

## Clinical Skills Expectations Examinations

<b>Examinations</b>	<b>Year</b>
Basic screening	1
GCS	1
MMSE	1
MOCA	1
Cardiovascular	1
Cervical spine	1
Lumbosacral spine	1
Endocrine	1
Shoulder	2
Hand	2
Attention	2
Speech and language	2
Orientation	2
Memory	2
Judgment	2
Mood	2
Thought process	2
Thought content	2
Behaviour	2
Psychomotor	2
Cortical sensory	2
Power	2
Tone	2
Reflexes	2
Coordination	2
Balance	2
Sensory	2
Peripheral nerve	2
Dexterity	2
Gait	2
Baby neuro	2
Brain Death	3
Competency	3

## Clinical Skills Expectations Histories

<b>Clinical Presentation</b>	<b>Year</b>
Basic Screening	1
Head Trauma	1
Spine Trauma	1
Cerebrovascular	2
Brain Tumour	2
Metastatic Tumour	2
Degenerative Spine	2
Hydrocephalus	2
CNS Infection	2
Seizure	2
Headache	2
Ataxia/falls	2
Involuntary movement	2
Dementia	2
Chromosomal/genetic neuro disorder	3
Neonatal disorder	3
Developmental delay	3

<b>Functional System</b>	<b>Year</b>
Arousal/sleep	2
Attention	2
Audition	2
Vision	2
Communication	2
Memory	2
Mood	2
Behaviour	2
Insight	2
Judgment	2
Thought content	2
Thought process	2
Motor function	2
Psychomotor assessment	2
Sensory	2
Cortical sensory	2
Dexterity	2
Gait	2
Balance and equilibrium	2
Muscle disorder	2
Autonomic system	2

<b>Anatomic Approach</b>	<b>Year</b>
Temporal lobe	2
Parietal lobe	2
Frontal lobe	2
Occipital lobe	2
Cerebellum	2
Thalamus	2
Brain stem	2
Hypothalamus/pituitary	2
Foramen of monro	2
Sellar/suprasellar	2
Cavernous sinus	2
Jugular foramen	2
Orbit	2
Meckle's cave	2
Cerebellopontine angle	2
Cranial nerve	2
Arterial territory	2
Craniovertebral junction	2
Atlanto-axial spine	2
Subaxial cervical spine	2
Spinal cord	2
Spinal root(s)	2
Brachial plexus	2
Lumbosacral plexus	2
Peripheral nerve	2
Lumbosacral spine	2
Carpal tunnel	2
Cubital tunnel	2
Muscle	2

<b>Non-neurosurgical</b>	<b>Year</b>
Cardiorespiratory	1
Occupational	1
Addiction/substance abuse	1
Pain	1
Endocrine	1
Genetic history and assessment	1
Social supports	1
Sexual function	1
Smoking cessation counselling	2
Dietary history and counselling	2
Fitness assessment	2
Relationship status and dynamics	2
Competency assessment	3
Risk for anesthesia	3

## Clinical Skills Expectations Notations

<b>Notations</b>	<b>Year</b>
Admission note	1
Consultation note	1
Daily rounds visit notation	1
Discharge summary	1
Pre-op Note	2
Informed consent	3
OR Note	2

## Clinical Skills Expectations Patient Education

<b>Patient Education</b>	<b>Year</b>
Smoking cessation	1
Wound care	1
Activity limitations	1
Medication use, risks, side effects	1
Fitness production	2
Dietary advice	2
Falls prevention	2
Seizure management	2
Bad news	2
Bladder care	2
Bowel care	2
Skin care	2
Joint care	2
Spasticity care	3
Ankylosis care	3
Informed consent	3
Disease specific information	3
Complication report	3
Iatrogenic problem	3
Community resources	3

## Surgical Skills Expectations

		<b>Procedures</b>	<b>Year</b>
<b>Performance Ability</b>		Burr holes	2
		Drainage of chronic subdural hematomas	2
		The utilization of image-guidance (neuronavigation) technology.	2
		Tracheostomy	2
		Tapping of the ventricles, and the insertion of drainage catheters (for CSF shunts and intracranial pressure [ICP] recording).	3
		Surpratorial craniotomy/craniectomy	3
		Infratorial craniotomy/craniectomy	3
		Removal of intracranial hematoma	3
		The treatment of simple and compound depressed skull fractures.	3
		Craniosynostosis relief	3
		Removal of intracranial tumours, glial/meningeal/other	4
		Anterior cervical discectomy and fusion	4
		Trigeminal nerve procedures	4
		Carpal tunnel decompression	4
		Ulnar nerve transposition or decompression	4
		Shunts including ventricular peritoneal, ventriculoatrial, and ventriculopleural, as well as lumboperitoneal.	4
		Myelomeningocele/encephalocele repair	4
		Tethered cord repair	4
		Endoscopy for intracranial cyst fenestration, 3rd ventriculostomy; endoscopy for tumour biopsy or excision, removal of colloid cysts of the third ventricle.	4
		Repair of cerebral aneurysms	5
		Removal of arteriovenous malformations	5
		The transsphenoidal removal of pituitary tumours	5
		Carotid endarterectomy	5
		Management of cervical, thoracic and lumbar disc pathology, including the relevant anterior and posterior approaches.	5
		The treatment of spinal injuries and other spinal disorders, including internal and external spinal stabilization.	5
		The treatment of spinal tumours, infections and vascular lesions.	5
		Suture of lacerated nerve	5
			<b>Awareness knowledge required</b>
<b>Performance Optional</b>		Stimulators for pain control: dorsal column/deep brain	5
		Surgery for spasticity	5
		Epilepsy procedures	5
		Stereotaxy for movement disorders	5
		Other cranial and peripheral nerve surgery including brachial plexus lesions.	5
		Radiosurgery.	5
		Surgery for complex craniofacial disorders	5
	Surgery for complex dysraphic conditions	5	

<b>Techniques</b>	<b>Year</b>
Sterile technique	1
Draping	1
Mayfield application	1
Image guidance set-up	1
Microscope set-up	1
Skin incision	1
Skin closure	1
Suctioning	2
Hemostasis	2
Retraction	2
Suction	2
Craniotome	2
Halo applicationj	2
Identify instruments	2
CUSA	3
Disect soft tissue	3
Disc removal	3
Dural opening	3
Craniotome use	3
Suture soft tissues	3
Suture dura	3
Arteriotomy	4
Microsuture	4
Pedicle screw insertion	4
Odontoid screw insertion	4
Endoscopy	4
Microdissection	4
Artery closure	4
Artificial disc insertion	5
Aneurysm clipping	5