of medicine.
Exhibit commitment and aptitude for life-long learning and continuing improvement (LL)	LL.1	Identify strengths, deficiencies, and limits in one's knowledge and expertise.
	LL.2	Develop goals and strategies to improve performance.
	LL.3	Develop and answer questions based on personal learning needs.
	LL.4	Actively seek feedback and opportunities to improve one's knowledge and skills.
	LL.5	Locate, appraise, and assimilate evidence from scientific studies related to patients' health.
	LL.6	Actively identify, analyze, and implement new knowledge, guidelines, standards, technologies, or services that have been demonstrated to improve patient outcomes.
Demonstrate knowledge of health care delivery and systems needed to provide optimal care to patients and populations (HS)	HS.1	Identify the many factors that influence health including structural and social determinants, disease prevention, and disability in the population.
	HS.2	Apply principles of epidemiological sciences to the identification of health problems, risk factors, treatment strategies, resources, and disease prevention/health promotion efforts for patients and populations.
	HS.3	Demonstrate respect for the unique cultures, values, roles/responsibilities, and expertise of the interprofessional team and the impact these factors can have on health outcomes.
	HS.4	Work with the interprofessional team to coordinate patient care across healthcare systems and address the needs of patients.
	HS.5	Participate in continuous improvement in a clinical setting, utilizing a systematic and team-oriented approach to improve the quality and value of care for patients and populations.
	HS.6	Initiate safety interventions aimed at reducing patient harm.

A Boston University Chobanian & Avedisian School of Medicine graduate will be able to:		
INSTITUTIONAL LEARNING OBJECTIVES	MEDICAL EDUCATION PROGRAM OBJECTIVES	
	HS.7	Incorporate considerations of cost awareness and risk-benefit analysis in patient and/or population-based care.
	HS.8	Integrate preventive interventions into the comprehensive health care of individuals.
	HS.9	Explain how different health care systems, programs and community organizations affect the health of neighborhoods and communities.
Exhibit commitment to promoting and advancing health equity for all patients (HE)	HE.1	Define health equity and describe the individual and population level differences in health outcomes and disease burden due to inequities in health care.
	HE.2	Comprehend the historical and current drivers of structural vulnerability, racism, sexism, oppression, and historical marginalization and how they create health inequity.
	HE.3	Explain how one's own identity, lived experiences, privileges, and biases influences their perspectives of colleagues, patients and clinical decision making.
	HE.4	Comprehend and identify the impact of health care inequities through medical decision making tools, interpreting medical literature and reviewing scientific research.
	HE.5	Identify factors needed to advocate for a more diverse and equitable healthcare environment at a local, community, and systems based level.

Clerkship Learning Objectives

A third-year clerkship student will:

- Apply discipline specific knowledge within the context of clinical care (MK1-3)
- Gather an organized and hypothesis driven clinical history while being attentive to the patient's needs (CSDR-1)
- Perform a pertinent and accurate physical examination, accurately identifying any common abnormalities while demonstrating sensitivity to the patient. (CSDR-2)
- Analyze clinical data to formulate an assessment including a prioritized differential diagnosis supported by disease prevalence, pathophysiology, and relevant positive and negative clinical findings. (MK4-6, CSDR-3,4)
- Formulate an evidence based management plan that shows comprehension of the underlying disease process(CSDR 4)
- Deliver an accurate, well-structured, and synthesized oral presentations appropriate for the clinical setting.(CSDR-5)
- Document in the medical record in an accurate, organized and timely manner (CSDR-6)
- Communicate effectively with the interprofessional healthcare team (C4,5)
- Demonstrate an ability to perform common procedures safely and correctly, including participating in informed consent, following universal precautions and sterile technique while attending to patient comfort. (CSDR-7)
- Counsel and educate patients and families using patient-centered language that addresses patient concerns and clearly communicates plans of care. (C1-3, C7-8)
- Elicit feedback, communicate learning needs, demonstrate self-directed learning, and take opportunities to improve knowledge and skill gaps. (LL1-4, PPD-1)
- Treat all patients and team members with compassion, respect and empathy (PCC-1, 2)
- Display trustworthiness and an understanding of the responsibilities of a clinical student (PPD-2)

- Apply an understanding of the social and structural determinants of health to clinical care and initiate steps towards addressing the individual needs of patients (HE-1,2,4, MK-8)
- Use electronic decision support tools and point-of-care resources to apply the best available evidence in supporting and justifying clinical reasoning (CSDR-8, LL5-6).
- Practice inclusive and culturally responsive spoken and written communication that ensure equitable patient care (C7)

General Responsibilities of the Clinical Faculty

Goals of the Clinical Clerkship

During the clinical clerkships at Boston University Chobanian & Avedisian School of Medicine, we aim to create a learning climate where students have the opportunity to learn high quality clinical skills by:

- Creating a culture that challenges and supports the students
- Providing opportunities for meaningful involvement in patient care with appropriate supervision
- Role modeling by exemplary physicians
- Coaching students by setting clear expectations, providing frequent observations of core clinical skills, asking questions to assess knowledge and reasoning, explicitly modeling and providing timely, specific feedback

Clerkship Structure

Each clerkship is run by a clerkship director. Each clerkship clinical site is run by a clerkship site director who ensures that students are appropriately supervised. In addition, clerkships usually have multiple clinical faculty that have varying degrees of exposure to the student.

Overall Responsibilities

Each clerkship is directed by the School's Clerkship Director who oversees all clerkship sites. Each clinical site is directed by a clerkship site director who ensures that students are appropriately supervised and faculty and residents are prepared to teach at their site. Clerkships also have multiple clinical faculty that have varying degrees of exposure to students. The responsibilities of the directors and coordinators are described below more specifically. Clerkship directors are assisted by assistant clerkship directors, clerkship site directors, and clerkship coordinators.

School's Clerkship Director & Assistant Clerkship Director

- Oversees the clerkship curriculum's design, implementation, and administration
- Defines clerkship specific learning objectives and requirements
- Creates and maintains an appropriate learning environment, modeling respectful and professional behaviors for and toward students
- Ensures student and faculty access to appropriate resources for medical student education
- Orients students to the overall clerkship, including defining the levels of student responsibility requirements (i.e., required diagnoses and procedures, direct observations, forms, feedback) grading structure and student schedule
- Oversees teaching methods (e.g., lectures, small groups, workshops, clinical skills sessions, and distance learning) to meet clerkship objectives

- Develops faculty involved in the clerkship and provide faculty development across sites specific to clerkship needs
- Evaluates and grades students
 - Develops and monitors assessment materials
 - Uses required methods for evaluation and grading
 - Assures timely mid-clerkship meetings at all sites with students
 - Ensures students receive timely and specific feedback on their performance
 - Submits final grade form for students via School of Medicine's evaluation system
- Evaluates clerkship, faculty, and programs via peer review and annual data from the Medical Education Office (MEO) and national organizations (AAMC, NBME, etc.)
- Supports each student's academic success and professional growth and development, including identifying students experiencing difficulties and providing timely feedback and resources
- Addresses any mistreatment and professionalism concerns in real time and communicate with MEO
- Participates in the School's clerkship Educational Quality Improvement and peer review processes with completion of action items
- Ensures LCME accreditation preparation and adherence
- Adheres to the AAMC-developed guidelines regarding Teacher-Learner Expectations

Overall Clerkship Coordinator

- Supports the clerkship director in their responsibilities above
- Creates and maintains an appropriate learning environment, modeling respectful and professional behaviors for and toward students
- Responds within one business day to student emails and questions
- Maintains student rosters and clinical schedules
- Coordinates orientations and didactic sessions
- Liaises with site directors and administrators to coordinate student experiences across all sites and timely collection of evaluations
- Verifies completion of clerkship requirements, including midpoint and final evaluations for each student, required diagnoses, and FOCuS forms
- Monitors students' reported work hours and report any work hours violations to the clerkship director
- Coordinates and proctors clerkship exams

Clerkship Site Director

- Oversees the clerkship curriculum and administration at the site
- Creates and maintains an appropriate learning environment, modeling respectful and professional behaviors for and toward students
- Is available and responsive to students' questions and concerns
- Ensures all faculty and residents teaching students are oriented to students' expectations, responsibilities, learning objectives, requirements, and assessments used in the clerkship
- Ensures student and faculty access to appropriate resources for medical student education
- Orients students to the clinical site when new students arrive at the site
- Reviews clerkship requirements and student expectations at site
 - Provides site specific information including, but not limited to, lockers, library, call rooms as applicable and required by LCME

- Reviews site-specific schedule, discusses student role and responsibilities at site, supervision at site, and who to contact with questions and concerns
- Supervises students and ensures clerkship specific required observations are completed
- Meets with the student for the Mid-clerkship review
- Meets with the student for the final exit meeting
- Ensures timely and specific formative feedback based on direct observations
- Works with faculty and residents to delegate increasing levels of responsibility to students based on clerkship requirements
- Provides site didactics when applicable
- Recognizes students with academic or professionalism difficulties and communicates to Clerkship Director in a timely fashion
- Completes and ensures the accuracy of student evaluation forms, including formative and summative narratives for students at the site
 - Ensures collection of feedback and evaluation data from all physicians who work with each student by the end of the clerkship block to meet School's grading deadlines
 - Ensures that narrative data are consistent with and support numerical data
 - Evaluates students fairly, objectively, and consistently following medical school and clerkship rubrics and guidelines
- Addresses any student mistreatment concerns immediately and notifies the Clerkship Director
- Adheres to the AAMC Teacher-Learner Expectations guidelines
- Reviews site specific evaluations at mid-year and end of year and facilitates improvements based on data
- Works with School to provide faculty development for faculty and residents
- Answers Clerkship Director's questions or concerns regarding site evaluation or student concerns
- Participates in educational programming and meetings as requested by Clerkship Director or Assistant Dean for Affiliated Sites
- Adheres to LCME guidelines

Clerkship Site Coordinator

- Supports the clerkship site director in their responsibilities above
- Creates and maintains an appropriate learning environment, modeling respectful and professional behaviors for and toward students
- Responds within one business day to student emails and questions
- Sends out welcome email informing students where and when to arrive at least 72 hours before student start date
- Provides students with their contact information and remains available for questions and concerns during working days and hours
- Ensures students are oriented to clinics and hospital
- Obtains, tracks, and manages student rosters
- Obtains and maintains student information required by the site, as applicable
- Creates and distributes:
 - Student schedules to students, faculty, and staff before clerkship start date

- Didactics/Presentation schedules, if applicable
- Schedules mid-clerkship evaluations; tracks and keeps record of completion and provides to overall Clerkship Coordinator
- Informs faculty and overall Clerkship Coordinator of student absences
- Arranges and schedules educational resources as applicable (e.g., SIM lab, EMR & Scrub training) and helps students troubleshoot
- Provides students with necessary documents and resources needed to be oriented to site
- Monitors and processes evaluations for distribution to faculty and residents
- Collects timely feedback from faculty for mid and end of clerkship evaluations to meet School's deadlines
- Collects feedback and evaluation data from all physicians who work with each student by end of clerkship block to meet School's grading deadlines
- Understands evaluation system and all site requirements
- Communicates site information changes (e.g., faculty, rotation details) to School's Clerkship Director and Clerkship Coordinator
- Maintains communication with Clerkship coordinator centrally and response within one business day
- Coordinates site specific meetings and faculty development with School

Primary Clinical Educators

- Sets and clearly communicates expectations to students
- Observes students' history taking and physical exam skills, and documents it on the FOCuS form
- Delegates increasing levels of responsibility to students based on clerkship requirements
- Maintains appropriate levels of supervision for students at site
- Creates and maintains an appropriate learning environment, modeling respectful and professional behaviors for and toward students
- Recognizes students with academic or professionalism difficulties and communicates to Clerkship Director in a timely fashion
- Gives students timely and specific formative feedback based on direct observations
- Assesses students objectively using School of Medicine's evaluation system
- Adheres to the AAMC Teacher-Learner Expectations guidelines

Orientation of the Student to the Clinical Setting

This sets the tone for the rest of the experience and has a direct effect on the success of the rotation for both student and preceptor. It can also reduce student anxiety. You should:

- Orient the student to the clinical setting, the staff, and team at your site
- Review workflow
- Discuss student's learning experiences to date
- Discuss student's learning goals

Setting Expectations for the Student

It is important to be clear regarding your expectations for the student. On the first day, describe the expectations around their role, presentations, documentation, and participation. Consider reviewing the

assessment form and the specific expectations described. A tool to help set expectations with the student is the *One Minute Learner*, which can be found at:

<https://www.stfm.org/publicationsresearch/publications/educationcolumns/2013/march/>

Supervising the Student

Initially, the primary clinical faculty members should designate time to observe the student performing: **history taking, focused physical exam, clinical problem-solving and interaction with patients and patient education.** Once the supervisor establishes the student's level of confidence and competency, the student should be delegated increasing levels of responsibility in patient care, as appropriate. Although students may initiate a particular patient encounter on their own and without direct supervision, the faculty must at some point review the encounter with the student and inform the patient in-person that the student's assessment and management plan has been reviewed and approved by the faculty. The faculty is ultimately responsible for the evaluation, treatment, management, and documentation of patient care.

Under no circumstances should the following occur:

- Patient leaves the office/hospital without having had a direct face-to-face encounter with clinical faculty.
- Primary faculty gives "prior approval" for student to perform intervention (order labs, prescribe meds) without satisfactory review.
- Patient leaves office/hospital without being informed that assessment/ management plan has been directly reviewed and approved by the faculty.
- Learning in which a student is expected to perform an intervention or encounter without the prerequisite training and/or adequate supervision.
- Student note provides the only record of the visit. Although all faculty see all patients, faculty must document that they were actually the person responsible for seeing and examining the patient.

Intimate Exam Policy

Students participating in an intimate exam with a patient (which includes, pelvic, genitourinary and rectal exam) must have a chaperone with them, irrespective of the gender of the patient or the student.

Permission to participate in an intimate exam must be obtained by the supervisor in advance of the examination itself. The patient has the right to decline student attendance at any examination.

If a student is unable to perform any intimate exam due to patient preference, the student's evaluation will not be impacted and if necessary, the clerkship director will provide an alternative experience.

Physical Exam Demonstrations

The demonstration of the physical examination on students should not be done by any supervisor of students including residents and attending faculty. Practicing the physical examination on students places

them in a position where they may feel pressure to consent to something they may not feel comfortable with.

Federal Guidelines for documentation

CMS Guidelines from February 2, 2018, state:

“The Centers for Medicare & Medicaid Services (CMS) is revising the Medicare Claims Processing Manual, Chapter 12, Section 100.1.1, to update policy on Evaluation and Management (E/M) documentation to allow the teaching physician to verify in the medical record any student documentation of components of E/M services, rather than re-documenting the work. Students may document services in the medical record. However, the teaching physician must verify in the medical record all student documentation or findings, including history, physical exam and/or medical decision making. The teaching physician must personally perform (or re-perform) the physical exam and medical decision making activities of the E/M service being billed, but may verify any student documentation of them in the medical record, rather than re-documenting this work.”

EMR Documentation

- Students are allowed and encouraged to write complete notes in patient electronic charts as designated by the site and the site’s documentation policy.

Supervision and Delegating Increasing Levels of Responsibility

It is expected that the level of student responsibility and supervision will be commensurate with student’s competency and level of confidence. When the student arrives in your practice, you may wish to have them observe you or the resident for the first session. Thereafter, they should begin to see patients on their own. In the outpatient setting, **the student should initially perform 4-5 focused visits per day in the first week, increasing to 6-12 thereafter. In the inpatient setting, the student should initially follow 1-2 patients and increased to 3-4 thereafter. This will vary slightly by clerkship.** When a student feels that they are being asked to perform beyond their level of confidence or competency, it is the responsibility of the student to promptly inform the preceptor. It is then the preceptor’s responsibility to constructively address the student’s concerns and appropriately restructure the teaching encounter to address the student’s learning needs.

Student Assessment

CLINICAL STUDENT EVALUATION FORM (CSEF): Boston University Chobanian & Avedisian School of Medicine utilizes a **behaviorally based** evaluation tool for its clinical evaluations. Each clerkship has identified the competencies its students should be evaluated on. This means that you will grade your clerk based on their knowledge/skills/attitudes, rather than how they compare to other students.

There is a description of the behaviors for students who are competent in each domain. Following that are the six choices.

- Not observed or not enough information to make a judgment: If you feel you have not observed a student enough to make a judgment in a certain domain, you should check off this category. That said, if you are able to make a judgment please do so – your feedback is vitally important to the student and their learning.
- Needs intensive remediation in this domain: These are students who despite coaching are unable to succeed in this domain. This category is consistent with a student who would fail in this domain.
- Needs directed coaching in this domain: These are students for whom faculty/residents need to spend significant time coaching in order to perform in this domain.
- Approaching competency in this domain: These are students who are meeting some but not all of the competency behaviors listed for the domain.
- Competent in this domain: These are students who are displaying the behaviors described for the domain.
- Achieving behaviors beyond the 3rd year competency criteria: These are students who are exceeding the behaviors described.

The competent and reach behaviors and CSEF for each clerkship can be found at:

<https://www.bumc.bu.edu/camed/education/medical-education/faculty-resources/#clerks>

For each category, you should describe the student's skills you have observed. This section is required when a student is performing in any of the domains except "Competent in this Domain". Educator development videos with additional guidance are available on our website:

<https://www.bu.edu/camed/education/medical-education/faculty-resources/educator-development-videos/>

Feedback

Feedback is vital for student learning and growth and should be given regularly. Feedback during a clerkship should be given multiple times which include: real-time feedback during patient care, recap feedback at the end of the session/day and summative feedback at the mid and end of the rotation. The **FOCuS** (Feedback based on **O**bservation of **C**linical **S**tudent) forms required for each clerkship provide formative assessment through direct observation of CSEF behaviors. **FOCuS** forms required for that clerkship must be completed for each student by the end of the rotation. Each clerkship will require one interviewing technique and one physical exam FOCuS form to be completed. The School's Formative Assessment and Feedback Policy can be found here:

<https://www.bumc.bu.edu/camed/education/medical-education/policies/formative-assessment-and-feedback/>

FOCuS forms for each clerkship are available at: <https://www.bumc.bu.edu/camed/education/medical-education/faculty-resources/#clerks>

Best practices regarding feedback include:

- Start with getting the student's perspective on how they performed or are performing.
- Feedback should be specific and actionable. What could the student do differently next time?
- Feedback should be based on direct observation. i.e., what you have seen.
- Feedback should be timely (in close proximity to when you observed a behavior).
- Feedback should be respectful and encourage future growth.

Early Recognition of Learning Problems

The clerkship director and the medical school are committed to providing additional educational support as required for the student's successful completion of the program. The clerkship director should be notified as soon as possible if the preceptor and/or student identify significant deficiencies. This will allow for supportive interventions to be implemented prior to the end of the clerkship.

If a primary faculty is concerned that the student may be at risk of receiving an unsatisfactory rating in **ANY** category, this information should be shared with the student face-to-face **as soon as possible**, and certainly during the mid-clerkship evaluation. Once informed, the student may wish to obtain additional academic assistance from the clerkship director and support personnel. Identifying potential problems early on allows the student the opportunity to enhance performance prior to the end of the clerkship. Faculty should also feel free to contact the clerkship director if learning difficulties or related problems are identified at any time. However, in fairness to the student, the primary faculty should also inform the student of the problem at that time.

Mid Rotation Meeting

The clinical faculty/site director should sit privately with the student at the mid-point in the rotation to give feedback. It is highly recommended that the faculty working directly with the student complete a copy of the Clinical Student Evaluation Form (CSEF) before the meeting, and then directly address each item on the CSEF with the student to provide more detailed feedback about how they are performing. Feedback for the student, including strengths and areas that need improvement should be reviewed (See Appendix B).

The site director/clerkship director and the student are required to complete the **Mid-clerkship Evaluation form** for the mid rotation meeting. Learning goals for the latter half of the clerkship should be discussed. The student's patient log should be reviewed and a plan should be made for remediation of any

deficiencies (e.g. strategizing how the student could see a patient with that clinical condition, discussing opportunities to complete the requirement with an alternative experience, etc.) The student should update and review the summary statistics of their duty hour log and patient log before their meeting with you. FOCuS forms should also be reviewed (Appendix A).

Final Grade and Narrative Comments

On the last day at the site, the site director and student are to meet for 15-30 minutes to review the final Clinical Student Evaluation Form. This session should allow for an important educational interchange between the clinical site director/faculty and the student. We strongly suggest that evaluations from other faculty and residents with whom the student has worked be collected, and that the evaluation form be completed by the site director **PRIOR TO** the meeting with the student if at all possible. This information is very important to students and is best reviewed with them directly. If you are unable to complete the evaluation form before the final interview, please submit it no later than one week after the end of the clerkship block. It should reflect as closely as possible the substance of your discussion with the student. The narrative portion of the form is especially important.

The comments sections of the CSEF are very important. The more specific you are, including examples, the more helpful the evaluation is to the student and the medical school. The **summative** comments get put in the students' Dean's letters that go out to residency programs- so having accurate, detailed information is very helpful. This box is where you should put what you observe about the student, trying to highlight their strengths and specifics of their performance. The second box is for **areas for improvement**. These are comments that are not included in the Dean's letter. These are the constructive comments for the student- areas to work on, ways they can grow. We encourage every preceptor to provide information to the student in this section so that the student can have direction in what they need to work on in the future.

Example Narrative Comments:

This is an example of the type of summative comments that the medical school is looking for from one of our sites: (the student's name has been replaced to maintain their anonymity)

"Rocco did an excellent job during his Family Medicine Clerkship. He is able to develop rapport with patients very quickly and meaningfully. He avoids medical jargon when speaking to patients. He is able to identify the patient's major problems and reason through the most likely diagnosis. His physical exams skills are accurate. He should continue to think about his differential when completing his exam. He generates well thought out differential diagnoses and is able to routinely provide a rationale for his most likely diagnosis. By the end of the rotation, Rocco was able to discuss parts of the plan with the patient and do some brief patient education on nutrition and exercise. His progress notes were always appropriate, well organized, timely, and complete. His case presentations were organized, focused and complete. Rocco demonstrated a solid fund of knowledge right from the beginning and was able to answer questions. He should continue

to explore the use of point of care resources in the clinical setting. He exhibited a very calm and professional manner when working with patients, putting them at ease and allowing for more effective and empathetic communication. He was active in the learning process. He routinely identified what he wanted to learn from the rotation and continued to work on those items up to the very last minute of the rotation. He exhibited a professional attitude towards the clinic staff and patients."

Home Visit

Certain clerkships have home visits. Primary faculty need to provide complete instructions regarding the home visit and expectations for the student.

Home visit safety

Student and patient safety is a priority for home visits. **Students are required to go to their home visit with another student or clinician (MD, NP, RN, Resident, etc.).** At no time should a student participate in an experience where they are in danger or feel uncomfortable. Please assist the student in finding an appropriate patient for their home visit with respect to educational, patient care, logistical, and safety goals. Students are encouraged to talk with their preceptor or the clerkship director if they have questions or concerns at any point. The student should notify the primary preceptor or a designated staff member of the date and location of their home visit before they go to the patient's home.

Important Clerkship Policies

Attendance Policies

On-site hours must be limited to 80 hours per week, averaged over a two-week period. Violations should be reported directly to the clerkship director or to an Associate Dean (Medical Education or Student Affairs). Time off requests must comply with the Attendance & Time Off Policy.

- **Attendance, Time Off, and Personal Days Policy:** <https://www.bumc.bu.edu/camed/education/medical-education/policies/attendance-time-off-policy/>
- **Work Hours:** <https://www.bumc.bu.edu/camed/education/medical-education/policies/work-hours/>
- **Jury Service:** <http://www.bu.edu/dos/policies/lifebook/jury-service/>
- **Religious Observance:** <https://www.bu.edu/chapel/religion/religiouslifepolicies/>
- **Weather Policy:** <https://www.bumc.bu.edu/camed/education/medical-education/policies/weather-policy/>
- **Core Clerkship Personal Days Policy:** <https://www.bumc.bu.edu/camed/education/medical-education/policies/attendance-time-off-policy>

Learning Environment Expectations

Chobanian & Avedisian School of Medicine has a **ZERO** tolerance policy for medical student mistreatment. We expect students to be aware of the policy for appropriate treatment in medicine, including procedures for reporting mistreatment.

Learning more about the school's efforts to maintain and improve the learning environment at:

<https://www.bumc.bu.edu/camed/education/medical-education/learning-environment/>

Appropriate Treatment in Medicine

Students who have experienced or witnessed mistreatment are encouraged to report it using one of the following methods:

- Contact the chair of the Appropriate Treatment in Medicine Committee (ATM), Dr. Vincent Smith, MD, directly by email (vincent.smith@bmc.org)
- Submit an online Incident Report Form through the online reporting system
<https://www.bumc.bu.edu/camed/student-affairs/atm/report-an-incident-to-atm/>

These reports are sent to the ATM chair directly. Complaints will be kept confidential and addressed quickly.

Appropriate Treatment in Medicine website: <https://www.bumc.bu.edu/camed/student-affairs/atm/>

Boston University Sexual Misconduct/Title IX Policy

<http://www.bu.edu/safety/sexual-misconduct/title-ix-bu-policies/sexual-misconducttitle-ix-policy/>

Needle Sticks and Exposure Procedure

<https://www.bumc.bu.edu/camed/student-affairs/additional-student-resources/needle-stickexposure/>

Boston University School of Medicine Needle Sticks and Exposure Procedure

Purpose: To outline appropriate preventative measures and what to do in case of unprotected exposure to body fluids.

Covered Parties: Medical students.

Procedure:

To prevent exposure to potentially infectious materials, students must use standard precautions with all patients and when performing any task or procedure that could result in the contamination of skin or clothing with blood, body fluids, secretions, excretions (except sweat), or other potentially infectious material, regardless of whether the those fluids contain visible blood.

Standard precautions are to be observed to prevent contact with blood or other potentially infectious materials. ALL body fluids are considered potentially infectious materials. All students are responsible for their personal safety and the safety of their teammates. Students should follow safe practices when handling sharps. Students must use appropriate personal protective equipment such as, but not limited to, gloves,

gowns, laboratory coats, face shields or masks and eye protection, and mouthpieces, resuscitation bags, pocket masks, or other ventilation devices.

Standard Precautions include:

- Hand hygiene
- Eye and face protection
- Use of gowns and gloves
- Sharps management

Additional “Transmission Based Precautions” must be used in addition to standard precautions for patients with known or suspected infection or colonization with highly transmissible or epidemiologically important pathogens.

In the event of a needle stick or any unprotected exposure to blood, bloody body fluids, or other potentially infectious material, either in a lab or a clinical setting you should:

- Wash the exposed area and perform basic first aid
- Notify your supervisor – resident or faculty – of the occurrence and that you are leaving to seek care immediately.
- Get evaluated immediately: it is extremely important to receive counseling regarding the risk of acquiring a communicable disease. If indicated, prophylaxis should be started right away, usually within one hour.

If you are at Boston Medical Center

BMC’s Occupational Health clinic during working hours or the BMC Emergency Department after hours and on weekends

Location

The Working Well Occupational Health Clinic is located:
Doctor's Office Building (DOB 7) - Suite 703
720 Harrison Ave, Boston MA 02118

Telephone: 617-638-8400

Pager: 3580

Fax: 617- 638-8406

E-mail: workingwellclinic@bmc.org

Hours: Monday-Friday, 7:30a.m. - 4:00p.m.

- Tell the receptionist you have had an unprotected exposure (needle stick), and you will be fast-tracked into the clinic.
- A counselor will discuss post-exposure prophylaxis with you
- DO NOT DELAY!

BMC’s Occupational Health will notify the Office of Student Affairs of exposures occurring at BMC within 48 hours. These situations can be very stressful and we are here to help. To speak to a dean immediately about

the incident, please page the dean on duty by calling (617) 638-5795 and sending a page to #4196 or sending a text page to pager #4196 through the pager [directory](#).

If you are at a non-Boston Medical Center site

Immediately check with your supervising physician about the site-specific needle-stick protocol

- If the site has its own emergency room or occupational health you will be directed to go there
- If the site does not have its own emergency room or occupational health, you will go to the nearest emergency room
- DO NOT DELAY!

Coverage for provided services is included in the Aetna student health insurance plan offered by the University. In the event that you do not have Boston University School of Medicine health insurance (Aetna), you must contact your carrier and determine the level of services covered. Submit any billing received to your insurance company. The OSA will provide reimbursement for out-of-pocket co-pays. We strongly encourage you to keep your health insurance card in your wallet at all times.

For questions regarding this policy please contact Dr. Angela Jackson, Associate Dean of Student Affairs. Dr. Jackson can be reached in the Office of Student Affairs (617-358-7466).

Revised Jan 2018



Boston University School of Medicine

MID-CLERKSHIP EVALUATION FORM

Student Name: _____

Faculty Reviewer: _____

During the Mid-Clerkship Meeting, faculty and student should meet, complete, discuss, and sign the Mid-Clerkship Review form (this paper) by week 2 on a 4 week clerkship, week 3 on a 6 week clerkship and week 4 on an 8 week clerkship.

Step 1: Faculty please complete a Mid-Clerkship CSEF, review each domain with the student and provide feedback and/or review completed FOCuS Forms with the student.

Step 2: Please review student's required patient encounter log, duty hour log and their FOCuS forms

PATIENT LOG (REQUIRED DIAGNOSES and PROCEDURES)

Required patient encounters remaining:

Plan and timeline for completion or alternative experiences:

FOCuS FORMS Review complete: Yes No

Direct Observation and Feedback Forms Remaining:

Plan and timeline for completion:

DUTY HOUR LOG Review complete: Yes No

Step 3: Written feedback

List AT LEAST 2 SPECIFIC student strengths and comments on their performance (List behaviors, skills, etc.)

List AT LEAST 2 SPECIFIC items to work on during the second half of the clerkship (discuss action plan with student):

Please provide feedback on professionalism:

Step 4: Action Plan

Students: Write 3 learning goals for the rest of the rotation based on the feedback you received and discuss them with your faculty reviewer

1.

2.

3.

Student signature _____

Faculty signature _____

Clerkship director signature _____
(if not the same as above)

Medicine Clerkship

Academic Year 2024-2025

Department of Internal Medicine

MS 302

2024-2025

Clerkship Director: Sonia Ananthakrishnan, MD

Clerkship Coordinator: TBD

Clerkship Learning Objectives

(Linked to Medical Education Program Objectives in parentheses)

By the end of the clerkship, each student will be able to

- I. Demonstrate **professional and humanistic behavior in clinical and clerkship related responsibilities**:
 - Be present and punctual
 - Proactively clarify your role and responsibilities, and reliably respond to patient care needs
 - Appropriately identify your position as “Student” or “Student Doctor”
 - Maintain confidentiality
 - Be forthright and accept responsibility for errors
 - Ask for help appropriately
 - Build a therapeutic relationship through a respectful, empathic approach that **gains the trust of the patient**
 - Dress and behave in a way that promotes patient and team comfort, trust and confidence in you
 - Demonstrate that the interests of the patient guide your behavior by:
 - Working to meet the patient’s needs – at times this means accepting personal inconvenience
 - Advocating for patient’s needs – e.g., getting a test, consult or follow-up appointment
- II. Develop productive, collaborative working relationships with other members of the health care **team** and system, effectively contribute to the provision of quality patient care, and work toward the **improvement of the systems of care**.
- III. Use proper technique to perform an accurate, appropriately detailed and organized **history and physical examination** in an efficient and sensitive manner, with a special emphasis on the intermediate and advanced physical diagnosis skills involved in volume assessment, the cardiovascular exam and the chest/pulmonary exam.
- IV. Communicate clinical information accurately and demonstrate your understanding of the patient’s problems, through concise, convincing, well-organized **patient presentations, admission write-ups, progress notes, and handoffs** that are appropriately focused for the audience, purpose and time available for the communication.
- V. **Identify and prioritize your patients’ problems, formulate an appropriate differential diagnosis** and outline an approach to diagnosis and management that is supported by clinical data and sound reasoning.
- VI. **Educate patients** about their conditions and partner with them to develop and implement a treatment plan.
- VII. Perform the designated **procedures** with appropriate technical proficiency while demonstrating attention to the patient’s needs and concerns, and describing a clear understanding of benefits/risks, indications/contraindications.

- VIII. Demonstrate a core foundation of **knowledge** (scientific, ethical, socio-cultural) guided by the course objectives that is necessary both to provide high quality patient care and to understand advances in medicine.
- IX. **Identify and address your learning needs** (by asking questions and critically incorporating information from appropriate resources into the decision-making process) and effectively share this information with colleagues.

Solicit and probe for useful **feedback** and respond with **improved performance**

Contact Information

Clerkship Director



Sonia Ananthakrishnan

Telephone: (617) 358 - 3523

Email: Sonia.Ananthakrishnan@bmc.org

Pager: 4435

Office: Evans 122

Office Hours: Students may email to set up an appointment

Associate Clerkship Directors



Radha Govindraj, MD

Telephone: Please email to reach out

Email: Radha.Govindraj@bmc.org

Pager: 1808

Office: Crosstown 2111

Office Hours: Students may email to set up an appointment



Ricardo Cruz, MD

Telephone: Please email to reach out

Email: Ricardo.Cruz@bmc.org

Pager: 0338

Office: Crosstown, 2nd Floor

Office Hours: Students may email to set up an appointment



Katy Bockstall, MD

Telephone: Please email to reach out

Email: Katy.Bockstall@bmc.org

Pager: 2744

Office: Collamore Building, 703K

Office Hours: Students may email to set up an appointment

Interim Clerkship Coordinator Support



Alyssa Pace

Telephone: (617) 358 - 3524

Email: apace@bu.edu

Office: Evans 122

Office Hours: 9 AM – 4:30 PM

Clerkship Specific Information

The Medicine Clerkship is an 8-week experience designed to develop your ability to function as a caring, increasingly independent clinician while supervised on a multi-professional team. During the clerkship, you will learn clinical medicine while working side-by-side with teams of residents and/or faculty providing care to a cohort of inpatients. As your knowledge and skills grow, you will earn increasing patient care responsibility. This direct patient care experience is complemented by a unique enrichment in which you also work in small groups with a clerkship director and hone essential clinical skills (including intermediate-level communications skills, physical diagnosis, and clinical reasoning). Your education is supplemented with conferences that focus on core topics. The clerkship is divided into two mini-blocks of 4 weeks each, and most students spend time at 1 or 2 of our clinical sites.

The goal of the clerkship is to develop someone who we would want to care for our family members; a professional, highly caring clinician who is increasingly independent and knowledgeable, and who is a strong team member.

The Medicine Clerkship aims to:

- **Introduce you to the world of internal medicine**
- **Develop your skills as a clinician**
- **Enable you to become a contributing, collaborating team member**
- **Support your skills as a self-directed learner**

The Self-Directed Learner

We welcome you to the world of medicine, where growth in the body of knowledge is accelerating and evolving at an unprecedented pace. You must be engaged and take ownership of your learning to maximize your learning experience on this clerkship. The Medicine Clerkship builds upon the learner-centered approach and challenges you to be a self-directed, lifelong learner. The dynamic nature of learning while caring for patients requires that you **become adept at identifying your learning needs and acting upon them**. You will need to continually ask relevant questions, find credible, evidence-based responses, and integrate this information into patient care.

As a student, you will learn to be a flexible learner who employs a variety of appropriate resources ranging from textbooks and the medical literature to consultants, and one who solicits and responds effectively to feedback. The clerkship provides you with many opportunities to read in-depth, to become the “local expert” on your patients, to share your learning with your team, and to improve continuously.

Contributing, Collaborating Team Member

Medicine is team-based, requiring you to **work effectively with multiple health care providers from different disciplines and within a complex system**. The Clerkship challenges you to “identify your niche” from which to consistently contribute to both patient care and team learning, and to develop the habits and skill sets that will enable you to function effectively within and improve the systems in which our patients receive their care.

Becoming a Clinician

The **primary focus of the clerkship** is to increase your ability to function as a caring, increasingly independent clinician while supervised on a multidisciplinary team. A clinician in this setting is someone who addresses all dimensions of patient care: communication, diagnosis, treatment, and healing. You will do so by growing into

taking a central role in the care of assigned patients while also learning from other patients who are on your team.

Didactic Schedule

Sample Didactics schedule demonstrating mix of full and half day sessions.

Block A Didactics Schedule				
Session Time	Day 1	Half Day	Half Day	Day 2
	Room R107	Room L212	Room R103	Room L210
	Weds, April 24	Weds, May 1st	Fri, May 10	Mon, May 20
8:00 AM				
8:30 AM			"ECG Interpretation Pt. 2" Katy B.	
9:00 AM	Sonia A.			
9:30 AM				
10:00 AM			Student Report**	** Covered by Katy and Radha
10:30 AM	"Chest Pain"/"IPASS?"		"Anemia" Lindsey H.	Ricardo C.
11:00 AM	Radha G.			
11:30 AM				
12:00 PM	Lunch Break	Wellness Hour		Lunch Break
12:30 PM				
1:00 PM	Student Report	"ECG Interpretation Pt. 1" Katy B.		Student Report
1:30 PM				
2:00 PM	"In-Patient Withdrawal Management" Alyssa Peterkin	Student Report		Sonia A.
2:30 PM				
3:00 PM				
3:30 PM	"The Approach to Fever and Antibiotics" Rich S.	Sonia A.		
4:00 PM				
4:30 PM				
5:00 PM				

Didactics will take place at Boston Medical Center. There are 1 full Didactic Days from 8 AM – 5 PM, varying times depending on sessions for the day as well as 1-2 Half Days. Med 1 Student Report will occur during didactics at BMC.

All conferences are available on ZOOM, thus students at sites other than BMC who cannot come to Boston due to far-off sites will have access to this education. All students within reasonable distance are expected to be in-person for these Didactic sessions on and are to be excused from clinical duties on those days (for half days starting at 1 pm, students are to be excused by 11-1130 AM to allow for travel time) to allow time for travel. Zoom conferencing is available and encouraged to access didactics in real-time. Videos of many BMC based didactics will be made available to students at all sites on Blackboard in order to complement didactic sessions at all other sites.

The IM Clerkship follows the 8 Week Schedule below:

**Please note the 4th Friday will usually be a Didactic Session from 8 AM – 12 PM. If no didactics are scheduled then, students are expected to round in the morning as usual before their Wellness Afternoon. Any changes in the schedule will be communicated through the Medicine Clerkship’s weekly email, the TWIM (“This Week in Medicine”).

	Monday	Tuesday	Wednesday	Thursday	Friday	Weekend
Week 1	Team 1: Site or BMC	Team 1: Site or BMC	Team 1: Site or BMC	Team 1: Site or BMC	Team 1: Site or BMC	ON
Week 2	Team 1: Site or BMC	Team 1: Site or BMC	Team 1: Site or BMC	Team 1: Site or BMC	Team 1: Site or BMC	OFF
Week 3	Team 1: Site or BMC	Team 1: Site or BMC	Team 1: Site or BMC	Team 1: Site or BMC	Team 1: Site or BMC	ON
Week 4	Team 1: Site or BMC	Team 1: Site or BMC	Team 1: Site or BMC	Team 1: Site or BMC	Team 1: Site or BMC Round in AM Wellness Afternoon	OFF
Week 5	Team 2: Site or BMC	Team 2: Site or BMC	Team 2: Site or BMC	Team 2: Site or BMC	Team 2: Site or BMC	ON
Week 6	Team 2: Site or BMC	Team 2: Site or BMC	Team 2: Site or BMC	Team 2: Site or BMC	Team 2: Site or BMC	OFF
Week 7	Team 2: Site or BMC	Team 2: Site or BMC	Team 2: Site or BMC	Team 2: Site or BMC	Team 2: Site or BMC	OFF
Week 8	Team 2: Site or BMC	Team 2: Site or BMC	Unofficial Reading Day -Written OCRA 10 AM -Final Assessments (TBD)	Reading Day	MED SHELF	OFF

Daily Schedule

Monday	Tuesday	Wednesday	Thursday	Friday
Pre-rounds 6:45-7:45	Pre-rounds 6:45-7:45	Pre-rounds 6:45-7:45	Pre-rounds 6:45-7:45	Pre-rounds 6:45-7:45
Work Rounds 7:45-11:00am	Work Rounds 7:45-11:00am	Work Rounds 7:45-11:00am	Work Rounds 7:45-11:00am	Work Rounds 7:45-11:00am
Wellness Hour 12-1pm	Wellness Hour 12-1pm	CREx/M&M Conference 12-1pm (Optional)	Wellness Hour 12-1pm	Department of Medicine Grand Rounds 12-1pm (Optional)
Patient Care and/or Small Group Learning with your CD 1- 5:30pm (2 x/week)	Patient Care and/or Small Group Learning with your CD 1-5:30pm (2 x/week)	Patient Care and/or Small Group Learning with your CD 2-5:30pm (2 x/week)	Patient Care and/or Small Group Learning with your CD 1-5:30pm (2 x/week)	Patient Care and/or Small Group Learning with your CD 1-5:30pm (2 x/week)

- The actual times vary slightly by team, but the above schedule gives you a general idea
- On Weekends 1, 3 and 5: You will round with your team on either Saturday or Sunday (see Blackboard for general BMC team “rules” for which weekend day you may work, subject to change); expect to have 1 weekend day off on those weeks. They will be excused by 12pm or after rounds on the 4th Friday for a Wellness Afternoon. Students observe the same weekdays on and off as the Internal Medicine residents in order to maintain the integrity of the Medicine ward team, and for students to gain experience functioning on an inter-professional team. Thus, students will work many Monday Holidays.

- Students will generally have 2 (TWO) 4-week blocks on this clerkship (with exceptions around holiday seasons). The students have a wellness afternoon the 4th Friday afternoon starting at noon (or after rounds/didactics).
- Finally, students will complete their clinical responsibilities and be excused by 5 pm on the day prior to their reading days in week ~8 of the Medicine clerkship.

Required Diagnoses

Big 10 Diagnoses

Fever	Low Blood Pressure/ Sepsis	Chest pain
Shortness of breath	Lab Abnormalities: glucose, acid-base, creatinine, sodium, potassium, calcium, hemoglobin	Palpitations
Extremity pain/swelling	Chronic kidney disease	CHF
	COPD/ emphysema	

Students Log these patients in MedHub: Patient longitudinal!

Formative Assessments (Medicine Clerkship Specific)

As stated above, the purpose of formative assessment is to improve student learning by providing feedback on how well they are learning skills and content during the clerkship. Formative assessments are not included in the calculations of students' final grades. Each clerkship has required **FOCuS (Feedback based on Observation of Clinical UME Student)** forms which must be completed by the mid/end of the clerkship. These forms will provide formative assessment through direct observation of CSEF behaviors. Each student is required to complete one interviewing technique and one physical exam FOCuS form on each clerkship. **On the Medicine clerkship, the Directly Observed Focused H and P counts towards this requirement.**

In addition, the Medicine clerkship has specific direct observation cards (SOCS) to be filed for review at mid/end of clerkship. Again, these forms are more opportunity for the student to obtain feedback from direct observation of skills that are specific to Internal Medicine.

FOCUS Cards and Internal Medicine Structured Observations of Clinical Skills (SOCS): These exercises are designed to assist the student in obtaining ongoing, real-time feedback after being directly observed performing a variety of skills (interviewing a patient, performing physical exam skills including 1) JVP

assessment, 3) Cardiac exam, 4) Pulmonary exam). These exercises will be student-initiated and completed on the wards by residents and attendings.

Two of these cards (SOCS) should be completed by the time of the mid-clerkship feedback sessions. The Internal Medicine SOCS cards will be turned in at the end of the rotation as part of the passport.

Neither the formative assessment exercises of FOCUS cards nor the Medicine SOCS cards are included in the numeric calculations of students' final grades. However, narrative comments or other observations from these direct observations may be included in the final grade.

Process for FOCUS and SOCS Forms

(Typically a 5-10 minute exercise)

1. Student initiates by speaking with observer (Resident, Attending or Fellow)
2. MD or student can identify patient
3. Hand observer the passport PRIOR to the patient encounter
4. Observation of encounter
5. Feedback on encounter
6. Observer and student sign card
7. Turn in FOCUS card and SOCS forms as part of the passport at the end of the clerkship

Clinical Problem Solving Cases (see individual case learning objectives)

Student Report These group discussions about real patients provide exposure to clinical problems commonly encountered in medicine. These will provide a good opportunity to practice clinical reasoning and the OCRA style of thinking for commonly encountered medical problems seen on the inpatient wards.

A mini-course on interpreting the ECG –Apply a systematic approach to interpret the EKG.

Small group sessions with your Clerkship Director. These sessions focus on refining core skills and building advanced skills in:

- Write-up and oral presentations → ~2 writeups turned in/4 week block
- Bedside rounds → Practice interview, exam skills with a particular focus on the CV exam, Chest/Pulmonary Exam, and Volume Assessment
- Clinical reasoning practice in case-based discussions
- Integrating the medical literature into patient care
- Skills: ECG, Simulation

Mid-Clerkship Feedback/Observed Clinical Reasoning Assessments

Key domains of clinical reasoning include information gathering, hypotheses generating, problem representation, differential diagnosis, identifying a leading diagnosis, providing justification, and developing a management plan.

This specific assessment of clinical reasoning highlights the domains of information gathering, identifying a leading diagnosis, providing justification and developing a basic management plan.

Objectives:

- For the clinical problem(s) addressed, generate a patient-specific differential diagnosis, obtain a focused history and physical that is relevant to the differential and develop initial steps to evaluate your differential
- Explain your reasoning and describe the most important and relevant pathophysiology for the condition(s)
- Identify the most useful diagnostic tests, and interpret their results
- Recommend initial treatment

These link to the following clerkship learning objectives:

- IV. Communicate clinical information accurately and demonstrate your understanding of the patient's problems, through concise, convincing, well-organized **patient presentations, admission write-ups, progress notes, and handoffs** that are appropriately focused for the audience, purpose and time available for the communication.
- V. **Identify and prioritize your patients' problems, formulate an appropriate differential diagnosis** and outline an approach to diagnosis and management that is supported by clinical data and sound reasoning.
- VI. Demonstrate a core foundation of **knowledge** (scientific, ethical, socio-cultural) guided by the course objectives that is necessary both to provide high quality patient care and to understand advances in medicine.

Process for the Observed Clinical Reasoning Assessment (OCRA)

- There is one oral OCRA (oral exam with 1 clerkship faculty, date and time TBA and will occur weeks 4-8) and 2 written OCRAs (30 minutes each, administered via Blackboard on the final Wednesday of the Medicine rotation.
- A list of students and their assigned date of the oral OCRA will be disseminated in advance. Assigned dates will be in weeks 4-8 of the clerkship.
- This formal evaluation will be done by core clerkship faculty.
- This evaluation will take place during the 4-8th week of the clerkship, unless extenuating circumstances do not allow.
- **The student will complete the observed oral assessment (1) and written assessments (2) on the dates and times provided by the clerkship.**
- The oral and written OCRAs will each be scored from 0-100 (based on a grading rubric). Each OCRA component (1 oral and 2 written exams) is weighted at 4% of the final grade. Thus the OCRA's 3 components (1 oral and 2 written) will in total be 12% of the final grade.
- Students will be asked to sign an honor code confirming that they will not share any information about the oral and written assessments with any fellow students. This includes the problems, diagnoses, details of the cases, or the questions they are asked.
- Failure to meet the expectations outlined above will result in a reduction in the student's score, and possible failure of the OCRA component.

Fail Observed Clinical Reasoning Assessment - If the student fails only the OCRA, the student must repeat the OCRA. If the student fails a 2nd time, the student may fail the clerkship and have to retake the clerkship in its entirety.

To best prepare for the OCRA: The OCRAs are based on the Medicine BIG 10. For each of the BIG 10 diagnoses in the Medicine clerkship (see Required Patient Encounters), the student should be able to define/describe:

- Illness scripts (IS) of the Medicine Big 10 problems/diagnoses- one way that experts store information (as chunks) about medical conditions in long term memory that enables them to store and readily retrieve that information
 - An Illness Script includes:
 - Who gets the condition? What are predisposing factors
 - How does it present? Clinical manifestations- defining features
 - With regard to symptoms, signs, study results
 - Temporal aspects of the presentation- onset, course of the condition
 - Core pathophysiology
- Differential diagnosis of Medicine Big 10
- Evaluation/Diagnosis- which tests to order, when to order, how to interpret for disease related to the Medicine Big 10
- Initial management of Big 10 and related diagnoses
- Prognosis
- Prevention

Please see Blackboard for video providing specific instructions of Oral/Written OCRA (~7 mins in length).

Directly Observed FOCUSED H and P Assessment

Objectives linked to this assessment:

- Demonstrate use of patient-centered interviewing and communication techniques
- Take a clinical history that demonstrates both organization and clinical reasoning
- Perform accurate and relevant physical exam techniques
- Demonstrate a compassionate and patient-sensitive approach to history-taking and physical examinations
- Demonstrate a fund of knowledge in the clinical discipline and apply this to patient care

These link to the following clerkship learning objectives:

- I. Use proper technique to perform an accurate, appropriately detailed and organized **history and physical examination** in an efficient and sensitive manner

Process for the Directly Observed Focused H and P Assessment

- Each student will be assigned a clerkship faculty who will contact them to set up a time to observe them take a brief, FOCUSED History and Physical Exam from a patient on the wards.
- This formal evaluation will be done by core clerkship faculty.

- This evaluation will take place during the 4th – 8th week of the clerkship, unless extenuating circumstances do not allow.
- The Focused H&P will be scored from 0-100 (based on a grading rubric) and will in total be 3% of the final grade.
- Failure to meet the expectations of this assessment will result in a reduction in the student's score, and possible failure of the Focused H&P component.

Fail Directly Observed Focused H and P Assessment - If the student fails only this component of the clerkship, the student must repeat the assessment. If the student fails a 2nd time, the student may fail the clerkship and have to retake the clerkship in its entirety.

To best prepare for the Directly Observed Focused H and P Assessment: Observe residents and faculty and get observed by residents and faculty interviewing and examining patients (use the FOCUS forms) during your Medicine Clerkship.

Assignments

1. Complete, sign (along with your observer) and turn in (as part of passport) Medicine Clerkship Structured Observation of Clinical Skills Cards (SOCS)
 - a. JVP Exam
 - b. Cardiac Exam
 - c. Pulmonary Exam
 2. Enter your assigned patients into the **MedHub patient encounter log** and ensure that you have seen and documented that you have seen the expected number (≥ 15) and types of patients (Big 10). Provide a paper copy for your Clerkship Director/Adviser at your feedback meetings.
 3. Complete the **Observed Clinical Reasoning Assessment** (oral and written) in weeks 4-8 of the clerkship. Dates/times to be assigned.
 4. Complete the **Directly Observed Focused H and P Assessment** in weeks 4-8 of the clerkship. Date/time to be assigned.
 5. Participate in the **mid-point feedback** sessions and sign the feedback form confirming completion.
 6. Complete and review **Preceptor Log** with your CD. Additionally, submit the preceptor log (excel sheet) to Blackboard at the end of week 4 and week 8.
 7. Complete MedHub and **Department of Medicine evaluation** of the clerkship and of your supervising residents and attendings.
 8. Successfully complete the **Medicine Subject ("Shelf") Exam** on the final day of the clerkship.
- **Optional but highly encouraged:** Complete, sign (along with your observer) and turn in (as part of passport) the following FOCuS forms: Interviewing and Data Gathering & Physical Exam