

## Learning Objectives – Orthopaedic Spine Service

	Junior Resident	Senior Resident/Fellow
<b>Patient Care</b>	<p>Work up, document, and present a patient with spine problems specifying the working diagnosis, studies to confirm or change the diagnosis, treatment alternatives and expected outcomes. (SBP, P);</p> <p>Communicate compassionately and effectively with patients and families regarding the above (IS);</p> <p>Recognize and describe neurological deficits (including pathophysiology), resulting limitations, and accommodations for functional deficits (MK);</p> <p>Recognize and describe spinal deformity conditions, fractures, and dislocations, including pathophysiology (MK);</p> <p>Prescribe appropriate spinal orthoses and supervise their application;</p> <p>Demonstrate preoperative readiness by specifying for each case: indications and goals, step by step description of approach and procedure, three-dimensional considerations, expected difficulties and risks, contingency plans and criteria for acceptable intraoperative result (PBL);</p> <p>Perform and assist essential surgical procedures: posterior cervical, thoracic and lumbar exposure and arthrodesis, anterior cervical approach and arthrodesis, discectomy;</p> <p>List all equipment, tables, imaging needs and demonstrate correct review of the completeness of surgical set up for all cases;</p> <p>Demonstrate attention to detail in the pre- and postoperative care of patients;</p> <p>Demonstrate ability to recognize and initiate treatment of all complications (PBL, MK);</p> <p>Discuss and confirm or challenge diagnoses and treatment plans based upon recent literature (PBL, MK).</p> <p style="text-align: center;"><i>(Additions as further specified by the Review Committee)</i></p>	<p>Make patient treatment decisions and possess a basic understanding of indications for surgical procedures with various elective pathologies as well as non-elective pathologies;</p> <p>Possess an understanding of indications for surgical treatment of idiopathic scoliosis, congenital scoliosis, congenital kyphosis, various types of spondylolisthesis, various types of fractures, various types of tumors, and infections of the spine;</p> <p>Perform a complete musculoskeletal and neurologic examination, including the cervical spine, thoracic spine and lumbar spine, including neurologic examination of the upper and lower extremities and be able to explain pathologies such as an absent reflex or long tract signs such as positive Hoffmann or positive Babinski and/or clonus;</p> <p>Effectively participates in the decision-making process of issues on in-hospital patients;</p> <p>Display competency in performing a full office patient examination, providing a differential diagnosis and treatment plan;</p> <p>Exhibit competency in exposing the spine posteriorly, performing straightforward decompressions with Kerrison posteriorly. Display basic familiarity with placing hooks, wires and pedicle screws in the spine. Achieve proficiency with first assisting on operative procedures;</p> <p>Effectively communicate and demonstrates care and respectful behavior when interacting with patients and families;</p> <p>Demonstrate the ability to practice culturally competent medicine;</p> <p>Use information technology to support patient care decisions and patient education;</p> <p>Provide health care services aimed at preventing health problems or maintaining health;</p>

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		<p>Work with other health care professionals from various disciplines to provide excellent patient-focused care.</p> <p><i>(Additions as further specified by the Review Committee)</i></p>
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<b>Medical Knowledge</b>	<p>Apply literature and text obtained knowledge to the above and demonstrate basic science knowledge relevant to spine (PBL);</p> <p>Prepare and present at least one spine topic in depth for departmental conference (PBL);</p> <p>Complete reading list with review by attending staff.</p> <p style="text-align: center;"><i>(Additions as further specified by the Review Committee)</i></p>	<p>Present a reasonable classification system for all spinal pathologies including cervical disc herniation, lumbar disc herniation, thoracic disc herniation, spinal fractures, spinal tumors, idiopathic scoliosis, idiopathic kyphosis, congenital scoliosis, congenital kyphosis, spondylolisthesis, flaccid paralytic deformities, and spastic paralytic deformities;</p> <p>Successfully accomplish basic radiographic measurements such as coronal Cobb measurements and sagittal Cobb angles;</p> <p>Accurately define the difference between the anterior, posterior and middle columns;</p> <p>Accurately read a basic radiographic, MRI, and CT-myelogram study of the cervical, thoracic and lumbar spine.</p> <p style="text-align: center;"><i>(Additions as further specified by the Review Committee)</i></p>
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<b>Practice-Based Learning &amp; Improvement</b>	<p>Utilize resources to build medical knowledge relevant to cases seen;</p> <p>Identify studies relevant to individual experience;</p> <p>Critical appraisal of literature relevant to patients seen;</p> <p>Disseminates knowledge to others when relevant.</p> <p style="text-align: center;"><i>(Additions as further specified by the Review Committee)</i></p>	<p>Attends Indication Conferences and demonstrates understanding of the surgical treatment and indications for anterior surgery <i>versus</i> posterior surgery <i>versus</i> combined surgery;</p> <p>Teach and mentor the PGY-1 resident on the service;</p> <p>Locate, appraise and assimilate evidence from past and on-going scientific studies related to patient health issues;</p> <p>Obtain and use information about his/her patient population and the larger population from which patients are drawn;</p> <p>Apply knowledge of study designs and statistical methods to the appraisal of clinical studies;</p> <p>Use information technology such as OVID or MEDLINE to manage information, access on-line medical information and support his/her own education.</p> <p style="text-align: center;"><i>(Additions as further specified by the Review Committee)</i></p>

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<b>Interpersonal &amp; Communication Skills</b>	<p>Incorporate AAOS communication skills course techniques;</p> <p>Work effectively with others as a member or leader of a health care team.</p> <p style="text-align: center;"><i>(Additions as further specified by the Review Committee)</i></p>	<p>Create and sustain a therapeutic and ethically sound relationship with patients and their families;</p> <p>Effectively use listening skills;</p> <p>Effectively provide information via various methods;</p> <p>Work effectively with others as a member or leader of a health care team.</p> <p style="text-align: center;"><i>(Additions as further specified by the Review Committee)</i></p>
	Junior Resident	Senior Resident/Fellow
<b>Professionalism</b>	<p>Behavior that supersedes self interest, demonstrates a commitment to excellence and improvement;</p> <p>Legible and timely documentation (PC);</p> <p>Commitment to ethical behavior, confidentiality;</p> <p>Sensitivity and responsiveness to patient and team’s culture and demographics.</p> <p style="text-align: center;"><i>(Additions as further specified by the Review Committee)</i></p>	<p>Interact in a professional manner with inpatients, outpatients, referring physicians, orthopaedic residents, attendings and all patients in the practice;</p> <p>Interact effectively with both hospital patients and outpatients;</p> <p>Possess some competency in effectively managing hospital patients;</p> <p>Demonstrate respect, compassion and integrity in response to the needs of patients and their families;</p> <p>Demonstrate ethical principles pertaining to patient confidentiality issues;</p> <p>Demonstrate sensitivity to the culture, age, gender and disabilities of patients and fellow health care professionals.</p> <p style="text-align: center;"><i>(Additions as further specified by the Review Committee)</i></p>

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<b>Systems-Based Practice</b>	<p>Demonstrate an understanding of health care systems and challenges;</p> <p>Complete all records and paperwork (PC);</p> <p>Demonstrates knowledge of cost effectiveness in health care (PC);</p> <p>Advocates for patient when cost and quality issues present (PC, PBL);</p> <p>Partners with administrative personnel when needed.</p> <p style="text-align: center;"><i>(Additions as further specified by the Review Committee)</i></p>	<p>Demonstrate competency in coordinating all aspects of perioperative and postoperative rehabilitation and physical therapy at BJH, SLCH and Shriners Hospital;</p> <p>Demonstrate an understanding of how his/her patient care and other professional practices affect other health care professionals, the health care organization, and the larger society, and how these elements of the system affect his/her own practice;</p> <p>Demonstrate knowledge of how the different types of medical practice and delivery systems (Shriners vs. SLCH vs. BJH vs. Wohl Clinic) differ from one another, including methods of controlling health care costs and allocating resources;</p> <p>Practice cost-effective health care and resource allocation that does not compromise quality of care;</p> <p>Demonstrate an understanding the impact of correct coding during patient office visits;</p> <p>Acts as an advocate for quality patient care and assists patients in dealing with system complexities;</p> <p>Effectively partners with health care managers and health care providers to assess, coordinate and improve health care, and know how these activities can affect system performance.</p> <p style="text-align: center;"><i>(Additions as further specified by the Review Committee)</i></p>