PHASE 1

Current

New

Notes

CORE: COMMON CONTENT MODULE

The Common Core module has been updated so that it is an exact copy of the common core part of the Core surgery programme. This is to enhance career flexibility and to ensure neurosurgical trainees are prepared for the MRCS examination

			MRCS	examinati	on	
	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Basic Sciences		1	•		T	T
OBJECTIVE						
To acquire and demonstrate a knowledge of the basic						
science which underpins the practice of surgery						
KNOWLEDGE		L			L	L
Applied anatomy	İ					
Physiology						
Pharmacology Microbiology	No Le	evels spe	cified	No	Levels spe	cified
Microbiology Medical Physics						
Medical Statistics						
	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Common Surgical Conditions renamed as The						
Clinical Method OBJECTIVE		ı				
To demonstrate the knowledge and clinical skill						
necessary to assess and investigate a patient						
presenting to a surgical team						
KNOWLEDGE		l				
CLINICAL SKILLS						
Reference to other relevant syllabus items	No Le	evels spe	cified	No	Levels spe	cified
Index conditions Organ systems						
Organ systems	i					
	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Peri-operative care						
OBJECTIVE						
To assess and manage preoperative risk and prepare a						
patient for theatre, to conduct safe surgery in the						
operating theatre environment and to provide medical care for the patient in the post- operative						
period.						
KNOWLEDGE						
CLINICAL SKILLS	3					
TECHNICAL SKILLS and PROCEDURES	2 to 4			1 to 3		
					1	1
Basic Surgical skills	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
OBJECTIVE OBJECTIVE						
To acquire and develop throughout the programme						
those generic technical skills common to all or many						
areas of surgical practice.						
KNOWLEDGE						
CLINICAL SKILLS	4			0.4- 4		
TECHNICAL SKILLS and PROCEDURES	3 to 4			2 to 4		
	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Critical care	0.0	0.0	0.0	T Hade T	i nace z	T Hudo G
OBJECTIVE						
To demonstrate the knowledge and clinical and						
technical skills necessary to contribute to the						
management of critically unwell patients suffering						
from traumatic injuries or sepsis. KNOWLEDGE						
CLINICAL SKILLS	4					
TECHNICAL SKILLS and PROCEDURES	4			2		
	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Surgical Care of the peadiatric patient					•	•
OBJECTIVE						
To assess and manage children with surgical						
problems, understanding the similarities and						
differences from adult surgical patients, within the						
appropriate legal and safeguarding frameworks.						
KNOWLEDGE				NIA	Levels spe	rified
CLINICAL SKILLS	3			140	revers she	onicu
ı	CT2	0.70	0.70	D	Di	Di -
Management of the dying patient	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
OBJECTIVE						
	1	I				

Phase 1 is designed to be completed in an indicative 2 years whereas intial phase training was designed to be completed in 3 years. Some of the expected knowledge and technical skills levels are therefore marginally lower than they were previously.

To assess and manage preoperative risk and prepare a patient for theatre, to conduct safe surgery in the						
operating theatre environment and to provide medical care for the patient in the post- operative						
period.						
KNOWLEDGE CLINICAL SKILLS	3			No	cified	
	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Health Promotion						
OBJECTIVE To assess and manage preoperative risk and prepare a						
patient for theatre, to conduct safe surgery in the operating theatre environment and to provide medical care for the patient in the post- operative						
period. KNOWLEDGE						
CLINICAL SKILLS REFERENCE TO OTHER RELEVANT SYLLABUS	3 to 4 2 to 4			No	Levels spe	cified
CORE NEUROSCIENCES	levels content	have be has rem been bro r	een removained the ought tog	ved from al same but ether as ha siology mo	ave two of todules.	anatomy dules have he
Neuroanatomy	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
OBJECTIVE						
To understand neuroanatomy and embryology KNOWLEDGE						
Embryology and Maldevelopment Anatomy of the Skull Anatomy of the Brain Anatomy of the Spine Anatomy of the Autonomic and Peripheral Nervous Systems	4 4 4 4			No Levels specified		
	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Neurophysiology						
OBJECTIVE To understand the functional organisation and integration	on of the o	antrol nor	ione exetor			
KNOWLEDGE Functional Neurophysiology Pathophysiology of intracranial disorders	4	entrar nerv	vous system		Levels spe	cified
r amophysiology of intractanial disorders	4					
	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Neuropharmacology						
OBJECTIVE To understand the principles of neuropharmacologyisch	naemia neo	o-plasia ar	nd trauma a	ffecting the	nervous syste	m
KNOWLEDGE		praora ar			Levels spe	
Principles of Neuropharmacology	4			NO	Levels spec	Silled
					1	
Neuropathology	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
OBJECTIVE To understand the neuropathology of infection, inflamm	nation, isch	naemia, ne	eo-plasia an	d trauma aff	ecting the ne	rvous system
KNOWLEDGE Principles of Neuropathology	4			No	Levels spe	cified
Normanadia la mu	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Neuroradiology OBJECTIVE						
To understand the principles of neuroradiological imag	ing of the s	tructure a	nd function	of the nervo	ous system	
KNOWLEDGE Principles of Neuroradiology	4			No	Levels spe	cified
	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Clinical Neurophysiology OBJECTIVE						
To understand the basic principles of clinical neurophy	siology					
KNOWLEDGE Principles of Neurophysiology	4			No	Levels spe	cified
	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Neuropsychology						
OBJECTIVE To understand the principles of neuropsychological ass	essment, aj	oplication	of the Men	tal Health A	ct	

KNOWLEDGE				No	Levels spe	cified
Principles of Neuropsychology	3			110	Lovoio opo	omou
Neurorehabilitation	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
OBJECTIVE						
To understand the principles of neurological rehabilitat	ion					
KNOWLEDGE Principles of Neurological Rehabilitation				No	Levels spe	cified
Trinciples of Neurological Kenabintation	3				•	
Medical Ethics	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
OBJECTIVE						
To understand the ethical issues that commonly arise in	the manag	gement of	patients w	ith neurologic	cal disorders	
KNOWLEDGE Principles of Medical Ethics	2 (4)	1		No	Levels spec	cified
Trinciples of Medical Edities	3 (4)					
Neurogenetics	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
OBJECTIVE						
To understand the principles of neurogenetic studies an	d their rele	vance to	clinical pra	ctice		l .
KNOWLEDGE Principles of Neurogenetics	3		1	No	Levels spec	cified
1 morphes of 1 tour ogeneras	3					
COMMON NEUROLOGICAL PRESENTATIONS	conci lumba	ousness r punctu	s has bee ire has be	anged exce n moved to en moved to Il levels hav	critical co to index pr	nditions, ocedures
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ST3 ST6 ST8

ST6

ST8

ST8

4

4

ST3 ST6

ST3

Hearing disorder
OBJECTIVE

KNOWLEDGE CLINICAL SKILLS

Visual disorder
OBJECTIVE
disorders
KNOWLEDGE

CLINICAL SKILLS

Language and speech disturbance

Phase 1 Phase 2 Phase 3

No Levels specified

No Levels specified

Phase 1 Phase 2 Phase 3

Lumbar puncture removed from this section (it is an index procedure - see below)

OBJECTIVE ST3 ST6 ST8 CLINICAL SKILLS SWallowing disorders SWALLS SWALS	disturbances of language and speech KNOWLEDGE CLINICAL SKILLS ST3 ST6 ST8 Phase 1 Phase 2 Phase Swallowing disorders OBJECTIVE swallowing disorders KNOWLEDGE CLINICAL SKILLS ST3 ST6 ST8 Phase 1 Phase 2 Phase Swallowing disorders KNOWLEDGE CLINICAL SKILLS ST3 ST6 ST8 Phase 1 Phase 2 Phase ST3 ST6 ST8 Phase 1 Phase 2 Phase Disorders of sphincteric and sexual dysfunction OBJECTIVE sphincteric disorders KNOWLEDGE KNOWLEDGE A ST3 ST6 ST8 A S
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Memory and cognitive disorders OBJECTIVE disorders of memory and cognition KNOWLEDGE CLINICAL SKILLS ST3 ST6 ST8 Phase 1 Phase 2 Phase 3 Behavioural disorders OBJECTIVE behavioural disorders KNOWLEDGE A Development of the phase 2 Phase 3 Phase 1 Phase 2 Phase 3 Phase 3 Phase 4 Phase 3	
Memory and cognitive disorders OBJECTIVE disorders of memory and cognition KNOWLEDGE CLINICAL SKILLS ST3 ST6 ST8 Phase 1 Phase 2 Phase 3 Behavioural disorders OBJECTIVE behavioural disorders KNOWLEDGE A DRIVED BEHAVIOURAL SKILLS No Levels specified No Levels specified	
OBJECTIVE disorders of memory and cognition KNOWLEDGE CLINICAL SKILLS ST3 ST6 ST8 Phase 1 Phase 2 Phase 3 Behavioural disorders OBJECTIVE behavioural disorders KNOWLEDGE A	
disorders of memory and cognition KNOWLEDGE CLINICAL SKILLS ST3 ST6 ST8 Phase 1 Phase 2 Phase 3 Behavioural disorders OBJECTIVE behavioural disorders KNOWLEDGE 4 No Levels specified	
KNOWLEDGE CLINICAL SKILLS ST3 ST6 ST8 Behavioural disorders OBJECTIVE behavioural disorders KNOWLEDGE KNOWLEDGE A No Levels specified No Levels specified No Levels specified	
CLINICAL SKILLS ST3 ST6 ST8 Phase 1 Phase 2 Phase 3 Behavioural disorders OBJECTIVE behavioural disorders KNOWLEDGE A No Levels specified	
ST3 ST6 ST8 Behavioural disorders OBJECTIVE behavioural disorders KNOWLEDGE A No Levels specified	No Levels specified
Behavioural disorders OBJECTIVE behavioural disorders KNOWLEDGE A No Levels specified	essite is stilled
Behavioural disorders OBJECTIVE behavioural disorders KNOWLEDGE A No Levels specified	
OBJECTIVE behavioural disorders KNOWLEDGE 4 No Levels specified	ST3 ST6 ST8 Phase 1 Phase 2 Phase
behavioural disorders KNOWLEDGE 4 No Levels specified	Behavioural disorders
KNOWLEDGE 4 No Levels specified	
No Levels specified	
CLINICAL SKILLS 4	No Levels specified
	CLINICAL SKILLS 4

INDEX PROCEDURES

Insertion of EVD

OBJECTIVE

Most of these index procedures have been moved from basic clinical neurosurgery - craniotomy and lumbar approach are new.

	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Lumbar puncture and Lumbar Drain Insertion						
OBJECTIVE						
To achieve competence in performing lumbar punctur	es and in-se	rting lumb	oar drains			
KNOWLEDGE	3 to 4			4		
TECHNICAL SKILLS and PROCEDURE	4			4		
	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Insertion of ICP monitor						
OBJECTIVE						
To achieve competence in the insertion of intraparence	hymal ICP 1	nonitors				
KNOWLEDGE	4			3		
TECHNICAL SKILLS and PROCEDURE	4					
	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Burr hole evacuation of chronic subdural						
haematoma						
OBJECTIVE						
	onic subdur	al haemate	omas			
OBJECTIVE	onic subdur		omas	2		

ST3 ST6 ST8

To achieve competence in inserting an EVD			
KNOWLEDGE		2	
TECHNICAL SKILLS and PROCEDURE	3		

	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Craniotomy						
OBJECTIVE						
To achieve competence in performing a craniotomy						
KNOWLEDGE TECHNICAL SKILLS and PROCEDURE				2		

This is an addition - it is an essential emergency skill which a day 1 phase 2 trainee needs to be able to do

	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Lumbar decompression (approach)						
OBJECTIVE						
To achieve competence in approach to decompressing t	To achieve competence in approach to decompressing the lumbar canal					
KNOWLEDGE				2		
TECHNICAL SKILLS and PROCEDURE						

This is an addition - it is an essential emergency skill which a day 1 phase 2 trainee needs to be able to do

The old curriculum incorporated technical skills into the assessment of these critical conditions. The new

curriculum is measured using knowledge scores not technical ability scores.

Topics

Cranial Trauma

	ST3	ST6	ST8
Early and surgical management of the head injured patient			
OBJECTIVE			
To achieve competence in all aspects of the general and surgical management of head-injured patients			
KNOWLEDGE		4	4
CLINICAL SKILLS		4	4
TECHNICAL SKILLS and PROCEDURES		3	3 to 4

Phase 1	Phase 2	Phase 3	General management of the head injured patient and surgical management of cranial trauma have been brought together
No	Levels spec	ified	

	ST3	ST6	ST8
Neuro-intensive care and ward based care of the head-injured patient			
, ,			
OBJECTIVE			
To achieve competence in the neurointensive care of			
head-injured patients			
KNOWLEDGE		4	
CLINICAL SKILLS		4	

Phase 1	Phase 2	Phase 3			
No Levels specified					

Neurological rehabilitation following head	ST3	ST6	ST8
injury OBJECTIVE			
To understand the role of post-traumatic neurological rehabilitation			
KNOWLEDGE		4	
CLINICAL SKILLS		4	

Phase 1	Phase 2	Phase 3						
No Levels specified								

CSF Pathologies

	ST3	ST6	ST8				
Hydrocephalus							
OBJECTIVE							
To achieve competence the assessment and							
operative management of patients with							
communicating and non-communicating							
hydrocephalus.							
KNOWLEDGE		4	4				
CLINICAL SKILLS		4	4				
TECHNICAL SKILLS and PROCEDURES		2 to 4	2 to 4				

Phase 1	Phase 2	Phase 3	hydrocpehlaus
No	Levels spec	ified	
	'		

	ST3	ST6	ST8
Idiopathic and Venous Intracranial Hypertension			
OBJECTIVE			
To achieve competence the assessment and			
operative management of adult patients with raised			
intracranial pressure from venous or idiopathic			
causes.			
KNOWLEDGE			
CLINICAL SKILLS			
TECHNICAL SKILLS and PROCEDURES			

Phase 1	Phase 2	Phase 3
No	Levels spec	ified

mportant topic - omitted from	
previous curriculum	

	ST3	ST6	ST8
Arachnoid cysts			
OBJECTIVE			
To achieve competence in the management of			
cranial and spinal arachnoid cysts			
KNOWLEDGE			
CLINICAL SKILLS			
TECHNICAL SKILLS and PROCEDURES			

Phase 1	Phase 2	Phase 3	ļ
No	Levels spec	ified	

mportant topic - omitted from revious curriculum

	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3	Important topic - omitted from
Hind brain herniation and syringomyelia	010	0.10	0.10	T Hadd T	T Hadd 2	1 11400 0	previous curriculum
OBJECTIVE							
To achieve competence in the management of craniocervical stenosis, hindbrain herniation and							
syringomyelia							
KNOWLEDGE CLINICAL SKILLS			4	No	Levels spec	ified	
TECHNICAL SKILLS and PROCEDURES			3	110	Levels spee	illed	
	_						-
Neuro-oncology	CT2	CT6	ST8	Dhoos 1	Dhoon 2	Dhoos 2	1
General Principles of Neuroncology	ST3	ST6	310	Phase 1	Phase 2	Phase 3	i
OBJECTIVE							
To achieve competence in the multi-disciplinary							
management of patients with intracranial neoplasia							
KNOWLEDGE CLINICAL SKILLS		4		No	Levels spec	ified	
OLINIOAL GRIELO		4					1
		1 '			ı	1	Incorporates principles of image
	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3	guided surgery
Intrinsic tumours							
OBJECTIVE To achieve competence in the operative							1
management of Intrinsic tumours						<u> </u>	
KNOWLEDGE CLINICAL SKILLS		4				4	
TECHNICAL SKILLS and PROCEDURES		3				4	
	=		-				_
	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3	1
Meningiomas	0.10	0.0	0.10	T Hadd T	1 11000 2	T Hade 6	
OBJECTIVE To achieve competence in the enerative							
To achieve competence in the operative management of mengingiomas							
KNOWLEDGE		4			l	ı	
CLINICAL SKILLS TECHNICAL SKILLS and PROCEDURES		3		No	Levels spec	ified	
TESTIMONE SMEES and I MOSESSMES		J 3					1
	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3	1
Cerebellopontine angle tumours	313	310	310	Filase i	Filase 2	Filase 3	i
OBJECTIVE							
To achieve competence in the management of patients with cerebellopontine angle tumours							
KNOWLEDGE			3 to 4				1
CLINICAL SKILLS			4			4	
TECHNICAL SKILLS and PROCEDURES			2 to 4				
		1			T	,	1
Sellar and suprasellar mass lesions	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3	1
OBJECTIVE]
To achieve competence in transphenoidal and cranial approaches to sellar and suprasellar mass							
lesions							
KNOWLEDGE			4				1
CLINICAL SKILLS TECHNICAL SKILLS and PROCEDURES			2 to 3			4	
TEO. INIO IE OTTEES AND THOUSE OF THE			2 10 3				
	CT2	CTC	CT0	Dhasa 4	Dhana 2	Dhana 2	1
	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3	1
Intraventricular and pineal region tumours							
OBJECTIVE To achieve competence in the management of							-
patients with pineal region and third ventricular							
tumours including colloid cysts]
KNOWLEDGE CLINICAL SKILLS			4			4	
TECHNICAL SKILLS and PROCEDURES			2 to 3]
	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3	1
Skull and skull base tumours]
OBJECTIVE To achieve competence in the assessment of							1
patients with skull and skull base lesions							
		1			1	1	•

						1
KNOWLEDGE			4			4
CLINICAL SKILLS TECHNICAL SKILLS and PROCEDURES			2 to 4			4
TEGINIONE GIVEES and I PROSESSIVES			2 10 4			
ſ	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Brainstem tumours						
OBJECTIVE						
To achieve competence in the surgical aspects of the	·					
multidisciplinary management of patients with						
intrinsic brainstem tumours						
KNOWLEDGE			-			4
CLINICAL SKILLS TECHNICAL SKILLS and PROCEDURES						4
Neurovascular						
Duine and Infrared Infrared III	ST3	ST6	ST8	Phase 1	Phase 2	Phase
Primary Intracerebral Haemorrhage						
OBJECTIVE To achieve competence in the operative						
management of space-occupying spontaneous						
intracerebral haematomas						
KNOWLEDGE		4			l .	l
CLINICAL SKILLS		4		No	Levels spec	ified
TECHNICAL SKILLS and PROCEDURES		3			<u> </u>	
	ST3	ST6	ST8	Phase 1	Phase 2	Phase
Aneurysmal subarachnoid haemorrhage						<u> </u>
OBJECTIVE						
To achieve competence in the surgical aspects of the						
multi-disciplinary management of aneurysmal						
subarachnoid haemorrhage						
KNOWLEDGE CLINICAL SKILLS		4		No	Levels spec	ified
TECHNICAL SKILLS and PROCEDURES		3 to 4		INO	Levels spec	illeu
		0.0				
	ST3	ST6	ST8	Phase 1	Phase 2	Phase
Intracranial aneurysms						
OBJECTIVE						
To achieve competence in the surgical aspects of the						
multi-disciplinary management of ruptured and unruptured intracranial aneurysms						
KNOWLEDGE			3 to 4			
CLINICAL SKILLS			3 10 4			4
TECHNICAL SKILLS and PROCEDURES			2 to 4			
	ST3	ST6	ST8	Phase 1	Phase 2	Phase
Vascular malformations						
OBJECTIVE To achieve competence in the surgical aspects of the						
multi-disciplinary management of vascular						
malformations						
KNOWLEDGE			3 to 4			
CLINICAL SKILLS			3 10 4			4
TECHNICAL SKILLS and PROCEDURES			2 to 3			
On always to all the state of t	ST3	ST6	ST8	Phase 1	Phase 2	Phase
Occlusive cerebrovascular disease						
OBJECTIVE						
To achieve competence in the clinical management						
of occlusive cerebrovascular disease						
KNOWI FDGF			2 to 3			

CNIC	Infect	inn

KNOWLEDGE
CLINICAL SKILLS
TECHNICAL SKILLS and PROCEDURES

	ST3	ST6	ST8
Intracerebral abscess and subdural			
empyema			
OBJECTIVE			

Phase 1	Phase 2	Phase 3

4

2 to 3 3 to 4

Incorporates general microbiological principles and management of intracerebral abscess

To achieve competence in the management of patients with CNS infections including ventriculitis, cerebral abscess and subdural empyema			
KNOWLEDGE	4	4	
CLINICAL SKILLS	4	3 to 4	N
TECHNICAL SKILLS and PROCEDURES	4	3 to 4	

No Levels specified				

Spinal Trauma

	ST3	ST6	ST8
General management of the spinal injury patient			
OBJECTIVE			
To achieve competence in all aspects of the non-			
operative management of spinal injury patients.			
KNOWLEDGE		4	
CLINICAL SKILLS		4	
TECHNICAL SKILLS and PROCEDURES		2 to 4	

Phase 1	Phase 2	Phase 3
No Levels specified		

	ST3	ST6	ST8
Cervical spine fractures			
OBJECTIVE			
To achieve competence in the general management			
of fractures of the cervical spine			
KNOWLEDGE			4
CLINICAL SKILLS			4
TECHNICAL SKILLS and PROCEDURES			4

Phase 1	Phase 2	Phase 3
		4

	ST3	ST6	ST8
Thoraco-lumbar fractures			
OBJECTIVE			
To achieve competence in the general management			
of thoracolumbar fractures			
KNOWLEDGE			4
CLINICAL SKILLS			4
TECHNICAL SKILLS and PROCEDURES			2

Phase 1	Phase 2	Phase 3
		4

Spinal Oncology

-pa			
<u> </u>	ST3	ST6	ST8
Malignant extradural spinal tumours			
OBJECTIVE			
To achieve competence in the general management of patients with malignant spinal cord compression and their surgical management.			
KNOWLEDGE		4	4
CLINICAL SKILLS		4	4
TECHNICAL SKILLS and PROCEDURES		2 to 4	3 to 4

Phase 1	Phase 2		
			Malignant spinal cord compression and surgical management of thoraco- lumbar metastases brought together
		4	

	ST3	ST6	ST8
Intradural extramedullary and intramedullary tumours			
OBJECTIVE			
To achieve competence in the management of			
patients with intradural tumours			
KNOWLEDGE			4
CLINICAL SKILLS			4
TECHNICAL SKILLS and PROCEDURES		·	2 to 4

Phase 1	Phase 2	Phase 3
		4

Spinal Degenerative disease

	ST3	ST6	ST8
Lumbar radiculopathies			
OBJECTIVE			
To achieve competence in the surgical management of lumbar compressive radiculopathy			
KNOWLEDGE		4	4
CLINICAL SKILLS		4	4
TECHNICAL SKILLS and PROCEDURES		3	4

Phase 1	Phase 2	Phase 3
		4

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	513	516	518	Phase 1	Phase 2	Phase 3	ı

Compressive cervical myeloradiculopathies						
OBJECTIVE						
To achieve competence in the surgical management of compressive cervical myeloradiculopathies						
KNOWLEDGE CLINICAL SKILLS		4	4			4
TECHNICAL SKILLS and PROCEDURES		3	4			
	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Rheumatoid disease	010	010	010	Thuse	TildSC 2	T Hase o
OBJECTIVE To understand the management of rheumatoid						
patients with atlanto-axial subluxation, cranial settling and related disorders						
KNOWLEDGE		4	3 to 4			4
CLINICAL SKILLS TECHNICAL SKILLS and PROCEDURES		3	2			4
Spinal Infection	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Spinal epidural abscess	313	310	310	Filase I	Filase 2	Pilase 3
OBJECTIVE To achieve competence in the operative						
management of spinal epidural abscess KNOWLEDGE			4			
CLINICAL SKILLS			3 to 4	No	Levels spec	ified
TECHNICAL SKILLS and PROCEDURES			4			
	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Vertebral osteomyelitis and discitis OBJECTIVE		1				I
To achieve competence in the operative management of vertebral osteomyelitis and discitis						
KNOWLEDGE CLINICAL SKILLS			3 to 4	No	Levels spec	ified
TECHNICAL SKILLS and PROCEDURES			2			
Dain Failance and Frantismal						
Pain, Epilepsy and Functional	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Movement disorders OBJECTIVE						I
To understand the management of patients with movement disorders						
KNOWLEDGE			2 to 4			
CLINICAL SKILLS TECHNICAL SKILLS and PROCEDURES			3			4
Chronic pain	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
OBJECTIVE		l				I
To understand the management of patients with chronic pain syndromes						
KNOWLEDGE			3			4
CLINICAL SKILLS TECHNICAL SKILLS and PROCEDURES			3 to 4			4
	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Trigeminal neuralgia and hemifacial spasm OBJECTIVE						
To achieve competence in the surgical aspects of the						
multi-disciplinary man-agement of patients with trigeminal neuralgia						
KNOWLEDGE CLINICAL SKILLS			4			4
TECHNICAL SKILLS and PROCEDURES			2 to 3			4

	ST3	ST6	ST8
Epilepsy			
OBJECTIVE			

Phase 1	Phase 2	Phase 3

	i	i.				
To understand the management of patients with	Ì					
diopathic and lesional epilepsy						
KNOWLEDGE			3 to 4			
CLINICAL SKILLS			4			4
TECHNICAL SKILLS and PROCEDURES			3			
,					1	
Specialty	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Spasticity						
OBJECTIVE						
To achieve competence in the surgical aspects of the	i					
multi-disciplinary management of patients with	İ					
spasticity						
KNOWLEDGE						
CLINICAL SKILLS						4
TECHNICAL SKILLS and PROCEDURES						
,				-	,	
	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Surgery for mental illness						
OBJECTIVE						
To be familiar with current surgical treatment	Ī					
options for treatment resistant mental illness and in	Ì					
particular depression and obsessive compulsive	Ì					
disorder						
KNOWLEDGE						
CLINICAL SKILLS						4
TECHNICAL SKILLS and PROCEDURES						
Paediatrics						
	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Paediatric head and spinal injury						
OBJECTIVE						
To achieve competence the management of	i					
accidental and non-accidental paediatric head and	i					
spinal injuries.						
KNOWLEDGE			4			
CLINICAL SKILLS			3 to 4			4
TECHNICAL SKILLS and PROCEDURES			3 to 4			
	•					-
<u>-</u>						
	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Paediatric hydrocephalus						
OBJECTIVE						
Paediatric hydrocephalus OBJECTIVE To achieve competence in the assessment of						

	ST3	ST6	ST8
Paediatric hydrocephalus			
OBJECTIVE			
To achieve competence in the assessment of			
children with hydrocephalus. To undertake			
emergency external ventricular drainage in children			
with acute hydrocephalus			
KNOWLEDGE		4	4
CLINICAL SKILLS		4	4
TECHNICAL SKILLS and PROCEDURES		2 to 4	3 to 4

Phase 1	Phase 2	Phase 3
		4

	ST3	ST6	ST8
Paediatric tumours			
OBJECTIVE			
To achieve competence in the emergency			
neurosurgical management of children presenting			
with intracranial tumours			
KNOWLEDGE			
CLINICAL SKILLS			
TECHNICAL SKILLS and PROCEDURES			

Phase 1	Phase 2	Phase 3
		3
		,

	ST3	ST6	ST8
Paediatric intracranial vascular disorders			
OBJECTIVE			
To achieve competence in the emergency			
neurosurgical management of children presenting			
with intracranial vascular disorders			
KNOWLEDGE			4
CLINICAL SKILLS			4
TECHNICAL SKILLS and PROCEDURES			4

Phase 1	Phase 2	Phase 3			
		3			

	ST3	ST6	ST8
Congenital spinal disorders			
OBJECTIVE			

Phase 1	Phase 2	Phase 3

To achieve competence in all aspects of the management (operative and non-operative) of children with congenital spinal disorders				
KNOWLEDGE				
CLINICAL SKILLS				4
TECHNICAL SKILLS and PROCEDURES				

	ST3	ST6	ST8
Craniofacial disorders			
OBJECTIVE			
To achieve competence in all aspects of the			
management of children with simple cranio-			
synostosis and cranial deformity after trauma or			
tumours			
KNOWLEDGE			
CLINICAL SKILLS			
TECHNICAL SKILLS and PROCEDURES			

Phase 2	Phase 3
	3
	Phase 2

	ST3	ST6	ST8
Paediatric epilepsy			
OBJECTIVE			
To understand the management of paediatric			
epilepsy and the assessment of children for epilepsy			
surgery			
KNOWLEDGE			
CLINICAL SKILLS			
TECHNICAL SKILLS and PROCEDURES			

Phase 1	Phase 2	Phase 3
		3

	ST3	ST6	ST8
Paediatric spasticity and movement disorders			
OBJECTIVE			
To understand the principles of surgical			
management of spastic-ity and movement disorders			
in children			
KNOWLEDGE			
CLINICAL SKILLS			
TECHNICAL SKILLS and PROCEDURES			

Phase 1	Phase 2	Phase 3
		3

Peripheral Nerve Neurosurgery

	ST3	ST6	ST8
Peripheral nerve compression			
OBJECTIVE			
To achieve competence in carpal tunnel			
decompression. To achieve competence in the			
management of ulnar neuropathy			
KNOWLEDGE			4
CLINICAL SKILLS			4
TECHNICAL SKILLS and PROCEDURES			4

Phase 1	Phase 2	Phase 3			
No Levels specified					

Advanced Microsurgical Skills

	313	310	310
Peripheral nerve compression			
OBJECTIVE			
To achieve competence in carpal tunnel			
decompression. To achieve competence in the			
management of ulnar neuropathy			
KNOWLEDGE			
CLINICAL SKILLS			
TECHNICAL SKILLS and PROCEDURES			

Phase 1	Phase 2	Phase 3		
No Levels specified				

INDEX PROCEDURES

	ST3	ST6	ST8	H
`Advanced adult supratentorial				ı
OBJECTIVE				
To achieve technical competence in advanced adult su	pratentorial s	urgery		
KNOWLEDGE				ı
TECHNICAL SKILLS and PROCEDURE		3		

Phase 1	Phase 2	Phase 3
=		
	3	4

	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Endoscopic and transphenoidal						
OBJECTIVE						
To achieve technical competence in endoscopic and	l transphe-noida	al surgery				
KNOWLEDGE					3	2 (4)
TECHNICAL SKILLS and PROCEDURE		2			3	3 (4)
<u>, </u>	•		-			
	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Convexity and falcine meningiomas						
OBJECTIVE						
To achieve technical competence in convexity and	falcine menin-g	ioma surgery				
KNOWLEDGE					3	4
TECHNICAL SKILLS and PROCEDURE		3			3	4
	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Advanced adult infratentorial						
OBJECTIVE						
To achieve technical competence in advanced adult	infratentorial s	urgery				
KNOWLEDGE					3	4
TECHNICAL SKILLS and PROCEDURE		3			ŭ	
I	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Intradural spine						
OBJECTIVE						
To achieve technical competence in intradural spina	al surgery			-		
KNOWLEDGE		_			3	4
TECHNICAL SKILLS and PROCEDURE		2			-	
	0.70	0.70	0.70			- ·
Complex eninal fusion	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Complex spinal fusion		1			ı	ı
OBJECTIVE						
To achieve technical competence in spinal fusion su KNOWLEDGE	irgery				1	1
TECHNICAL SKILLS and PROCEDURE		-			3	3 (4)
TECHNICAL SKIELS and I ROCEDORE						
	ST3	ST6	ST8	Phase 1	Phase 2	Dhace 2
Advanced paediatric supratentorial	313	310	310	riidse 1	FilaSe Z	Phase 3
OBJECTIVE						
To gain experience in advanced paediatric supraten	torial surgery					
KNOWLEDGE	witai suigely					
TECHNICAL SKILLS and PROCEDURE	-	1			2	2 (3)
12011 (IO/IL) SKILLD WINT ROCEDORE		1	L		l	l
	ST3	ST6	ST8	Phase 1	Phase 2	Phase 3
Advanced paediatric infratentorial	5.5	1 010		1 11030 1	i nase z	. 11430 0
OBJECTIVE						
To gain experience in advanced paediatric infratent	orial surgery					
KNOWLEDGE	on surgery	1			I	Ī
TECHNICAL SKILLS and PROCEDURE	-				2	2 (3)
		l .	J		l .	l .

CRITICAL CONDITIONS

	ST3	ST6	ST8	Phase 1
Impaired conciousness and seizures				
OBJECTIVE				
To achieve competence in the emergency managemen	t of patien	ts present	ting with in	npaired cor
KNOWLEDGE	4			
CLINICAL SKILLS	4			4
TECHNICAL SKILLS and PROCEDURE	4			
	ОТО	OTO	ОТО	Discood
	ST3	ST6	ST8	Phase 1
Cranial trauma				
OBJECTIVE	1			nt of hood
To achieve competence in the emergency, intensive ca KNOWLEDGE	ire and wa		manageme	nt of nead-
CLINICAL SKILLS	3 (4)	4	4	3
TECHNICAL SKILLS and PROCEDURE	3 (4)	3 (4)	4	3
TECHNOLIS SKIEES and TROCEDOKE	J (4)	3 (4)	4	
	ST3	ST6	ST8	Phase 1
Acuto hydroconhalus				
Acute hydrocephalus OBJECTIVE				
ICADAL CALIVI				

KNOWLEDGE	4	4	4	
CLINICAL SKILLS	3 (4)	4	4	3
TECHNICAL SKILLS and PROCEDURE	3 (4)	2 to 4	4	
	<u> </u>	•	-	
	ST3	ST6	ST8	Phase 1
Acute tumour presentations				
OBJECTIVE				
To achieve competence in the emergency, intensive ca	are and wa	rd based 1	nanagemei	nt of patien
KNOWLEDGE	3 (4)	4	4	
CLINICAL SKILLS	4	4	4	2
TECHNICAL SKILLS and PROCEDURE		3	4	
	<u> </u>	<u> </u>	•	
	ST3	ST6	ST8	Phase 1
Spontaneous intracranial haemorrhage				
OBJECTIVE				
To achieve competence in the emergency, intensive ca	are and wa	rd based 1	nanagemei	nt of patien
KNOWLEDGE	4	4	4	
CLINICAL SKILLS	3 (4)	4	4	2
TECHNICAL SKILLS and PROCEDURE	4	3	4	
		-		
	ST3	ST6	ST8	Phase 1
CNS infections				
OBJECTIVE				
To achieve competence in the emergency, intensive ca	are and wa	rd based 1	nanagemei	nt of CNS
KNOWLEDGE		4	4	
CLINICAL SKILLS		4	4	2
TECHNICAL SKILLS and PROCEDURE		4	4	
	ST3	ST6	ST8	Phase 1
Spinal trauma	- · · ·			
OBJECTIVE				
To achieve competence in the emergency, intensive ca	are and wa	rd based 1	nanagemei	nt of spinal
KNOWLEDGE	4	4	4	or spinal
	. 71	-T I		
CLINICAL SKILLS		4	1	2

TECHNICAL SKILLS and PROCEDURE		2 to 4	4	
	ST3	ST6	ST8	Phase 1
Spinal oncology	010	010	010	i ilase i
OBJECTIVE				
To achieve competence in the emergency, intensive ca	are and wa	rd based i	managemer	nt of spina
KNOWLEDGE	4	4	4	
CLINICAL SKILLS		4	4	2
TECHNICAL SKILLS and PROCEDURE		2 to 3	4	
				<u> </u>
	ST3	ST6	ST8	Phase 1
Acute spinal disorders and cauda equina syn	drome			
OBJECTIVE	1			
To achieve competence in the emergency, intensive ca KNOWLEDGE	are and wa		managemer	it of acute
CLINICAL SKILLS	4	4	4	3
TECHNICAL SKILLS and PROCEDURE		3	4	3
TECHNICAE SKIEES and I ROCEDORE		3	4	
	ST3	ST6	ST8	Phase 1
Emergency paediatric neurosurgery				
OBJECTIVE	2 1			
To achieve competence in the emergency managemen	t of paedi		osurgical pa	itients
KNOWLEDGE		4	4	
CLINICAL SKILLS		4	4	1
TECHNICAL SKILLS and PROCEDURE		2 to 4	4	

The old curriculum incorporated technical skills into the assessment of these critical conditions. The new curriculum is measured using knowledge scores not technical ability scores.

Phase 3	
	ı
	•
s and non-	
4	

renamed - was impaired conciousness and non-traumatic coma. Also moved from common neurological presentations section above

Phase 2 Phase 3

general management of the head injured patient and management of soft tissue trauma have been brought together for this critical condition. The procedures of insertion of ICP monitor and drainage of chronic subdural haematoma are phase 1 index procedures (see below)

injured pat	ients
4	4

Phase 2 Phase 3

Management of post haemorrhagic hydrocephalus and adult hydrocephalus have been brought together. Lumbar puncture and insertion of EVD are index procedures at this level.

its with acute hydroc

4	4
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Phase 2	Phase 3
ıts with int	racranial t
4	4

Renamed from assessment and perioperative management of patients with space-occupying intracranial tumours

Phase 2 Phase 3

Its with subarachnoic

General management of subarcahnoid haemorrhage and management of delayed secondary ischaemia have been brought together. Lumbar puncture is an index procedure

4 4

Phase 2	Phase 3
infections	
4	4
'	'

This was missed in the initial ST1 -3 part of the current curriculum

Phase 2 Phase 3

trauma

Expanded from acute spinal disorders

Phase 2	Phase 3	Expanded from acute spinal disorders
oncology		
4	4	

Phase 2	Phase 3	
		Expanded from acute spinal disorders
spinal disc	orders espe	
4	4	

Phase 2		This is an addition - it is an important emergency condition which phase 1 trainees do need some knowledge of.
4	4	