## A5 Acute neurological, cognitive or affective presentations

This module covers primary disorders of brain/brain function – organic or psychiatric in nature.

Assessment of these competencies via Mini-CEX, CbD (formative or summative) or ACAT-EM and a reflective log. In addition, key aspects of communication and professionalism can be captured through PS and MSF

Potential presentations in which these competencies could be assessed include the following:

- Sudden onset weakness, slurring of speech, confusion or change in conscious level
- Acute onset dizziness and vertigo
- 'First Fit' or status epilepticus
- Isolated head injury
- Meningitis/encephalitis
- Acute onset unilateral weakness or loss of sensation
- Severe headache with red flag signs or symptoms
- Acute presentation in patient with multiple sclerosis
- Psychiatric (inc. neuropsychiatric)/affective (such as agitation, severe acute anxiety, mania, hallucinations or psychotic symptoms
- Delirium/dementia (cognitive dysfunction) and mental state examination

Core competencies to achieve (for all patients), are EPA level 3 (Indirect activepartial supervision by senior clinician, no prompting or help provided, direct line of vision or supervisor immediately available).

Knowledge/ Skill/ Behaviour	Detail of competency
Knowledge-	Recalls the common epileptic syndromes, causes and treatments for
Organic	seizures; including relevant indications for investigations for a 'first fit'
conditions	Recognises status epilepticus in the spectrum of seizure disorder and
	the priorities for immediate medical care
	Is able to describe the basic neuro-anatomy of the brain, relevant
	central neurological/sensory functions and how these may be
	affected by disease or injury
	Is able to describe the neuro-anatomy and physiology relevant to
	balance, coordination and movement; differentiate the different
	types of vertigo and ataxia and their causes
	Can outline the neuro-anatomy and physiology of the components
	of the motor system, including differentiation of upper and lower
	motor neurone conditions

Knowledge/	Detail of competency
Skill/ Behaviour	
	Outlines the neuro-anatomy and physiology of sensation (especially
	pain) and the causes of abnormal sensation and likely site of lesion
	Outlines common causes and treatment of primary headache
	disorders and be able to differentiate between these and
	secondary headache
	Outlines common and life-threatening causes of acute new
	secondary headache, including 'red flag' signs and symptoms and
	indications for urgent neuro-imaging
	Outlines the classification of stroke and its link to prognosis
	Is able to describe the signs and symptoms of infections affecting
	central or peripheral neurological function, including but not limited
	to meningitis, encephalitis, spinal abscess
	Knows the anatomy of the scalp, skull and brain, the
	pathophysiology of head injury (primary and secondary brain injury)
	Outlines the definitions of traumatic brain injury and identify features
	that may require radiological imaging and/or further intervention or
	specialist follow-up
Knowledge-	Defines and characterizes the common types of psychiatric
Psychiatric	conditions and manner these may present in an emergency, and
	potential side effects of the major groups of psychomotor
	medications
	Describes the indications, contraindications and side effects of drugs
	used in acute psychosis including, but not limited to: haloperidol,
	benzodiazepines, clozapine
	Lists the common and serious causes for acute confusion/delirium
	and is able to differentiate between delirium and dementia
	Recognises the factors that can exacerbate acute
	confusion/delirium (e.g. a change in social environment or acute
	infection) and can list the pre-existing factors that may pre-dispose
	to acute confusion/delirium
	Is able to describe the factors that predict aggressive behaviour:
	personal history, alcohol and substance abuse, delirium
	Is able to describe the legal framework for authorizing interventions
	in the management of the disturbed or violent patient
	Is able to outline potential physical health and socioeconomic
Skills-	impacts of chronic mental illness Where required, is able to take a full psychiatric history, obtaining
History	the required information regarding:
	<ul> <li>presenting complaint</li> </ul>
	<ul> <li>presenting complaint</li> <li>past psychiatric history</li> </ul>
	<ul> <li>past psychiatric history</li> <li>family history</li> </ul>
	<ul> <li>Work history</li> </ul>

Knowledge/	Detail of competency
Skill/ Behaviour	. ,
	sexual/marital history
	substance misuse
	forensic history
	social circumstances
	Elucidates a clear timeline and history of neurological symptoms e.g.
	change to bladder control, recent or past relevant medical history,
	history of treatment, medications, alcohol/drug misuse
	Obtains a corroborating history from witnesses where possible,
	especially with head injury and fits
	Is able to recognise symptoms that may indicate raised intracranial
	pressure ('red flag' features) and corroborates with examination
Skills -	Is able to undertake an appropriate and focussed neurological
Examination	examination, including cranial nerve examination, assessment of
	level of consciousness, assessment of power, tone, sensation and
	reflexes, to support development of a differential diagnosis
	Can differentiate epileptic seizure from non-epileptic (pseudo)-
	seizures
	Is able to elicit signs of raised intracranial pressure
	Is able to establish the level of a lesion causing changes to motor or
	sensory function
	Is able to elicit specific signs of conditions such as temporal arteritis,
	meningism, myasthenia gravis, Parkinson's
	Is able to conduct a mental state examination including:
	appearance and behaviour (including clothing)
	speech: quality and content
	mood and affect
	<ul> <li>thought abnormalities; insight/rationalisation</li> </ul>
	hallucinations/delusions
	cognitive function e.g. using the mini mental test score
	Undertakes a physical examination that looks for physical causes of
	psychiatric symptoms and delirium such as head injury, sepsis,
	substance withdrawal, thyroid disease, intoxication, and
	hypoglycaemia
Skills-	Remembers to maintain a systematic approach to assessment
investigation	(ABCDE) as first principle
and treatment	Is able to select appropriate investigations for a suspected
	traumatic, pharmaceutical or other organic cause of behavioural
	disturbance; interpret and act on results of investigations: e.g. ECG,
	blood laboratory tests inc. glucose, brain imaging (CT and MRI)
	Safely sedates patient when appropriate, including monitoring
	requirements and reassessment as required

Knowledge/	Detail of competency
Skill/ Behaviour	
	If required, is able to initiate treatment for patient dependant on
	differential diagnosis e.g. acute anxiety, acute agitation, signs/
	symptoms of drug/ alcohol withdrawal
	Is able to identify and initiate radiological investigations for
	suspected stroke and acute severe headache including indications
	for urgent head CT and stroke thrombolysis or neurosurgical /neuro-
	radiological intervention
	Knows the indications for LP and how to interpret basic CSF analysis:
	cell count, protein, bilirubin, gram stain and glucose
Skills-	Following initiation of immediate resuscitative treatment, expedites
Clinical	the care of patients requiring more specialist immediate treatment
decision	e.g. stroke thrombolysis, anaesthesia for status epilepticus
making,	Knows when it may be appropriate to safely discharge patients
judgement	presenting with a 'first fit'
	Knows when it may be appropriate to safely discharge patients
(in addition to	presenting with headache
CC1)	
Behaviour-	Shows compassion and patience in the assessment and
Communication	management of those with mental health conditions
&	Demonstrates safety awareness of the situation and environment to
professionalism	avoid risk from violent behaviour against themselves or other staff
(in addition to	Is able to safely evade physical assault using appropriate de-
CC7 & CC8)	escalation and/or escape techniques
	Is able to use safe and proportional restraint methods (e.g. sedation
	and/or physical) to manage a violent/aggressive patient who is
	without capacity and at risk of causing/suffering harm
	Can provide explanations and plan for future care for those with
	non-serious headaches
Paediatric	Is able to differentiate between febrile convulsion and epilepsy and
competencies	be able to investigate and treat accordingly
	Is able to reassure parents/ family after child presents with febrile
	convulsion
	Is able to identify children with head injury which may result from
	non-accidental injury
	Is able to recognise children/young patients presenting with anxiety-
	related disorders, signs of post-traumatic stress disorder and other
	forms of distress and can share relevant information or escalate
	appropriately; ensure safeguarding and support measures are put in
	place or signposted

Additional optional competencies- EPA 1 to 2

Knowledge/	Detail of competency
Skill/	
Behaviour	
Skills-	Is able to perform a diagnostic lumbar puncture
Investigation	Initiates measures to reduce intracranial pressure, such as
and	intubation/hyperventilation, sedation and paralysis, use of hypertonic
treatment	saline/mannitol, cooling measures, posture