# Supplemental Guide: Osteopathic Neuromusculoskeletal Medicine



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### **Milestones Supplemental Guide**

This document provides additional guidance and examples for the Osteopathic Neuromusculoskeletal Medicine Milestones. This is not designed to indicate any specific requirements for each level, but to provide insight into the thinking of the Milestone Work Group.

Included in this document is the intent of each Milestone and examples of what a Clinical Competency Committee (CCC) might expect to be observed/assessed at each level. Also included are suggested assessment models and tools for each subcompetency, references, and other useful information.

Review this guide with the CCC and faculty members. As the program develops a shared mental model of the Milestones, consider creating an individualized guide (Supplemental Guide Template available) with institution/program-specific examples, assessment tools used by the program, and curricular components.

Additional tools and references, including the Milestones Guidebook, Clinical Competency Committee Guidebook, and Milestones Guidebook for Residents and Fellows, are available on the Resources page of the Milestones section of the ACGME website

Patient Care 1: Patient Management: Osteopathic Approach to Patient Care	
Overall Intent: To encourage an osteopathic philosophy with long-term progressive whole-person care and to think holistically about all	
stages of the patient experience while incorporating elements of mind, body, and spirit  Milestones  Examples	
Level 1 Integrates history, examination, diagnostic testing, and medication management into osteopathic patient care plan, with direct supervision and guidance	While on an inpatient ONMM rotation, evaluating hospitalized patients for an ONMM consult, creates an appropriate assessment and follows a treatment plan set forth by more senior residents and the attending physician
Performs osteopathic structural examination and diagnoses somatic dysfunction appropriate to patient condition, with direct supervision and guidance	When prompted by a supervising physician, performs an osteopathic structural exam as part of the physical exam portion of patient care
Incorporates osteopathic principles to promote health and wellness in patients with acute and chronic conditions, with direct supervision	When prompted by a supervising physician or senior-level resident, recognizes and addresses deficits in lifestyle contributing to pathology (lack of exercise, poor posture, smoking, poor water intake)
Level 2 Integrates history, examination, diagnostic testing, and medication management into osteopathic patient care plan, with indirect supervision	While on an inpatient ONMM rotation, creates an appropriate assessment and treatment plan with input from the attending physician
Performs osteopathic structural examination and diagnoses somatic dysfunction appropriate to patient condition, with indirect supervision	Performs an osteopathic structural exam as part of the physical exam of a patient consultation in the obstetrics unit; reports findings to the supervising physician
Incorporates osteopathic principles to promote health and wellness in patients with acute and chronic conditions, with indirect supervision	When completing a patient visit, suggests and demonstrates tools for lifestyle and behavior modifications to improve overall health (e.g., stretches to improve posture, hydration reminder apps, handouts recommending dietary changes)
Level 3 Independently integrates history, examination, diagnostic testing, and medication management into osteopathic patient care plan  Independently performs accurate and complete osteopathic structural examination and	<ul> <li>While on an inpatient ONMM rotation, independently creates an appropriate assessment and treatment plan independently for a stable hospitalized patient</li> <li>Identifies musculoskeletal -associated chief complaints that may not warrant immediate OMT, such as shoulder pain in a patient with significant cardiovascular disease history or, low back pain with red-flag symptoms</li> <li>Summarizes specialist consult notes and previous treatment plans; self-initiates conversations with specialists regarding patient care</li> </ul>

diagnoses somatic dysfunction appropriate to patient condition	
Incorporates osteopathic principles to promote health and wellness in patients with complex conditions, with indirect supervision	When treating patients, acknowledges previous attempts at lifestyle modification counseling attempts and recognizes if changes in tactics are necessary; provides coaching to patients with comorbid conditions (e.g., strength training to someone with osteoporosis, balancing hydration status in a patient with both congestive heart failure and chronic kidney disease)
Level 4 Independently integrates history, examination, diagnostic testing, and medication management into osteopathic patient care plan in complex patients	While on an inpatient ONMM rotation, independently creates an appropriate assessment and treatment plan for a critical hospitalized patient
Independently performs accurate and complete osteopathic structural examination and diagnoses somatic dysfunction appropriate to complex patients	Communicates the need to balance evidence-based medicine, cost-effective and appropriate care, and patient demands (e.g., requests for additional imaging when not warranted) with the patient
Independently incorporates osteopathic principles to promote health and wellness in patients with complex conditions	<ul> <li>Recognizes personal deficits in behavior modification counseling and lifestyle coaching; proactively finds resources to improve (e.g., takes courses online, seeks out mentor advice or reads leadership and self-improvement articles/books)</li> </ul>
Level 5 Role models the effective use of osteopathic-focused history, examination, diagnostic testing, and medication management to minimize the need for further diagnostic testing or intervention	<ul> <li>Teaches more junior residents and medical students how to create an appropriate assessment and treatment plan for an inpatient ONMM consult, regardless of acuity</li> <li>Provides exemplary behaviors and instruction to other learners, such as fellow residents and medical students</li> </ul>
Role models the complete osteopathic structural examination and diagnoses somatic dysfunction in patient care	Presents at local or regional conferences and/or poster presentations
Role models the integration of osteopathic principles to optimize patient health	<ul> <li>Engages and encourages fellow resident participation with local and state osteopathic associations</li> <li>Compiles references to teach self-motivated and self- directed personal development for more junior residents</li> </ul>
Assessment Models or Tools	Direct observation     Multisource feedback

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	Review of video monitoring     Simulation lab, Standardized patients
Curriculum Mapping	
Notes or Resources	Nelson KE, Glonek T (eds). Somatic Dysfunction in Osteopathic Family Medicine. 2nd ed. Philadelphia, PA: Wolters Kluwer Health; 2015. ISBN:978-1451103052.

Patient Care 2: Osteopathic Manipulative Treatment (OMT) (Direct)  Overall Intent: To become proficient in direct treatment modalities and appropriately/effectively/safely incorporate these modalities into patient care	
Milestones	Examples
<b>Level 1</b> Performs direct OMT for identified somatic dysfunction, with direct supervision and guidance	Correctly sets up cervical high-velocity low-amplitude (HVLA) technique with direct supervision, identifying and maneuvering a patient into a position that locks out the appropriate restrictive barriers to achieve a desired treatment response
<b>Level 2</b> Performs direct OMT for identified somatic dysfunction, with indirect supervision	Discusses OMT plan with attending and then performs muscle energy to a group somatic dysfunction at T4-6RrSI, appropriately achieving a therapeutic change
<b>Level 3</b> Independently and effectively performs direct OMT for identified somatic dysfunction in routine patient presentations	<ul> <li>Independently performs a physical exam and osteopathic structural exam; recognizes red- flag symptoms that require urgent imaging/specialist consultation instead of OMT</li> <li>Independently performs lumbar HVLA technique to a patient with acute low back pain without red-flag symptoms, appropriately achieving a therapeutic change</li> </ul>
<b>Level 4</b> Independently and effectively performs direct OMT for identified somatic dysfunction in complex patient presentations	<ul> <li>Independently performs muscle energy, making appropriate modifications in relation to patient physical restrictions (e.g., pregnancy, body habitus, wheelchair bound)</li> </ul>
<b>Level 5</b> Mentors others to become competent in performing direct OMT for identified somatic dysfunction in complex patient presentations	<ul> <li>Teaches junior residents and medical students appropriate localization of HVLA thrust</li> <li>Demonstrates how to adapt Spencer's technique for a patient who cannot lay in a lateral recumbent position</li> </ul>
Assessment Models or Tools	Direct observation     Multisource feedback     Review of video monitoring     Simulation lab, Standardized patients
Curriculum Mapping	•
Notes or Resources	<ul> <li>Ehrenfeuchter WC. Muscle energy. In: Seffinger MA. Foundations of Osteopathic Medicine: Philosophy, Science, Clinical Applications, and Research. 4th ed. Philadelphia, PA: Wolters Kluwer; 2018. ISBN:978-1496368324.</li> <li>Essig-Beatty DR, Li TS, Steele KM, et al. The Pocket Manual of OMT: Osteopathic Manipulative Treatment for Physicians. Philadelphia, PA: Wolters Kluwer; 2010. ISBN:978-1608316571.</li> <li>Ettinger H. Acutely ill or hospitalized patients; osteopathic consideration and approaches using OMT. In: Seffinger MA. Foundations of Osteopathic Medicine: Philosophy, Science, Clinical Applications, and Research. 4th ed. Philadelphia, PA: Wolters Kluwer; 2018. ISBN:978-1496368324.</li> </ul>

<ul> <li>Giusti RE, Hruby RJ. High-velocity low-amplitude (HVLA) thrust. In: Seffinger MA.         Foundations of Osteopathic Medicine: Philosophy, Science, Clinical Applications, and         Research. 4th ed. Philadelphia, PA: Wolters Kluwer; 2018. ISBN:978-1496368324.</li> <li>Nicholas AS, Nicholas EA. Atlas of Osteopathic Techniques. 3rd ed. Philadelphia, PA:         Wolters Kluwer; 2016. ISBN:978-1451193411.</li> </ul>
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Patient Care 3: Osteopathic Manipulative Treatment (OMT) (Indirect)	
<b>Overall Intent:</b> To become proficient in multiple indirect treatment modalities and appropriately/effectively incorporate these modalities into patient care	
Milestones	Examples
<b>Level 1</b> Performs indirect OMT for identified somatic dysfunction, with direct supervision and guidance	Performs indirect myofascial release on a patient with an acute lumbar muscle strain with the ONMM attending providing direct oversight
<b>Level 2</b> Performs indirect OMT for identified somatic dysfunction, with indirect supervision	Performs strain counterstrain to a posterior C3 tender point on the right; after treatment, contacts the attending by phone to describe the changes made with the treatment
<b>Level 3</b> Independently and effectively performs indirect OMT for identified somatic dysfunction in routine patient presentations	Independently performs strain counterstrain on a patient presenting with an acute left ankle sprain with an anterior talus tender point
<b>Level 4</b> Independently and effectively performs indirect OMT for identified somatic dysfunction in complex patient presentations	<ul> <li>Independently performs a cranial treatment for left lateral strain on a patient who had a motor vehicle accident one week before and now suffers headaches (patient also has a left humerus fracture, left clavicle fracture, and a chest tube on right lung)</li> </ul>
<b>Level 5</b> Mentors others to become competent in performing indirect OMT for identified somatic dysfunction in complex patient presentations	<ul> <li>Develops an independent curriculum to teach the interdisciplinary team how to treat intensive care unit (ICU) patients with indirect techniques</li> <li>Demonstrates indirect thoracic inlet myofascial release (and explains Osteopathic Principles and Practices) to emergency department residents treating an elderly patient with pneumonia</li> </ul>
Assessment Models or Tools	<ul> <li>Direct observation</li> <li>Multisource feedback</li> <li>Review of electronic health records (EHR)</li> <li>Simulation lab</li> </ul>
Curriculum Mapping	
Notes or Resources	<ul> <li>Essig-Beatty DR, Li TS, Steele KM, et al. <i>The Pocket Manual of OMT: Osteopathic Manipulative Treatment for Physicians</i>. Philadelphia, PA: Wolters Kluwer; 2010. ISBN:978-1608316571.</li> <li>Glover JC, Rennie PR. Strain/counterstrain. In: Seffinger MA. <i>Foundations of Osteopathic Medicine: Philosophy, Science, Clinical Applications, and Research</i>. 4th ed. Philadelphia, PA: Wolters Kluwer; 2018. ISBN:978-1496368324.</li> <li>King HH. Osteopathic cranial manipulative medicine. In: Seffinger MA. <i>Foundations of Osteopathic Medicine: Philosophy, Science, Clinical Applications, and Research</i>. 4th ed. Philadelphia, PA: Wolters Kluwer; 2018. ISBN:978-1496368324.</li> <li>Kuchera ML, Heinking K, Brolinson PG, Goodwin TA. Osteopathic approach to diagnosing and treating somatic dysfunction in the extremities. In: Seffinger MA. <i>Foundations of</i></li> </ul>

Osteopathic Medicine: Philosophy, Science, Clinical Applications, and Research. 4th ed.
Philadelphia, PA: Wolters Kluwer; 2018. ISBN:978-1496368324.
• Nicholas AS, Nicholas EA. <i>Atlas of Osteopathic Techniques</i> . 3rd ed. Philadelphia, PA:
Wolters Kluwer; 2016. ISBN:978-1451193411.

Patient Care 4: Diagnostic Screening, Testing, and Interpreting  Overall Intent: Appropriately order, interpret, and report diagnostic screening and testing, using current evidence-based guidelines	
Milestones	Examples
Level 1 Explains the rationale, risks, and benefits for common diagnostic testing	• Knows the indications of ordering a lumbar x-ray in a patient with acute low back pain
Interprets results of common diagnostic tests	Identifies bony anatomy and recognizes pathology on plain-film imaging of the lumbar spine
<b>Level 2</b> Explains the rationale, risks, and benefits for complex diagnostic testing	Knows the indication of ordering a magnetic resonance (MR) arthrogram in a patient with a suspected hip labral tear
Interprets complex diagnostic data	Reviews and interprets results from diagnostic work-up for clinically suspected rheumatoid arthritis
<b>Level 3</b> Integrates value and test characteristics of various diagnostic strategies in patients with common diseases	Understands when to order magnetic resonance imaging (MRI) of the lumbar spine in a patient with radicular symptoms who has failed other conservative measures
Integrates complex diagnostic data accurately to reach high-probability diagnoses	Reviews results of lab work for patient presenting with multiple joint pain and takes appropriate next steps in management and treatment of the disease process
Level 4 Integrates value and test characteristics of various diagnostic strategies in patients with comorbid conditions or multisystem disease	<ul> <li>Orders an MRI with and without contrast for a patient who is status post-lumbar fusion five years ago presenting with low back pain with lower extremity radiculopathy but is recalcitrant to non-steroidal anti-inflammatory drugs (NSAIDs) and physical therapy,</li> </ul>
Anticipates and accounts for limitations when interpreting diagnostic data	Considers alternatives to an MRI with contrast in a patient with chronic renal failure; understands that alternative imaging can limit the evaluation
<b>Level 5</b> Demonstrates a nuanced understanding of emerging diagnostic tests and procedures	Leads group discussion on emerging diagnostic tests of cervical instability
Assessment Models or Tools	<ul> <li>Direct observation</li> <li>Educational presentations</li> <li>Office visit documentation</li> <li>Written and mock oral exams</li> </ul>
Curriculum Mapping	
Notes or Resources	<ul> <li>American College of Radiology (ACR). Appropriateness Criteria.</li> <li><a href="https://www.acr.org/Clinical-Resources/ACR-Appropriateness-Criteria">https://www.acr.org/Clinical-Resources/ACR-Appropriateness-Criteria</a>. 2021.</li> <li>Choosing Wisely. <a href="https://www.choosingwisely.org/">https://www.choosingwisely.org/</a>. 2021.</li> </ul>

U.S. National Library of Medicine. PubMed Tutorial.
https://www.nlm.nih.gov/bsd/disted/pubmedtutorial/cover.html. 2021.

Patient Care 5: Management of Procedural Care (e.g., Trigger Point Injection, Joint Aspiration, and Injection)	
<b>Overall Intent:</b> To understand the appropriateness of and gain proficiency in an osteopathic neuromusculoskeletal medicine physician's procedural scope of practice	
Milestones	Examples
Level 1 Identifies the procedures that osteopathic neuromusculoskeletal medicine physicians perform  Recognizes osteopathic neuromusculoskeletal medicine physicians' role in referring patients for	<ul> <li>Discusses treatment options for a patient's identified myofascial trigger point</li> <li>Informs the patient of the treatment options for knee joint pain</li> <li>Informs the patient of treatment options for knee joint pain, including a referral to another specialist</li> </ul>
appropriate procedural care  Level 2 Identifies patients for whom a procedure is indicated and who is equipped to perform it	Identifies a myofascial trigger point in a physical exam and discusses with the attending why the patient is a candidate for this treatment approach
Counsels patients about expectations for common procedures performed by osteopathic neuromusculoskeletal medicine physicians and consultants	Obtains informed consent prior to performing a trigger point injection
Level 3 Demonstrates confidence and motor skills while performing procedures, including addressing complications	Properly and effectively performs a trigger point injection into the right proximal trapezius muscle; ensures there are active breath sounds throughout
Performs independent risk and appropriateness assessment based on patient-centered priorities for procedures performed by consultants	Identifies a knee joint that would benefit from a cortico-steroid injection, discusses the treatment's risks and benefits with the patient, and performs the injection under direct supervision of the attending
<b>Level 4</b> Identifies and acquires the skills to independently perform procedures in the current practice environment	Performs a trigger point injection on a right levator scapulae trigger point with indirect supervision from the attending; ensures there are active breath sounds throughout
Collaborates with procedural colleagues to match patients with appropriate procedures, including declining support for procedures that are not in the patient's best interest	Discusses with the sports medicine attending the outcomes of a steroid injection in a shared diabetic patient with lateral epicondylitis
Level 5 Identifies procedures needed in future practice and pursues supplemental training to independently perform	Determines the community does not have adequate ultrasound-guided musculoskeletal services and asks to learn the procedure
Assessment Models or Tools	Direct observation

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	<ul> <li>Multisource feedback</li> <li>Office visit documentation</li> <li>Simulation</li> </ul>
Curriculum Mapping	
Notes or Resources	<ul> <li>Anderson BC. Office Orthopedics for Primary Care: Treatment. 3rd ed. Saunders; 2006.         ISBN:978-1416022060.</li> <li>US Preventive Services Task Force. <a href="https://www.uspreventiveservicestaskforce.org/">https://www.uspreventiveservicestaskforce.org/</a>.         2021.</li> </ul>

Medical Knowledge 1: Applied Foundational Sciences  Overall Intent: To harmonize medical sciences with osteopathic principles to effectively establish a more specific and personalized osteopathic treatment	
Milestones	Examples
<b>Level 1</b> Explains the scientific knowledge (e.g., physiologic, pathologic, socioeconomic, and behavioral) for normal function and common conditions	<ul> <li>Explains the history, symptoms, findings, and common causes of low back pain</li> <li>Identifies normal gait pattern as well as gross deviations</li> </ul>
Level 2 Explains the scientific knowledge for complex conditions	<ul> <li>Explains the history, symptoms, findings, and potential causes of an acute chronic obstructive pulmonary disease (COPD) exacerbation and the physiology behind the acute flare mechanism</li> </ul>
Level 3 Integrates scientific knowledge into an osteopathic treatment plan while respecting the patient's comorbid conditions	<ul> <li>Creates an osteopathic treatment plan for a patient presenting with chronic prostatitis, incorporating the pathophysiology of the patient's history of benign prostatic hypertrophy and diabetes mellitus type 2, noting how it may contribute to the underlying condition</li> <li>Creates an osteopathic treatment plan for a patient with lumbar radiculopathy and history of uncontrolled diabetes mellitus</li> </ul>
Level 4 Integrates scientific knowledge into an osteopathic treatment plan while respecting the patient's complex comorbid conditions	<ul> <li>Integrates the physiologic and behavioral components into the osteopathic treatment plan for a patient with congestive heart failure, stage three chronic kidney disease, and atrial fibrillation</li> <li>Establishes an osteopathic treatment plan for an elderly patient admitted for small-bowel obstruction with history of multiple abdominal surgeries and current methadone use</li> </ul>
<b>Level 5</b> Demonstrates a nuanced understanding of the scientific knowledge related to uncommon, atypical, or complex conditions	Presents the pathophysiology, including behavioral and socioeconomic components, that can affect a patient with dermatomyositis; creates a detailed osteopathic treatment plan to improve the patient's quality of life
Assessment Models or Tools	<ul> <li>Direct observation</li> <li>Mock written or oral exam</li> <li>Reflection</li> <li>Review of EHR</li> <li>Simulation</li> </ul>
Curriculum Mapping	
Notes or Resources	D'Alonzo GE Jr, Krachman SL, Foley W, Ettlinger H, Carreiro JE. Osteopathic considerations in pulmonology. In: Seffinger MA. Foundations of Osteopathic Medicine: Philosophy, Science, Clinical Applications, and Research. 4th ed. Philadelphia, PA: Wolters Kluwer; 2018. ISBN:978-1496368324.

- Finley JM, Wieting JM, Foley W, Heinking KP, Lipton J, Valashinas BA. Osteopathic considerations in rheumatology. In: Seffinger MA. Foundations of Osteopathic Medicine: Philosophy, Science, Clinical Applications, and Research. 4th ed. Philadelphia, PA: Wolters Kluwer; 2018. ISBN:978-1496368324.
- Rogers FJ. Osteopathic consideration in cardiovascular medicine. In: Seffinger MA. Foundations of Osteopathic Medicine: Philosophy, Science, Clinical Applications, and Research. 4th ed. Philadelphia, PA: Wolters Kluwer; 2018. ISBN:978-1496368324.

Milestones	Examples
<b>Level 1</b> Describes the basic interrelationship of structure and function through osteopathic structural findings	When a patient presents with pneumonia in the hospital, recalls relevant anatomy and physiology to explain presenting complaints and why the physician would look for somatic dysfunction in the thoracic spine
Forms an osteopathic treatment plan based on the patient's history and physical exam findings, with guidance	Discusses the rationale for using indirect techniques in a patient recently involved in a motor vehicle collision, with guidance
Level 2 Consistently describes the interrelationship of structure and function through osteopathic structural findings	Discusses the interconnectedness of back pain and somatic dysfunctions in a patient with scoliosis
Forms an appropriate osteopathic treatment plan based on the patient's history and physical exam findings	Performs OMT that rationally addresses the somatic dysfunctions found in the cervical and thoracic spine during the exam of a patient who presents with migraine headaches
<b>Level 3</b> Consistently describes the complex interrelationship of structure and function through osteopathic structural findings as relates to the patient's systemic disease	Charts thought process connecting a patient's Crohn's disease and low back pain to osteopathic findings using five models of care
Consistently forms an appropriate osteopathic treatment plan based on the patient's complex history and physical exam findings	Documents treatment plans for a patient with a leg-length discrepancy presenting with back pain that include OMT, physical therapy (PT), orthotics/lift therapy, medical management, and exercise
<b>Level 4</b> Demonstrates knowledge of the effects of health and illness on the whole patient – body, mind, and spirit	<ul> <li>Provides rational treatment plans that include well-being and prevention addressing mind, body, and spirit for a patient with mixed-type headaches whose symptoms are worsened by work and personal issues</li> </ul>
Develops a long-range treatment plan to support the health and well-being of the patient	Provides exercises to develop mind-body connection for patients with a desire to reduce stress levels
<b>Level 5</b> Teaches the osteopathic tenets to the multidisciplinary team	Provides grand rounds discussion incorporating osteopathic tenets
Is a leader in the development and dissemination of osteopathic knowledge	Presents research findings at a regional or national meeting

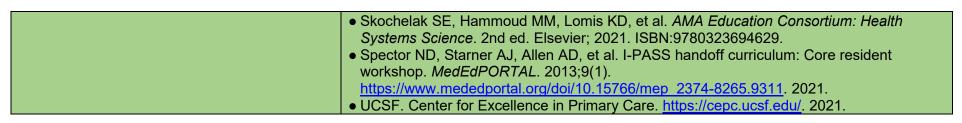
Assessment Models or Tools	Direct observation     Signal at its analysis are a second at its analysis and a second at its analysis are a second at its analysis are a second at its analysis and a second at its analysis are a second at its analysis are a second at its analysis and a second at its analysis are a second at its analysis are a second at its analysis and a second at its analysis are a second at its analysis are a second at its analysis and a second at its analysis are a second at its analysis and a second at its analysis are a second at its analysis and a second at its analysis are a second at its analysis and a second at a second at its analysis and a second at a second
Curriculum Mapping	● Simulation
Notes or Resources	<ul> <li>Fraix MP, Neiman DC, Dreibelbis R, Giusti RE. Energy balance: nutrition, exercise and the metabolic model. In: Seffinger MA. Foundations of Osteopathic Medicine: Philosophy, Science, Clinical Applications, and Research. 4th ed. Philadelphia, PA: Wolters Kluwer; 2018. ISBN:978-1496368324.</li> <li>Kuchera ML, Ettlinger H, Seffinger MA. Assessing for viscerosomatic reflexes and somatosomatic reflexes, jones tender points, trigger points, and chapman reflexes. In: Seffinger MA. Foundations of Osteopathic Medicine: Philosophy, Science, Clinical Applications, and Research. 4th ed. Philadelphia, PA: Wolters Kluwer; 2018. ISBN:978-1496368324.</li> <li>Saeed SA. Cunningham K, Bloch RM. Depression and anxiety disorders: Benefits of exercise, yoga, and meditation. Am Fam Physician. 2019;99(10):620-627. https://www.aafp.org/afp/2019/0515/p620.html. 2021.</li> <li>Seffinger MA, Amirianfar E, Kuchera ML, Jerome J. The five models of osteopathic patient care. In: Seffinger MA. Foundations of Osteopathic Medicine: Philosophy, Science, Clinical Applications, and Research. 4th ed. Philadelphia, PA: Wolters Kluwer; 2018. ISBN:978-1496368324.</li> </ul>

families, and health care professionals; to cond	uct a QI project
Milestones	Examples
<b>Level 1</b> Demonstrates knowledge of common patient safety events	Lists patient misidentification or medication errors as common patient safety events
Demonstrates knowledge of how to report patient safety events	Describes how to report errors in your environment
Demonstrates knowledge of basic quality improvement methodologies and metrics	Describes a fishbone tool
<b>Level 2</b> Identifies system factors that lead to patient safety events	Identifies that a lack of hand sanitizer dispenser at each clinical exam room can lead to increased infection rates
Reports patient safety events through institutional reporting systems (simulated or actual)	Reports a lack of hand sanitizer dispenser at each clinical exam room to the medical director
Describes local quality improvement initiatives (e.g., community vaccination rate, infection rate, smoking cessation)	Summarizes protocols resulting in decreased spread of hospital acquired <i>C. diff</i>
<b>Level 3</b> Participates in analysis of patient safety events (simulated or actual)	Prepares for morbidity and mortality presentations
Participates in disclosure of patient safety events to patients and families (simulated or actual)	Through simulation, communicates with patients/families about incorrect imaging based on the chief complaint
Participates in local quality improvement initiatives	Participates in project identifying the root cause of rooming inefficiency
Level 4 Conducts analysis of patient safety events and offers error prevention strategies (simulated or actual)	Collaborates with a team to conduct the analysis of incorrect imaging errors; can effectively communicate with patients/families about those events
Discloses patient safety events to patients and families (simulated or actual)	

Demonstrates skills required to identify, develop, implement, and analyze a quality improvement project	Participates in the completion of a QI project to reduce opiate prescriptions for acute low back pain, including assessing the problem, articulating a broad goal, developing a SMART (Specific, Measurable, Attainable, Relevant, Time-bound) objective plan, and monitoring progress and challenges
<b>Level 5</b> Actively engages teams and processes to modify systems to prevent patient safety events	Assumes a leadership role at the departmental or institutional level for patient safety
Role models or mentors others in the disclosure of patient safety events	Conducts a simulation for disclosing patient safety events
Designs, implements, and assesses quality improvement initiatives at the institutional or community level	Initiates and completes a QI project to reduce opiate prescriptions for acute low back pain
Assessment Models or Tools	Direct observation
	E-module multiple choice tests
	Medical record (chart) audit
	Portfolio review
	Reflection
	Simulation
Curriculum Mapping	•
Notes or Resources	<ul> <li>Agency for Healthcare Research and Quality (AHRQ). Quality and Patient Safety.         <a href="https://www.ahrq.gov/professionals/quality-patient-safety/index.html">https://www.ahrq.gov/professionals/quality-patient-safety/index.html</a>. 2021.</li> <li>Agency for Healthcare Research and Quality. TeamSTEPPS.         <a href="https://www.ahrq.gov/teamstepps/index.html">https://www.ahrq.gov/teamstepps/index.html</a>. 2021.</li> <li>American Academy of Family Physicians. Basics of Quality Improvement.         <a href="https://www.aafp.org/practice-management/improvement/basics.html">https://www.aafp.org/practice-management/improvement/basics.html</a>. 2021.</li> <li>American Board of Family Medicine. Performance Improvement.         <a href="https://www.theabfm.org/continue-certification/performance-improvement">https://www.theabfm.org/continue-certification/performance-improvement</a>. 2021.</li> <li>Institute for Healthcare Improvement. <a href="https://www.ihi.org/Pages/default.aspx">https://www.ihi.org/Pages/default.aspx</a>. 2021.</li> <li>The Joint Commission. <a href="https://www.jointcommission.org/">https://www.jointcommission.org/</a>. 2021.</li> <li>World Health Organization. Patient Safety. <a href="https://www.who.int/patientsafety/en/">https://www.who.int/patientsafety/en/</a>. 2021.</li> </ul>

Systems-Based Practice 2: System Navigation for Patient-Centered Care  Overall Intent: To effectively navigate the health care system, including the interdisciplinary team and other care providers; to adapt care to	
a specific patient population to ensure high-quality patient outcomes	
Milestones	<b>Examples</b>
<b>Level 1</b> Demonstrates knowledge of care coordination	• For a patient with low back pain with left-sided radiculopathy, identifies the neurologist, primary care physician, and physical therapist as team
Identifies key elements for safe and effective transitions of care and hand-offs	Lists the essential components of a structured tool such as I-PASS for sign-out and care transition and hand-offs
Demonstrates knowledge of population and community health needs and disparities	• Identifies that patients in rural areas may have different needs than urban patients
<b>Level 2</b> Coordinates care of patients in routine clinical situations effectively using the roles of the interprofessional team members	Coordinates care with inpatient obstetrics department to facilitate follow-up at the ONMM clinic for new mothers with low back pain
Performs safe and effective transitions of care/hand-offs in routine clinical situations	Routinely uses I-PASS for a stable patient during sign-out
Identifies specific population and community health needs and inequities in the local population	Identifies that limited transportation options may hinder rural patients from attending multiple medical appointments
Level 3 Coordinates care of patients in complex clinical situations effectively using the roles of interprofessional team members	<ul> <li>Works with the social worker to create a care plan for a homeless patient that will ensure follow-up at the ONMM continuity of care clinic after discharge from the hospital</li> <li>Coordinates care with the urgent care or emergency department for patients presenting to the ONMM continuity of care clinic with urgent medical issues</li> </ul>
Performs safe and effective transitions of care/hand-offs in complex clinical situations	Routinely uses I-PASS when transferring a patient to the intensive care unit
Uses local resources effectively to meet the needs of a patient population and community	Refers patients to a local pharmacy that provides a sliding fee scale option and prints pharmacy coupons for patients in need
Level 4 Role models effective coordination of patient-centered care among different disciplines and specialties	During inpatient rotations, leads team members in approaching consultants to review cases/recommendations and arranges interdisciplinary ONMM rounds for the team

Role models and advocates for safe and effective transitions of care/hand-offs within and across health care delivery systems	<ul> <li>Prior to going on vacation, proactively informs the covering resident about a plan of care for a pregnant patient who has elevated blood pressure at 36 weeks, has outpatient labs pending, and is having rib and low back pain managed by an ONMM consult service</li> <li>Oversees sign-outs among other residents and reinforces use of I-PASS</li> </ul>
Participates in changing and adapting practice to provide for the needs of specific populations	Assists to design protocols for prescribing an exercise prescription to patients with opioid use disorders
Level 5 Analyzes the process of care coordination and leads in the design and implementation of improvements	Leads a program to arrange for ONMM team home visits that includes OMM for elderly patients who have chronic pain
Improves quality of transitions of care within and across health care delivery systems to optimize patient outcomes	Develops a protocol to improve transitions to long term care facilities
Leads innovations and advocates for populations and communities with health care inequities	Leads development of ONMM clinic with diagnostic services for a rural clinic site
Assessment Models or Tools	Direct observation
	Medical record (chart) audit
	Multisource feedback     Ohio discontinuo de liinis la compile di anno delle
	Objective structured clinical examination     Portfolio review
	Quality metrics and goals mined from EHRs
Curriculum Mapping	• Quality metrics and goals milited from Er ins
Notes or Resources	American Academy of Family Physicians. The EveryONE Project TOOLKIT.
	https://www.aafp.org/patient-care/social-determinants-of-health/everyone-project/eop-
	tools.html. 2021.
	Centers for Disease Control and Prevention (CDC). Population Health Training.      https://www.ada.gov/papha.elthtraining/whatia.html 2024
	https://www.cdc.gov/pophealthtraining/whatis.html. 2021.  Institute for Healthcare Improvement. IHI Open School.
	http://www.ihi.org/education/IHIOpenSchool/courses/Pages/default.aspx. 2021.
	Phillips RL Jr, Pugno PA, Saultz JW, et al. Health is primary: Family medicine for
	America's health. <i>Ann Fam Med</i> . 2014;12(Suppl 1):S1-S12.
	https://www.annfammed.org/content/12/Suppl 1/S1 2021



Milestones	Examples
Level 1 Identifies key components of the complex health care system (e.g., hospital, skilled nursing facility, finance, personnel, technology)	Demonstrates understanding of the credentialing process, daily work, and financial benefits of a hospital ONMM service during a didactics session
States factors impacting the costs of osteopathic neuromusculoskeletal medicine care	Explains to patients how team-based care with a physical therapist and an ONMM specialist improves patient outcomes for backpain at a reduced cost to the healthcare system
Identifies basic knowledge domains for effective transition to practice (e.g., information technology, legal, billing and coding, financial, personnel)	Demonstrates basic knowledge of the Modifer-25 for coding
Level 2 Describes how components of a complex health care system are interrelated, and how this impacts patient care	Discusses with a patient how going to the emergency department for chronic low back pain is inefficient and costs the health care system more without improving care
Documents osteopathic neuromusculoskeletal medicine detail to facilitate accurate billing and reimbursement	Achieves 90% on a chart coding audit
Demonstrates use of information technology required for medical practice (e.g., electronic health record, documentation required for billing and coding)	Demonstrates that accurate written communication about patient surgical history in the EHR can increase patient safety and improve outcomes in a patient who has failed back syndrome
Level 3 Discusses how individual practice affects the broader system (e.g., length of stay, readmission rates, clinical efficiency)	Ensures that a patient who needs a referral to a neurosurgeon obtains access to care in the appropriate time frame
Explains the impact of documentation on billing and reimbursement	Discusses risks, benefits, and costs of overuse of MRI imaging for acute low back pain
	Understands the core elements of employment contract negotiation

Describes core administrative knowledge needed for transition to practice (e.g., contract negotiations, malpractice insurance, government regulation, compliance)	Accurately codes for clinic visits and can justify reasoning for how treatment for a complex new patient presenting with headaches was coded
<b>Level 4</b> Manages various components of the complex health care system to provide efficient and effective patient care and transition of care	Ensures proper documentation to gain approval for a shoulder MRI for a patient with a suspected rotator-cuff tear
Practices and advocates for cost-effective patient care	Works collaboratively to improve patient assistance resources for a patient with a recent amputation and limited resources
Analyzes individual practice patterns and prepares for professional requirements to enter practice	Proactively compiles procedure logs in anticipation of applying for hospital privileges
<b>Level 5</b> Advocates for or leads systems change that enhances high-value, efficient, and effective patient care	Works with community or professional organizations to advance the understanding of cost-effective care delivered by osteopathic physicians
Engages in external activities related to advocacy for cost-effective care	Improves informed consent process for non-English-speaking patients requiring interpreter services
Role models effective practice and practice management	Shares experiences of QI projects with other physicians
Assessment Models or Tools	<ul> <li>Direct observation</li> <li>Knowledge based content testing</li> <li>Medical record (chart) audit</li> <li>Multisource feedback</li> <li>QI metrics/practice data</li> </ul>
Curriculum Mapping	
Notes or Resources	<ul> <li>Agency for Healthcare Research and Quality (AHRQ). Major Physician Measurement Sets. <a href="https://www.ahrq.gov/professionals/quality-patient-safety/talkingquality/create/physician/measurementsets.html">https://www.ahrq.gov/professionals/quality-patient-safety/talkingquality/create/physician/challenges.html</a>. 2021.</li> </ul>

- Center for Medicare and Medicaid Services. MACRA.
   <a href="https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Value-Based-Programs/MACRA-MIPS-and-APMs/MACRA-MIPS-and-APMs.html">https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Value-Based-Programs/MACRA-MIPS-and-APMs/MACRA-MIPS-and-APMs.html</a>. 2021.
- Center for Medicare and Medicaid Services. Merit-based Incentive Payment System (MIPS) Overview. <a href="https://qpp.cms.gov/mips/overview">https://qpp.cms.gov/mips/overview</a>. 2021.
- The Commonwealth Fund. Health System Data Center.

  <a href="http://datacenter.commonwealthfund.org/?ga=2.110888517.1505146611.1495417431-1811932185.1495417431#ind=1/sc=1.2021">http://datacenter.commonwealthfund.org/?ga=2.110888517.1505146611.1495417431-1811932185.1495417431#ind=1/sc=1.2021</a>.
- Dzau VJ, McClellan MB, McGinnis JM, et al. Vital directions for health and health care: Priorities from a National Academy of Medicine initiative. *JAMA*. 2017;317(14):1461-1470. <a href="https://nam.edu/vital-directions-for-health-health-care-priorities-from-a-national-academy-of-medicine-initiative/">https://nam.edu/vital-directions-for-health-health-care-priorities-from-a-national-academy-of-medicine-initiative/</a>. 2021.
- Institute for Healthcare Improvement. IHI Open School. http://app.ihi.org/lmsspa/#/6cb1c614-884b-43ef-9abd-d90849f183d4. 2021.
- The Kaiser Family Foundation. Topic: Health Reform. <a href="https://www.kff.org/health-reform/">https://www.kff.org/health-reform/</a>. 2021.

Practice-Based Learning and Improvement 1: Evidence-Based and Informed Practice  Overall Intent: To incorporate evidence and patient values into clinical practice	
Milestones	Examples
Level 1 Demonstrates how to access, categorize, and analyze clinical evidence  Understands how to perform a focused literature	Identifies evidence-based guidelines for osteoporosis screening at US Preventive Services Task Force website
review	Identifies evidence-based guidelines for knee osteoarthritis
<b>Level 2</b> Articulates clinical questions and elicits patient preferences and values to guide evidence-based care	<ul> <li>In a patient with a rotator cuff injury, identifies and discusses potential evidence-based treatment options, and solicits patient perspective</li> <li>Explains why an x-ray should not be performed based on an updated literature review</li> </ul>
Locates and evaluates evidence-based resources to develop an OMT plan	Discusses literature with the attending in support of physiologic models on which the OMT plan is based
Level 3 Locates and applies the best available evidence, integrated with patient preference, to the care of complex patients  Critically evaluates and develops the OMT plan,	<ul> <li>Obtains, discusses, and applies evidence for the treatment of a patient with rotator cuff tendinitis, diabetes, diabetes mellitus-associated renal disease, and hypertension</li> <li>Understands and appropriately uses available clinical practice guidelines in making patient care decisions while eliciting patient preferences</li> </ul>
integrating evidence-based osteopathic care, to the care of complex patients	
Level 4 Critically appraises and applies evidence even in the face of uncertainty and conflicting evidence to guide osteopathic care, tailored to the individual patient and that patient's neuromusculoskeletal complaints	Accesses primary literature to identify alternative treatments to opioids for musculoskeletal pain
Level 5 Coaches others to critically appraise and apply evidence for complex patients	Teaches best practices for treating acute radiculopathies in a patient with diabetes mellitus and coronary artery disease
Collaboratively researches, develops, and disseminates evidence-based decision-making processes to promote best practices in osteopathic neuromusculoskeletal medicine	<ul> <li>As part of a team, develops a continuous quality improvement project assessing the risks and benefits of oral steroid use in the diabetic population for acute radiculopathies; shares findings at a regional event</li> </ul>
Assessment Models or Tools	<ul> <li>Direct observation</li> <li>Medical record (chart) audit</li> <li>Oral or written examination</li> </ul>

	Presentation evaluation
	Research portfolio
Curriculum Mapping	
Notes or Resources	Care That Fits. <a href="https://carethatfits.org/">https://carethatfits.org/</a> . 2021.
	• Fortin AH, Dwamena FC, Frankel RM, Smith RC. Smith's Patient Centered Interviewing:
	An Evidence-Based Method. 4th ed. New York, NY: McGraw Hill; 2018. ISBN:978-1259644627.
	• Guyatt G, Rennie D, Meade MO, Cook DJ. <i>Users' Guides to the Medical Literature</i> . 3rd ed. New York, NY: McGraw Hill; 2015. ISBN:978-0-07-179071-0.
	Institutional IRB guidelines
	Mayo Clinic. Mayo Clinic Shared Decision-Making National Resource Center.
	https://shareddecisions.mayoclinic.org/. 2021.
	U.S. National Library of Medicine. PubMed Tutorial.
	https://www.nlm.nih.gov/bsd/disted/pubmedtutorial/cover.html. 2021.
	• US Preventive Services Task Force. <a href="https://www.uspreventiveservicestaskforce.org/">https://www.uspreventiveservicestaskforce.org/</a> .
	2021.
	Various journal submission guidelines

Practice-Based Learning and Improvement 2: Reflective Practice and Commitment to Personal Growth  Overall Intent: To seek clinical performance information with the intent to improve care; reflect on all domains of practice, personal	
interactions, and behaviors, and their impact on colleagues and patients (reflective mindfulness); and develop clear objectives and goals for improvement in the form of a personal learning plan	
Milestones	Examples
<b>Level 1</b> Accepts responsibility for personal and professional development by establishing goals	Initiates personal goals and discuss them with an advisor
Identifies the factors that contribute to gap(s) between expectations and actual performance	Is aware that inadequate sleep may adversely impact performance
Acknowledges there are always opportunities for self-improvement in both character and skill level	Participates in didactic sessions and supplemental readings
Level 2 Demonstrates openness to performance data (feedback and other input) to improve on established goals	Is increasingly able to identify performance gaps in diagnostic skills and daily work using feedback and supplied performance metrics
Self-reflects and analyzes factors that contribute to gap(s) between expectations and actual performance	After working with an attending for a week, asks the attending about personal performance and opportunities for improvement
Designs and implements a learning plan, with prompting	Uses feedback to improve communication with peers/colleagues, staff members, and patients
Level 3 Intermittently seeks additional performance data with adaptability and humility	Takes input from peers/colleagues and supervisors to gain complex insight into personal strengths and areas to improve
Self-reflects, analyzes, and institutes behavioral change(s) to narrow the gap(s) between expectations and actual performance	<ul> <li>Self-reflects and is appreciative, of others' input</li> <li>Creates specific, measurable, reasonable, and achievable goals</li> </ul>
Independently creates and implements a learning plan	Finds and engages in activities targeted at practice areas for improvement
<b>Level 4</b> Consistently seeks performance data with adaptability and humility	<ul> <li>Habitually makes a learning plan for each rotation and seeks data on personal clinical performance (e.g., creates list of pediatric fractures to see on a pediatric orthopaedic rotation)</li> </ul>

Challenges assumptions and considers alternatives in narrowing the gap(s) between expectations and actual performance	Consistently identifies ongoing gaps and chooses areas for further development (e.g., looks at rotation curriculum to highlight learner deficits, identifies in-training exam categories where deficient to apply to learning plan)
Uses performance data to measure the effectiveness of the learning plan, and, when necessary, improves it	Consistently seeks out and engages in evidence-based activities targeted at areas for improvement identified by external sources and self-reflection
Level 5 Leads performance review processes	Actively discusses learning goals with supervisors and colleagues
Coaches others on reflective practice for both treatment plans and OMT skill level	Encourages other learners to consider how their behaviors affects the team
	• Serves as a role model for self-reflection and effective self-directed learning (e.g., shares
Facilitates the design and implementing learning	study guides, learning plans with future classes of residents)
plans for others	Demonstrates emotional intelligence and cognitive reframing skills
Assessment Models or Tools	<ul> <li>Direct observation of patient care, video monitoring</li> <li>Review/creation of learning plan</li> </ul>
	Self-reflection
	SWOT (Strengths, Weaknesses, Opportunities, Threats) analysis
Curriculum Mapping	•
Notes or Resources	<ul> <li>Burke AE, Benson B, Englander R, Carraccio C, Hicks PJ. Domain of competence: Practice-based learning and improvement. Acad Pediatr. 2014;14(2 Suppl):S38-S54. https://www.academicpedsjnl.net/article/S1876-2859(13)00333-1/fulltext. 2021.</li> <li>Grant A, McKimm J, Murphy F. Developing Reflective Practice: A Guide for Medical Students, Doctors and Teachers. Hoboken, NJ: Wiley-Blackwell; 2017. ISBN:978-1119064749.</li> <li>Hojat M, Veloski JJ, Gonnella JS. Measurement and correlates of physicians' lifelong learning. Acad Med. 2009;84(8):1066-74. https://insights.ovid.com/crossref?an=00001888-200908000-00021. 2021.</li> <li>Kraut A, Yarris LM, Sargeant J. Feedback: Cultivating a positive culture. J Grad Med Educ. 2015;7(2):262-264. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4512803/. 2021.</li> <li>Lockspeiser TM, Schmitter PA, Lane JL, Hanson JL, Rosenberg AA, Park YS. Assessing residents' written learning goals and goal writing skill: Validity evidence for the learning goal scoring rubric. Acad Med. 2013;88(10):1558-1563. https://insights.ovid.com/article/00001888-201310000-00039. 2021.</li> <li>RJug R, Jiang XS, Bean SM. Giving and receiving effective feedback: A review article and how-to guide. Arch Pathol Lab Med. 2019;143(2):244-250.</li> </ul>

https://meridian.allenpress.com/aplm/article/143/2/244/64770/Giving-and-Receiving- Effective-Feedback-A-Review. 2021.  • Winkel AF, Yingling S, Jones AA, Nicholson J. Reflection as a learning tool in graduate medical education: A systematic review. <i>JGME</i> . 2017;9(4):430-439.  https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5559236/. 2021.
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Professionalism 1: Professional Behavior and Ethical Principles  Overall Intent: To recognize and address lapses in ethical and professional behavior, demonstrates ethical and professional behaviors, and use appropriate resources for managing ethical and professional dilemmas		
Milestones	Examples	
Level 1 Describes professional behavior and potential triggers for personal lapses in professionalism	Understands that being tired can cause a lapse in professionalism     Identifies personal goals related to communicating with patients and families	
Takes responsibility for personal lapses in professionalism	Understands being late to sign-out has adverse effect on patient care and professional relationships	
Demonstrates knowledge of ethical principles	Articulates how the principle of "do no harm" applies to a patient who may not need a trigger point injection even though the training opportunity exists	
<b>Level 2</b> Demonstrates self-reflective behaviors and professionalism in routine situations	Responds appropriately to feedback from supervisors and colleagues related to starting shift on time	
Describes when and how to report professionalism lapses in oneself and others	<ul> <li>Notifies appropriate supervisor when a resident is routinely late to sign-out</li> <li>Notifies appropriate supervisor when the resident recognizes personal difficulty showing up on time to osteopathic neuromusculoskeletal medicine continuity clinic</li> </ul>	
Analyzes straightforward situations using ethical principles	Identifies and applies ethical principles involved in informed consent when unclear of all the risks	
<b>Level 3</b> Demonstrates professional behavior in complex or stressful situations	<ul> <li>Appropriately responds to a distraught family member following an unsuccessful resuscitation attempt of a relative</li> <li>Holds respectful and informative conversations regarding vaccination decision making with a vaccine-hesitant parent</li> </ul>	
Recognizes need to seek help in managing and resolving complex professionalism lapses	After noticing a colleague's inappropriate social media post, reviews social media use policies and seeks guidance	
Analyzes complex situations using ethical principles	Offers treatment options for a terminally ill patient, free of bias, while recognizing own limitations, and consistently honoring the patient's choice	
Level 4 Recognizes potential situations that may trigger professionalism lapses and intervenes to prevent lapses in oneself and others	<ul> <li>Actively considers the perspectives of others</li> <li>Models respect for patients and promotes the same from colleagues, when a patient has been waiting an excessively long time to be seen</li> <li>Recognizes and seeks to address any-self held biases that may alter patient interaction</li> </ul>	

Recognizes and uses appropriate resources for managing and resolving dilemmas as needed  Level 5 Mentors others in professional behavior  Identifies and addresses system-level factors that induce or exacerbate ethical problems and	<ul> <li>Respectfully approaches a resident who is late to sign-out about the importance of being on time</li> <li>Recognizes and uses ethics consults, literature, risk management, and/or legal counsel to resolve ethical dilemmas</li> <li>Helps a distraught patient speak with a hospital administrator regarding complaints</li> <li>Coaches others when their behavior fails to meet professional expectations and creates a performance improvement plan to prevent recurrence</li> <li>Engages stakeholders to address excessive wait times in the ONMM continuity of care clinic to decrease patient and provider frustrations that lead to unprofessional behavior</li> </ul>
professionalism lapses or impede their resolution	
Assessment Models or Tools	<ul> <li>Direct observation</li> <li>Multisource feedback</li> <li>Oral or written self-reflection (e.g., of a personal or observed lapse, ethical dilemma, or systems-level factors)</li> <li>Simulation</li> </ul>
Curriculum Mapping	
Notes or Resources	<ul> <li>ABIM Foundation. American Board of Internal Medicine. Medical professionalism in the new millennium: A physician charter. Annals of Internal Medicine. 2002;136(3):243-246. <a href="https://annals.org/aim/fullarticle/474090/medical-professionalism-new-millennium-physician-charter">https://annals.org/aim/fullarticle/474090/medical-professionalism-new-millennium-physician-charter</a>. 2021.</li> <li>American College of Osteopathic Family Physicians. <a href="https://www.acofp.org/acofpimis/">https://www.acofp.org/acofpimis/</a>. 2021.</li> <li>American Medical Association. Ethics. <a "="" href="https://www.ama-assn.org/delivering-care/ama-assn.org/delivering-car&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;ul&gt;     &lt;li&gt;code-medical-ethics. 2021.&lt;/li&gt;     &lt;li&gt;American Osteopathic Association. Physician Wellness. &lt;a href=" https:="" life-career="" osteopathic.org="" your-health-wellness="">https://osteopathic.org/life-career/your-health-wellness/</a>. 2021.</li> </ul>
	<ul> <li>Bynny RL, Paauw DS, Papadakis MA, Pfeil S. Medical Professionalism Best Practices:         Professionalism in the Modern Era. Aurora, CO: Alpha Omega Alpha Medical Society;         2017. Medical Professionalism Best Practices: Professionalism in the Modern Era.         Aurora, CO: Alpha Omega Alpha Medical Society; 2017.         <a href="http://alphaomegaalpha.org/pdfs/Monograph2018.pdf">http://alphaomegaalpha.org/pdfs/Monograph2018.pdf</a>. 2021.     </li> <li>Jefferson University. Jefferson Scale of Empathy.</li> <li><a href="https://www.jefferson.edu/university/skmc/research/research-medical-education/jefferson-scale-of-empathy.html">https://www.jefferson.edu/university/skmc/research/research-medical-education/jefferson-scale-of-empathy.html</a>. 2021.</li> </ul>

physicians. Rambam Maimonides Med J. 2015;6(2):e0011. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4422450/. 2021.
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Professionalism 2: Accountability/Conscientiousness  Overall Intent: To take responsibility for one's own actions and the impact of these on patients and other members of the health care team		
Overall litterit. To take responsibility for one's own actions and the impact of these on patients and other members of the health care team		
Milestones	<b>Examples</b>	
Level 1 Takes responsibility for failure to complete tasks and responsibilities, identifies potential contributing factors, and describes strategies for ensuring timely task completion in the future	<ul> <li>Responds promptly to reminders from program administrator to complete work hour logs</li> <li>Timely attendance at conferences</li> <li>Establishes timely goals for daily chart completion</li> </ul>	
Responds promptly to requests or reminders to	Completes end-of-rotation evaluations	
complete tasks and responsibilities	Completes chart documentation on the same day of the visit	
Level 2 Performs tasks and responsibilities in a	• Completes administrative tasks and documents safety modules, procedure review, and	
timely manner with appropriate attention to	licensing requirements by specified due date	
detail in routine situations	Routinely maintains up-to-date patient charts	
Recognizes situations that may impact one's own ability to complete tasks and responsibilities in a timely manner	• In preparation for being out of the office, arranges coverage for assigned clinical tasks on ONMM continuity of care clinic patients to ensure appropriate continuity of care	
<b>Level 3</b> Performs tasks and responsibilities in a timely manner with appropriate attention to detail in complex or stressful situations	<ul> <li>Notifies attending of multiple competing demands on-call, appropriately triages tasks, and asks for assistance from other residents or faculty members, as needed</li> <li>Efficiently manages transfer of a clinic patient to the emergency room with all relevant information passed on to emergency department staff members</li> </ul>	
Proactively implements strategies to ensure that the needs of patients, teams, and systems are met	<ul> <li>Proactively communicates with other specialists and team members to ensure a coordinated plan of action upon a transition of care</li> <li>Routinely performs chart review ahead of clinic to manage patient load and delegate tasks efficiently</li> </ul>	
<b>Level 4</b> Recognizes and addresses situations that may impact others' ability to complete tasks and responsibilities in a timely manner	<ul> <li>Takes responsibility for inadvertently omitting key patient information during sign-out and professionally discusses with the patient, family members, and interprofessional team</li> <li>Encourages others on the team to maintain updated sign-out sheets for their patients to allow for seamless transfer of information</li> </ul>	
<b>Level 5</b> Takes ownership of systemic processes and outcomes	<ul> <li>Sets up a meeting with the nurse manager to streamline patient discharges and leads team to find solutions to the problem</li> <li>Leads a quality improvement project aimed at identifying key factors in patient wait-time in clinic</li> </ul>	
Assessment Models or Tools	Compliance with deadlines and timelines	

## Osteopathic Neuromusculoskeletal Medicine Supplemental Guide

	<ul> <li>Direct observation</li> <li>Multisource feedback</li> <li>Resident learning portfolio</li> <li>Self-evaluations and reflective tools</li> <li>Simulation</li> </ul>
Curriculum Mapping	•
Notes or Resources	<ul> <li>American Society of Anesthesiologists. Standards and Guidelines.</li> <li><a href="https://www.asahq.org/standards-and-quidelines">https://www.asahq.org/standards-and-quidelines</a>. 2021.</li> <li>Code of conduct from fellow/resident institutional manual</li> <li>Expectations of residency program regarding accountability and professionalism</li> </ul>

Professionalism 3: Self-Awareness and Help-Seeking  Overall Intent: To examine resident insight and ability to monitor and address personal well-being and professional growth	
Milestones	Examples
Level 1 Recognizes status of personal and professional well-being, with assistance	Acknowledges their fatigue when pointed out by a colleague     Recognizes that asking for help is a sign of strength
Recognizes one's own limits in knowledge/skills, with assistance	<ul> <li>Accepts and exhibits positive responses to constructive feedback</li> <li>Receptive to attending physician guidance prior to seeing a patient</li> </ul>
<b>Level 2</b> Independently recognizes status of personal and professional well-being	<ul> <li>Identifies times when critical thinking is impaired due to fatigue</li> <li>Recognizes own symptoms of depression</li> </ul>
Independently recognizes limits in the knowledge/skills of oneself and the team and demonstrates appropriate help-seeking behaviors	<ul> <li>Actively seeks guidance when unsure about a clinical situation</li> <li>Schedules a review session with an attending when there are challenges understanding the management of low back pain in a patient with ankylosing spondylitis</li> </ul>
Level 3 Proposes a plan to optimize personal and professional well-being, with guidance	<ul> <li>After meeting with an advisor over concerns about increased stress in residency, develops a schedule for daily exercise</li> <li>Is receptive to faculty member suggestions to seek outside evaluation and/or treatment for a possible learning disability</li> <li>Coordinates with advisor to schedule blocked lactation times in ONMM continuity of care clinic and during the inpatient ONMM rotation</li> </ul>
Proposes a plan to remediate or improve limits in the knowledge/skills of oneself or the team, with guidance	Seeks assistance to develop a learning plan for an identified gap in prioritizing treatment needs of patients with multiple comorbid/musculoskeletal conditions
Level 4 Independently develops a plan to optimize personal and professional well-being	<ul> <li>After becoming a parent, adjusts time management to allow for completion of clinical work while attending to family needs</li> <li>Initiates contact with a financial planner to optimize loan repayment strategies</li> </ul>
Independently develops a plan to remediate or improve limits in the knowledge/skills of oneself or the team	<ul> <li>Develops workshop to address ability of team to manage shoulder dystocia</li> <li>After a missed diagnosis of a dislocated right shoulder on the inpatient service, develops a workshop to review best practice for the management of this condition at noon conference</li> </ul>
<b>Level 5</b> Addresses system barriers to maintain personal and professional well-being	Works as part of a system committee to develop and administer well-being survey

Mentors others to enhance knowledge/skills of oneself or the team	Leads an education committee to develop longitudinal workshops
Assessment Models or Tools	<ul> <li>Direct observation</li> <li>Group interview or discussions for team activities</li> <li>Individual interview</li> <li>Multisource feedback</li> <li>Online training modules</li> <li>Participation in well-being programs</li> <li>Personal learning plan</li> <li>Reflection</li> <li>Self SWOT</li> <li>Self-assessment</li> </ul>
Curriculum Mapping	•
Notes or Resources	<ul> <li>This subcompetency is not intended to evaluate a fellow's well-being. Rather, the intent is to ensure that each fellow has the fundamental knowledge of factors that affect well-being, the mechanisms by which those factors affect well-being, and available resources and tools to improve well-being.</li> <li>ACGME. Tools and Resources. <a href="https://www.acgme.org/What-We-Do/Initiatives/Physician-Well-Being/Resources">https://www.acgme.org/What-We-Do/Initiatives/Physician-Well-Being/Resources</a>. 2021.</li> <li>Case Network. CoreWellness Online. <a href="https://casenetwork.com/markets/corewellness/">https://casenetwork.com/markets/corewellness/</a>.</li> <li>Hicks PJ, Schumacher D, Guralnick S, Carraccio C, Burke AE. Domain of competence: personal and professional development. <a href="https://www.academicpedsjnl.net/article/S1876-2859(13)00332-X/fulltext">https://www.academicpedsjnl.net/article/S1876-2859(13)00332-X/fulltext</a>. 2021.</li> <li>Local resources, including Employee Assistance</li> <li>Pipas CF. <a href="https://www.press.uchicago.edu/ucp/books/book/distributed/D/bo44895080.html">https://www.press.uchicago.edu/ucp/books/book/distributed/D/bo44895080.html</a>. 2021.</li> </ul>

Interpersonal and Communication Skills 1: Patient- and Family-Centered Communication  Overall Intent: To deliberately use language and behaviors to form constructive relationships with patients, identify communication barriers	
including self-reflection on personal biases and minimize them in the doctor-patient relationships; organize and lead communication around shared decision making	
Milestones	Examples
Level 1 Uses language and non-verbal behavior to demonstrate respect and establish rapport while communicating one's own role within the health care system	Introduces self, other learners and faculty members; identifies patient and others in the room, and engages all parties in health care discussion
Recognizes easily-identified barriers to effective communication (e.g., language, disability)	Identifies need for trained interpreter with non-English-speaking patients
Identifies the need to individualize communication strategies	Uses age-appropriate language when discussing treatment modalities with pediatric patients
<b>Level 2</b> Establishes a therapeutic relationship in straightforward encounters using active listening and clear language	Avoids medical jargon and restates patient perspective when discussing tobacco cessation
Identifies complex barriers to effective communication (e.g., health literacy, cultural differences)	Recognizes the need for handouts with diagrams and pictures to communicate information to a patient who is unable to read
Organizes and initiates communication, sets an agenda, clarifies expectations, and verifies understanding	Prioritizes and sets agenda at the beginning of the appointment for a new patient with chronic back pain
Level 3 Establishes a therapeutic relationship in challenging patient encounters	Acknowledges patient's request for an MRI for new onset back pain without red flags and arranges timely follow-up visit to align diagnostic plan with goals of care
When prompted, reflects on personal biases while attempting to minimize communication barriers	In a discussion with the faculty member, acknowledges discomfort in caring for a patient with COPD who continues to smoke and has recurrent thoracic back pain secondary to viscerosomatic reflexes related to lung pathology
Sensitively and compassionately delivers medical information, managing patient/patient's	Conducts a family meeting to determine a plan for withdrawal of treatment in a terminally ill patient

family's values, goals, preferences, uncertainty, and conflict	
Level 4 Maintains therapeutic relationships, with attention to patient/patient's family's concerns and context, regardless of complexity	Continues to engage representative family members with disparate goals in the care of a patient with dementia
Independently recognizes personal biases while attempting to proactively minimize communication barriers	Reflects on personal bias related to lung cancer death of own father and solicits input from faculty about mitigation of communication barriers when counseling patients around smoking cessation
Independently uses shared decision making to align patient/patient's family's values, goals, and preferences with treatment options to make a personalized care plan	Uses patient and family input to develop a plan for home-based physical and occupational therapy in a Parkinson's patient they are caring for in the ONMM continuity of care clinic
<b>Level 5</b> Mentors others in situational awareness and critical self-reflection to consistently develop positive therapeutic relationships	Leads a discussion group on personal experience of moral distress
Leads or develops initiatives to identify and address bias	Develops a residency curriculum on social justice which addresses unconscious bias
Role models shared decision making in communicating with the patient/patient's family, including in situations with a high degree of uncertainty/conflict	Serves on a hospital bioethics committee
Assessment Models or Tools	Direct observation
	Multisource feedback
	Portfolio     Self-assessment including self-reflection exercises
	Standardized patients or structured case discussions
Curriculum Mapping	•
Notes or Resources	<ul> <li>Laidlaw A, Hart J. Communication skills: An essential component of medical curricula.         Part I: Assessment of clinical communication: AMEE Guide No. 51. <i>Med Teach</i>.         2011;33(1):6-8.         <a href="https://www.tandfonline.com/doi/abs/10.3109/0142159X.2011.531170?journalCode=imte2">https://www.tandfonline.com/doi/abs/10.3109/0142159X.2011.531170?journalCode=imte2</a>         0. 2021.     </li> </ul>

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   <a href="https://www.sciencedirect.com/science/article/abs/pii/S0738399101001367?via%3Dihub.">https://www.sciencedirect.com/science/article/abs/pii/S0738399101001367?via%3Dihub.</a>
  - Symons AB, Swanson A, McGuigan D, Orrange S, Akl EA. A tool for self-assessment of communication skills and professionalism in residents. *BMC Med Educ*. 2009; 9:1. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2631014/. 2021.

## Interpersonal and Communication Skills 2: Interprofessional and Team Communication Overall Intent: To effectively communicate with the health care team, including consultants, in both straightforward and complex situations **Milestones Examples** • Contacts a psychiatry resident for a consultation for patient who is hallucinating **Level 1** Respectfully requests a consultation. with supervision Appropriately and professionally acknowledges and communicates (i.e., "closes the loop") Respectfully responds to a consultation request with consulting physician once consult is reviewed with supervisor and conveys recommendations, with supervision Correctly identifies individuals in the ONMM program by name and role; acknowledges Uses language that values all members of the team approach to care with patients health care team Level 2 Clarifies the goals of the consultation • Follows up with consultants to convey specific questions and goals request • Communicates physical exam and work-up to date to neurology team when requesting consultation Clearly conveys recommendations following Discusses case with physician requesting an an ONMM consult and follows up on results consultations with a written letter Communicates information effectively with all • Uses ONMM consult template when reporting on a patient referred for somatic health care team members dvsfunction **Level 3** Ensures understanding of consultant • Uses closed-loop communication when providing ONMM consultative recommendations to requesting provider recommendations Seeks and integrates input from different • Written report to primary team should clearly answer reason for requested consult and members of the health care team and provides add value to the patient's care recommendations to the primary team in a clear • Understands the value of other team members and timely manner • Discusses results of newborn inpatient ONMM consultation with lactation consultant and pediatrician Communicates concerns and provides feedback • Facilitates a mid-rotation feedback session with a student, developing an action plan for to peers and learners improved problem-focused medical history taking Level 4 Integrates recommendations from • Develops a single plan of care for a patient with multiple sclerosis based on recommendations from neurology, psychiatry, and pain management consultant into the treatment plan

Provides comprehensive and prioritized recommendations, including assessment and rationale, to all necessary health care team members	Provide understandable rationalized treatment plan based on the OMM findings documented that can be implemented in the hospital setting for a patient with post operative ileus
Communicates feedback and constructive criticism to supervising individuals	Respectfully raises concerns about a disruptive faculty member to program director
<b>Level 5</b> Leads the health care team in the provision of effective consultative services across the spectrum of disease complexity and acuity	Knows role as consultant and progressively provides valuable advice and care to obese diabetic patients with renal insufficiency presenting with low back pain and peripheral neuropathy
Facilitates regular health care team-based feedback in complex situations	<ul> <li>Effectively leads a clinical operations meeting to discuss controversial new scheduling templates</li> <li>Convenes and facilitates a multidisciplinary meeting regarding a patient's feedback received after a patient's unsatisfactory appointment at the ONMM continuity of care clinic</li> </ul>
Assessment Models or Tools	<ul> <li>Direct observation</li> <li>Medical record (chart) audit</li> <li>Multisource feedback</li> <li>Simulation</li> </ul>
Curriculum Mapping	
Notes or Resources	<ul> <li>Braddock CH, Edwards KA, Hasenberg NM, Laidley TL, Levinson W. Informed decision making in outpatient practice: Time to get back to basics. <i>JAMA</i>. 1999;282(24):2313-2320. https://jamanetwork.com/journals/jama/fullarticle/192233. 2021.</li> <li>Dehon E, Simpson K, Fowler D, Jones A. Development of the faculty 360. <i>MedEdPORTAL</i>. 2015;11:10174. https://www.mededportal.org/doi/10.15766/mep 2374-8265.10174. 2021.</li> <li>Green M, Parrott T, Cook G. Improving your communication skills. <i>BMJ</i>. 2012;344:e357 https://www.bmj.com/content/344/bmj.e357. 2021.</li> <li>Henry SG, Holmboe ES, Frankel RM. Evidence-based competencies for improving communication skills in graduate medical education: A review with suggestions for implementation. <i>Med Teach</i>. 2013;35(5):395-403. https://www.tandfonline.com/doi/abs/10.3109/0142159X.2013.769677?journalCode=imte2</li></ul>

https://www.tandfonline.com/doi/abs/10.1080/0142159X.2018.1481499?journalCode=imte
<u>20</u> . 2021.

Interpersonal and Communication Skills 3: Communication within Health Care Systems  Overall Intent: To effectively and responsibly use and improve EHR and health systems communication	
Milestones	Examples
Level 1 Records information in the patient record in an accurate and timely manner	Completes notes promptly with accurate data
Learns institutional policy and safeguards patient personal health information	Adheres to Health Insurance Portability and Accountability Act (HIPAA) requirements by not discussing patients in common areas
Communicates through appropriate channels as required by institutional policy (e.g., patient safety reports, cell phone/pager use)	Uses encrypted email systems when including patient data
Level 2 Demonstrates organized medical management reasoning through notes in the patient record	After seeing a patient with low back pain, documents rationale for not ordering an MRI
Appropriately uses documentation shortcuts; records required data in formats and timeframes specified by institutional policy	<ul> <li>Avoids inappropriate copying and pasting of notes</li> <li>Adjusts contents of macros to be patient specific</li> </ul>
Respectfully communicates concerns about the system	Discusses the breakdown of communication between nurses and physicians with appropriate individuals
Level 3 Uses the patient record to communicate updated and concise information in an organized format	Documents changes in patient status in the medical record outside of the daily note     Routinely updates problem list to reflect current status
Appropriately selects direct (e.g., telephone, in- person) and indirect (e.g., progress notes, text messages) forms of communication based on context	Calls the patient to communicate a concerning test result, then notifies the clinical staff to schedule an appointment
Uses appropriate channels to offer clear and constructive suggestions for system improvement while acknowledging system limitations	Communicates specific opportunities for EHR improvement to the appropriate advisory committee

<b>Level 4</b> Demonstrates efficiency in documenting patient encounters and updating record	Completes notes and updates charts for visits on day of appointment at a practice-level volume
Manages the volume and extent of written and verbal communication required for practice	Manages practice-level volume of EHR tasks in a time-frame consistent with policy
Initiates difficult conversations with appropriate stakeholders to improve the system  Level 5 Optimizes and improves functionality of	<ul> <li>Participates in task force to update policy for sharing abnormal results</li> <li>Addresses members of the team, when needed, in an objective but compassionate, constructive, non-threatening manner</li> <li>Is identified as an EHR super-user</li> </ul>
the electronic health record within the institutional system	
Guides departmental or institutional communication around policies and procedures	Participates in a task force established by the hospital QI committee to improve order sets
Facilitates dialogue regarding systems issues among larger community stakeholders (residency institution, health care system, field)	Participates in pharmacy and therapeutics committees to develop EHR tools to communicate across or between systems
Assessment Models or Tools	Direct observation
Assessment woders of Tools	Medical record (chart) audit
	Multisource feedback
Cuminulum Manning	• Wullisource reedback
Curriculum Mapping	
Notes or Resources	<ul> <li>Bierman JA, Hufmeyer KK, Liss DT, Weaver AC, Heiman HL. Promoting responsible electronic documentation: Validity evidence for a checklist to assess progress notes in the electronic health record. <i>Teach Learn Med</i>. 2017;29(4):420-432. https://www.tandfonline.com/doi/full/10.1080/10401334.2017.1303385. 2021.</li> </ul>
	<ul> <li>Haig KM, Sutton S, Whittington J. SBAR: A shared mental model for improving communication between clinicians. <i>Jt Comm J Qual Patient Saf</i>. 2006;32(3):167-175. https://www.jointcommissionjournal.com/article/S1553-7250(06)32022-3/fulltext. 2021.</li> </ul>
	• Starmer AJ, Spector ND, Srivastava R, et al. I-pass, a mnemonic to standardize verbal handoffs. <i>Pediatrics</i> . 2012;129.2:201-204.
	https://pediatrics.aappublications.org/content/129/2/201.long?sso=1&sso_redirect_count= 1&nfstatus=401&nftoken=00000000-0000-0000-0000- 00000000000&nfstatusdescription=ERROR%3a+No+local+token. 2021.
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To help programs transition to the new version of the Milestones, the ACGME has mapped the original Milestones 1.0 to the new Milestones 2.0. Indicated below are where the subcompetencies are similar between versions. These are not exact matches but are areas that include similar elements. Not all subcompetencies map between versions. Inclusion or exclusion of any subcompetency does not change the educational value or impact on curriculum or assessment.

Milestones 1.0	Milestones 2.0
PC1: Osteopathic Manipulative Techniques (OMT) (Direct	PC2: Osteopathic Manipulative Treatment (OMT) (Direct)
and Indirect)	PC3: Osteopathic Manipulative Treatment (OMT) (Indirect)
PC2: Trigger Point Injection, Joint Aspiration, and Injection	PC5: Management of Procedural Care
PC3: Patient Management	PC1: Patient Management: Osteopathic Approach to Patient
	Care
	PC4: Diagnostic Screening, Testing, and Interpreting
PC4: Providing and Requesting Consultation	
MK1: Possesses Clinical Knowledge (Anatomy,	MK1: Applied Foundational Sciences
Physiology, Pharmacology, Assessment, and Treatment	
MK2: Manifestation of systemic disease through	MK2: Manifestation of Systemic Disease through
neuromusculoskeletal system and related visceral and	Neuromusculoskeletal System
somatic reflex patterns	
SBP1: Patient Safety and Advocacy	SBP1: Patient Safety and Quality Improvement
	SBP2: System Navigation for Patient-Centered Care
SBP2: Practice Management and Economics	SBP3: Physician Role in the Health Care Systems
PBLI1: L earning and Feedback	PBLI2: Reflective Practice and Commitment to Personal Growth
PBLI2: Literature Review and Research	PBLI1: Evidence-Based and Informed Practice
PROF1: Patient and Community Interactions	PROF1: Professional Behavior and Ethical Principles
PROF2: Professional Conduct and Accountability	PROF1: Professional Behavior and Ethical Principles
	PROF2: Accountability/Conscientiousness
PROF3: Maintains emotional, physical, and mental health;	PROF3: Self-Awareness and Help-Seeking
and pursues continual personal and professional growth	
ICS1: Develops Meaningful, Therapeutic Relationships	ICS1: Patient- and Family-Centered Communication
with Patients and Families	
ICS2: Interprofessional Communications	ICS2: Interprofessional and Team Communication
	ICS3: Communication within Health Care Systems

## **Available Milestones Resources**

Milestones 2.0: Assessment, Implementation, and Clinical Competency Committees Supplement, new 2021 - <a href="https://meridian.allenpress.com/jgme/issue/13/2s">https://meridian.allenpress.com/jgme/issue/13/2s</a>

Clinical Competency Committee Guidebook, updated 2020 -

https://www.acgme.org/Portals/0/ACGMEClinicalCompetencyCommitteeGuidebook.pdf?ver=2020-04-16-121941-380

Clinical Competency Committee Guidebook Executive Summaries, new 2020 - <a href="https://www.acgme.org/What-We-Do/Accreditation/Milestones/Resources">https://www.acgme.org/What-We-Do/Accreditation/Milestones/Resources</a> - Guidebooks - Clinical Competency Committee Guidebook Executive Summaries

Milestones Guidebook, updated 2020 - https://www.acgme.org/Portals/0/MilestonesGuidebook.pdf?ver=2020-06-11-100958-330

Milestones Guidebook for Residents and Fellows, updated 2020 -

https://www.acgme.org/Portals/0/PDFs/Milestones/MilestonesGuidebookforResidentsFellows.pdf?ver=2020-05-08-150234-750

Milestones for Residents and Fellows PowerPoint, new 2020 - <a href="https://www.acgme.org/Residents-and-Fellows/The-ACGME-for-Residents-and-Fellows">https://www.acgme.org/Residents-and-Fellows/The-ACGME-for-Residents-and-Fellows</a>

Milestones for Residents and Fellows Flyer, new 2020 <a href="https://www.acgme.org/Portals/0/PDFs/Milestones/ResidentFlyer.pdf">https://www.acgme.org/Portals/0/PDFs/Milestones/ResidentFlyer.pdf</a>

*Implementation Guidebook*, new 2020 - <a href="https://www.acgme.org/Portals/0/Milestones%20Implementation%202020.pdf?ver=2020-05-20-152402-013">https://www.acgme.org/Portals/0/Milestones%20Implementation%202020.pdf?ver=2020-05-20-152402-013</a>

Assessment Guidebook, new 2020 -

https://www.acgme.org/Portals/0/PDFs/Milestones/Guidebooks/AssessmentGuidebook.pdf?ver=2020-11-18-155141-527

Milestones National Report, updated each Fall -

https://www.acgme.org/Portals/0/PDFs/Milestones/2019MilestonesNationalReportFinal.pdf?ver=2019-09-30-110837-587 (2019)

Milestones Bibliography, updated twice each year -

https://www.acgme.org/Portals/0/PDFs/Milestones/MilestonesBibliography.pdf?ver=2020-08-19-153536-447

Developing Faculty Competencies in Assessment courses - <a href="https://www.acgme.org/Meetings-and-Educational-Activities/Other-Educational-Activities/Courses-and-Workshops/Developing-Faculty-Competencies-in-Assessment">https://www.acgme.org/Meetings-and-Educational-Activities/Other-Educational-Activities/Courses-and-Workshops/Developing-Faculty-Competencies-in-Assessment</a>

## Osteopathic Neuromusculoskeletal Medicine Supplemental Guide

Assessment Tool: Direct Observation of Clinical Care (DOCC) - <a href="https://dl.acgme.org/pages/assessment">https://dl.acgme.org/pages/assessment</a>

Assessment Tool: <u>Teamwork Effectiveness Assessment Module</u> (TEAM) - <u>https://dl.acgme.org/pages/assessment</u>

Learn at ACGME has several courses on Assessment and Milestones - https://dl.acgme.org/