

Scott and White Division of Neuroradiology Diagnostic Radiology Residency Core curriculum

CNS Infections

- Meningitis
- Cerebritis
- Abscess
- Subdural and Epidural Empyema (abscess)
- Herpes (HSV I & II)
- Lyme
- Tuberculosis
- Cysticercosis
- HIV

White Matter Disease

- Multiple Sclerosis
- ADEM
- Central Pontine Myelinolysis
- Small Vessel Ischemic Disease
- Radiation / Chemotherapy Changes
- Axonal Injuries
- Dysmyelinating

Trauma

- Contusions
- Shearing
- SAH
- SDH
- EDH
- Hemorrhage by CT / MR
- Cerebral Swelling & Edema
- Herniation Syndromes

Vascular Injuries – Dissection, Pseudoaneurysm

Supratentorial Parenchymal Tumors

General Tumors

Glioblastoma multiforme

Oligodendroglioma, intraventricular

Skull base

Post Fossa Tumors

Tumor Evaluation by location Intra – axial vs. extra – axial

Infra – tentorial Intra – axial masses – Pediatric

Sellar / Parasellar

Pituitary

Craniopharyngioma

Rathke's Cleft Cyst

Meningioma

Arachnoid Cyst

Glioma

Hamartoma

Teratoma / Germinoma

Chordoma

Lymphoma

Sarcoid

Pineal Region

Germ cell tumor

Cyst

Meningioma

Glioma

AVM, AV Fistula

Cerebellopontine Angle Tumor

Schwannoma

Meningioma
Epidermoid
Cyst
Metastases
Ependymoma

Strokes

CT / Vascular Territories
MR – Brain attack
Occlusions
Embolic
Watershed
Hypoxia / Anoxia
Hypertension
Dissection
Fibromuscular Dysplasia)
Vasculitis
Venous Thrombosis
Vasospasm
Migraine
Hemorrhagic vs Bland

Aneurysm/Vascular Malfunction

Congenital CNS Lesions

Anencephaly
Chiari Malformations (I – IV)
Corpus Callosum Anomalies : Dysgenesis, Lipomas
Hydranencephaly
Porencephaly
Disorders of Neuronal Migration & Sulcation
Disorders of Diverticulation and cleavage
Posterior Fossa Cystic Disorders

Phankomatoses

- Neurofibromatosis Type I & II
- Tuberous Sclerosis
- Sturge – Weber Syndrome
- Von Hippel – Lindau
- Rendu – Osler – Weber Syndrome
- Basal Cell Nevus Syndrome

Anatomy of Paranasal Sinuses

- Congenital Disease
- Inflammation / Infection
- Benign Sinus Tumors
- Malignant Sinus Tumors

Oral Cavity, Oropharynx, Hypopharynx

- Anatomy Content
- Masses
- Infection

Paraphayngeal Space

- Location, Content, Anatomy and importance in relation to other spaces
- Infection
- Pleomorphic Adenoma (minor salivary glands)
- Non-Hodgkin's Lymphoma
- Thornwaldt Cyst
- Hemangioma
- Masticator Space
- Parotid Space (anatomy, content)
- Carotid Space (anatomy, content)
- Perineural Spread

Larynx

- Squamous Cell Carcinomas
- Trauma

Lymphadenopathy

Neck

Temporal Bone

Trauma

Tumors

Inflammatory Diseases

Orbits

Masses

Inflammation

Trauma

SPINAL

Anatomy

Degenerative disease

Trauma

Tumor,

Demyelination,

Infection,

Congenital

Interventional of Spine

Facet Blocks

Epidurals

Vertebroplasty