

الهيئة السعودية للتخصصات الصحية Saudi Commission for Health Specialties

Mapping of Orthopedic Surgery Curricular Competencies with Assessment Tools

This outline maps curricular competencies\objectives with the assessment tools and potential test type. Tests will emphasize certain parts of the outline, and no single test will include questions on all aspects. Questions may include content that is not included in this outline.

			,			Page #	Learning Domain		Assessmen	t Method	
Construct	Domain	Rotation	Year	Code	Performance indicator (Curriculum)		(1:Cognitive, 2:Skills, 3:Attitude)	MCQ - Part I Written	MCQ - Final Written	OSCE - Final Clinical	SOE - Fina Clinical
A. Medical Expert	Basic Science	Arthroplasty	Junior	A1.1	Understand the general principles and surgical technique for the cemented/cementless femoral and acetabular components.	33	1 1	*	*		*
				A1.2	and acetabular components. Understand the classification of acetabular and femoral deficiencies.	33	1	*	*		*
				A1.3	Understand the classification of tibial and femoral deficiencies about the total knee arthroplasty	33	1		*		*
				A1.4	(TKA). Understand basic biomaterials issues in total joint arthroplasty. Discuss the following materials	33	. 1	*	*		*
			Senior	A1.5	and their use in orthopaedic implants: ceramics, polyethylene, metals, and methyl methacrylate. Understand the immediate and long-term interactions between host bone and implants, bone		. 1				
			School		remodeling, and its implications about the THA (e.g. calcar resorption, cementless stem ingrowth) and TKA.	34	-				
				A1.6	Understand the biological responses to wear debris and differentiate them from bone response to implants (osteolysis versus resorption).	34	1				
				A1.7 A1.8	Understand the tribiology (wear issues) associated with total joint arthroplasty. Understand the design rationale for THA and TKA implants as it pertains to common	34 34	1 1		*		*
				A1.9 A1.10	complications (PF groove, elevated lip liners, anatomic versus straight stems, etc.). Understand the biomechanics of a TKA and osteotomy about the knee. Describe the pathogenesis of implant loosening (lysis, membrane formation, enzyme elevation)	34	1				*
				A1.10	at the cement-bone and metal-cement interfaces.	34	,				
				A1.11 A1.12	Discuss the principles and biomechanics of osteotomies about the hip/knee. Know the principles and application of using autografts and allografts for the defects associated with THA/TKA.	34 35	1		*		*
		Foot and ankle	Junior	A1.13	Understand the gross anatomy and histology of the normal foot.	35	1	*	*		*
		surgery		A1.14	Understand the kinematics, kinetics, and wear characteristics of adult foot and ankle	35	1	*	*		*
				A1.15	biomechanics. Understand neuromuscular and neurologic diseases as they apply to the foot and ankle (i.e., CP,	36	1		*		*
				A1.16	CVA, Charcot-Marie-Tooth disease, diabetes mellitus, myelodysplasia, etc.). Understand circulatory disturbances such as arterial aneurysm, distal arterial occlusive disease,	36	1		*		*
				A1.17	Understand the principles and complications of rheumatoid foot and ankle.				*		
						36	,		-		-
				A1.18	Understand gout and periarticular alterations such as calcific deposits, subtalar arthrodesis, metatarsal head resection, and ankle joint arthrodesis.	36	'	*	*		*
				A1.19	Understand hindfoot pathology such as calcaneal spurs, fasciitis, bursitis, Achilles tendonitis, and varus and valgus deformity of the heel.	36	' '	*	*		*
			Senior	A1.20	Understand the etiology of cavus foot. Understand osteoarthritis around the ankle and foot.	36	1		*		*
				A1.21 A1.22	Understand osteoarthritis around the ankle and foot. Understand common tumors of the foot and ankle such as giant cell tumor, fibroma, ganglion	36 36	1		*		*
		Oncology	Junior	A4.33	cyst, lipoma, etc.	27	1				*
		Oncology	Junior	A1.23	Understand the natural history and cellular biology of primary bone and soft-tissue neoplasms, both benign and malignant. Understand the natural history and cellular biology of primary bone and soft-tissue neoplasms,	37	, ,				*
				A1.25	both benign and malignant. Know the spectrum of benign and malignant neoplastic disease entities and tumor-like	37	'				
					conditions encountered in musculoskeletal oncology	37					
		Pediatric orthopaedics	Junior	A1.26	Understand normal and abnormal growth and development, including embryology, osseous growth, muscular growth, growth rate, developmental milestones, and timing, especially	38	1		*		*
				A1.27	secondary sexual characteristics. Introduction of skeletal dysplasias including defects of tubular bone (achondroplasia, multiple	38	1	*	*		*
					epiphyseal dysplasia, spondyloepiphyseal dysplasia), disorganized cartilage and/or fibrous components (Ollier's disease), and local or regional bone malformations.						
				A1.28	Understand the characteristics and pathogenesis of constitutional diseases with bone pathology (rickets, mucopolysaccah, calcium/phosphorous disorders), metabolic (rickets, osteomal, renal	38	1	_	-		-
					osteodystrophy, hypophosphatemia, parathyroid or thyroid disorders, heavy metal, juvenile osteoporosis, hypervitaminosis, scurvy, infectious hyperostosis), connective tissues (Ehlers-						
				A1.29	Danlos, Marfan, Down syndrome), and short stature. Understand the etiology, embryology and classification of genetic disorders, including	38	1	*	*		*
					autosomal dominant, autosomal recessive, sex-linked dominant, sexlinked recessive, chromosomal, and multifactorial disorders. Recognize the diseases that can be identified through						
				A1.30	amniocentesis. Understand the characteristics and pathogenesis of muscular dystrophies (such as Duchenne,	39	1	*	*		*
					Becker, limb Girdle, hypotonic, myotonic), inflammatory myopathies (polio, spinal muscular atrophies, hereditary motor sensory neuropathies), myelodysplasia, spondyloarthropathies,						
					cervical spine (congenital malformations, hypermobility), and spinal deformities (scoliosis, kyphosis, spondylosis, and spondylolisthesis).						
				A1.31	Understand underlying processes with upper limb (deficiencies and malformations), hip (such as developmental dysplasia of the hip, Perthes disease, idiopathic chondrolysis), leg length	39	'	*	*		*
					discrepancies, lower limb (congenital deficiencies, congenital pseudarthrosis, posteromedial bowing, patellofemoral syndrome, Osgood-Schlatter disease, congenital dislocation or						
				A1.32	subluxation, clubfoot, congenital vertical talus, postural deformations, polydactyly). Understand the characteristics, pathogenesis of constitutional diseases with bone pathology	38	1	*	*		*
					(rickets, mucopolysaccah, calcium/phosphorous disorders), metabolic (rickets, osteomal, renal osteodystrophy, hypophosphatemia, parathyroid or thyroid disorders, heavy metal, juvenile						
					osteoporosis, hypervitaminosis, scurvy, infectious hyperostosis), connective tissues (Ehlers- Danlos, Marfan, Down syndrome), and short stature.						
			Senior	A1.33	Understand the characteristics, history and pathogenesis of trauma. Understand the characteristics and pathogenesis of complex neuromuscular disorders.	39 39	1	*	*		*
			- School								
				A1.35	Understand complex upper limb, leg length, hip, and lower limb deformities and disorders.	39	1		×		*
		Spine surgery	Junior	A1.36 A1.37	Understand the characteristics, history and pathogenesis of complex trauma. Outline the natural history of the specific condition with and without surgical treatment	39 40	1	*	*		*
		Sports medicine	Junior	A1.38	Describe the pathophysiology of the following pathologic entities related to the shoulder: rotator cuff tendinitis/tear/impingement, glenohumeral instability, adhesive capsulitis		1	*	*		*
				A1.39	Curr tendinitis/rear/impingement, gienonumeral instability, adnesive capsulitis Understand and describe the pertinent clinical anatomy of the shoulder, elbow, knee, leg, ankle, and foot	41	1	*	*		*
				A1.40 A1.41	understand and describe the clinical anatomy and biomechanics of the shoulder Understand and describe the mechanics of the throwing motion	41	1	* *	*		*
				A1.41 A1.42	Understand and describe the mechanics of the throwing motion Understand and describe the relationship between shoulder instability and rotator cuff tendinitis	41	1	*	*		*
				A1.43	Understand and describe the relationship between impingement and rotator cuff tears.	41	1	*			*
					Understand the pathology of meniscal cysts and discoid menisci Understand and describe the pathophysiology of compartment syndrome	42	1	*	*		*
				A1.46 A1.47	Understand and describe the pathophysiology of stress fracture Understand the healing potential of meniscal tears and chondral defects.	42 42	1	*	*		*
		I		A1.48	Understand the pathophysiology and presentation of OCD of the talus	42	1	1 *	*		*

			A1.49	Understand the pertinent clinical anatomy and biomechanics of the ankle.	42	1	*	*	*
			A1.50	Understand the pathophysiology of the following related to the ankle: the different types of Achilles tendinitis, the different types of ankle sprains, and ankle instability.	42	1	*	*	*
			A1.51	Understand the pertinent clinical anatomy and biomechanics of the elbow.	42	1	*	*	*
			A1.52	Understand the pathology of Panner's disease (OCD of capitellum) and valgus extension overload	42	1	*	*	*
		Senior	A1.53	Detailed knowledge of the anatomical structures of the shoulder, elbow, knee and ankle as it	43	1		*	*
			A1.54	relates to sports injuries and surgical approaches and reconstructions Understand anatomy, physiology, and biomechanics as they relate to patients with sportsrelated	43	1		*	*
			711.54	injuries and disease	45	· ·			
			A1.55						
	Upper extremity	Junior	A1.56	Demonstrate detailed knowledge of the anatomical structures of the shoulder and know all	45	1	*	*	*
			A1.57	surgical approaches to the shoulder Understand the anatomy, physiology, and biomechanics of the shoulder as they relate to patients	45	1	*	*	*
				with injuries and disease					
			A1.58	Understand the anatomy/pathoanatomy of why and how to appropriately reduce a displaced proximal humerus fracture	46	1	*	*	*
		Senior	A1.59	Understand the influence of bone loss in instability cases and how it affects surgical decision	46	1		*	*
				making.					
	Trauma	Junior	A1.60	Understand the pathoanatomy of long bone fractures including recognition of associated injuries, classification of fractures, and temporary stabilization.	47	1	*	*	*
		Senior	A1.61	Know the pathoanatomy of most skeletal injuries, i.e. fractures and dislocations of the shoulder,	48	1		*	*
				arm, elbow, forearm, wrist, pelvis, acetabulum, femur, knee, ankle, and foot.					
			A1.62	Know the classification of most skeletal injuries i.e. fractures and dislocations of the shoulder, arm, elbow, forearm, wrist, pelvis, acetabulum, femur, knee, ankle, and foot.	48	1		•	-
ssessment &	Arthroplasty	Junior	A2.1	Differentiate the bursal and soft-tissue diseases about the hip/knee during office sessions, clinic,	32	1	*	*	*
Diagnosis				and rounds.					
			A2.2	Based on a careful history and physical exam, propose a rational approach to the evaluation of patients with pain at various intervals after a total hip replacement.	32	1	-	-	-
			A2.3	Demonstrate the ability to elicit the presence and location of physical symptoms with cognitively	32	1,2	*	*	* *
			A2.4	impaired patients. Distinguish other diseases predisposing to arthritis (Paget's disease, avascular necrosis, Charcot	33	1	*	*	*
			712.4	arthropathy, ochronosis).	33	·			
			A2.5	Obtain an accurate history and perform a thorough physical examination on patients with an inflamed hip and knee to generate a differential diagnosis of this condition with the pertinent	33	2			*
				inflamed hip and knee to generate a differential diagnosis of this condition with the pertinent positive and negative findings of these disorders: rheumatoid arthritis, septic arthritis,					
				acute/chronic osteomyelitis, primary/post-traumatic osteoarthritis, gout, pseudo-gout, systemic					
				lupus erythematosus, Reiter's disease, ankylosing spondylitis, PVNS, hemophilia, and osteonecrosis. The resident must be able to formulate a plan for the work-up of these patients					
				including laboratory and radiographic evaluation.					
			A2.6	Understand the perioperative considerations for THA and TKA including preoperative medical evaluation, blood conservation, deep vein thrombosis prophylaxis, and rehabilitation.	33	1	*	*	*
		Senior	A2.7	Based on the information, be able to formulate a differential diagnosis for these disorders:	33	1		*	*
				osteoarthritis (primary and secondary), rheumatoid arthritis, seronegative arthritis, septic					
			A2.8	arthritis, osteomyelitis, PVNS, hemophilic arthropathy, osteonecrosis, and Charcot arthropathy. Organize a systematic evaluation of disorders including radiography, laboratory tests, and	33	1		*	*
				appropriate ancillary studies.					
			A2.10	Evaluate patients with anterior knee pain. Evaluate patients with painful THAs	33 33	1		*	*
			A2.10	Distinguish nonsuppurative joint infections (fungal, tuberculosis, viral) and recognize less	33	1		*	*
			A2.12	common forms of secondary osteoarthritis (post-septic, Paget's disease, hemochromatosis). Recognize the early & late complications after THA/TKA	33			*	*
			A2.13	Thoroughly comprehend arthroplasty complications of these problems.	34	1		*	*
			A2.14	Evaluate patients with painful total joint arthroplasty and make appropriate judgments based on	34			*	*
	Foot and ankle	Junior	A2.15	history, physical examination, and ancillary studies. Understand the examination, diagnosis, and evaluation of hallux valgus, hallux rigidus, hallux	35	1	*	*	*
	surgery			varus, and metatarsus primus varus.					
			A2.16 A2.17	Understand and identify the different types of foot and ankle fractures and dislocations. Understand and identify stress fractures of the fibula, metatarsals, navicular, and tibia.	35 35	1	*	*	*
			A2.18	Understand infectious and noninfectious inflammatory disorders of the foot and ankle such as	36	1	*	*	*
			A2.19	bursitis and plantar fasciitis.	36		*	*	*
			A2.19	Understand localized entrapment neuropathies such as anterior tarsal tunnel, digital nerve compression, Morton's neuroma, and sural nerve compression.	36	1			
			A2.20	Understand the dermatologic and nail disorders of the nail and adjacent soft tissue.	36	1	*	*	*
			A2.21 A2.22	Understand and identify the different types of forefoot and toe deformities. Understand the classification, roentgenographic evaluation, of flatfoot or pes planus	36 36	1	*	*	
			A2.23	Understand neuromuscular and neurologic diseases as they apply to the foot and ankle (i.e., CP,	36	1	*	*	
				CVA, Charcot-Marie-Tooth disease, diabetes mellitus, myelodysplasia, etc.).					
			A2.24	Understand circulatory disturbances such as arterial aneurysm, distal arterial occlusive disease, lymphedema, and thrombosis.	36	1	*	*	*
			A2.25	Understand the principles and complications of rheumatoid foot and ankle.	36	1	*	*	*
			A2.26	Understand gout and periarticular alterations such as calcific deposits, subtalar arthrodesis, metatarsal head resection, and ankle joint arthrodesis.	36	1	*	*	*
			A2.27	Interpret plain radiographs of the foot and ankle	36	1	*	*	*
		Senior	A2.28	Interpret CT scans, SPECT CT, MRI, etc.	36	1	*	*	*
		Senior	A2.29	Understand osteoarthritis around the ankle and foot.	36	1		-	-
			A2.30	Understand common tumors of the foot and ankle such as giant cell tumor, fibroma, ganglion	36	1		*	*
	Oncolom	Junior	A2 24	cyst, lipoma, etc.	22	1	*	*	*
	Oncology	Juntor	A2.31	Understand the approach of surgical specimens and their interpretation through light microscopy, immunohistochemistry, and cytogenetics.	37	1			-
			A2.32	Understand the diagnostic imaging modalities utilized in evaluation, biopsy techniques involved	37	1	*	*	*
			A2.33	in diagnosis of primary bone and soft-tissue neoplasms, both benign and malignant. Know the spectrum of benign and malignant neoplastic disease entities and tumor-like	37	1	*	*	*
				conditions encountered in musculoskeletal oncology					
			A2.34	Know the important aspects of clinical diagnosis used in the evaluation of soft-tissue and bone neoplasms	37	1	*	*	*
			A2.35	Design and implement the appropriate diagnostic approach to bone and soft-tissue lesions from	37	1	*	*	*
				the initial outpatient-based clinical evaluation of the patient through a utilization of the entire spectrum of diagnostic modalities.					
			A2.36	Synthesize clinical, radiographic, and pathologic diagnostic information into an appropriate	37	1	*	*	*
		Senior	A2 27	differential diagnosis and a final definitive diagnosis for musculoskeletal lesions.	20			*	*
		Settlor	A2.37	Design and implement the appropriate diagnostic approach to bone and soft-tissue lesions from the initial outpatient-based clinical evaluation of the patient through utilization of the entire	38	1		•	•
			4- 0	spectrum of diagnostic modalities.					_
			A2.38	Synthesize clinical, radiographic, and pathologic diagnostic information into an appropriate differential diagnosis and a final definitive diagnosis for musculoskeletal lesions.	38	1		*	*
	Pediatric	Junior	A2.39	Understand the special elements of the initial and follow-up examination of the pediatric	38	1	*	*	*
	orthopaedics			orthopaedic patient in the outpatient clinic setting, including working with families, the					
			A2.40	nonverbal child, the child with developmental disabilities, and adolescents. Introduction of skeletal dysplasias including defects of tubular bone (achondroplasia, multiple	38	1	*	*	*
				epiphyseal dysplasia, spondyloepiphyseal dysplasia), disorganized cartilage and/or fibrous					
			A2.41	components (Ollier's disease), and local or regional bone malformations. Understand the diagnostic features of constitutional diseases with bone pathology (rickets,	38	1	*	*	*
				mucopolysaccah, calcium/phosphorous disorders), metabolic (rickets, osteomal, renal	,,,	· .			
				osteodystrophy, hypophosphatemia, parathyroid or thyroid disorders, heavy metal, juvenile					
				osteoporosis, hypervitaminosis, scurvy, infectious hyperostosis), connective tissues (Ehlers- Danlos, Marfan, Down syndrome), and short stature.					
			A2		20		*		
			A2.42	Understand the diagnosis, and treatment of genetic disorders, including autosomal dominant, autosomal recessive, sex-linked dominant, sexlinked recessive, chromosomal, and multifactorial	38	1	_	*	*
				disorders. Recognize the diseases that can be identified through amniocentesis.					
			A2.43	Understand the diagnostic features of muscular dystrophies (such as Duchenne, Becker, limb Girdle, hypotonic, myotonic), inflammatory myopathies (polio, spinal muscular atrophies,	39	1	*	*	*
				hereditary motor sensory neuropathies), myelodysplasia, spondyloarthropathies, cervical spine					
				(congenital malformations, hypermobility), and spinal deformities (scoliosis, kyphosis,					
			A2.44	spondylosis, and spondylolisthesis). Understand the characteristics & history of trauma.	39	1	*	*	*
		Cortes	A2.45	Understand clinical manifestations of gait disorders and fractures.	39	1	*	*	*
		Senior	A2.46	Manage complex skeletal dysplasias.	39	1			-
			A2.47	Understand the etiology, and diagnosis, of complex hematologic disorders.	39	1		*	*
			A2.48	Recognize cerebral palsy, juvenile rheumatoid arthritis, and complex spinal deformities.	39	1			

			A2.50	Understand, and recognize complex upper limb, leg length, hip, and lower limb deformities and	39	1		*		*
			A2.51	disorders. Understand the clinical manifestations and long-term prognosis of complex gait disorders and fractures.	39	1		*		*
			A2.52	Understand the characteristics, history of complex trauma.	39	1		*		*
	Spine surgery	Junior	A2.53	Evaluate the following conditions via a thorough H&P: [Corvical o Degenerative spondy/ois] o Degenerative spondy/ois] o Andiculpathy/disk, nerniation o Myelopathy of Rheumatold arthritis [I Thoracolumbar o Degenerative spondy/ois] o Spinal stenois	39, 40	2			٠	
				o Spondylolisthesis 8 Systemic o Spinal osteomyelitis o Metastatic spine tumor o Osteoprosis Fractures and dislocations						
			A2.54	dentify appropriate radiographic imaging studies and discuss the advantages and disadvantages of each study vis-à-vis the suspected diagnosis	40	1	*	*		*
			A2.55 A2.56	Obtain a comprehensive history Formulate a differential diagnosis	40 40	2	*	*	*	*
			A2.57 A2.58	Outline the etiology, or possible etiologies of the specific condition Perform any relevant condition-specific physical examination including specific provocative	40 40	1 2	*	*		*
			A2.59 A2.60	maneuvers and tests (e.g., Hoffman's sign, femoral stretch test, etc.) Perform basic radiographic interpretation of spinal radgraphs, CT, and MRI studies Evaluate the status of postoperative patients, including: ®Neurologic status Wound status	40 40	1 1,2	*	*	*	*
		Senior	A2.61	Wound drainage Effectively be able to evaluate the following conditions via a thorough history and physical	40	2				
				examination:						
			A2.62 A2.63	Demonstrate ability to interpret advanced imaging studies such as MRI/CT myelogram Select appropriate diagnostic interventions for patients with postoperative	40	1		*		*
				complications: #Postoperative neurologic deficit #Epidural hematoma #Postoperative wound infection #Postoperative wound infection #Poeep vien thrombosis/pulmonary embolism #Dural tear/cerebrospinal fluid fistula						
	Sports medicine	Junior	A2.64	Perform a physical examination of the shoulder and identify all pertinent anatomic landmarks, quantify range of motion, evaluate glenohumeral stability of the rotator cuff and the	41	2			*	
			A2.65	acromioclavicular (AC) joint Make a clinical diagnosis of the following: adhesive capsulitis, anterior instability, posterior instability, rotator cuff tendinitis, impingement syndrome, AC joint arthrosis, AC joint separation and grade, and biceps rupture.	41	1,2	*	*	*	*
			A2.66 A2.67	Understand the differential diagnosis for anterior knee pain and patellar instability. Be familiar with special radiographic examinations of the leg and thigh including MRI, CT, and	41 42	1 1	*	*		*
			A2.68	nuclear medicine studies Understand the presentation of the following related to the ankle: the different types of Achilles	42	1	*	*		*
			A2.69	tendinitis, the different types of ankle sprains, and ankle instability. Understand the presentation of Panner's disease (OCD of capitellum) and valgus extension	42	1	*	*		
			A2.70	overload Understand the presentation of meniscal cysts and discoid menisci	42	1	*	*		*
			A2.71	Understand the typical history and presentation of anterior or posterior cruciate ligament injuries	42	1	*	*		*
			A2.72	Discuss the possible etiologies of peroneal nerve injury and recognize the signs of peroneal nerve injury.	42	1	*	*		*
			A2.73 A2.74	Identify all pertinent anatomic landmarks of the knee and evaluate knee range of motion. Make a clinical diagnosis of the following related to the shoulder: labral tear and rotator cuff tear.	42 42	1 1	*	*		*
			A2.75	Understand the presentation, and evaluation of common postoperative complications of	42	1	*	*		*
			A2.76	infection and deep venous thrombosis Evaluate and grade knee stability in varus/valgus, anterior/posterior, and rotatory directions	42	1	*	*		*
			A2.77	using appropriate clinical tests Make a clinical diagnosis of the following: ACL tear, PCL tear, MCL injury)tear, lateral collateral ligament injury/tear, chondromalacie patella, patella instability, degenerative arthritis, prepatella bursitis, tibial plateau fracture, quadriceps rupture, patellar tendon rupture, knee dislocation.	42	1	*	*		*
			A2.78 A2.79	Make a clinical diagnosis of the following related to the knee: posterior lateral corner injuries, meniscal tear, loose body, smovitis, plica syndrome, and vastus medialis oblique avulsion Diagnose the following related to the leg and thigh: exertional compartment syndrome, medial tibial stress syndrome, shin splints, gastrocnemius strain/tear, and Malsonneuve	42	1	*	*		*
				fracture/syndesmosis injury. Perform a physical examination of the elbow and identify all pertinent landmarks.	43	2			*	
			A2.81 A2.82	Evaluate range of motion and stability of the elbow joint. Diagnose the following related to the elbow: Lateral epicondylitis, medial epicondylitis, ulnar	43 43	1	*	*	*	*
				nerve entrapment, valgus extension overload, ulnar collateral ligament incompetence, biceps tendinitis or distal rupture, OCD of capitellum, and Olecranon bursitis.						
		Senior	A2.83	Understand the incidence, natural history, cause, historical features, examination findings, classification, of the following key sports-related injuries: 2. Ankle sprains 3. Furt toe 2. Fifth metatarsal fractures 2. Listran injuries 3. Achilles pathology 3. Castroc strains 3. Act linguries 3. Meniscal injuries 3. Meniscal injuries 3. Patelle dislocations and instability 3. Quadriceps mechanism injuries 3. Streads fractures 3. Streads fractures 3. Streads fractures 3. Muthiligament injuries 3. Act sprains and injuries	43, 44	1,2		•	•	
			A2.84	Multidirectional instability Rotator cuff pathology and tears SLAP tears Ultimated and tears SLAP tears Ultimated and tears State and tears Market finger Jarrey finger Understand the incidence, natural history, cause, historical features, examination findings, classification, and return to play issues with the following sports-related injuries: Stoncussion Romicussion Romicussion Romicussion Romicussion Strewisci spin einjuries Stingers Bankles perains Muscle injuries Stress fractures	44	1,2		٠		*

	_					1				
			A2.85	Understand the pre-participation examination and key medical issues in sports medicine:	44	1,2		*	*	*
				≅ Ocular trauma ≅ Asthma						
				☐ Sudden cardiac death ☐ Visceral injury						
				☐ Key infections (mononucleosis, HIV, MRSA, herpes) ☐ Ergogenic aids						
			A2.86	Take a detailed and appropriate injury-specific history and formulate a differential of pathology, appropriate tests to order, and appropriate indications for surgery.	44	2			*	
			A2.87	Understand the presentation and evaluation, of common postoperative complications such as	44	1		*		*
			A2.88	arthrofibrosis. Perform procedures necessary for the treatment of athletic-associated injuries, with a clear	44	2			*	
				understanding of surgical indications. In particular, the resident should feel confident in their ability to perform the following at the conclusion of their rotation:						
				☐ Diagnostic knee arthroscopy ☐ Diagnostic shoulder arthroscopy						
			A2.89	Interpret and synthesize patient history, clinical examination, and diagnostic tests into coherent	44	1		*		1
				diagnoses for each condition						
	Upper extremity	Junior	A2.90	Understand the incidence, natural history, cause, presentation, examination findings, classification, and non-operative and operative indications of the following key shoulder	45	1	*	*		,
				conditions: AC sprains, injuries, and conditions						
				☐ Sternoclavicular injuries ☐ Anterior instability						
				☐ Voluntary instability ☐ Rotator cuff pathology and tears						
				Disorders of the biceps tendon						
				Shoulder fractures: o Clavicle						
				o Distal clavicle o Scapula and glenoid						
				o Proximal humerus fractures: greater tuberosity, lesser tuberosity, surgical neck, head split, 3-part, 4-part, valgus						
				o Impacted 4-part fractures, fracture-dislocation Arthritic conditions of the shoulder:						
				o Osteoarthritis						
				o Rheumatoid arthritis o Avascular necrosis						
				o Traumatic arthritis/arthritis of instability o Rotator cuff arthropathy						
				o Locked dislocations/instability with bone loss o Disorders of the scapula						
				Nerve compression disorders about the shoulder Frozen shoulder						
				☐ Calcific tendonitis						
			A2.91	Know the appropriate shoulder radiographs and further imaging studies that should be ordered and evaluated in all of the above conditions.	46	1	_	•		
			A2.92	Take a detailed and appropriate injury-specific history, formulate a differential of pathology, order appropriate tests, and present the case to the attending.	46	1,2	*	*	*	
			A2.93	Interpret and synthesize patient history, clinical examination, and diagnostic tests into coherent diagnoses for each condition	46	1	*	*		
			A2.94	Understand the presentation, and evaluation of common postoperative complications such as arthrofibrosis, recurrent instability, and re-tear of the rotator cuff.	46	1	*	*		
	Trauma	Junior	A2.95	Understand the diagnosis of orthopaedic trauma and related disorders.	47	1	*	*		_
			A2.96	Understand and develop a systematic approach to the evaluation of trauma patients in all areas of the hospital, including the emergency department, in-patient wards, and clinic.	47	1	*	*		
			A2.97	Classify and correctly work up periarticular injuries including pilon, plateau, distal femur, distal radius, elbow, and shoulder fractures.	47	1	*	*		
			A2.98 A2.99	Classify and correctly work up pelvis and acetabular injuries. Recognize orthopaedic surgical emergencies.	47 47	1 1	*	*		
		Senior	A2.100	Evaluate traumatic fractures, dislocations, and injuries in the emergency department.	47	1	*	*		
		Sellor	A2.101 A2.102	Know the complications of each injury. Know the classification of most skeletal injuries i.e. fractures and dislocations of the shoulder,	48 48	1		*		
	General orthopaedics	All	A2.103	arm, elbow, forearm, wrist, pelvis, acetabulum, femur, knee, ankle, and foot. Discuss the necessary elements of the examination of the orthopaedic patient in the outpatient	31	1	*	*		_
				or clinic setting, including the elicitation of an appropriate history, physical examination techniques, imaging studies, and necessary laboratory studies.						
			A2.104	Demonstrate the assessment of orthopaedic injuries and illnesses commonly encountered in the emergency room, including appropriate physical and imaging examinations, recognition of	31	1	*	*		
				important features of the condition, and the appropriate type of procedure required for initial treatment.						
			A2.105	Demonstrate the appropriate preoperative work-up of orthopaedic patients, including the	31	1	*	*		
				appropriate problem-focused orthopaedic physical examination, functional assessment, and imaging studies.						
			A2.106	Demonstrate physical examination techniques appropriate to the patient's chief complaint and history, and arrange further studies as needed.	31	2	*	*		
			A2.107	Perform a basic interpretation of imaging and laboratory study findings in the context of the patient's history and examination.	31	1	*	*		
			A2.108	Perform an appropriate preoperative screening history and physical examination, and refer the patient for further examinations as needed for preoperative clearance for the procedure in	31	2	*	*		
				question.						
			A2.109	Evaluate and determine appropriate interventions for the orthopaedic and postoperative issues that arise in the care of postoperative patients (i.e., pain control, bleeding and drainage, fever,	32	1	_	•		
			A2.110	traction, and postoperative stabilization). Demonstrate the ability to elicit the presence and location of physical symptoms with cognitively	32	1,2	*	*	*	
			A2.111	impaired patients. Perform a complete and appropriate patient assessment	13	1,2		*	*	
				- Identify and explore issues to be addressed in a patient encounter effectively, including the patient's context and preferences						
				- Elicit a history that is relevant, concise, and accurate with regard to context and preferences for						
				the purposes of prevention and health promotion, diagnosis, and/or management - Perform a focused physical examination that is relevant and accurate for the purposes of						
				prevention and health promotion, diagnosis, and/or management - Select medically appropriate investigative methods in a resource-effective and ethical manner						
				- Demonstrate effective clinical problem-solving and judgment to address patient problems, including interpreting available data and integrating information to generate differential						
			A2.112	diagnoses and management plans Demonstrate proficient and appropriate use of diagnostics procedural skills	13	,				
A3. Management	Arthroplasty	Junior	A3.1	Outline a treatment plan during office sessions, clinic, and rounds for bursal and soft-tissue	32	1		*		_
			A3.2	diseases about the hip/knee and then Explain preoperative planning of standard total hip/knee replacement.	33	1		*		
			A3.3	Based on a careful history and physical examination, the resident will be able to formulate an approach to the evaluation of patients with pain at various intervals after a total hip and knee	33	1		*		
			A3.4	replacement. Understand the perioperative considerations for THA and TKA including preoperative medical	33	1		*		
				evaluation, blood conservation, deep vein thrombosis prophylaxis, and rehabilitation.		:	.			
			A3.5	Explain the rationale for implant selection (type, size, and configuration) for primary THA/TKA cases.	33	'	-			
		Senior	A3.6	Based on the information, be able to propose a treatment plan for these disorders: osteoarthritis (primary and secondary), rheumatoid arthritis, seronegative arthritis, septic arthritis,	33	1		*		
			A3.7	osteomyelitis, PVNS, hemophilic arthropathy, osteonecrosis, and Charcot arthropathy. Propose treatment for patients with anterior knee pain.	33	1		*		
			A3.8	Develop a preoperative plan for revision total hip arthroplasty	33			*		
			A3.9	Manage early & late complications after THA/TKA. Explain the indications for knee fusion and be familiar with various methods of fusion.	33 33	;		*		
			A3.10	Market and the Control of the Contro						
			A3.10 A3.11 A3.12	Make appropriate judgments based on data obtained from ancillary studies Thoroughly comprehend arthroplasty complications and be able to formulate an approach to the	33 34	1		*		
			A3.11			1 1		*		
			A3.11 A3.12	Thoroughly comprehend arthroplasty complications and be able to formulate an approach to the treatment of these problems. Understand the techniques for the surgical treatment of osteolysis about the primary THA and TKA.	34	1 1 1		* *		
			A3.11 A3.12 A3.13	Thoroughly comprehend arthroplasty complications and be able to formulate an approach to the treatment of these problems. Understand the techniques for the surgical treatment of osteolysis about the primary THA and	34	1		* * *		

1.00			A3.17	Preoperatively plan for a cemented or cementless THA/TKA, and be able to competently perform	34	1		*		*
And Committee in the committee of the co				uncomplicated THA/TKA surgery. Perform amputations about the knee pre- and post-arthroplasty.	34				*	
The company of the co			A3.19		34	2			*	
Section 1997 - Sectio									*	
Comment Comm			Δ2 22	stable range of motion.		,		*		
Add an inclusion with the market between (in process and windings only in account of the parties of market and an inclusion of the parties of			A3.23	Perform a complete synovectomy about the THA/TKA.	34	2			*	
Association of the programment o				Explain the rationale for implant selection (type, size, and configuration) for revision THA/TKA		1		*		*
Hermote companies, but all generation formed an agreement (an agreement formed an agreement formed and agreement f			A3.26		34	1		*		*
Section of the company of the compan				femoral component, including cementless femoral components (modular), cementless femoral						
Aug. 1 No. 20				cemented stem, and the tapered femoral component.						
Mean part of the property of the common and price of common and pr				Thoroughly comprehend the principles of THA including: offset, leg length, range of motion,		1		*		*
Associated programment of the promotions. Associated programment of the promotions of the programment of th			A3.29		34	1		*		*
Aut. Action of the designation of the security and explanation of the security of the securit			A3.30	preoperative plans for the procedure.		,		*		*
Auto Carbon province with grant of angle and an angle and any street province										.
Self-Seybourn Despitation projects from Status And other cycles of a Status for the projections of Status And other status and statu				Evaluate patients with painful total joint arthroplasty and make appropriate judgments based on		1,2		*	*	*
And the Text of the Discussion by an of the relatingation of print discuss relations and interesting about the first the date by deep to the company of the										
About 1 Month and the Control of the			A3.33		35	1		*		*
And Service Annual Control of the Co			A3.34	Know the indications for, and the techniques of, soft-tissue releases and neurectomy about the	35	1		*		*
Appl. Ap			A3.35	Have developed not only competence in amputation surgery about the knee but also be able to	35	1		*		*
Approximate the standard of th			A3.36		35	1		*		*
Appl Search by implication of institution of instit			A3.37		35	1		*		*
complex primary and culture registrous, complex primary from configurations, and configurations of complex primary and complex				State the principles of osteotomy for medial and lateral compartment arthritis.		1		*		*
Section Proceedings of the complication of the August scientific flowers without with plant in the complication of the com			.15.39	complex primary acetabular replacement, complex primary femoral replacement, and hip	35	·				
Any contributions, and contributions. Any contributions, and contributions. Any contributions of the contributions of the contributions of part of the contribution gradient of the contribution of contribution gradient of the contribution gradient of contributions and contributions. Any contributions of the contributions			A3.40	Preoperatively plan for complicated TKA surgery including rheumatoid arthritis, flexion	35	1		*		*
Process Proc			A3.41	contractures, and varus or valgus deformities.		2			*	
Asia Per le ver al preferent per les el revenue de la Resemble de la composition del composition de la composition de la composition del composition de la composition del composition del composition del composition del composition del composition del composition d			A3.42	Have the surgical skill to balance the flexion and extension gaps during TKA.	35	2		*	*	.
And programme and extending the chinogous. And programme and extending of the season programme and extending and the season a				Plan for and perform parts of revision of the femoral THA component utilizing cemented,				*	*	*
concorractions, structural granting, become packing, and classing control with all ophychytholeses. Appl. 1 Appl. 2 Appl. 2 Appl. 2 From an incomplete and provided and applications of the structural provided and applications of the struc										
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Audit Profession (Control incidence founds). Audit Profession (Cont				Plan for a femoral or pelvic osteotomy and be able to understand the approach and technique of		1		*		*
Foat and available Author Author Author Foat and available Author Author			A3.48		35	2			*	
Protected and table Well Protected and table A 5-50 A 5-5			A3.49		35	1,2		*	*	*
For set and male and provided to the provided of the provided of the greatery and non-sperately of finition of programs of the provided of the			A3.50	Demonstrate competence in planning these cases and demonstrate proficiency in performing	35	1,2		*	*	*
Assay Understand the treatment of approaches (point operative and non-sport already of tistodo. Assay Understand the treatment of across food. Assay Understand common turners of the food and asked. Assay Understand common turners of the food and asked such as gaint of turners, filtering across and across acro		Junior	A3.51		36	1	*	*		*
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Autor Control of Contr						1 1		*		*
ost, Sjorna, etc. Ay3. Discherated and porform procedures related to the fundamental foot and aniske. Ay3. Discherated and porform procedures related to the fundamental of the control (c.), business than, which share procedures, and the fundamental and porform procedures related to the fundamental control and the share procedures. Ay3.6 Perform procedures related to the indicotic (c., triple arthrodosis, necessition of length and share). Ay3.6 Perform procedures related to the indicotic (c., triple arthrodosis, necessition of length and share). Ay3.6 Perform procedures related to the indicotic (c., triple arthrodosis, necessition of length and share). Ay3.6 Perform procedures related to the indicotic (c., triple arthrodosis, necessition of length and share). Ay3.6 Perform transamptional (c.), ediplicationals, only an amputation, (c.) and arthrodosis, of the anison and anison anis						1 1		*		*
Apply Perform procedure related to the forefore (Ju., burnienctom, distal soft-bissue procedure) 56				cyst, lipoma, etc.		12		*		
fusion with tendon transfer). As do Porton procedures related to the hindfoot (i.e., typie arthrodes), resection of Hagland's deformity, tanal tumel release, planter facula strappear, children tendon inergheming/repail). As descens (COV) of the talax, and earlier fusion. As 20 Perform amputations (i.e., digit and districtions, Syme amputation, lufarine amputation, Chipart all approaches and the fusion. As 30 Perform amputations (i.e., digit and districtions, Syme amputation, lufarine amputation, Chipart all approaches, inclinate companies, and an approaches, and approaches and approaches, and approaches and approaches and approaches, and approaches and approaches and approaches and approaches, and approaches and approaches and approaches, and approaches, and approaches, and approaches, and approaches and approaches, and approaches, and approaches and approaches, and approache				Perform procedures related to the forefoot (i.e., bunionectomy, distal soft-tissue procedure,					*	
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A 546 Perform trauma procedures related to the foot and analle (i.e., open reduction internal fixation (pill) of displaced phalinged instruces, 6110 of Infant nature dislocation, ORI of a state infantures, etc.). Oncology Junior A 546 A work the general principles for using adjavant treatment modalities (radiation therapy and chemotherapy) and the surgical options available for pollutive treatment of mentions and over pathology firstures. A 546 D work the spectrum of beings and malignant on the principles of the surgical presentant of pending and over pathology firstures. A 546 Know the spectrum of beings and malignant necessaries and use of the pallative treatment of a condition encountered in musculosibletated in mocionizes. A 540 Understand the staging systems and classification of surgical procedures utilized by a condition encountered in musculosibletated in mocionizes. A 540 Understand the staging systems and classification of surgical procedures utilized by a condition encountered in musculosibletated in cologists. A 548 Understand the psychological aspects of patient management and the techniques for pain and participles. A 549 Understand the psychological aspects of patient management and appropriate margin and process of the surgical procedures utilized by a considerable and cologists. A 540 Understand the psychological aspects of patient management and appropriate margin and process of the surgical angular ang			A3.62	Perform amputations (i.e., digital disarticulation, Syme amputation, Lisfranc amputation, Chopart	36	2			*	
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A 3-70 Assist in planning of fine needle aspiration, true-cut needle biopsy, and open surgical biopsy in the management of soft-tissue sarcoma. Know how and when each method is optimally utilized. A 3-71 Plan and assist in performing core needle biopsy of bone lesions with coroscopic control and open biopsies of both soft-tissue and bone tumors in the operating room when appropriate to the state of training. A 3-72 Perform surgical procedures for the treatment of benigh bone tumors, benign soft-tissue as tumors, and metastatic disease. A 3-73 Know the surgical options available for the palliative treatment of malignant metastases to bone including the evaluation and treatment of pending and over tpatholicy fractures A 3-74 Understand the management of surgical specimens undergoing light microscopy, immunohistochemistry, and cytogenetics. A 3-75 Identify patient position, surgical approach, and pertinent anamory for each tumor location and the internal fixation, bone grafting, and the use of graft alternatives). A 3-76 Know the reconstructive options suded in the treatment of benigh to microscipe. Sementation, and the surface of the surfa				management in orthopaedic oncology patients.						.
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immunohistochemistry, and cytogenetics. A3-75 Identify patient position, surgical approach, and pertinent anatomy for each tumor location 37 12 * * * * A3-76 Now the reconstructive options following treatment of henign bone tumors (i.e. cementation, internal fixation, bone grafting, and the use of graft alternatives). A3-77 Now the reconstructive options used in the treatment of malignant bone tumors (i.e. allograft, anatograft, arthrodesis, total joint arthroplasties, and composite arthroplasties). A3-78 Understand the advantages and disadvantages of limb salvage vs. amputation in the management of bone and soft-tissue tumors. A3-79 Now the reconstructive options utilized following the treatment of malignant soft-tissue tumors anagement of bone and soft-tissue tumors. A3-80 Plan and perform optimal biopsy procedures utilizing core needle biopsy of soft-tissue masses as an anoutpatient-based procedure. A3-81 Plan and perform core medie biopsy of bone leisons with fluoroscopic control and open biopsies of both soft-tissue and bone tumors in the operating room. A3-81 Formulate as specific treatment plan for a wide spectrum of orthopaedic oncology conditions, both benign and malignant, involving bone and soft-tissue tumors and tumor-like conditions. A3-83 Perform surgical procedures for the treatment of the ringin bone tumors, benign soft-tissue tumors and metastatic disease. Pediatric Anatom A3-84 Now the appropriate local anesthesia or conscious sedation for the safety and comfort of the pediatric patient during outpatient orthopaedic procedures.			A3.73		37	1	*	*		*
A 3-75 Senior A 3-76 Senior A 3-77 Senior A			A3.74		37	1	*	*		*
internal fication, bone grafting, and the use of graft alternatives). A3.77 Know the reconstructive opinion used in the treatment of malignant bone tumors (i.e. allograft, and under a control of the c		Senior		Identify patient position, surgical approach, and pertinent anatomy for each tumor location		1,2	*	*	*	*
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A3-79 Know the reconstructive options utilized following the treatment of malignants of-tissue tumors (i.e. spilt thickness skin grafting, local rotational flaps, and amputation flaps, and amputation flaps, and more than the spile of the s			A3.78	Understand the advantages and disadvantages of limb salvage vs. amputation in the	38	1		*		*
A3.80 Plan and perform optimal biopsy procedures utilizing core needle biopsy of soft-tissue masses as an outpatient-based procedure. A3.81 Plan and perform core needle biopsy of bone lesions with fluoroscopic control and open biopsies of both soft-tissue and bone tumors in the operating room. A3.80 Formulate as specific resamter plan for a wide spectrum of orthopaedic oncology conditions, both benign and malignant, involving bone and soft-tissue tumors and tumor-like conditions. A3.83 Perform surgical procedures for the treatment of benign bone tumors, benign soft-tissue tumors and material and metastatic disease. Pediatric orthopaedics Junior A3.84 Know the appropriate local anesthesia or conscious sedation for the safety and comfort of the pediatric patient during outpatient orthopaedic procedures.			A3.79	Know the reconstructive options utilized following the treatment of malignant soft-tissue tumors $\frac{1}{2} \int_{\mathbb{R}^{n}} \frac{1}{2} \int_{\mathbb{R}$	38	1		*		*
A3.81 Plan and perform core needle biopsy of bone lesions with fluoroscopic control and open biopsies of both soft-tissue and bone tumors in the operating room. A3.82 Formulate a specific treatment plan for a wide spectrum of orthopaedic oncology conditions, both benign and malignant, involving bone and soft-tissue tumors and tumor-like conditions. A3.83 Perform surgical procedures for the treatment of benign bone tumors, benign soft-tissue tumors as and metastatic disease. Pediatric Junior A3.84 Now the appropriate local anesthesia or conscious sedation for the safety and comfort of the pediatric patient during outpatient orthopaedic procedures.			A3.80	Plan and perform optimal biopsy procedures utilizing core needle biopsy of soft-tissue masses as	38	1,2		*	*	*
A 3,83 Sormulate a specific treatment plan for a wide spectrum of orthopaedic oncology conditions, both benign and malignant, involving bone and soft tissue tumors and tumor-like conditions. A 3,83 Perform surgical procedures for the treatment of benign bone tumors, benign soft-tissue tumors 3,8 2 ** Pediatric Junior A 3,84 Nnow the appropriate local anesthesia or conscious sedation for the safety and comfort of the pediatric patient during outpatient orthopaedic procedures.			A3.81	Plan and perform core needle biopsy of bone lesions with fluoroscopic control and open biopsies	38	1,2		*	*	*
both benign and malignant, involving bone and soft-tissue tumors and tumor-like conditions. A3-83 Perform surgical procedures for the reatment of benign bone tumors, benign soft-tissue tumors and and metastatic classes. Pediatric Junior A3-84 Now the appropriate local anesthesia or conscious sedation for the safety and comfort of the pediatric patient during outpatient orthopaedic procedures.			A3.82	Formulate a specific treatment plan for a wide spectrum of orthopaedic oncology conditions,	38	1		*		*
and metastatic disease. Pediatric Junior A3.84 Now the appropriate local anesthesia or conscious sedation for the safety and comfort of the corthopaedics pediatric patient during outpatient orthopaedic procedures.										
orthopaedics pediatric patient during outpatient orthopaedic procedures.			A3.83		38	2			*	- 1
				Perform surgical procedures for the treatment of benign bone tumors, benign soft-tissue tumors and metastatic disease.					*	
		Junior	A3.84	Perform surgical procedures for the treatment of benign bone tumors, benign soft-tissue tumors and metastatic disease. Know the appropriate local anesthesia or conscious sedation for the safety and comfort of the pediatric patient during outpatient orthopaedic procedures.	38		*	*	*	*

		A3.86	Understand the management of constitutional diseases with bone pathology (rickets,	38	1	*	*		*
		,	ounces and use intelligence to construction diseases with color participally color participally incomply (notes.) metabolic (fickets, stocemal, renal osteodystrophy, hypophosphatemia, parathyroid or thyroid disorders, heavy metal, juvenile osteodystrophy, hypophosphatemia, parathyroid or thyroid disorders, heavy metal, juvenile osteoprosis, hypovitaminosis, scurvy, infectious hyperostosis), connective tissues (Ehlers-Danios, Marfan, Down syndrome), and short stature.	,					
		A3.87	Understand the treatment of genetic disorders, including autosomal dominant, autosomal recessive, sex-linked dominant, sexlinked recessive, chromosomal, and multifactorial disorders.	38	1	*	*		*
		A3.88	Recognize the diseases that can be identified through amniocentesis. Understand the management of muscular dystrophies (such as Duchenne, Becker, limb Girdle, hypotonic, myotonic), inflammatory myopathies (polio, spinal muscular atrophies, hereditary	39	1	*	*		*
			motor sensory neuropathies), myelodysplasia, spondyloarthropathies, cervical spine (congenital malformations, hypermobility), and spinal deformities (scoliosis, kyphosis, spondylosis, and						
Pediatric	Senior	A3.89	spondylolisthesis). Understand management, and indications of surgery for trauma.	39	1	*	*		*
orthopaedics	Sellor	A3.90	Understand the management of complex neuromuscular disorders. Manage complex upper limb, leg length, hip, and lower limb deformities and disorders.	39	1		*		*
		A3.92 A3.93	Understand the treatment of complex gait disorders and fractures. Understand the management, and indications for additional treatment of complex trauma.	39 39	1		*		*
		A3.94 A3.95 A3.96	Manage complex skeletal dysplasias. Understand the treatment of complex hematologic disorders. Treat, in conjunction with a multidisciplinary team, cerebral palsy, juvenile rheumatoid arthritis,	39 39 39	1 1		*		* *
Spine surgery	Junior	A3.97	and complex spinal deformities. Describe appropriate non-operative treatment options (if they exist)	40	1	*	*		*
		A3.98 A3.99	Describe appropriate operative treatment options (if they exist) Describe possible complications of non-operative and operative treatment	40 40	1	*	*		*
		A3.100	Outline the rehabilitation program involved in non-operative and operative treatment Demonstrate competence in the operating room to:	40	1 2	*	*		*
			Position patients for anterior and posterior procedures						
		A3.102	Apply postoperative dressing Perform simple invasive procedures including:	40	2			*	
			Initial surgical dissection of the posterior approach to cervical or lumbar spine Iliac crest bone graft harvest Insertion of lumbar pedicle screws excluding scoliosis						
Spine surgery	Senior	A3.103	Discuss various surgical approaches relevant to spinal disorders and formulate an appropriate surgical plan	41	1		*		*
		A3.104	Perform surgical procedures:	41	2			*	
			B Lumbar microdiscectomy B Anterior cervical discectomy B Lumbar laminectomy						
			o or 2-level instrumented lumbar fusion B Posterior cervical fusion with lateral mass screws between C3 and C6						
		A3.105	Select appropriate therapeutic interventions for patients with postoperative complications: B Postoperative neurologic deficit	41	1		*		*
			© rostoperative neurologic denot B Epidural Hematoma B Postoperative wound infection						
			Deep vein thrombosis/pulmonary embolism Dural tear/cerebrospinal fluid fistula						
Sports medicine	Junior	A3.106	Describe the rationale for non-operative treatment of the following pathologic entities related to the shoulder: rotator cuff tendinitis/tear/impingement, glenohumeral instability, adhesive	41	1				
		A3.107 A3.108	capsulitis Understand physical therapy modalities in general sports medicine Understand and weigh surgical risks and potential benefits for each patient for each surgical	41 41	1	*	*		* *
		A3.109	procedure considered. Describe the indications and rationale for the following procedures related to the shoulder	41	1	*	*		*
			(describe both open and arthroscopic variations of the procedure, indication for each, and rehabilitation protocol): rotator cuff repair, subacromial decompression, stabilization procedures, Mumford procedure.						
		A3.110 A3.111	Understand the treatment for anterior knee pain and patellar instability. Know the indications for the following procedures related to the shoulder: distal clavicle excision	41 42	1	*	*		*
		A3.112	and open decompression. Be familiar with the various types of knee braces	42	1	*	*		*
		A3.113 A3.114	Understand the healing potential and current treatment options of meniscal tears and chondral defects. Understand the non-operative treatment of patella tendinitis, saphenous neuritis, and MCL	42	1	*	*		*
		A3.115	sprains Understand the postoperative rehabilitation of meniscal repairs and ACL reconstructions	42	1	*	*		*
		A3.116	Understand the treatment of common postoperative complications of infection and deep venous thrombosis Understand the paper possible treatment of the following related to the public Personal or	42	1	*	*		*
		A3.117 A3.118	Understand the non-operative treatment of the following related to the ankle: Peroneal or posterior tibialis tendinitis, ankle sprains, Achilles tendinitis, ankle instability Understand the presentation and the non-operative treatment of the following related to the	42	1	*	*		*
			elbow: lateral epicondylitis, medial epicondylitis, ulnar collateral ligament sprains, ulnar neuritis, olecranon bursitis, and radial head fractures.						
		A3.119	Diagnose and describe the nonoperative treatment of the following related to the thigh/leg: quadriceps contusion, hamstring strain/tear, quadriceps strain/tear, hip flexor/adductor strain/tear, stress fracture of the femur or thiba, ship solitist, and eastronemius strain/tear.	42	1	*	*		*
		A3.120	straintear, stress fracture of the temur or tibia, shin splints, and gastrocnemius straintear. Know the indications for the following procedures related to the knee: diagnostic arthroscopy, arthroscopic debridement, partial meniscectomy, abrasion chondroplasty, and patellar tendon	42, 43	1	*	*		*
		A3.121	repair. Know the indications for and be able to perform the following procedures related to the	43	1,2	*	*		
		A3.122	leg/thigh: Compartment releases: Anterior, lateral, and posterior. Know the indications for the following procedures related to the elbow: diagnostic arthroscopy,	43	1	*	*		*
		A3.123	tennis elbow debridement, ORIF fractures, Olecranon bursa debridement/drainage. Describe the non-operative treatment of exertional compartment syndrome, medial tibial stress syndrome, and stress and traumatic fractures of the tibia and fibula.	43	1	*	*		*
		A3.124	Perform the following procedures related to the elbow: reduction of dislocation, and saline arthrogram.	43	2			*	
Sports medicine	Senior	A3.125	Understand the non-operative, and operative management of the following key sports-related injuries:	43, 44	1		*		*
			Ankle sprains Turf toe Fifth metatarsal fractures						
			☐ Lisfranc injuries ☐ Achilles pathology						
			2 Gastroc strains 2 ACL injuries						
			Meniscal injuries Osteochondral defects and cartilage injuries Patellofemoral pain syndrome						
			☐ Patella dislocations and instability ☐ Quadriceps mechanism injuries						
			B Hamstring injuries B Stress fractures						
			Multiligament injuries AC sprains and injuries Anterior instability						
		A3.126	Multidirectional instability Rotator cuff pathology and tears						
			☐ SLAP tears ☐ Throwing injuries						
			8 Uinar collateral ligament injuries B Distal biceps ruptures Gamekeeper's injury						
			B Mallet finger 3 Jersey finger						
		A3.127	Be familiar with the various types of knee braces	44	1	I	*		*

			A3.128	Demonstrate a thorough knowledge of the surgery; surgical approach; and the reasoning, biomechanics, placement, and technique of the surgical reconstructions/repair and implants	44	1		*		*
			A3.129	used. Understand the postoperative protocols for various surgeries and the decision to return to full	44	,		*		
			A3.130	activity.	44	1				.
			A3.131	Understand the treatment of common postoperative complications such as arthrofibrosis. Perform procedures necessary for the treatment of athletic-associated injuries, with a clear	44 44	2			*	
				understanding of surgical indications. In particular, the resident should feel confident in their ability to perform the following at the conclusion of their rotation:						
				☐ Diagnostic knee arthroscopy ☐ Partial meniscectomy						
				Microfracture Graft harvest and preparation for ACL surgery						
				☐ Notchplasty in ACL surgery						
				☐ Creation of bony tunnels for ACL reconstruction ☐ Achilles repair, patella tendon, or quadriceps tendon repair						
				☐ Diagnostic shoulder arthroscopy						
				☐ Biceps tenotomy	45					
				☑ Placement of suture anchors in instability or SLAP lesions						
				□ Passage of suture through the capsule and/or labrum □ Tying arthroscopic suture knots						
				Subacromial decompression Mumford procedure						
			A3.132	☐ Placement of suture anchors in rotator cuff tears Understand rotator cuff repair suture management	45	1		*		
			A3.133	First assist and anticipate all steps of an arthroscopic rotator cuff repair	45	1,2		*	*	*
	Upper extremity	Junior	A3.134	Demonstrate detailed knowledge of the anatomical structures of the shoulder and know all surgical approaches to the shoulder	45	1	*	*		* :
			A3.135	Understand the i non-operative and operative indications of the following key shoulder conditions:	45	1	*	*		*
				☐ Sternoclavicular injuries ☐ Anterior instability						
				□ Posterior instability □ Multidirectional instability						
				☑ Voluntary instability ☑ Rotator cuff pathology and tears						
				☐ Disorders of the biceps tendon ☐ Shoulder fractures:						
				o Clavicle						
				o Distal clavicle o Scapula and glenoid						
				o Proximal humerus fractures: greater tuberosity, lesser tuberosity, surgical neck, head split, 3-part, 4-part, valgus						
				o Impacted 4-part fractures, fracture-dislocation						
				o Rheumatoid arthritis o Avascular necrosis						
				o Traumatic arthritis/arthritis of instability o Rotator cuff arthropathy						
				o Locked dislocations/instability with bone loss						
				o Disorders of the scapula Nerve compression disorders about the shoulder						
				☐ Frozen shoulder ☐ Calcific tendonitis						
			A3.136	Have a thorough knowledge of the surgery; surgical approach; and the reasoning, biomechanics,	46	1	*	*		*
				placement, and technique of the surgical reconstructions/repair and implants used.						
			A3.137	Understand the postoperative protocols/decision-making for the postoperative care of rotator cuff, instability, fracture, and shoulder replacement surgeries	46	1	*	*		*
			A3.138	Understand the treatment of common postoperative complications such as arthrofibrosis,	46	1	*	*		*
			A3.139	recurrent instability, and re-tear of the rotator cuff. Appropriately position the patient for surgery	46	1,2	*	*		*
			A3.140 A3.141	Understand and perform closed reduction of an anterior or posterior shoulder dislocation In particular, feel confident in their ability to perform the following at the conclusion of their	46 46	1,2 1,2	*	*	*	*
				rotation: ☐ Gain entry to the joint						
				☐ Establish the anterior portal						
				☐ Probe all structures ☐ Appropriately place the scope in the subacromial space						
				☐ Understand suture management in rotator cuff and instability surgery ☐ First assist and anticipate all steps of an arthroscopic rotator cuff repair/instability surgery						
				□ Understand the approaches to open shoulder surgery and when to use each □ Know the appropriate retractors and when to use each for open shoulder surgery						
				☐ Understand/anticipate and know how to assist in fracture fixation, humeral head replacement, total shoulder arthroscopy						
				□ Understand the steps to expose the glenoid and know how to retract/assist in this aspect						
				 ☑ Understand the steps, concepts, and approaches to bone loss instability ☑ Expose, reduce with assistance, and plate a clavicle fracture 						
	Upper extremity	Senior	A3.142	Discuss non-operative treatment options for all of the above-listed shoulder conditions.	46	1		*		*
	· ·		A3.143	Understand the influence of bone loss in instability cases and how it affects surgical decision making.	46	1		*		*
			A3.144	Know the reconstructive options used in the treatment of AC instability,	46	1		*		*
			A3.145	anterior/posterior/multidirectional instability, rotator cuff tears, and biceps pathology. Know the reconstructive options that are available for the treatment of shoulder arthritis, as well	46	1		*		
				as cuff arthropathy, and understand the different indications for total shoulder arthroplasty, humeral head replacement, and reverse total shoulder arthroplasty.						
			A3.146	Know the fixation options and be able to discuss the reasoning for how to treat fractures of the proximal humerus, clavicle, distal clavicle, glenoid, and scapula.	46	1		*		*
			A3.147	Understand tuberosity reconstruction in a 4-part proximal humerus fracture	47	1		*		:
			A3.148	Understand and be able to discuss the thought process and work-up for the treatment of more complex shoulder problems, in particular revision shoulder surgeries and failed surgery with	47	1		-		-
			A3.149	complications. Perform a diagnostic shoulder arthroscopy	47	2			*	
			A3.150 A3.151	Perform a biceps tenotomy Perform a deltopectoral approach down to the subscapularis	47 47	2 2			:	
			A3.152	Perform a subacromial decompression Takedown of the subscapularis	47	2			:	
			A3.154	Perform a distal clavicle resection (Mumford procedure)	47 47	2			*	
			A3.155 A3.156	Place suture anchors in instability or SLAP lesions Passage of suture through the capsule and/or labrum	47 47	2				
			A3.157 A3.158	Tie arthroscopic suture knots Place suture anchors in rotator cuff tears	47 47	2				
				Understand rotator cuff repair suture management First assist and anticipate all steps of an arthroscopic rotator cuff repair	47	1		*		*
			A3.161	Pass suture through the rotator cuff arthroscopically	47	2			*	
			A3.162 A3.163	Perform the osteotomy and placement of the humeral component in a TSA Understand and know how to perform the releases to expose the glenoid	47 47	2 1,2		*	*	
	Trauma	Junior	A3.164 A3.165	Perform the reduction maneuver and plating of proximal humerus and clavicle fractures Classify and correctly work up periarticular injuries including pilon, plateau, distal femur, distal	47 47	1	*	*	*	*
				radius, elbow, and shoulder fractures.			*	*		.
			A3.166 A3.167	Classify and correctly work up pelvis and acetabular injuries. Understand the treatment methods for major joint dislocations, including when to order	47 47	1	*	*		*
			A3.168	adjunctive tests including angiograms. Manage patients on the orthopaedic trauma service under the direction of the senior resident or	47	1	*	*		
				consultant. Demonstrate effective patient management skills in both the inpatient and outpatient settings.	47	1	*	*		.
			A3.170	Demonstrate appropriate management of major joint dislocations.	47	1	*	*		:
			A3.171	Understand the management of orthopaedic trauma and related disorders.	47	1		-		

				A	To 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							1
				A3.172 A3.173	Develop the proper thought processes in regard to order of care of the multiply injured patient. Understand the decision to advance from splint stabilization to operative stabilization via	47 47	1 1		*		*	
				A3.174	external fixator for periarticular injuries. Advance understanding of appropriate patient positioning and operating room setup.	48	1	*	*		*	
					Demonstrate appropriate reduction techniques for basic fractures, including distal radius,	48	2			*		
				A3.176	forearm, humerus, tibial shaft, ankle, and foot fractures. Apply proper splinting techniques for fractures.	48	2			*		
				A3.177	Advance basic surgical techniques, including suturing and wound management. Advance skill in the treatment of basic fractures including antegrade femoral and tibial nailing;	48	2 2					
					retrograde femoral nailing; ORIF of the distal radius, both bone forearm, and ankle fractures	48						
				A3.179	Understand and apply proper techniques in the placement of external fixators that span the knee and ankle.	48	1,2	*	*	*	*	
			Senior	A3.180	Understand the priorities for initial management, triage, and initial stabilization of skeletal	48	1		*		*	
				A3.181	injuries in the multiply injured patient. Know the indications for various methods of operative and non-operative treatment of various	48	1		*		*	
					injuries and learn to use clinical data to select a treatment method. Understand the postoperative management of trauma patients.		1					
				A3.183	Discuss the treatment options, prioritize, and initially stabilize musculoskeletal trauma.	48 48	1		*		*	
				A3.184	Become competent in the definitive management of basic fractures, i.e. long bone shaft fractures, hip fractures, ankle fractures, and fractures of the distal radius.	48	1,2		*	*	*	
				A3.185	Demonstrate advancing competence in the management of pelvis, acetabulum, and periarticular	48	1,2		*	*	*	
				A3.186	fractures. Show advanced knowledge in the use of external fixation for definitive and temporary	48	1,2		*	*	*	
					stabilization.							-
		General orthopaedics	: All	A3.187	Determine the appropriate local anesthesia or conscious sedation for the comfort of the patient during emergency room orthopaedic procedures.	31	1	*	*		*	
				A3.188	Describe the treatment options (operative and non-operative, where appropriate) available to the patient based on pertinent findings of the patient assessment, be able to explain the	31	1	*	*		*	
					advantages and disadvantages of the options to the patient and family, and recommend							
					appropriate care for the patient's condition.							
				A3.189	Understand the short- and long-term outpatient follow-up for patients appropriate to their conditions.	31	1	*	*		*	
				A3.190	Demonstrate the management of orthopaedic injuries and illnesses commonly encountered in	31	1	*	*		*	
					the emergency room, including appropriate physical and imaging examinations, recognition of important features of the condition, and the appropriate type of procedure required for initial							
					treatment.							
				A3.191	Demonstrate the manual techniques for initial management of commonly encountered orthopaedic and hand problems in the emergency room (i.e., reduction of fractures and	31	2			*		
					dislocations, treatment of lacerations involving the joint or tendon, examination of soft-tissue							
				A3.192	injuries to the joint or muscle, and aspiration of the joint or fluid collection. Demonstrate appropriate immobilization and dressing techniques for commonly encountered	31	2			*		
					orthopaedic problems.		1,2	*	*		*	
				A3.193	Evaluate and determine appropriate interventions for the orthopaedic and postoperative issues that arise in the care of postoperative patients (i.e., pain control, bleeding and drainage, fever,	32	',-2	•				
				A3.194	traction, and postoperative stabilization). Participate in the definitive management, including surgical intervention when appropriate, of	32	2					
				, ,,	conditions commonly encountered by the general orthopaedist (i.e., traumatic injuries of the	<i></i>						
					spine and extremities; arthritic conditions involving the spine and extremities; orthopaedic infections; acute and chronic sports injuries involving bone, muscle, ligament, and tendons).							
				A3.195	Recommend and arrange, as necessary, appropriate postoperative or postprocedure care	32	1	*	*		*	
					including pain control, activity status including immobilization and/or therapeutic exercise, wound management, and appropriate nursing or custodial care for orthopaedic patients upon							
					discharge.							
				A3.196	Implement an effective management plan in collaboration with a patient and their family - Demonstrate effective, appropriate, and timely application of therapeutic interventions relevant	13	1	*	*		*	
					to orthopaedic surgery							
				A3.197	- Ensure patients receive appropriate end-of-life care Demonstrate proficient and appropriate use of theraputic procedural skills relevant to	13	1,2	*	*		*	
					orthopaedic surgery							
				A3.198	- Ensure adequate follow-up is arranged for procedures performed Ensure appropriate informed consent is obtained for therapies	13	1	*	*		*	
					Respond to individual patient health needs and issues as part of patient care	17	1 1	*	*		*	
					☐ Identify the health needs of an individual patient ☐ Adapt patient management according to particular determinants of health							
							1	*	*		*	
				A3.200	Adapt patient management according to particular determinants of health Determine a patient's ability to access various services in the health and social systems Demonstrate proficient and appropriate use of procedural skills in both diagnostic and therapeutic procedures relevant to orthopaedic surgery	13	1	*	*		*]
	A4. Health Promotion & Illness Prevention			A3.200	B.Adapt patient management according to particular determinants of health Determine a patient's ability to access various services in the health and social systems Demonstrate proficient and appropriate use of procedural skills in both diagnostic and		1	*	*		*	-
				A3.200 A4.1 A4.2	B.Adapt patient management according to particular determinants of health Determine a patient's ability to access various services in the health and social systems Demonstrate proficient and appropriate use of procedural skills in both diagnostic and therapeutic procedures relevant to orthopaedic surgery Understand the perioperative considerations for THA and TKA including blood conservation, deep view thrombosis prophylaxis, and rehabilitation. Use preventive and therapeutic interventions effectively	13	1 1,2	*	*	•	*	
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				A3.200 A4.1 A4.2 A4.3 A4.4 A4.5	B.Adapt patient management according to particular determinants of health Determine a patient's ability to access various services in the health and social systems Demonstrate proficient and appropriate use of procedural skills in both diagnostic and therapeutic procedures relevant to orthopaedic surgery Understand the perioperative considerations for THA and TKA including blood conservation, deep vein thrombosis prophiasts, and rehabilitation. Use preventive and therapeutic interventions effectively Demonstrate effective, appropriate, and timely application of preventive and therapeutic interventions relevant to orthopaedic surgery Cermulate an approach to prevention of thoroughly comprehend arthroplasty complications. Determine the appropriate local anesthesis or conscious sedation for the safety of the patient during emergency room orthopaedic procedures.	13 33 13 13 34 31	1 1,2 1,2 1	* * * * *	* * * * *	* *	* * * * * *	
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			B12	Convey relevant information and explanations accurately to patients and families, colleagues, and other professionals 2D eliver information to a patient and family, colleagues, and other professionals in a humane manner and in such a way that it is understandable and encourages discussion, and participation	14	2,3			*		
				in decision-making © Demonstrate effective, age appropriate communication of treatment plans to pediatric patients © Demonstrate cooperation and communication between health professionals involved in the care of individual patients such that consistent messages are delivered to patients and their							
				families							
			B13	Develop a common understanding on issues, problems, and plans with patients, families, and other professionals to develop a shared plan of care [Identify and explore problems to be addressed from a patient encounter effectively, including	14	2,3			•		
				# dearning and explore problems to be addressed from a patient encounter effectively, including the patient's context, responses, concerns, and preferences # Respect diversity and differences in decision-making							
			B14	Encourage discussion, questions, and interaction in the encounter Engage patients, families, and relevant health professionals in shared decision-making to	15	2					
				develop a plan of care Address challenging communication issues effectively, such as obtaining informed consent;	,						
				delivering bad news; and addressing anger, confusion, and misunderstanding B Obtain informed consent for surgical procedures, appreciating alternative means of achieving							
				consent if the patient is unable to provide consent on the grounds of age, mental status, or other disqualifiers							
			B15 B16	Document and disseminate information related to procedures performed and their outcomes Ensure informed consent is obtained for procedures	13	2 2 2			:		
			B17	Perform consultation effectively, including the presentation of well-documented assessments and recommendations in written and/or verbal form in response to a request from another health care professional	12	2			-		
			B18 B19	Use information technology to optimize learning. Convey effective oral and written information about a medical encounter	32 15	2 2			*		
				Maintain clear, concise, accurate, and appropriate records (written or electronic) of clinical encounters and plans	,						
				Write well-organized and legible orders and progress notes Complete concise hospital discharge summaries promptly							
				Write well-organized letters, providing clear directions where indicated Present verbal reports of clinical encounters and plans effectively							
			B20	Function effectively as consultants, integrating all of the CanMEDS roles to provide optimal, ethical, and patient-centered medical and surgical care	12	1,2,3	*	*	•	*	
				- Demonstrate the ability to effectively and appropriately prioritize professional duties when faced with multiple patients and problems - Demonstrate compassionate and patient-centered care							
C. Collaborator			C1	- Definition and respond to the ethical dimensions in medical decision-making Coordinate the care of patients with consulting services.	47	2			*		
			C2 C3	Demonstrate respectful collaboration with their peers and allied health staff. Seek appropriate consultation from other health professionals, recognizing the limits of their	9/ 32 13	2 2			*		
				expertise - Demonstrate insight into their own limitations of expertise	,						
				- Demonstrate effective, appropriate, and timely consultation of another health professional as needed for optimal patient care							
			C4	Seek appropriate consultation from other health professionals, recognizing the limits of their expertise	13	2			*		
		-	C5	- Arrange appropriate follow-up care services for a patient and their family - Demonstrate appropriate transfer of care of a patient to tertiary care where applicable - Participate effectively and appropriately in an interprofessional healthcare team	15	1,2	*	*			
			65	Bescribe the specialist's roles and responsibilities to other professionals Describe the roles and responsibilities of other professionals Describe the roles and responsibilities of other professionals within the health care team	15	1,2					
				Recognize and respect the diversity of roles, responsibilities and competences of other professionals in relation to their own							
				☐ Recognize the limitations of their professional competence ☐ Work with others to assess, plan, provide and integrate care for individual patients							
				educational work, program review or administrative responsibilities @ Participate in morbidity and mortality reviews							
				B Participate effectively in interprofessional team meetings Enter into interdependent relationships with other professions for the provision of quality care Describe the principles of team dynamics							
				Respect team ethics, including confidentiality, resource allocation and professionalism Demonstrate leadership in a healthcare team							
			C6	Work effectively with other health professionals to prevent, negotiate, and resolve interprofessional conflict	15	2			*		
				© Demonstrate a respectful attitude towards other colleagues and members of an interprofessional team							
			C7	2 Work with other professionals to prevent conflicts 2 Employ collaborative negotiation to resolve conflicts 3 Respect differences and address misunderstandings and limitations in other professionals	16	2,3			-		
				Recognize one's own differences, misunderstanding and limitations that may contribute to interprofessional tension							
D. Leader		Senior	D1	Reflect on interprofessional team function Organize and make good judgments and quick decisions.	33	3					
			D2 D3	Demonstrate the ability to coordinate the care of a musculoskeletal trauma service.	48 48	3 2					
		All	D4	Demonstrate the ability to effectively manage the responsibilities of on-call duty, including supervision and instruction of the junior residents.	31	2,3					
			D5	Instruct and consult on the evaluation of emergency room patients and oversee the effective triage of patients with injuries or illnesses that are considered to be orthopaedic emergencies (i.e. acute or imminent early disease infections, open fractures compartment syndrome etc.)	31	2					
			D6	(i.e., a cute or imminent septic disease, infections, open fractures, compartment syndrome, etc.). Understand the limits of his or her own knowledge and of the available facilities for managing orthopaedic patients, and arrange consultation with more experienced or specialized personnel	31	3					
			D7	and appropriate facilities as needed. Instruct and supervise the junior residents in pursuit of their goals and objectives.	31	2,3					
			D8	Instruct and supervise the junior residents in the appropriate techniques for general orthopaedic procedures.	31	2,3					
			D9	Analyze practice using quality improvement methods, and implement changes with the goal of practice improvement.	32	1,2	*	*	*	*	
			D10	Demonstrate an understanding of the cost/benefit of prescriptions and tests ordered. Justify continued length of stay in an acute care setting based on clinical findings and available benchmark data.	32 32	3 1	*	*		*	
			D12 D13	Act in a consultative role to other physicians and health professionals. Follow hospital guidelines when completing all discharge and operating room reports.	32 32	2,3 3					
			D14 D15	Understand how the healthcare organization affects surgical practice. Follow the established practices, procedures, and policies of the department and affiliated	32 32	1 3	*	*			
			D16	hospitals. Function effectively as consultants, integrating all of the CanMEDS roles to provide optimal,	12	1,2,3	*	*	*	*	
			D18	ethical, and patient-centered medical and surgical care -Identify and appropriately respond to relevant ethical issues arising in patient care Demonstrate the ability to effectively and appropriately prioritize professional duties when faced	12	3					
			_10	benions date the ability to effectively and appropriately profits professional duties when faced with multiple patients and problems - Demonstrate compassionate and patient-centered care							
			D20	 Recognize and respond to the ethical dimensions in medical decision-making Contribute to the enhancement of quality care and patient safety in orthopaedic surgery, 	13	1,2		*			
			D21	integrating the available best evidence and best practices Seek appropriate consultation from other health professionals, recognizing the limits of their	13	1	*	*		*	
				expertise - Describe the limitations of practice in a community setting based on resources							
			D22	Allocate finite healthcare resources appropriately 8 Recognize the importance of just allocation of healthcare resources, balancing effectiveness,	16	1	*	*		*	
				Efficiency, and access with optimal patient care Apply evidence and management processes for cost-appropriate care							
	'										

	D23	Participate in activities that contribute to the effectiveness of their healthcare organizations and	16	1,2,3	*	*		*	
		systems Work collaboratively with others in their organizations							
		Participate in systematic quality process evaluation and improvement, such as patient safety							
		initiatives Bescribe the structure and function of the healthcare system as it relates to orthopaedic							
		surgery, including the roles of physicians Explain population-based approaches to healthcare services and their implication for medical							
		practice							
	D24	Manage their practice and career effectively Bet priorities and manage time to balance patient care, practice requirements, outside	16	1,2	*	*		*	
		activities, and personal life							
		☐ Manage patients' length of stay efficiently ☐ Manage surgical waiting lists efficiently							
		Manage a practice including finances and human resources where applicable							
		Explain the principles of practice management including independent practice, hospitalbased practice, or group practice							
		Describe basic principles of providing/receiving references							
		Demonstrate an ability to access and apply a broad base of information to the care of patients in hospitals and other healthcare settings							
		☐ Employ information technology appropriately for patient care							
	D25	Serve in administration and leadership roles B Chair or participate effectively in committees and meetings	17	1,2					
		☐ Lead or implement change in healthcare							
	D26	Plan relevant elements of healthcare delivery (e.g., work schedules) Maintain and enhance professional activities through ongoing learning	18	1,2					
		☐ Describe re-registration requirements for the Saudi Commission for Health Specialties							
		☐ Formulate relevant personal learning projects ☐ Recognize and reflect on learning issues in practice							
		Pose an appropriate learning question							
		☐ Access and interpret the relevant evidence ☐ Integrate new learning into practice							
		Recognize and correct deficits in knowledge and technical skills through targeted learning							
		☐ Evaluate the impact of any change in practice ☐ Document the learning process							
	D27	 	19	1,2	*	*	*	*	
	D28	Demonstrate a commitment to their patients, profession, and society through participation in	19	1,2,3	*	*	*	*	
		profession-led regulation Appreciate the professional, legal, and ethical codes of practice							
		Fulfill the regulatory and legal obligations required of current practice							
		☐ Describe the medico-legal obligations associated with non-accidental trauma in children ☐ Demonstrate accountability to professional regulatory body							
		Recognize and respond to others" unprofessional behaviors in practice							
	D29	Participate in peer review Demonstrate a commitment to physician health and sustainable practice	20	3					
	9	Balance personal and professional priorities to ensure personal health and a sustainable	0	 					
		practice B Strive to heighten personal and professional awareness and insight							
		Recognize other professionals in need and respond appropriately							
E. Health Advocate	E1	Allocate finite healthcare resources appropriately Becognize the importance of just allocation of healthcare resources, balancing effectiveness,	16	1					
		efficiency, and access with optimal patient care							
	E2	Respond to the health needs of the communities that they serve Identify opportunities for advocacy, health promotion, and disease prevention in the	17	3					
	-	communities that they serve, and respond appropriately							
	E3	Identify the determinants of health for the populations that they serve Identify the psychological, social, and physical determinants of health for the populations that	17	1,2		-		-	
		they serve, including barriers to access to care and resources Bldentify "at-risk" populations within a given orthopaedic practice in conjunction with							
		orthopaedic surgery specialty societies and other associations							
		Identify vulnerable or marginalized groups within the population served and respond appropriately							
		Apply available knowledge regarding prevention to "at-risk" groups							
		Contribute to the generation of population-based data for improved understanding of orthopaedic problems within "at-risk" populations							
	E4	Promote the health of individual patients, communities, and populations	17	1	*	*		*	
		Describe an approach to implementing a change in a determinant of health for the populations they serve							
•	E5	☐ Explain the need to advocate to decrease the burden of illness (at a community or societal	18	1	*	*		*	
		level) of a condition or problem relevant to orthopaedics through a relevant orthopaedic society,							
II .		community-based advocacy group, other public education bodies, or private organizations			l .				
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