	Junior Resident	Senior Resident/Fellow
Patient Care	Surgical	Surgical
	Competency in sterile technique, patient site preparation, patient positioning, and aseptic draping;	Mastery of sterile technique, patient site preparation, patient positioning, and aseptic draping for all surgical exposures;
	Mastery of basic suturing technique, including multi-layer wound closure and complex wound management;	Mastery of surgical approaches for fracture care and advance understanding of complex exposures including those used for pelvic fixation;
	Mastery of basic surgical instrument skills (tools for exposure, hemostasis, retraction, tissue handling, and closure) including aseptic technique and atraumatic soft-tissue handling; Understanding of common surgical approaches for fracture care. Examples include lateral approach to the ankle, lateral approach to the femur, deltopectoral approach to the shoulder, volar approach to the	Ability perform common trauma operations without dependence on attending staff, including IMN femur, IMN tibia, ORIF of the ankle, forearm, elbow, & humerus, hip hemiarthroplasty, ORIF of the lateral tibial plateau, shoulder hemiarthroplasty and application of external fixators;
	forearm; Ability to perform the approach and find the starting point for femoral and tibial nails. Knowledge of the steps for medullary nailing for	Understanding of and participation in complex trauma operations with direct attending guidance inculding ORIF pilon, bicondylar tibial plateau, calcaneous, talus, elbow, & LisFranc fractures;
	diaphyseal fractures; Ability to insert free hand interlocks in intramedullary nails;	Understanding of surgical techniques required to perform ORIF acetabulum/pelvis, percutaneous screw fixation of pelvic ring injuries, and osteotomies for non-union;
	Ability to reduce basic fracture patterns with manipulation, clamps, and K-wires;	Ability to take a junior residents though a case while teaching basic surgical technique and AO principles;
	Understanding of basic AO techniques including knowledge of screw and plate design. Ability to perform basic plate osteosynthesis;	Ability to lead a surgical team including implant & instrument selection, directing ancillary staff, and time management;
	Ability to drill, measure, and tap bone for screw placement including lag screw technique.	Ability to manage the operating room schedule to ensure timely and seamless surgical care of traumatized patients.
	Office/Emergency Department/Clinical Practice	Office/Emergency Department/Clinical Practice
	Ability to efficiently and thoroughly evaluate patient with orthopaedic issues in the clinic and emergency department settings including the ability to effectively communicate findings with chief residents, fellows, and attending;	Ability to assist junior residents in clinical decision making, fracture care, and system navigation;

Ability to work with multiple surgical specialties in the triage and management of the polytraumatized patient;

Ability to identify the appropriate imaging required to evaluate an injury;

Ability to interpret diagnostic plain films, CTs, and MRIs;

Ability to perform closed reduction and manipulations of fractures and dislocations including appropriate casting, splinting, and immobilization;

Ability to acutely manage open fractures including, irrigation & debridement, antibiotic selection, tetanus prophylaxis, reduction, immobilization, and assessment of associated injuries (typically vascular or neurologic);

Ability to perform local nerve blocks, joint aspirations, and joint saline challenges;

Ability to identify patient in need of medical consultation early in the hospital course;

Ability to counsel and educate patients and families;

Effectively use information technology to support patient care decisions and patient education.

Ward Management

Ability to manage a substantial inpatient load according to principles of good inpatient hospital care and with respect to the preferences of the attendings on service.;

Ability to work with the nurse practitioners to ensure equitable distribution of the work load and deliver high quality patient care;

Ability to identify potential complications of traumatic injuries such as compartmental syndrome, cognitive impairment, and depression;

Ability to teach the junior resident reduction and splinting of all fractures and dislocation;

Availability to see patients in the emergency department when the junior becomes backed-up with consultations;

Ability to review each consultation and perform complete preoperative evaluation of each surgical candidate including assessment of risk and potential complications;

Ability to counsel and educate patients and families;

Effectively use information technology to support patient care decisions and patient education.

Ward Management

Ability to manage a team of care providers to ensure excellent inpatient hospital care with respect to the preferences of the attendings on service;

Ability to provide a daily plan of care for each inpatient on service and advise on the necessary steps required to implement said plan including the need to consult other services;

Ability to recognize and approve/refuse transfer of patient care to/from the orthopaedic service;

Daily review of anticoagulation, activity, and antibiotic plan for each patient.

Daily review of anticoagulation, activity, and antibiotic plan for each patient;	
Ability to accurately document physical exams and patient care plan in the electronic medical record;	
Ability to maintain an up to date sign-out list of inpatients and their active issues.	

	Junior Resident	Senior Resident/Fellow
Medical Knowledge	Ability to appropriately manage pre and post operative orthopaedic patients;	Advanced knowledge of / ability to appropriately manage injured patients;
	Knowledge of / ability to appropriately manage acutely injured patients (examples: required imaging, when/how to sheet a pelvis or reduce cervical spine dislocation, and indications for traction);	Knowledge of appropriate indications for surgical management of common complications of traumatic orthopaedic surgical care (examples: osteotomy for varus collapse of a femoral neck fracture, IMN exchange for tibial non-union, derotation of the femur);
	Knowledge of common orthopaedic traumatic injuries and their acute management (examples: distal radius, tibia, femur, & humerus fractures, shoulder & hip dislocations, hand lacerations, and open fractures);	Knowledge of advanced AO fracture fixation technique; Knowledge of the advantages / disadvantages of commonly used
	Knowledge of expected risk of common surgical interventions	implants;
	(examples: malrotation of transverse/comminuted femur fractures, nonunion of segmental bone loss, knee pain following IMN of the tibia, etc);	Ability to generate multiple options for fracture fixation and knowledge of each method's advantages and disadvantages;
	Knowledge of reduction and splinting principles and techniques;	Completion of Miller Review Course; Completion of Orthopaedic Boards.
	Knowledge of appropriate indications for surgical and non operative management of traumatic orthopaedic injuries;	
	Knowledge of relative and absolute contraindications for surgical management of traumatic orthopaedic injuries;	
	Knowledge of fracture patterns, classifications, and means of fixation;	
	Knowledge of AO fracture fixation including lag screw, plate function, modes of fracture healing, material properties, and basic biomechanics;	
	Completion of AO Basics Course.	

	Junior Resident	Senior Resident/Fellow
Practice-Based	Prepares for and presents the cases at the weekly Monday afternoon fracture conference;	Active participation in weekly fracture conference;
Learning & Improvement	Fresents cases during morning signout rounds; Participation in scheduled didactic conferences including journal club, Friday morning conference, and M&M The resident has demonstrated the ability and desire to identify errors in care, management, or understanding of clinical presentations that (s)he made or observed, and to learn from them; The resident has demonstrated the ability and desire to self-assess his/her performance as a surgeon or assistant surgeon in the operating	Prepares for and presents the cases at the monthly M&M conference; Participation in didactic conferences including journal club, Friday morning conference, and M&M The resident has demonstrated the ability and desire to identify errors in care, management, or understanding of clinical presentations that (s)he made or observed, and to learn from them; The resident has demonstrated the ability and desire to self-assess his/her performance as a surgeon or assistant surgeon in the operating room;
	room; Locate, appraise and assimilate evidence from scientific studies related to their patients' health problems; Apply knowledge of study design and statistical methods to the appraisal of clinical studies and other medical information; Facilitate the learning of medical students and other health care professionals.	Locate, appraise and assimilate evidence from scientific studies related to their patients' health problems; Apply knowledge of study design and statistical methods to the appraisal of clinical studies and other medical information; Facilitate the learning of medical students, residents and other health care professionals.

	Junior Resident	Senior Resident/Fellow
Interpersonal & Communication	Ability to create and sustain therapeutic and ethically sound relationships with patients;	Ability to create and sustain therapeutic and ethically sound relationships with patients;
Skills	Ability to maintain open conversation between team members to ensure dissemination of important information;	Ability to maintain open conversation between team members to ensure dissemination of important information;
	Ability to effectively communicate with other services within the hospital;	Ability to effectively communicate with other services within the hospital;
	Maintain verbal and written sign-out during transition of patient care;	Maintain verbal and written sign-out during transition of patient care;
	Maintained appropriate daily communication with each of the faculty members regarding inpatients according to the standards of each faculty member (defined, in part, in the guide below); Able to communicate appropriately, clearly, and in a timely fashion any important changes in status on ER patients, inpatients and outpatients to fellow residents and attending staff.	Maintained appropriate daily communication with each of the faculty members regarding inpatients according to the standards of each faculty member (defined, in part, in the guide below);
		Able to communicate appropriately, clearly, and in a timely fashion any important changes in status on ER patients, inpatients and outpatients to fellow residents and attending staff;
		Effectively function as the leader of the health care team.

	Junior Resident	Senior Resident/Fellow
Professionalism	Ability to maintain an appropriately professional demeanor towards and conduct professional relationships with patients;	Ability to maintain an appropriately professional demeanor towards and conduct professional relationships with patients;
	Ability to maintain an appropriately professional demeanor towards and conduct professional relationships with support staff;	Ability to maintain an appropriately professional demeanor towards and conduct professional relationships with support staff;
	Ability to maintain an appropriately professional demeanor towards and conduct professional relationships with peers;	Ability to maintain an appropriately professional demeanor towards and conduct professional relationships with peers;
	Ability to maintain an appropriately professional demeanor towards and conduct professional relationships with faculty;	Ability to maintain an appropriately professional demeanor towards and conduct professional relationships with faculty;
	The resident treated consulting services (including medical students, residents, and faculty on those services) and anesthesia providers with respect and dignity;	The resident treated consulting services (including medical students, residents, and faculty on those services) and anesthesia providers with respect and dignity;
	The resident behaved consistently in an ethical fashion;	The resident behaved consistently in an ethical fashion;
	There were no critical incidents: failures of integrity, dereliction of duty, or overt or implied sexism, racism, or cultural insensitivity.	There were no critical incidents: failures of integrity, dereliction of duty, or overt or implied sexism, racism, or cultural insensitivity.

	Junior Resident	Senior Resident/Fellow
Systems-Based Practice	The resident engaged consulting services (including non-medical consulting services, such as social services) appropriately, including calling for consults when indicated, and responding to the recommendations of consultants in a timely and effective manner;	The resident engaged consulting services (including non-medical consulting services, such as social services) appropriately, including calling for consults when indicated, and responding to the recommendations of consultants in a timely and effective manner;
	Demonstrated an understanding of cost effective health care delivery while maintaining high quality patient care;	Demonstrated an understanding of cost effective health care delivery while maintaining high quality patient care;
	The resident ran the service in a time-efficient manner so has to optimize his/her learning, such that demands from the ER were balanced effectively against time in the OR and/or clinic;	The resident ran the service in a time-efficient manner so has to optimize his/her learning, such that demands from the ER were balanced effectively against time in the OR and/or clinic;
	Participation in the clinic and the OR in an efficient and effective manner.	Participation in the clinic and the OR in an efficient and effective manner;
		Participate in the organization of the daily OR schedule.