

## Nervous control, behaviour & Special Senses -Year 3 Semester 2

## Credits – 2

**Duration: 04 Weeks (20 days)**

[illegible]



		<ol style="list-style-type: none"> <li>describe the mechanism of action, pharmacokinetics, adverse and toxic effects, important drug interactions of commonly used antiepileptic drugs</li> <li>explain the clinical significance of the variability of pharmacokinetics of phenytoin</li> <li>list the appropriate anti-epileptic drugs for the treatment of different seizures/epilepsy syndromes.</li> <li>describe the basis of drug treatment of status epilepticus</li> <li>explain the basis of the safe use of antiepileptic drugs during pregnancy.</li> </ol> <p>movement disorders</p> <ol style="list-style-type: none"> <li>describe the mechanisms of action, pharmacokinetics, adverse effects of drugs used in the treatment of movement disorders (Parkinsonism, dystonia, chorea, tremors)</li> </ol> <p>migraine</p> <ol style="list-style-type: none"> <li>describe the pathophysiology of migraine</li> <li>describe the mechanism of action, pharmacokinetics, adverse effects of drugs used in the treatment of migraine</li> </ol> <p>neuromuscular junction</p> <ol style="list-style-type: none"> <li>list the drugs/agents that influence the neurotransmission at the neuromuscular junction</li> <li>list the types of neuromuscular blockers</li> <li>describe the mechanisms of action, pharmacokinetics, clinical uses, adverse effects of drugs acting on the neuromuscular junction.</li> <li>name the muscle relaxants commonly used during general anaesthesia</li> <li>describe the basis of the use of acetylcholinesterase inhibitors in myasthenia gravis and reversal of the effects of muscle relaxants</li> </ol>			
7	<b>2006-3/SBM-06/07</b> Basis of psychopharmacology to include biochemistry of neurotransmitters and biochemistry of drug metabolism	anxiolytics/Hypnotics <ol style="list-style-type: none"> <li>define <ol style="list-style-type: none"> <li>an anxiolytic</li> <li>a hypnotic</li> </ol> </li> <li>list different classes of commonly used anxiolytic/hypnotic drugs with examples</li> <li>describe the mechanism of action, pharmacological effects, pharmacokinetics, adverse effects and important drug interactions of</li> </ol>	4	lecture	Pharmacology

		<p>the drugs mentioned in 2.</p> <ol style="list-style-type: none"> <li>explain the clinical significance of pharmacokinetics of benzodiazepines</li> <li>describe the toxic effects (acute overdose) of benzodiazepines and basis of the use of an antidote.</li> <li>describe the problems encountered with the continued use of hypnotics and the measures that can be taken to minimize them.</li> </ol> <p>antidepressants</p> <ol style="list-style-type: none"> <li>recall the biochemical basis of depressive illness.</li> <li>classify the antidepressant drugs (with examples) based on their mechanism of action</li> <li>describe the mechanism of action, pharmacokinetics, adverse drug effects, important drug/food interactions of antidepressants</li> <li>list the clinical uses of antidepressants other than the treatment of depression</li> <li>list the features of antidepressant drug overdose</li> </ol> <p>antipsychotics</p> <ol style="list-style-type: none"> <li>recall the biochemical basis of psychotic illnesses.</li> <li>classify the antipsychotic drugs (with examples)</li> <li>describe the mechanism of action, pharmacokinetics, adverse drug effects of antipsychotic drugs</li> <li>list the clinical uses of antipsychotic drugs</li> </ol> <p>mood stabilizers</p> <ol style="list-style-type: none"> <li>describe the mechanisms of action, pharmacokinetics, adverse and toxic effects of mood stabilizers</li> </ol> <p>dementia</p> <ol style="list-style-type: none"> <li>describe the mechanisms of action, pharmacokinetics, adverse effects of drugs used in the treatment of Dementia</li> </ol>			
8	<b>Skill:</b>	should be able to perform a complete examination of the nervous system, record the findings accurately, interpret the findings and localise lesions within the nervous system	1	Video demonstration of	Medicine Lecture/ video demonstration to

			1	neurological examination & common disorders  Bed side Clinical examination of the nervous system	be conducted at the beginning of the module
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### **Nervous control, behaviour & Special Senses –(Year 3 Semester 2)**

#### **Module Summary**

Department	Lectures (hrs)	SGD (hrs)	Seminar (hrs)	Skills (hrs)	Total (hrs)
Pathology	5				5
Pharmacology	14	2	2		18
Psychiatry	2				4
Medicine	1			2	3
<b>Total</b>	<b>22</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>30</b>

#### **Names and the departments of the teachers involved in the teaching programme**

##### **Dept. of Pathology**

Dr S Wijetunge

Dr E Siriweera

Dr R Waduge

Dr R Gunawardene

##### **Dept. of Pharmacology**

Dr U Dangahadeniya

Dr M Rajapakshe

##### **Dept. of Medicine**

Prof. N Senanayake

Dr. I.B. Gawarammana

**Dept. of Psychiatry**  
Dr T Rajapakse

Dr.D.R.R.Abeysinghe

**Examination Format**

Module	Credits	Exam component and duration		
		MCQ	SAQ	Viva
Nervous control, behaviour & Special Senses	2	1 hr	1 hr	√