

The Nervous System

STARTING DATE: _____

RATING: ☆☆☆☆☆

HIGH YIELD TOPICS:

- _____
- _____
- _____

PART 1 : EMBRYOLOGY

- DEVELOPMENT OF THE NERVOUS SYSTEM
- VESICULATION
- ANENCEPHALY
- HOLOPROSENCEPHALY
- LISSENCEPHALY
- SPINA BIFIDA OCCULTA
- SPINA BIFIDA CYSTICA
- SPINA BIFIDA WITH MYELOSCHISIS
- CHIARI MALFORMATION (I&II)
- DANDY-WALKER MALFORMATION
- _____
- _____

PART 2 : SPINAL CORD

- THE NERVOUS SYSTEM
- VERTEBRAL COLUMN
- THE SPINAL CORD
- CAUDA EQUINA
- FILUM TERMINALE
- SPINAL SEGMENT
- DORSAL HORN (SENSORY HORN)
- VENTRAL HORN (MOTOR HORN)
- INTERMEDIATE ZONE
- THE DORSAL ROOT
- THE VENTRAL ROOT
- _____

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PART 3 : MOTOR SYSTEM

- VOLUNTARY INNERVATION OF SKELETAL MUSCLE
- CORTICOBULBAR INNERVATION OF CN NUCLEI
- LESIONS OF UMN
- LESIONS OF LMN
- MUSCLE TONE
- REFLEX INNERVATION OF SKELETAL MUSCLE
- CLINICAL REFLEXES
- _____
- _____
- _____
- _____
- _____
- _____

PART 4 : SENSORY SYSTEM

- DORSAL COLUMN-MEDIAL LEMNISCAL SYSTEM
- ANTEROLATERAL (SPINOTHALAMIC TRACT) SYSTEM
- SECTIONAL ANATOMY OF THE SPINAL CORD
- OCULOSYMPATHATIC PATHWAY
- _____
- _____
- _____
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PART 5 : SPINAL CORD LESION

- BROWN SEQUARD SYNDROME
- POLIOMYELITIS
- SPINAL MUSCULAR ATROPHY
- TABES DORSALIS
- AMYOTROPHIC LATERAL SCLEROSIS
- ANTERIOR SPINAL ARTERY OCCLUSION
- SUBACUTE COMBINED DEGENERATION
- SYRINGOMYELIA
- CAUDA EQUINA
- CAUDA EQUINA SYNDROME
- DERMATOMES
- _____

PART 6 : BRAINSTEM

- CORTICOBULBAR INNERVATION OF CRANIAL NERVE NUCLEI
- BRAINSTEM CUT SECTION
- PONS
- MEDULLA
- _____
- _____
- _____
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PART 7 : CRANIAL NERVES

- CRANIAL NERVE 1 (OLFACTORY NERVE)
- CRANIAL NERVE 2 (OPTIC NERVE)
- VISUAL FIELD DEFECTS
- LESIONS AT THE OPTIC CHIASM (3)
- LESIONS AFTER OPTIC CHIASM (4, 5, 6)
- PUPILLARY LIGHT REFLEX
- MARCUS GUN PUPIL
- CRANIAL NERVE III (OCULOMOTOR NERVE)
- ACCOMMODATION-CONVERGENCE REACTION
- ARGYL ROBERTSON PUPIL
- ADIE'S PUPIL
- CN III DAMAGE

PART 8 : CRANIAL NERVES

- CRANIAL NERVE IV (TROCHLEAR NERVE)
- CN IV DAMAGE
- CRANIAL NERVE V (TRIGEMINAL NERVE)
- OPHTHALMIC (V1)
- CORNEAL REFLEX (BLINK REFLEX)
- MAXILLARY (V2)
- MANDIBULAR (V3)
- TRIGEMINAL NEURALGIA
- CRANIAL NERVE VI (ABDUCENS NERVE)
- CRANIAL NERVE VII (FACIAL NERVE)
- FACIAL NERVE LESIONS
- _____

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PART 9 : CRANIAL NERVE VIII

- COCHLEAR DIVISION** _____
- SOUND TRANSDUCTION _____
- SOUND PROCESSING _____
- LESIONS CAUSING HEARING LOSS _____
- HEARING LOSS _____
- WEBER TEST _____
- RINNE TEST _____
- CHOLESTEATOMA _____
- PRESBYCUSIS _____
- HYPERACUSIS _____
- VESTIBULAR PART _____
- _____

PART 10 : CRANIAL NERVE VIII

- VESTIBULAR PART** _____
- VESTIBULO-OCULAR REFLEX _____
- VESTIBULAR EVOKED NYSTAGMUS _____
- VERTIGO _____
- CENTRAL VERTIGO _____
- PERIPHERAL VERTIGO _____
- BENIGN PAROXYSMAL POSITIONAL VERTIGO (BPPV) _____
- MÉNIÈRE DISEASE _____
- LABYRINTHITIS _____
- VOLUNTARY HORIZONTAL CONJUGATE GAZE _____
- _____
- _____

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PART 11 : CRANIAL NERVES

- CRANIAL NERVE IX
(GLOSSOPHARYNGEAL NERVE)
- _____
- CRANIAL NERVE X (VAGUS NERVE)
- GAG REFLEX (PHARYNGEAL REFLEX)
- VAGAL NUCLEI
- BULBAR PALSY
- CRANIAL NERVE VI (ACCESSORY
NERVE):
- CRANIAL NERVE VII (HYPOGLOSSAL
NERVE)
- BRAIN STEM VASCULAR SYNDROMES
- MEDIAL MEDULLARY SYNDROME (A)
- LATERAL MEDULLARY (WALLENBERG)
SYNDROME (B)
- MEDIAL PONTINE SYNDROME

PART 12 : CRANIAL NERVES

- LATERAL PONTINE SYNDROME
- MEDIAL MIDBRAIN SYNDROME
- DORSAL MIDBRAIN (PARINAUD) SYNDROME
- CRANIAL NERVES AND VESSEL PATHWAY
- JUGULAR FORAMEN (VERNET) SYNDROME
- INNERVATION OF THE TONGUE
- CAVERNOUS SINUS
- CAVERNOUS SINUS SYNDROME
- CAVERNOUS CAROTID ANEURYSM
- _____
- _____
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PART 13 : CEREBELLUM

- CEREBELLAR LESIONS _____
- LATERAL LESIONS (LESIONS THAT INCLUDE THE HEMISPHERE)

- MEDIAL LESIONS (LESIONS THAT INCLUDE THE VERMIS)

- FRIEDREICH ATAXIA _____
- _____
- _____
- _____
- _____
- _____
- _____

PART 14 : BASAL GANGLIA

- DIRECT PATHWAY (EXCITATORY) _____
- INDIRECT PATHWAY (INHIBITORY) _____
- BASAL GANGLIA LESIONS _____
- PARKINSON DISEASE _____
- HUNTINGTON DISEASE _____
- WILSON DISEASE _____
- HEMIBALSMUS _____
- TYPES OF TREMORS _____
- _____
- _____
- _____

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PART 15 : DIENCEPHALON

- THALAMUS
- THALAMIC SYNDROME
- HYPOTHALAMUS
- SUBTHALAMUS
- EPITHALAMUS
- VENTRICULAR SYSTEM**
- HYDROCEPHALUS
- NONCOMMUNICATING (OBSTRUCTIVE) HYDROCEPHALUS
- COMMUNICATING HYDROCEPHALUS
- NORMAL PRESSUR HYDROCEPHALUS
- HYDROCEPHALUS EX VACUO
- PSEUDOTUMOR CEREBRI

PART 16 : CEREBRAL CORTEX

- FRONTAL LOBE
- PARIETAL LOBE
- HEMISPATIAL NEGLECT SYNDROME
- GERSTMANN SYNDROME
- TEMPORAL LOBE
- WERNICKE'S (FLUENT) APHASIA
- OCCIPITAL LOBE
- ALEXIA WITHOUT AGRAPHIA
- BLOOD SUPPLY OF THE CEREBRAL CORTEX
- THE CAROTID SYSTEM (ANTERIOR CIRCULATION)
- THE VERTEBRAL SYSTEM (POSTERIOR CIRCULATION)
- CIRCLE OF WILLIS

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PART 17 : LIMBIC SYSTEM

- FUNCTION OF THE LIMBIC SYSTEM
- LIMBIC SYSTEM LESIONS
- ANTEROGRADE AMNESIA
- KORSAKOFF-SYNDROME
- KLUVER-BUCY SYNDROM
- _____
- _____
- _____
- _____
- _____
- _____
- _____

PART 18 : PHYSIOLOGY

- NEURONS
- ASTROCYTES
- MICROGLIA
- EPENDYMAL CELLS
- WALLERIAN DEGENERATION
- SENSORY RECEPTORS
- NEUROTRANSMITTER CHANGES WITH DISEASE
- MENINGES
- BLOOD-BRAIN BARRIER
- VOMITING CENTER
- DOPAMINERGIC PATHWAYS
- REGULATION OF CEREBRAL PERFUSION

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- _____
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PART 19 : PATHOLOGY

- NEURODEGENERATIVE DISORDERS
- ALZHEIMER DISEASE
- FRONTOTEMPORAL DEMENTIA (PICK'S DISEASE)
- LEWY BODY DEMENTIA
- CREUTZFELDT-JAKOB DISEASE
- VASCULAR DEMENTIA
- DEMYELINATING DISEASES
- OPTIC NEURITIS
- INTERNUCLEAR OPHTHALMOPLEGIA
- GUILLAIN-BARRE SYNDROME
- OSMOTIC DEMYELINATION SYNDROME
- ACUTE DISSEMINATED (POSTINFECTIOUS) ENCEPHALOMYELITIS

PART 20 : PATHOLOGY

- HSV 1 ENCEPHALITIS
- PROGRESSIVE MULTIFOCAL LEUKOENCEPHALOPATHY (PML)
- CHARCOT-MARIE-TOOTH DISEASE
- INTRACRANIAL HEMORRHAGE
- EPIDURAL HEMATOMA
- SUBDURAL HEMATOMA
- SUBARACHNOID HAEMORRHAGE (SAH)
- INTRAPARENCHYMAL (HYPERTENSIVE) HAEMORRHAGE
- SACCULAR (BERRY) ANEURYSM
- NEONATAL INTRAVENTRICULAR HEMORRHAGE
- DIFFUSE AXONAL INJURY

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PART 21 : PATHOLOGY

- STROKES
- TRANSIENT ISCHEMIC ATTACK (TIA)
- SUBCLAVIAN STEAL SYNDROME
- DIFFERENTIATING HEADACHES
- FEVER VS HEAT STROKE
- STURGE-WEBER SYNDROME
- TUBEROUS SCLEROSIS
- NEUROFIBROMATOSIS TYPE 1 (VON RECKLINGHAUSEN DISEASE)
- NEUROFIBROMATOSIS TYPE II
- VON HIPPEL-LINDAU DISEASE
- _____
- _____

PART 22 : ADULT PRIMARY BRAIN TUMORS

- GLIOBLASTOMA MULTIFORME (GRADE IV ASTROCYTOMA)
- MENINGIOMA
- HEMANGIOBLASTOMA
- SCHWANNOMA
- OLIGODENDROGLIOMA
- PITUITARY ADENOMA
- CHILDHOOD PRIMARY BRAIN TUMORS**
- PILOCYTIC (LOW-GRADE) ASTROCYTOMA
- MEDULLOBLASTOMA
- EPENDYMOMA
- CRANIOPHARYNGIOMA
- PINEALOMA

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PART 23 : PATHOLOGY

- HERNIATION SYNDROMES
- CINGULATE (SUBFALCINE)
HERNIATION UNDER FALX CEREBRI
- _____
- DOWNWARD TRANSTENTORIAL
(CENTRAL) HERNIATION
- _____
- TRANSTENTORIAL (UNCAL)
HERNIATION
- _____
- CEREBELLAR TONSILLAR HERNIATION
INTO THE FORAMEN MAGNUM
- _____
- DIABETIC NEUROPATHY
- DIABETIC OPHTHALMOPLEGIA
- _____

PART 24 : OPHTHALMOLOGY

- CONJUNCTIVITIS
- REFRACTIVE ERRORS
- PRESBYOPIA
- CATARACT
- GLAUCOMA
- UVEITIS
- AGE-RELATED MACULAR DEGENERATION
- DIABETIC RETINOPATHY
- HYPERTENSIVE RETINOPATHY
- CENTRAL RETINAL VEIN OCCLUSION
- CENTRAL RETINAL ARTERY OCCLUSION
- _____

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- _____
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PART 25 : OPHTHALMOLOGY

- RETINAL DETACHMENT
- RETINITIS PIGMENTOSA
- RETINITIS
- PAPILLEDEMA
- LEUKOCORIA
- _____
- _____
- _____
- _____
- _____
- _____
- _____

PART 26 : PHARMACOLOGY

- OPIOID ANALGESIC
- FULL AGONIST OPIOIDS
- PARTIAL AGONIST OPIOIDS
- MIXED AGONIST – ANTAGONIST OPIOID
- OPIOID ANTAGONIST
- OPIATE RELATED DRUGS WITH
SPECIFIC INDICATION
- TRAMADOL
- SEIZURES
- EPILEPSY DRUGS
- PHENYTOIN
- CARBAMAZEPINE
- SODIUM VALPROATE (VALPROIC ACID)

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PART 27 : PHARMACOLOGY

- ETHOSUXIMIDE
- BENZODIAZEPINES (DIAZEPAM, LORAZEPAM)
- BARBITURATES (PHENOBARBITAL)
- STATUS EPILEPTICS
- SEDATIVE - HYPNOTIC - ANXIOLYTIC DRUGS
- BARBITURATES
- BENZODIAZEPINE
- NONBENZODIAZEPINE HYPNOTICS
- SUVOREXANT
- RAMELTEON
- _____
- _____
- _____

PART 28 : GENERAL PRINCIPLES OF ANESTHESIA

- INHALED ANESTHETICS
- MALIGNANT HYPERTHERMIA
- INTRAVENOUS ANESTHETICS**
- BARBITURATES (THIOPENTAL)
- BENZODIAZEPINES (MIDAZOLAM)
- PROPOFOL
- ARYLCYCLOHEXYLAMINES (KETAMINE)
- LOCAL ANESTHETICS
- NEUROMUSCULAR BLOCKING DRUGS
- DANTROLENE
- BACLOFEN
- CYCLOBENZAPRINE
- TIZANIDINE

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PART 29 : PHARMACOLOGY

PARKINSON DISEASE DRUGS

DOPAMINE AGONISTS

↑ DOPAMINE AVAILABILITY

↑ L-DOPA AVAILABILITY

PREVENT DOPAMINE BREAKDOWN

CURB EXCESS CHOLINERGIC ACTIVITY

ALZHEIMER DRUGS

DONEPEZIL, GALANTAMINE ,
RIVASTIGMINE , TACRINE

MEMANTINE

PART 30 : PHARMACOLOGY

HUNTINGTON DISEASE DRUGS

TRIPTANS (SUMATRIPTAN)

GLAUCOMA DRUGS

NARROW (CLOSED) ANGLE GLAUCOMA

OPEN ANGLE GLAUCOMA

A-AGONISTS (EPINEPHRINE A1,
BRIMONIDINE A2)

B BLOCKERS (TIMOLOL, BETAXOLOL,
CARTEOLOL)

DIURETICS (ACETAZOLAMIDE)

CHOLINOMIMETICS

PROSTAGLANDIN (LATANOPROST, PGF2)

REVIEW AGAIN: