

Joint Committee on Intercollegiate Examinations

Intercollegiate Specialty Examination in Trauma & Orthopaedic Surgery

Syllabus Blueprint 2023

The Royal College of Surgeons of Edinburgh
Nicolson Street Edinburgh EH8 9DW
Tel: 0131 662 9222
www.jcie.org.uk

Principles for Blueprinting Assessment to the Curriculum in Surgical Specialties

1. Standard educational practice requires a curriculum to include an indication of how each aspect of the syllabus is to be assessed. This “blueprinting” process also shows how each aspect relates to Good Medical Practice.
2. Each specialty syllabus has been mapped to a range of assessments:
 - a. CEX
 - b. CBD
 - c. DOPS
 - d. PBA
 - e. MSF
 - f. Section 1 Intercollegiate Specialty Board (ISB) Examination - written section
 - g. Section 2 Intercollegiate Specialty Board (ISB) Examination - clinical and oral section
3. This does not imply that the indicated assessments must be used.
4. The indications are not exclusive, and it is possible that other types of assessment which have not been indicated may also be used to assess individual items.
5. In general:
 - a. Knowledge will be assessed by Section 1 and Section 2 ISB Examination and by CBD.
 - b. Clinical skills will be assessed by CEX and Section 2 ISB Examination.
 - c. The use of scenarios within Section 2 ISB Examination allows a wide range of clinical skills to be assessed.
 - d. Technical skills will be assessed by DOPS and PBA
 - e. Professional skills will be assessed by MSF
6. The blueprinting indicates which assessments may be used for each item at any stage through training.
7. The Good Medical Practice domains are:
 1. Knowledge, skills and performance
 2. Safety and quality
 3. Communication, partnership and teamwork
 4. Maintaining trust
8. All aspects of the curriculum are assessed using one or more of the described components of the assessment system. Some curriculum content can be assessed in more than one component but the emphasis will differ between assessments so that testing is not excessive in any one area. The key assessment is the Multiple Consultant Report (MCR) through which trainees are assessed on the high-level outcomes of the curriculum; the Capabilities in Practice (CiPs) and Generic Professional Capabilities (GPCs).

High-level outcomes	Assessment Framework											
	Capabilities in Practice											
		CiP/GPC self-assessment	MCR	MSF	CEX	CBD	PBA	DOPS	AoA	OoT	ISB Section 1	ISB Section 2
	1. Manages an out-patient clinic	X	X	X	X	X						X
	2. Manages the unselected emergency take	X	X	X	X	X	X	X				X
	3. Manages ward rounds and the on-going care of in-patients	X	X	X	X	X						X
	4. Manging an operating list	X	X	X			X	X				
	5. Managing multi-disciplinary working	X	X	X		X						

High-level outcomes	Generic Professional Capabilities											
		CiP/GPC self-assessment	MCR	MSF	CEX	CBD	PBA	DOPS	AoA	OoT	ISB Section 1	ISB Section 2
	Domain 1: Professional values and behaviours	X	X	X	X	X	X	X	X	X		X
	Domain 2: Professional Skills	X	X	X	X	X	X	X		X		X
	Domain 3: Professional knowledge	X	X	X	X	X	X	X	X	X	X	X
	Domain 4: Capabilitiesin health promotion and illness prevention	X	X		X	X					X	
	Domain 5: Capabilities in leadership and team working	X	X	X		X	X	X	X	X	X	
	Domain 6: Capabilities in patient safety and quality improvement	X	X			X			X		X	
	Domain 7: Capabilities in safeguarding vulnerable groups	X	X		X	X	X	X			X	
	Domain 8: Capabilities in education and training	X	X							X		
Domain 9: Capabilities in research and scholarship	X	X										

Syllabus													
			CiP/GPC self-assessment	MCR	MSF	CEX	CBD	PBA	DOPS	AoA	OoT	ISB Section 1	ISB Section 2
	Knowledge		X	X	X	X	X	X	X	X	X	X	X
	Clinical skills	Clinical skills (general)	X	X	X	X	X						X
		Critical conditions (mandated CEX/CBD)	X	X	X	X	X						X
	Technical skills	Technical skills (general)	X	X				X	X				
		Index procedures (mandated PBA/DOPS)	X	X				X	X				

APPLIED CLINICAL (BASIC) SCIENCE	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
Anatomy								1
Clinical and functional anatomy with pathological and operative relevance		X				X	X	1
Surgical approaches to the limbs and axial skeleton		X	X	X		X	X	1
Embryology of musculoskeletal system		X				X		
Structure and function of connective tissue								
Bone		X				X	X	1
Cartilage - articular, meniscal		X				X	X	1
Muscle and tendon		X				X	X	1
Synovium		X				X	X	1
Ligament		X				X	X	1
Nerve		X				X	X	1
Intervertebral disc		X				X	X	1
Pathology								
Thromboembolism and prophylaxis		X				X	X	1
Principles of fracture healing		X				X	X	1
Biology of wound healing		X				X	X	1
Tendon and ligament injury and healing		X				X	X	1
Nerve injury and regeneration		X				X	X	1
Shock - types, physiology, recognition and treatment		X CC				X	X	1
Metabolism and hormonal regulation		X				X	X	1
Metabolic and immunological response to trauma		X CC				X	X	1
Blood loss in trauma/surgery, fluid balance and blood transfusion		X CC				X	X	1
Osteoarthritis		X				X	X	1
Osteoporosis		X				X	X	1
Metabolic bone disease		X				X	X	1
Rheumatoid arthritis and other arthropathies (inflammatory, crystal, etc)		X				X	X	1
Haemophilia		X				X	X	1
Inherited musculoskeletal disorders		X				X	X	1
Neuromuscular disorders - inherited and acquired		X				X	X	1
Mechanisms and classification of failure of joint replacement and of periprosthetic fractures:		X				X	X	1
Osteonecrosis		X				X	X	1
Osteochondritides		X				X	X	1
Heterotopic ossification		X				X	X	1
Infection of bone, joint, soft tissue, including tuberculosis , and their prophylaxis		X CC				X	X	1
Prosthetic infection		X				X	X	1
Surgery in high risk and immuno- compromised patients		X				X	X	1
Prostheses and Orthoses								
Principles of design		X				X	X	1
Prescription and fitting of standard prostheses		X				X	X	1
Principles of orthotic bracing for control of disease, deformity and instability		X	X			X	X	1
Pain								
Anaesthesia - principles and practice of local and regional anaesthesia and principles of general anaesthesia		X		X		X	X	1,3
Pain management programmes and management of complex regional pain:		X				X	X	1,3
Pain and pain relief		X		X		X	X	1,3
Behavioural dysfunction and somatization		X				X	X	1
Musculoskeletal oncology								
Presentation, radiological features, pathological features, treatment and outcome for common benign and malignant tumours	X	X				X	X	1
Principles of management of patients with metastatic bone disease in terms of investigation, prophylactic and definitive fixation of pathological fractures and oncological management		X				X	X	1,3
Presenting features, management and outcome of soft tissue swellings, including sarcomas	X	X				X	X	1
Biomechanics & Biomaterials								
Bone grafts, bone banking and tissue transplantation		X				X	X	1
Biomechanics of musculoskeletal tissues		X				X	X	1
Biomechanics of fracture fixation		X				X	X	1
Tribology of natural and artificial joints		X				X	X	1
Design of implants and factors associated with implant failure (wear, loosening)		X				X	X	1
Biomaterials		X				X	X	1
Genetics and cell biology								
Application/relevance of modern genetics to orthopaedic disease and treatment		X				X	X	1
Molecular genetics and molecular biology in T&O		X				X	X	1
Cell biology in T&O		X				X	X	1
Cellular and molecular basis of wound healing		X				X	X	1
Diagnostics								
Musculoskeletal imaging: x-ray, contrast studies, CT, MR, ultrasound, radioisotope studies		X				X	X	1,3
Assessment of bone mass and fracture risk	X	X				X	X	1,3
Effects of radiation		X				X	X	1,3
Blood tests		X				X	X	1,3
Kinematics and gait analysis		X				X	X	1,3
Electrophysiological investigations		X				X	X	1,3
Clinical Environment								
Theatre Design								
Design of theatres		X				X	X	1
Control of theatre environment - ventilation, temperature, humidity,lighting						X	X	

Equipment Design and Use								
Tourniquets and diathermy		X	X	X		X	X	1
Sterilisation		X		X		X	X	1
Infection prevention and control		X	X	X		X	X	1,3
Patient warming methods and rationale		X		X		X	X	1,3
Skin preparation and scrubbing		X	X	X		X	X	1
Medical Ethics								
Duty of care	X	X	X	X	X	X	X	1,2,3
Informed consent	X	X	X	X		X	X	1,2,3,4
Evidence Management								
Data Analysis								
Data analysis and statistics - principles and applications		X				X	X	1,2
Principles of epidemiology		X				X	X	1,2
Clinical Trials								
Design and conduct of clinical trials		X				X	X	1,2,3
Quality improvement								
Quality improvement projects including principles, methods and reporting		X				X	X	1,2,3
Audit		X				X	X	1,2,3
Clinical governance		X				X	X	1,2,3

FOOT AND ANKLE	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
Basic Science (Regional)								
Anatomy								
Anatomy of the foot and ankle and related structures		X				X	X	1
Surgical approaches: ankle, subtalar joint, mid-tarsal joint and forefoot and arthroscopic access		X	X	X		X	X	1
Surgical approach to ankle fractures		X	X	X		X	X	1
Physiology								
Physiology of nerve function around the foot and ankle		X				X	X	1
Pathology								
Inflammatory, degenerative and infective conditions of the foot and ankle		X				X	X	1
Instability of the foot and ankle	X	X				X	X	1
The neuropathic foot	X	X				X	X	1
Deformity								
Acquired and developmental deformities of the foot and ankle		X				X	X	1
Pain								
Causes of foot pain	X	X				X	X	1
Biomechanics & Biomaterials								
Biomechanics of the foot and ankle		X				X	X	1
Biomechanics of tendon transfer techniques		X				X	X	1
Biomechanics of the various types of ankle and first ray prostheses including the factors influencing design, wear and loosening		X				X	X	1
The functional role of orthotic devices		X	X	X		X	X	1
Investigations								
Radiological investigations to assess foot and ankle conditions		X				X	X	1,3
Role of diagnostic and guided injections of the foot and ankle		X				X	X	1,3
Role of examination under anaesthetic and diagnostic arthroscopy		X	X	X		X	X	1,3
Neurophysiology in foot and ankle disorders		X				X	X	1,3
Critical Conditions								
Compartment syndrome	X	X CC	X	X		X	X	1,3
Assessments								
History and examination of the foot and ankle including special clinical tests	X	X				X	X	1,3
Treatments								
Operative								
Prosthetic replacement in the foot and ankle			X	X		X	X	1
Arthroscopy of the foot and ankle			X	X		X	X	1
Amputations in the foot and ankle			X	X		X	X	1
Arthrodesis in the foot and ankle			X	X		X	X	1
Excision arthroplasty			X	X		X	X	1
First ray surgery			X	X		X	X	1
Lesser toe surgery			X	X		X	X	1
Ligament reconstruction in the foot and ankle			X	X		X	X	1
The rheumatoid foot and ankle			X	X		X	X	1
The neuropathic foot			X	X		X	X	1
Management of tendon, ligament and nerve injuries			X	X		X	X	1
Tendon transfers			X	X		X	X	1
Non operative								
Footwear modifications, orthoses and total contact casting	X	X	X			X	X	1,3
Rehabilitation of the foot and ankle		X				X	X	1,3
Complications								
Management of failed arthroplasty and management of failed soft tissue surgery		X	X	X		X	X	1

KNEE	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
Basic Science (Regional)								
Anatomy								
Anatomy of the knee joint and related structures		X				X	X	1
Surgical approaches to the knee and arthroscopic access		X	X	X		X	X	1
Physiology								
Physiology of nerve function around the knee		X				X	X	1,3
Pathology								
Inflammatory, degenerative and infective conditions of the knee	X	X				X	X	1
Instability of the knee, including the patellofemoral joint	X	X				X	X	1
Deformity								
Acquired and developmental deformities of the knee	X	X				X	X	1
Pain								
Causes of the painful knee	X	X				X	X	1
Neoplasia								
Benign and malignant conditions in the knee and surrounding structures	X	X				X	X	1
Biomechanics & Biomaterials								
Biomechanics of the knee		X				X	X	1
Biomechanics of knee arthroplasty		X	X	X		X	X	1
Investigations								
Radiological investigation to assess the knee		X				X	X	1,3
Diagnostic and therapeutic injections		X	X			X	X	1,3
Examination under anaesthetic and arthroscopy		X	X	X		X	X	1,3
Neurophysiology in knee disorders		X				X	X	1,3
Critical Conditions								
Neurovascular injuries	X	X CC	X	X		X	X	1,3
Dislocated knee		X				X	X	
Assessments								
History and examination of the knee joint including special clinical tests	X	X				X	X	1,3
Treatments								
Operative								
Arthroplasty of the knee			X	X		X	X	1
Arthroscopy of the knee			X	X		X	X	1
Ligamentous instability of the knee in adult and child			X	X		X	X	1
Patello-femoral disorders			X	X		X	X	1
Meniscal pathology			X	X		X	X	1
Degenerative and inflammatory arthritis			X	X		X	X	1
Principles of revision surgery for failed arthroplasty			X	X		X	X	1
Techniques available to repair and replace articular cartilage and osteochondral defects			X	X		X	X	1
Management of tendon, ligament and nerve injuries			X	X		X	X	1
Non operative								
Orthoses		X	X			X	X	1,3
Rehabilitation of the knee		X				X	X	1,3
Complications								
Failed arthroplasty and soft tissue surgery	X	X	X	X		X	X	1

HIP	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
Basic Science (Regional)								
Anatomy								
Anatomy of the hip and pelvic region and related structures		X				X	X	1
Surgical approaches to the hip including arthroscopic access		X	X	X		X	X	1
Physiology								
Physiology of nerve function affecting the hip		X				X	X	1
Pathology								
Inflammatory, degenerative and infective conditions of the hip	X	X				X	X	1
Impingement disorders	X	X				X	X	1
Primary and Secondary Tumours around the Hip		X				X	X	1,3
Deformity								
Acquired and developmental deformity around the hip	X	X				X	X	1
Pain								
The painful hip	X	X				X	X	1
Biomechanics & Biomaterials								
Biomechanics of the hip		X				X	X	1
Biomechanics of hip arthroplasty		X	X	X		X	X	1

Investigations								
Radiological investigations to assess the hip		X				X	X	1,3
Diagnostic and guided injections		X	X			X	X	1,3
Hip arthroscopy		X		X		X	X	1,3
Neurophysiology in hip disorders		X				X	X	1,3
Assessments								
History and examination of hip including special clinical tests	X	X			X	X	X	1,3
Treatments								
Operative								
Arthroplasty of the hip			X	X		X	X	1
Arthroscopy of the hip			X	X		X	X	1
Soft tissue surgery, osteotomy, osteoplasty and arthrodesis of the hip			X	X		X	X	1
Management of tendon, ligament and nerve injuries			X	X		X	X	1
Non-operative								
Orthoses		X				X	X	1,3
Rehabilitation of the hip		X				X	X	1,3
Complications								
Failed arthroplasty and soft tissue surgery		X				X	X	1
SPINE	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
Basic Science (Regional)								
Anatomy								
Development of the spine, spinal cord and nerve roots		X				X	X	1
Anatomy and principles of surgical approaches: anterior and posterior at each level and endoscopic access		X	X	X		X	X	1
Physiology								
Physiology of nerve function affecting the spinal cord and emerging nerves		X				X	X	1,3
Spinal shock and associated secondary problems		X				X	X	1,3
Pathology								
The aging spine and degenerative disease	X	X				X	X	1
Acute and chronic infections of the spine	X	X				X	X	1
Metabolic conditions affecting the spine	X	X				X	X	1
Neurological conditions affecting the spine	X	X				X	X	1
Thoracic outlet syndrome	X	X				X	X	1
Deformity								
Congenital and acquired conditions causing deformity around the spine e.g. scoliosis and kyphosis	X	X				X	X	1
Pain								
Causes of the acutely painful back, including referred pain e.g. acute prolapsed disc	X	X CC				X	X	1,3
Neoplasia								
Primary and secondary tumours of the spine		X CC				X	X	1,3
Biomechanics & Biomaterials								
Biomechanics of the cervical and lumbar spine		X				X	X	1
Spinal instability as applied to trauma, tumour, infection and spondylolysis/listhesis		X				X	X	1
Spinal deformity		X				X	X	1
Spinal instrumentation and internal fixation devices		X		X		X	X	1
Use of spinal bracing		X	X			X	X	1,3
Investigations								
Radiological investigations (and their interpretation) used to assess common spine conditions		X				X	X	1,3
Role of diagnostic and therapeutic injections		X				X	X	1,3
Role of biopsy including routes and complications		X				X	X	1,3
Blood tests		X				X	X	1,3
Electrophysiological studies (including cord monitoring)		X				X	X	1,3
Critical Conditions								
Cauda equina syndrome	X	X CC				X	X	1
Spinal trauma - assessment, immediate care and appropriate referral	X	X CC				X	X	1
Infections e.g. tuberculosis	X	X CC				X	X	1
Important complications of inflammatory spinal conditions - rheumatoid instability and ankylosing spondylitis	X	X CC				X	X	1
Metastatic spinal cord compression	X	X CC				X	X	1
The painful spine in the child	X	X CC				X	X	1,3
Assessments								
History and examination of the painful and injured spine including special clinical tests	X	X				X	X	1,3
Examinations of conditions causing referred symptoms to the spine (e.g. renal pain)	X	X				X	X	1,3
Recognition of somatisation	X	X				X	X	1,3
Assessment of patients after failed spinal surgery for deformity and reconstruction for non-degenerative disease	X	X				X	X	1,3
Treatments								
Operative								
Indications, options and complications for compressive conditions		X		X		X	X	1
Indications, options and complications of instability of the spine		X		X		X	X	1
Principles of management of tumours around the spine		X		X		X	X	1
Principles of management of deformity of the spine		X		X		X	X	1
Principles of the application of spinal bracing		X	X	X		X	X	1

Non operative								
Non-operative treatment of disorders ,such as low back pain, sciatica		X				X	X	1,3
Management of spinal fractures e.g. osteoporotic fractures, traumatic injuries		X				X	X	1
Principles of interventional radiology in the management of spinal problems		X				X	X	1,3
Initial and ward care of the paralysed patient	X	X				X	X	1,3
Complications								
Management of failed spinal surgery		X		X		X	X	1,3,4
Management of consequences of delayed surgery		X		X		X	X	1,3,4

HAND	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
Basic Science (Regional)								
Anatomy								
Anatomy of the wrist and hand region and related structures		X				X	X	1
Surgical approaches in the hand and wrist and arthroscopic access		X	X	X		X	X	1
Physiology								
Physiology of nerve function around the hand		X				X	X	1
Pathology								
Inflammatory, degenerative and infective conditions of the hand and wrist		X				X	X	1
Dupuytren's disease		X				X	X	1
Deformity								
Acquired and developmental deformity around the hand and wrist	X	X				X	X	1
Pain								
The painful hand and wrist	X	X				X	X	1
Biomechanics & Biomaterials								
Biomechanics of the hand and wrist		X				X	X	1
Biomechanics of hand and wrist arthroplasty		X		X		X	X	1
Investigations								
Radiological investigations to assess the hand and wrist		X				X	X	1,3
Neurophysiology of the hand and wrist		X				X	X	1,3
Diagnostic and guided injections		X	X			X	X	1,3
Examination under anaesthetic and arthroscopy		X	X	X		X	X	1,3
Critical Conditions								
Compartment syndrome	X	X CC	X	X		X	X	1
Assessments								
History and examination of the hand and wrist including special clinical tests	X	X				X	X	1,3
Treatments								
Operative								
Prosthetic replacement in the hand and wrist			X	X		X	X	1
Excision arthroplasty in the hand and wrist			X	X		X	X	1
Arthroscopy of the hand and wrist			X	X		X	X	1
Arthrodesis in hand and wrist			X	X		X	X	1
Entrapment neuropathies			X	X		X	X	1
The rheumatoid hand and wrist			X	X		X	X	1
The congenital hand			X	X		X	X	1
Dupuytren's disease			X	X		X	X	1
Tendon transfers			X	X		X	X	1
Non operative								
Rehabilitation of the hand and wrist		X				X	X	1,3
Orthoses		X				X	X	1,3
Complications								
Failed arthroplasty and soft tissue surgery		X				X	X	1

ELBOW	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
Basic Science (Regional)								
Anatomy								
Anatomy of the elbow region and related structures		X				X	X	1
Surgical approaches to the elbow and arthroscopic access		X	X	X		X	X	1
Physiology								
Physiology of nerve function around the elbow		X				X	X	1
Pathology								
Compressive neurological problems around the elbow		X				X	X	1
Instability around the elbow		X				X	X	1
Inflammatory, degenerative and infective conditions of the elbow		X				X	X	1
Causes of elbow stiffness		X				X	X	1
Deformity								
Acquired and developmental deformity around the elbow	X	X				X	X	1
Pain								
The painful elbow	X	X				X	X	1

Biomechanics & Biomaterials								
Biomechanics of the elbow		X				X	X	1
Biomechanics of elbow arthroplasty		X	X	X		X	X	1
Investigations								
Radiological investigations to assess the elbow		X				X	X	1,3
Diagnostic and guided injections		X	X				X	1,3
Examination under anaesthetic and arthroscopy		X	X	X			X	1,3
Neurophysiology in elbow disorders		X				X	X	1,3
Assessments								
History and examination of the elbow including special clinical tests	X	X				X	X	1,3
Treatments								
Operative								
Arthroplasty of the elbow			X	X		X	X	1
Arthroscopy of the elbow			X	X		X	X	1
Ligamentous instability			X	X		X	X	1
Entrapment neuropathy			X	X		X	X	1
Degenerative and inflammatory arthritis			X	X		X	X	1
Soft tissue conditions			X	X		X	X	1
The rheumatoid elbow			X	X		X	X	1
Non operative								
Rehabilitation of the elbow		X				X	X	1,3
Orthoses		X				X	X	1,3
Complications								
Management of the failed arthroplasty and soft tissue surgery		X				X	X	1

SHOULDER	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
Basic Science (Regional)								
Anatomy								
Anatomy of the shoulder girdle and related structures		X				X	X	1
Surgical approaches to the shoulder girdle including arthroscopic access		X	X	X		X	X	1
Physiology								
Physiology of nerve function around the shoulder		X				X	X	1
Pathology								
Impingement and rotator cuff disorders		X				X	X	1
Instability and labral pathology of the shoulder		X				X	X	1
Inflammatory, degenerative and infective conditions of the shoulder girdle		X				X	X	1
Shoulder stiffness		X				X	X	1
Deformity								
Acquired and developmental deformity around the shoulder	X	X				X	X	1
Pain								
The painful shoulder	X	X				X	X	1
Biomechanics & Biomaterials								
Biomechanics of the shoulder girdle		X				X	X	1
Biomechanics of shoulder arthroplasty		X	X	X		X	X	1
Investigations								
Radiological investigations to assess the shoulder		X				X	X	1,3
Diagnostic and guided injections		X	X			X	X	1,3
Examination under anaesthetic and arthroscopy		X	X	X		X	X	1,3
Neurophysiology in shoulder and brachial plexus disorders		X				X	X	1,3
Assessments								
History and examination of the shoulder girdle, including special clinical tests	X	X				X	X	1,3
Examination of the brachial plexus	X	X				X	X	1,3
Treatments								
Operative								
Arthroplasty of the shoulder			X	X		X	X	1
Arthroscopy of the shoulder			X	X		X	X	1
Soft tissue disorders of the shoulder girdle			X	X		X	X	1
Arthrodesis, osteotomy and excision arthroplasty			X	X		X	X	1
Reconstructive surgery for brachial plexus and other neurological disorders			X	X		X	X	1
Non operative								
Rehabilitation of the shoulder		X				X	X	1,3
Orthoses		X				X	X	1,3
Complications								
Management of failed arthroplasty and soft tissue surgery		X				X	X	1

TRAUMA	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
Basic Science (Regional)								
Anatomy								
Regional anatomy for trauma		X				X	X	1
Surgical approaches for bone and soft tissue injuries		X	X	X		X	X	1

Approaches for hip fractures		X	X	X		X	X	1
Approaches for ankle fractures		X	X	X		X	X	1
Physiology								
Physiological response to trauma		X CC				X	X	1
Pathology								
Delayed and non-union		X				X	X	1
Fractures in abnormal bone		X				X	X	1
Deformity								
Mal-union of fractures		X				X	X	1
Pain								
Pain relief in trauma patients		X				X	X	1,3
Biomechanics & Biomaterials								
Principles of open reduction and internal fixation/external fixation of fractures		X	X	X		X	X	1
Splintage and traction		X	X			X	X	1
Principles of casting		X	X			X	X	1
Investigations								
Radiological investigations to assess the injured patient		X				X	X	1,3
Critical Conditions								
Compartment syndrome	X	X CC	X	X		X	X	1
Neurovascular injuries	X	X CC	X			X	X	1
Physiological response to trauma	X	X CC				X	X	1
Assessments								
Initial clinical assessment of the injured patient	X	X				X	X	1,3
Priorities of treatment and identification of life/limb-threatening injuries	X	X				X	X	1,3
Treatments								
The trauma team		X			X	X	X	1,3
Operative								
Fracture management (closed, open and pathological)			X	X		X	X	1
Soft tissue management			X	X		X	X	1
Amputation			X	X		X	X	1
Non operative								
Non-operative management of fractures		X	X			X	X	1
Rehabilitation of the injured patient		X				X	X	1,3
Complications								
Reconstructive surgery in non-unions/mal-unions		X	X	X		X	X	1
Specific fracture areas								
Spine								
The acute fracture and dislocation	X	X	X			X	X	1
Spinal shock and cord syndromes	X	X		X		X	X	1
Pelvis								
Pelvic/acetabular fracture stabilisation	X	X CC	X	X		X	X	1
Recognition of visceral/neurovascular damage	X	X CC		X		X	X	1,3
Shoulder								
Clavicle fractures	X	X	X	X		X	X	1
Proximal humeral fractures	X	X	X	X		X	X	1
The dislocated shoulder	X	X	X	X		X	X	1
Brachial plexus and other nerve injuries	X	X	X	X		X	X	1
Humeral shaft fractures	X	X	X	X		X	X	1
Elbow								
Proximal ulnar fractures	X	X	X	X		X	X	1
Distal humeral fractures	X	X	X	X		X	X	1
Proximal radial injuries	X	X	X	X		X	X	1
Radius and ulnar shaft fractures	X	X	X	X		X	X	1
Wrist								
Distal radius fractures	X	X	X	X		X	X	1
Scaphoid fractures	X	X	X	X		X	X	1
Carpal injuries	X	X	X	X		X	X	1
Hand								
Metacarpal and digital injuries	X	X	X	X		X	X	1
The mangled hand	X	X	X	X		X	X	1,3
Proximal femur								
Proximal femoral fractures	X	X	X	X		X	X	1,3
Femoral shaft fractures	X	X	X	X		X	X	1

Knee and lower leg								
Periarticular fractures around the knee	X	X	X	X		X	X	1
Tibial shaft fractures	X	X	X	X		X	X	1
Ankle								
Periarticular fractures around the ankle	X	X	X	X		X	X	1
Weber B ankle fractures	X	X	X	X		X	X	1
Foot								
Hindfoot injuries	X	X	X	X		X	X	1
Midfoot injuries	X	X	X	X		X	X	1
Forefoot injuries	X	X	X	X		X	X	1
The crushed foot	X	X	X	X		X	X	1,3
Peri-prosthetic fractures								
Management of fractures around prostheses and implants	X	X	X	X		X	X	1

PAEDIATRIC ORTHOPAEDIC SURGERY	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
Basic Science								
Anatomy								
Growth of bones, physeal anatomy and its application to fracture types and pathological processes and infection in particular		X				X	X	1
Anatomy of bones and joints in the growing child and its application to growth and deformity		X				X	X	1
Neurological processes involved in the production of deformity e.g. spina bifida, cerebral palsy and muscular dystrophy		X				X	X	1
Clinical Assessment								
History and examination of the child	X	X				X	X	1,3
Involving the parents in the assessment	X	X				X	X	1,3,4
Assessing the disabled child	X	X				X	X	1,3,4
Normal variants	X	X				X	X	1,3,4
Investigations								
Indications for plain x-ray, arthrogram, CT, MRI and the how to interpret the images		X				X	X	1,3
Indications for the use of ultrasound and nuclear imaging		X				X	X	1,3
Limitations of investigations in paediatric practice		X				X	X	1
Critical Conditions								
The painful hip in a child	X	X CC	X			X	X	1
Treatment								
Operative								
Fractures (including non-accidental injury) and growth plate injuries and their sequelae	X	X	X	X		X	X	1
Bone and joint infection	X	X	X	X		X	X	1
Common childhood orthopaedic conditions, e.g. irritable hip, anterior knee pain	X	X		X		X	X	1
Slipped epiphysis	X	X	X	X		X	X	1
Perthes' disease	X	X	X	X		X	X	1
Developmental dysplasia of the hip	X	X	X	X		X	X	1
Talipes	X	X	X	X		X	X	1
Scoliosis	X	X	X	X		X	X	1
Forefoot deformities	X	X	X	X		X	X	1
Congenital hand abnormalities	X	X	X	X		X	X	1
Osteogenesis imperfecta	X	X	X	X		X	X	1
Skeletal dysplasias	X	X	X	X		X	X	1
Tarsal coalitions	X	X	X	X		X	X	1
Torticollis	X	X	X	X		X	X	1
Leg length discrepancy	X	X	X	X		X	X	1
Non-operative								
The treatment of normal variants such knock knees, flat feet, femoral anteversion	X	X				X	X	1,3
Orthoses	X	X				X	X	1,3
Rehabilitation of the child	X	X				X	X	1,3
Determining physical disability	X	X				X	X	1,3,4
Screening for congenital abnormalities	X	X				X	X	1,2,3
Poinseti Technique	X	X				X	X	

APPLIED CLINICAL SKILLS: GENERAL	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
Trauma General								
Compartment syndrome								
Measurement of compartment pressures	X		X					
Fasciotomy for compartment syndrome (any site)			X	X				
Miscellaneous								
Correction of malunion or other deformity			X	X				
Evacuation of haematoma			X					
Excision / ablation of ingrowing nail			X					
Iliac crest bone graft harvesting			X	X				
Removal foreign body from skin / subcutaneous tissue			X					
Infection								
Incision and drainage of abscess			X					
Irrigation and debridement native joint for infection				X				
Metalware and frames								
Application of external fixator (not spanning or Ilizarov)				X				
Application of Ilizarov frame				X				
Application of skeletal traction			X					
Application of spanning external fixator				X				
Removal external fixator or frame			X					
Removal K wires or skeletal traction			X					
Removal metal			X					
Neurovascular injuries								
Arterial repair +/- graft			X	X				
Nerve repair			X	X				
Open reduction and fixation of periprosthetic fracture								
ORIF osteochondral fragment in joint			X	X				
Tendon repair			X	X				
Wound management								
Free flap				X				
Full thickness skin graft			X					
Muscle flap				X				
Pedicle flap				X				
Split skin graft				X				
Transposition flap				X				
Wound closure			X	X				
Wound debridement			X					
Elective General (site non specific)								
Aspirations / injections								
Aspiration / injection ankle joint			X					
Aspiration / injection elbow joint			X					
Aspiration / injection foot joint			X					
Aspiration / injection hip joint			X					
Aspiration/ injection hand and wrist			X					
Aspiration / injection knee joint			X					
Aspiration / injection shoulder joint			X					
Botulinum toxin injection - musculoskeletal			X					
Benign tumour excision (not exostosis)				X				
Biopsy bone - needle			X					
Biopsy bone - open			X					
Curretage pinsites			X					
Cyst bone curettage +/- bone graft				X				
Distraction lengthening of bone upper limb				X				
Endoprosthetic replacement for malignant bone tumour - not femur / humerus / tibia				X				
Epiphysiodesis				X				
Exostosis / osteochondroma excision				X				
Injection of bone cyst			X					
Malignant tumour excision				X				
Nerve decompression / neurolysis			X	X				
Osteomyelitis excision including sequestrectomy			X	X				
Soft tissue procedures								
Biopsy soft tissue			X					
Bursa excision			X					
Ganglion excision			X					
Muscle biopsy			X					
Release contracture joint				X				
Synovectomy				X				
Tendon decompression			X					
Tendon lengthening				X				
Tendon transfer				X				
Tenodesis				X				

Amputations								
Forequarter amputation				X				
Above elbow amputation				X				
Below elbow amputation				X				
Finger amputation				X				
Hindquarter amputation				X				
Above knee amputation				X				
Through knee amputation				X				
Below knee amputation				X				
Through ankle amputation				X				
Hindfoot amputation				X				
Midfoot amputation				X				
Toe amputation				X				

APPLIED CLINICAL SKILLS: SPINE	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
Trauma Spine								
Cervical Spine								
Anterior column reconstruction cervical spine				X				
Anterior fixation fracture / dislocation cervical spine				X				
Application halo / tong traction cervical spine				X				
MUA fracture / dislocation cervical spine			X					
Non-classifiable cervical spine trauma procedure				X				
Posterior column reconstruction cervical spine				X				
Posterior fixation fracture / dislocation cervical spine				X				
Brachial Plexus								
Exploration / repair / grafting brachial plexus				X				
Exploration of brachial plexus				X				
Repair +/- grafting brachial plexus				X				
Thoracic Spine								
Anterior column reconstruction thoracic spine				X				
Anterior decompression / fixation thoracic spine				X				
Anterior decompression thoracic spine				X				
Posterior column reconstruction thoracic spine				X				
Posterior decompression / fixation thoracic spine				X				
Posterior decompression thoracic spine				X				
Lumbar Spine								
Anterior column reconstruction lumbar spine				X				
Anterior decompression / fixation lumbar spine				X				
Anterior decompression lumbar spine				X				
Posterior column reconstruction lumbar spine				X				
Posterior decompression / fixation lumbar spine				X				
Posterior decompression lumbar spine			X	X				
Elective Spine								
Cervical Spine								
Anterior column reconstruction cervical spine				X				
Cervical disc replacement				X				
Cervical laminectomy				X				
Cervical laminoplasty				X				
Cervical vertebrectomy for myelopathy				X				
Excision hemivertebra				X				
Fixation and fusion procedures								
Anterior decompression +/- fixation / fusion (C2 - C7)				X				
Atlantoaxial fixation +/- fusion				X				
C1 pedicle screws and C2 fusion				X				
Occipital / cervical / thoracic fusion				X				
Occipital cervical fusion				X				
Occipito-cervical fusion +/- fixation				X				
Posterior decompression +/- fixation / fusion (C2 - C7)				X				
Transarticular screws C1/C2				X				
Investigations and injections								
Biopsy cervical spine			X	X				
Discogram			X					
Epidural			X					
Nerve root / facet joint injection cervical spine			X					
Osteotomy for spine sagittal plain imbalance				X				
Posterior column reconstruction cervical spine				X				
Revision cervical discectomy				X				
Thoracic outlet obstruction								
Excision cervical / 1st rib				X				
Thoracic outlet release (not excision cervical / 1st rib)				X				
Thoracic Spine								
Anterior column reconstruction thoracic spine				X				
Costoplasty				X				
Excision hemivertebra				X				

Fixation or fusion procedures								
Anterior decompression +/- fixation / fusion				X				
Posterior decompression +/- fixation / fusion				X				
Investigations and injections								
Biopsy thoracic spine			X	X				
Discogram			X					
Kyphosis correction								
Kyphoplasty corpectomy				X				
Kyphosis correction - anterior and posterior				X				
Kyphosis correction - anterior only				X				
Posterior column reconstruction thoracic spine				X				
Scoliosis correction - anterior release +/- instrumentation				X				
Scoliosis correction - posterior fusion +/- instrumentation				X				
Scoliosis correction				X				
Anterior release + posterior fusion and instrumentation for scoliosis				X				
Growing rods for scoliosis				X				
Lengthening of growing rods for scoliosis				X				
Localiser cast for scoliosis			X					
Scoliosis correction - anterior release +/- instrumentation				X				
Scoliosis correction - posterior fusion +/- instrumentation				X				
Thoracic disc replacement				X				
Vertebroplasty				X				
Thoracoscopic spinal procedures +/- instrumentation				X				
Lumbar Spine								
Anterior column reconstruction lumbar spine				X				
Decompression lumbar spine without fusion (not discectomy alone)			X	X				
Discectomy open / micro				X				
Excision hemivertebra				X				
Fixation and fusion procedures								
ALIF				X				
Decompression lumbar spine with fusion +/- fixation				X				
PLIF				X				
TLIF				X				
Investigations and injections								
Caudal epidural injection			X					
Discogram			X					
Epidural			X					
Facet joint injection lumbar spine			X					
Nerve root injection lumbar spine			X					
Lumbar disc replacement				X				
Lumbar spine - dynamic neutralisation system				X				
Osteotomy for spine sagittal plane imbalance				X				
Posterior column reconstruction lumbar spine				X				
Revision lumbar discectomy				X				
Vertebroplasty				X				

APPLIED CLINICAL SKILLS: SHOULDER	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
Trauma Shoulder								
Clavicle								
ORIF clavicle fracture				X				
ORIF non-union clavicle fracture				X				
SC joint dislocation closed / open reduction				X				
SC joint instability/open stabilisation				X				
Shoulder								
Acromioclavicular joint dislocation acute ORIF				X				
Anterior dislocation shoulder								
Anterior dislocation shoulder closed reduction			X					
Anterior dislocation shoulder open reduction +/- fixation				X				
Fracture proximal humerus								
Fracture proximal humerus hemiarthroplasty			X	X				
Fracture proximal humerus interlocking IM nail				X				
Fracture proximal humerus ORIF				X				
Glenoid fracture ORIF				X				
Irrigation and debridement native joint for infection - shoulder			X					
Posterior dislocation shoulder								
Posterior dislocation shoulder closed reduction				X				
Posterior dislocation shoulder open reduction +/- fixation				X				
Scapula fracture ORIF				X				
Humerus								
Fracture diaphysis humerus								
Fracture diaphysis humerus non-operative				X				
Non-union ORIF +/- bone grafting				X				
Fracture diaphyseal humerus application of external fixator				X				
Fracture diaphyseal humerus non-union - ORIF +/- bone grafting				X				

Fracture diaphysis humerus IM nailing				X				
Fracture diaphysis humerus ORIF plating				X				
Elective Shoulder								
Clavicle								
Osteotomy and internal fixation of clavicle malunion				X				
Shoulder								
Arthroscopic procedures								
Arthroscopic arthrolysis for capsulitis of shoulder				X				
Arthroscopic biceps tenodesis				X				
Arthroscopic subacromial decompression				X				
Arthroscopic removal loose body - shoulder				X				
Arthroscopy diagnostic - shoulder			X	X				
Capsular / rotator cuff repair								
Anterior repair for instability arthroscopic				X				
Anterior repair for instability open including capsular shift				X				
Posterior repair for instability including capsular shift				X				
Rotator cuff repair (arthroscopic) +/- acromioplasty				X				
Rotator cuff repair (open) +/- acromioplasty				X				
MUA shoulder			X					
Shoulder arthrodesis				X				
Shoulder arthroplasty								
Hemiarthroplasty shoulder (elective)			X	X				
Resurfacing hemiarthroplasty of shoulder				X				
Reverse polarity (inverse) shoulder replacement				X				
Shoulder replacement revision				X				
Total shoulder replacement				X				
Shoulder girdle procedures								
Acromioclavicular joint excision - arthroscopic / open / lateral clavicle				X				
Acromioclavicular joint reconstruction (eg Weaver Dunn)				X				
Acromioplasty open				X				
Latarjet procedure				X				
Levator scapulae transfer for trapezius palsy				X				
Scapulothoracic fusion				X				
Humerus								
Endoprosthetic replacement for malignant bone tumour - humerus				X				

APPLIED CLINICAL SKILLS: ELBOW	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
Trauma Elbow								
Elbow								
Application of spanning external fixator			X					
Capitellum ORIF				X				
Coronoid fractures								
Coronoid fracture ORIF				X				
Dislocated elbow +/- fracture:								
Dislocated elbow +/- fracture closed reduction			X					
Dislocated elbow +/- fracture open reduction +/- fixation				X				
Intraarticular distal humerus fracture ORIF				X				
Irrigation and debridement native joint for infection – elbow			X					
Lateral condyle fracture ORIF				X				
Medial condyle / epicondyle fracture MUA / percutaneous wire / ORIF				X				
Olecranon fracture ORIF				X				
Radial head / neck fracture								
Radial head / neck fracture ORIF				X				
Radial head excision				X				
Radial head replacement for fracture				X				
Supracondylar elbow fracture								
Supracondylar elbow fracture MUA +/- percutaneous wires				X				
Supracondylar elbow fracture open reduction				X				
Tendon repairs								
Repair of distal biceps tendon rupture				X				
Forearm								
Fasciotomy for compartment syndrome				X				
Fracture shaft radius / ulna:								
Fracture shaft radius / ulna IM nailing				X				
Fracture shaft radius / ulna MUA & POP				X				
Fracture shaft radius / ulna ORIF				X				
Galeazzi fracture ORIF				X				
Monteggia fracture ORIF				X				
Elective Elbow								
Elbow								
Arthrolysis elbow (open/arthroscopic)				X				
Arthroscopy elbow diagnostic			X	X				
Arthroscopy elbow therapeutic				X				

Arthrotomy elbow				X				
Excision radial head +/- synovectomy				X				
OK procedure				X				
Tennis / golfer elbow release			X					
Total elbow replacement								
Total elbow replacement				X				
Total elbow replacement - aseptic revision				X				
Total elbow replacement for trauma				X				
Total elbow replacement revision 1st stage				X				
Total elbow replacement revision 2nd stage				X				
Ulnar nerve decompression / transposition				X				
Forearm								
Forearm malunion correction or other deformity				X				

APPLIED CLINICAL SKILLS: HAND	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
Trauma Hand								
Wrist								
Fracture distal radius:								
Fracture distal radius – closed non-op			X					
Fracture distal radius external fixation				X				
Fracture distal radius MUA & percutaneous wires			X					
Fracture distal radius ORIF				X				
Application of spanning external fixator				X				
Arterial repair - wrist				X				
Vein repair – wrist				X				
Carpal fracture / dislocation:								
Carpal fracture / dislocation MUA & percutaneous wires			X					
Carpal fracture / dislocation MUA & POP			X					
Carpal fracture / dislocation non-op			X					
Carpal fracture / dislocation ORIF				X				
Irrigation and debridement prosthesis for infection – wrist			X	X				
Nerve repair - wrist				X				
Replantation of hand				X				
Revascularisation of hand				X				
Scapho-lunate ligament reconstruction				X				
Scaphoid fracture:								
Scaphoid fracture non-operative			X					
Scaphoid fracture MUA & percutaneous wires				X				
Scaphoid fracture non-union ORIF +/- graft (excluding vascularised graft)				X				
Scaphoid fracture non-union using vascularised graft				X				
Scaphoid fracture ORIF				X				
Hand								
1st ray fracture / dislocation								
1st ray fracture / dislocation external fixation				X				
1st ray fracture / dislocation MUA & percutaneous wires			X					
1st ray fracture / dislocation MUA & POP			X					
1st ray fracture / dislocation ORIF				X				
5th Ray fracture / dislocation								
5th ray fracture / dislocation external fixation				X				
5th ray fracture / dislocation MUA & percutaneous wires			X					
5th ray fracture / dislocation MUA & POP			X					
5th ray fracture / dislocation ORIF				X				
Finger tip reconstruction								
Finger tip reconstruction - advancement flap				X				
Finger tip reconstruction - cross finger flap				X				
Finger tip reconstruction - homodigital neurovascular island flap				X				
Finger tip terminalisation			X					
Nail bed repair				X				
Hand compartment syndrome decompression				X				
Excision / ablation of ingrowing nail			X					
Infection								
High pressure injection injuries				X				
Infection hand drainage (not tendon sheath)			X					
Infection tendon sheath drainage			X					
IPJ fracture / dislocation (PIPJ and DIPJ):								
IPJ fracture / dislocation external fixator				X				
IPJ fracture / dislocation MUA & percutaneous wires			X					
IPJ fracture / dislocation MUA +/- POP			X					
IPJ fracture / dislocation ORIF				X				
Ligament repair								
Ligament repair hand excluding thumb MCPJ ulnar collateral ligament				X				
Thumb MCPJ ulnar collateral repair				X				
MCPJ fracture / dislocation								
MCPJ fracture / dislocation external fixator			X					
MCPJ fracture / dislocation MUA & percutaneous wires				X				
MCPJ fracture / dislocation MUA +/- POP			X					

MCPJ fracture / dislocation ORIF				X				
Metacarpal fracture (not 1st or 5th) non-op			X					
Metacarpal fracture (not 1st or 5th) MUA & percutaneous wires			X					
Metacarpal fracture (not 1st or 5th) MUA +/- POP			X					
Metacarpal fracture (not 1st or 5th) ORIF				X				
Metacarpal fracture (not 1st or 5th) external fixation				X				
Neurovascular injuries								
Arterial repair +/- graft hand / digit				X				
Nerve repair hand / digit				X				
Revascularisation finger				X				
Vein repair +/- graft hand / digit				X				
Phalangeal fracture non-op				X				
Phalangeal fracture MUA & percutaneous wires				X				
Phalangeal fracture MUA +/- POP				X				
Phalangeal fracture ORIF				X				
Removal foreign body from skin / subcutaneous tissue			X					
Replantation finger				X				
Skin graft								
Free flap				X				
Full thickness skin graft				X				
Pedicle flap				X				
Reversed radial forearm flap				X				
Split skin graft			X					
Transposition flap				X				
Tangential excision of hand burns			X					
Tendon repair								
Spaghetti wrist				X				
Tendon repair extensor			X					
Tendon repair flexor zone 1				X				
Tendon repair flexor zone 2				X				
Tendon repair flexor zone 3-5				X				
Wound closure								
Delayed primary or secondary			X					
Wound debridement			X					
Elective Hand								
Wrist								
Arthrodesis wrist (includes partial arthrodesis)				X				
Arthroscopy wrist			X	X				
Carpal tunnel decompression				X				
De Quervain's decompression				X				
Decompression / synovectomy tendons				X				
Denervation wrist				X				
Excision distal ulna				X				
Ganglion excision at wrist			X					
Proximal row carpectomy				X				
Radial shortening				X				
Surgery for chronic carpal instability				X				
TFCC								
Repair TFCC - arthroscopic				X				
Repair TFCC - open				X				
Ulna shortening				X				
Ulnar nerve decompression at wrist				X				
Wrist arthroplasty				X				
Hand								
Carpal tunnel decompression				X				
Congenital hand operation								
Congenital hand operation - clinodactyly				X				
Congenital hand operation - complex reconstruction of congenital hand deformity				X				
Congenital hand operation - camptodactyly				X				
Congenital hand operation - correction of radial club hand				X				
Congenital hand operation - lengthening procedures				X				
Congenital hand operation - removal supernumerary digits				X				
Congenital hand operation - separation of syndactyly				X				
Dupuytren's contracture operation								
Dupuytren's contracture operation - dermofasciectomy				X				
Dupuytren's contracture operation - primary multiple digits				X				
Dupuytren's contracture operation - primary single digit				X				
Dupuytren's contracture operation - recurrent multiple digits				X				
Dupuytren's contracture operation - recurrent single digit				X				
Excision synovial cyst			X	X				
Finger malunion correction or other deformity				X				
Fusion of MCPJ or IPJ				X				
MCPJ replacement				X				
PIPJ replacement - hand (other)				X				

PIPJ replacement - hand (silastic)				X				
Soft tissue reconstruction hand				X				
Synovectomy				X				
Tendon procedures								
Tendon graft hand				X				
Tendon transfer hand				X				
Tenolysis hand tendon				X				
Tenosynovectomy				X				
Trapezium excision or replacement				X				
Trigger finger release			X					
Trigger thumb release			X					

APPLIED CLINICAL SKILLS: HIP	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
Trauma Hip								
Pelvis								
Acetabular fracture ORIF				X				
Pelvic fracture:								
Pelvic fracture external fixator application				X				
Pelvic fracture ORIF				X				
Sacroiliac joint percutaneous screw fixation				X				
Sacrum ORIF				X				
Hip								
Dislocated hip								
Dislocated hip (no prosthesis) - closed reduction			X					
Dislocated hip (no prosthesis) - open reduction +/- fixation				X				
Dislocated hip hemiarthroplasty - closed reduction			X					
Dislocated hip hemiarthroplasty - open reduction				X				
Dislocated total hip replacement - closed reduction			X					
Dislocated total hip replacement - open reduction				X				
Extracapsular fracture								
Extracapsular fracture CHS / DHS				X	X			
Extracapsular fracture intramedullary fixation				X				
Extracapsular fracture other fixation				X				
Intracapsular fracture								
Intracapsular fracture bipolar hemiarthroplasty				X				
Intracapsular fracture hemiarthroplasty excluding bipolar				X				
Intracapsular fracture internal fixation				X				
Intracapsular fracture THR				X				
Irrigation and debridement native joint for infection - hip				X				
Irrigation and debridement prosthesis for infection - hip				X				
Periprosthetic fracture of hip								
Open reduction and fixation of periprosthetic fracture - hip				X				
Revision THR for periprosthetic fracture of hip				X				
Femur								
Diaphyseal fracture								
Diaphyseal femur fracture application of external fixator				X				
Diaphyseal femur fracture intramedullary nailing				X				
Diaphyseal femur fracture plate/screw fixation				X				
Diaphyseal femur fracture spica cast application			X					
Fasciotomy for compartment syndrome				X				
Femoral non-union								
Femoral non-union (application of frame) +/- bone grafting				X				
Femoral non-union (without frame) +/- bone grafting				X				
Reconstruction of avulsed proximal hamstrings				X				
Subtrochanteric fracture								
Subtrochanteric fracture intramedullary fixation				X				
Subtrochanteric fracture plate/screw fixation				X				
Elective Hip								
Pelvis								
Sacrococcygeal joint injection / MUA			X					
Sacro-iliac joint injection			X					
Hip								
Adductor tenotomy - hip			X					
Arthrodesis hip				X				
Arthroscopy hip - diagnostic				X				
Arthroscopy hip - therapeutic				X				
Arthrotomy hip				X				
Aspiration / injection hip joint			X					
Excision arthroplasty hip (e.g. Girdlestone)				X				
Femoral head AVN								
Core decompression of femoral head for AVN				X				
Vascular graft femoral head for AVN				X				

Femeroacetabular impingement								
Open hip debridement for femeroacetabular impingement syndrome				X				
Iliopsoas release / lengthening				X				
Osteotomy pelvis - not for DDH				X				
Revision THR								
1 stg of 2 stg rev infected THR - removal of prosthesis +/-insertion of cement spacer / antibiotic beads				X				
2 stg of 2 stg rev infected THR - removal of spacer/beads				X				
Single stage revision THR acetabular component				X				
Single stage revision THR both components				X				
Single stage revision THR femoral component				X				
Total Hip Replacement								
THR cemented				X				
THR hybrid				X				
THR surface replacement				X				
THR uncemented				X				
Femur								
Endoprosthetic replacement for malignant bone tumour - femur				X				
Femoral malunion correction or other deformity				X				
Osteotomy corrective (not for DDH)				X				

APPLIED CLINICAL SKILLS: KNEE	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
Trauma Knee								
Knee								
Acute arthroscopy for knee trauma				X				
Application of spanning external fixator				X				
Intraarticular fracture distal femur ORIF				X				
Irrigation and debridement native joint for infection (open or arthroscopic) - knee				X				
Irrigation and debridement prosthesis for infection - knee				X				
Knee MUA +/- POP			X					
Patella fracture								
Patella dislocation closed reduction +/- open repair				X				
Patella fracture ORIF				X				
Patellectomy				X				
Periprosthetic fracture of knee								
Open reduction and fixation of periprosthetic fracture - knee				X				
Revision TKR for periprosthetic fracture of knee				X				
Soft tissue repair								
Acute ligament repair				X				
Patella tendon repair				X				
Quadriceps tendon repair				X				
Supracondylar fracture (not intraarticular)								
Supracondylar fracture (not intraarticular) DCS / blade plate etc				X				
Supracondylar femur fracture (not intraarticular) external fixation				X				
Supracondylar femur fracture (not intraarticular) Intramedullary fixation				X				
Supracondylar femur fracture (not intraarticular) MUA & POP			X					
Tibial plateau fracture								
Repair of tibial spine				X				
Tibial plateau fracture arthroscopically assisted fixation				X				
Tibial plateau fracture ORIF with plates & screws				X				
Tibial plateau fracture treatment with circular frame				X				
Tibia & Fibula								
Diaphyseal tibial fracture								
Diaphyseal tibial fracture external fixation (including frame)				X				
Diaphyseal tibial fracture intramedullary nailing				X				
Diaphyseal tibial fracture MUA & POP			X					
Tibial shaft plating				X				
Fasciotomy for compartment syndrome				X				
Tibial non-union								
Tibial non-union circular frame management				X				
Tibial non-union intramedullary nailing +/- bone grafting				X				
Tibial non-union ORIF +/- bone grafting				X				
Elective Knee								
Knee								
Arthroscopic partial meniscectomy			X	X				
Arthroscopic procedures								
Arthroscopic excision of Hoffa's fat pad				X				
Arthroscopic lateral release				X				
Arthroscopic meniscectomy				X				
Arthroscopic removal loose bodies knee				X				
Arthroscopic synovectomy				X				
Arthroscopy knee diagnostic			X	X				
Meniscal repair (arthroscopic)				X				
Aspiration / injection knee joint			X					
Below knee amputation				X				

Cartilage regeneration procedures								
Abrasion arthroplasty / microfracture - knee				X				
Mosaicplasty - knee				X				
Osteochondral allografting - knee				X				
Autologous chondrocyte implantation				X				
Knee arthroplasty								
Patella resurfacing alone				X				
Patello-femoral joint replacement				X				
TKR				X				
Unicompartmental knee replacement				X				
MUA knee			X					
Osteotomy distal femoral				X				
Osteotomy proximal tibial				X				
Patella realignment				X				
Patella tendon decompression (open / arthroscopic)				X				
Release contracture knee				X				
Revision TKR								
1 stg of 2 stg rev infected TKR - removal of prosthesis +/- insertion of cement spacer / antibiotic beads				X				
2 stg of 2 stg rev infected TKR - removal of spacer/beads				X				
Revision TKR for periprosthetic fracture of knee				X				
Single stage revision TKR				X				
Soft tissue reconstruction								
ACL reconstruction - arthroscopic				X				
ACL reconstruction - open				X				
Reconstruction of posterolateral corner of knee				X				
PCL reconstruction				X				
Revision ACL reconstruction				X				
Tibia & Fibula								
Endoprosthetic replacement for malignant bone tumour - tibia				X				
Tibia or fibula malunion correction or other deformity				X				
Tibial lengthening				X				

APPLIED CLINICAL SKILLS: FOOT AND ANKLE	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
Trauma Foot and Ankle								
Ankle								
Ankle fracture / dislocation:								
Ankle fracture / dislocation MUA & POP			X					
Ankle fracture / dislocation ORIF				X				
Application of spanning external fixator				X				
Irrigation and debridement native joint for infection - ankle				X				
Irrigation and debridement prosthesis for infection - ankle				X				
Pilon fracture								
Pilon fracture ex-fix				X				
Pilon fracture ORIF				X				
Pilon fracture treatment with circular frame				X				
Foot								
Amputation toe / ray for trauma				X				
Calcaneal fracture								
Calcaneal fracture ex-fix				X				
Calcaneal fracture ORIF				X				
Metatarsal fracture ORIF				X				
Phalangeal fracture MUA +/- K wire +/- ORIF			X	X				
Removal foreign body from skin / subcutaneous tissue			X					
Talar subtalar or midtarsal fracture / dislocation								
Lisfranc fracture ORIF				X				
Midtarsal fracture / dislocation ORIF				X				
Subtalar fracture / dislocation ORIF				X				
Talar fracture / dislocation ORIF				X				
Talectomy				X				
Tarsometatarsal arthrodesis				X				
Achilles tendon repair			X	X				
Tendon repair in foot				X				
Elective Foot and Ankle								
Ankle								
Arthrodesis ankle (open /arthroscopic)				X				
Arthroplasty ankle				X				
Arthroscopic procedures								
Arthrodesis ankle - arthroscopic				X				
Arthroscopy ankle diagnostic			X	X				
Arthroscopy ankle therapeutic				X				
Arthrotomy ankle				X				
Aspiration / injection ankle joint			X					

Ligament repair / reconstruction								
Ankle - lateral ligament reconstruction				X				
Ankle - lateral ligament repair				X				
Ankle - medial ligament repair				X				
Tendon procedures								
Decompression tendons at ankle			X					
Gastrocnemius lengthening				X				
Tendo achilles reconstruction for neglected rupture				X				
Tendo-achilles lengthening				X				
Foot								
Akin osteotomy of proximal phalanx great toe				X				
Amputation toe / ray				X				
Ankle chielectomy				X				
Aspiration / injection foot joint			X					
Arthrodesis procedures								
Ankle				X				
Hindfoot				X				
Midtarsal				X				
Forefoot and toes				X				
OSTEOTOMY								
Calcaneal osteotomy				X				
Excision Haglund's deformity				X				
Excision of accessory navicular				X				
Excision of tarsal coalition				X				
Pantalar arthrodesis				X				
First metatarsal osteotomy								
First metatarsal osteotomy - basal				X				
First metatarsal osteotomy - distal				X				
First metatarsal osteotomy – other				X				
First metatarsal osteotomy - Scarf				X				
First MTPJ procedures								
First MTPJ arthrodesis				X				
First MTPJ cheilectomy				X				
First MTPJ excision arthroplasty				X				
First MTPJ replacement arthroplasty (silastic or other)				X				
First MTPJ soft tissue correction				X				
Foot malunion correction or other deformity				X				
Forefoot arthroplasty (Mann Thompson / Stainsby / Other				X				
Ingrowing toenail operation			X					
Lesser metatarsal osteotomy				X				
Lesser toe excision part/all phalanx			X	X				
MTPJ cheilectomy - not 1st				X				
Soft tissue procedures								
Excision of Morton's neuroma				X				
Fifth toe soft tissue correction				X				
Lesser toe tenotomy			X					
Plantar fascia release				X				
Tendon decompression or repair				X				
Tendon transfer foot				X				
Tibialis posterior reconstruction								
Talectomy				X				
Wedge tarsectomy				X				

APPLIED CLINICAL SKILLS: CHILDREN'S TRAUMA & ORTHOPAEDICS	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
Trauma Paediatrics								
Supracondylar elbow fracture								
Supracondylar elbow fracture MUA +/- percutaneous wires			X	X				
Supracondylar elbow fracture open reduction				X				
Forearm fractures								
Manipulation and POP forearm			X					
Manipulation and K wire forearm			X					
Titanium elastic nailing paediatric long bone				X				
Slipped upper femoral epiphysis								
Dunn procedure for slipped upper femoral epiphysis				X				
Slipped upper femoral epiphysis percutaneous cannulated screw fixation				X				
Drainage of septic arthritis of the hip			X					
Repair of avulsion of tibial eminence				X				
ORIF paediatric ankle fracture				X				
Obstetric brachial plexus injury: exploration / repair / grafting				X				
Elective Paediatrics								
Cerebral Palsy								
Adductor tenotomy - hip				X				
Botulinum toxin injection - musculoskeletal			X					
Hamstring lengthening				X				
Iliopsoas release / lengthening				X				

MTPJ arthrdoesis				X				
Patella realignment				X				
Steindler's release				X				
Tendo-achilles lengthening				X				
Tendon transfer foot				X				
Tendon transfer not hand / foot				X				
CTEV correction								
Arthrodesis for recurrence for CTEV				X				
Bony release for recurrence for CTEV				X				
CTEV correction				X				
Ilizarov correction for CTEV				X				
Percutaneous tendo-achilles release for CTEV				X				
Posterior release for CTEV				X				
Postero-medial release for CTEV				X				
Soft tissue release for recurrence for CTEV				X				
Tibialis anterior transfer for CTEV				X				
DDH								
Application of hip spica			X					
Hip MUA			X					
Open reduction for DDH				X				
Osteotomy hip - pelvic for DDH				X				
Osteotomy hip - proximal femoral for DDH				X				
Distraction lengthening of bone upper limb				X				
Excision of physeal bar (Langenskjold procedure)				X				
Femoral lengthening				X				
GA change of POP			X					
Repair of avulsion of tibial eminence (child)				X				
Sternomastoid release (torticollis)				X				
Tibial lengthening				X				