DPU
Dr. D. Y. PATIL VIDYAPEETH, PUNE
(DEEMED UNIVERSITY)

Syllabus for PG Surgical Specilites

2014-15
## INDEX

<table>
<thead>
<tr>
<th></th>
<th>General Surgery</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Obstetrics &amp; Gynaecology</td>
<td>9</td>
</tr>
<tr>
<td>3</td>
<td>Anaesthesiology</td>
<td>16</td>
</tr>
<tr>
<td>4</td>
<td>Orthopaedics</td>
<td>32</td>
</tr>
<tr>
<td>5</td>
<td>Ophthalmology</td>
<td>34</td>
</tr>
<tr>
<td>6</td>
<td>E.N.T.</td>
<td>42</td>
</tr>
<tr>
<td>7</td>
<td>Radio Diagnosis &amp; Imaging</td>
<td>52</td>
</tr>
</tbody>
</table>
DPU
Dr. D. Y. PATIL VIDYAPEETH, PUNE
(DEEMED UNIVERSITY)

E.N.T.
BASIC SCIENCES

CELL BIOLOGY
Molecular biology
Genetics
Gene therapy
Mechanisms of anticancer drugs
Radiotherapy and radiosensitizers
Apoptosis and cell death
Stem cells

WOUND HEALING
Soft and hard tissue repair
Skin flap physiology
Biomaterials, tissue engineering and their applications

IMMUNOLOGY
Defence mechanisms
Allergy: basic mechanisms and tests
Food allergy and intolerance
Evaluation of the immune system
Primary immunodeficiencies
Rheumatological diseases

MICROBIOLOGY
Microorganisms
Viruses and antiviral agents
Fungi
Antimicrobial therapy
HIV and otolaryngology

HAEMATOLOGY
Blood groups, blood components and alternatives to transfusion
Haemato-oncology
Haemostasis: normal physiology, disorders of haemostasis, thrombosis and their management
**ENDOCRINOLOGY**
The pituitary gland: anatomy and physiology
The pituitary: imaging and tests of function
The thyroid gland: anatomy and physiology
The thyroid gland: function tests and imaging
The thyroid: nonmalignant disease
The parathyroid glands: anatomy and physiology
Parathyroid function tests and imaging
Parathyroid dysfunction: medical and surgical therapy
Head and neck manifestations of endocrine disease

**PHARMACOTHERAPEUTICS**
Drug administration and monitoring
Corticosteroids in otolaryngology
Drug therapy in otology, rhinology, laryngology and head and neck surgery

**PERI OPERATIVE MANAGEMENT**
Preparation of the patient for surgery
Recognition and management of the difficult airway
Adult and Paediatric Anaesthesia
Adult and Paediatric intensive care

**SAFE AND EFFECTIVE PRACTICE**
Training, accreditation and the maintenance of skills
Communication and the medical consultation
Clinical governance: Improving the quality of patient care
Medical negligence in paediatric otolaryngology
Medical negligence in otology
Medical negligence in rhinology
Medical negligence in head and neck surgery
Medical ethics
Quality of life in head and neck cancer
Medical jurisprudence and otorhinolaryngology

**BASIC SCIENCE ASPECTS**
The anatomy and embryology of the external and middle ear
Form and ultrastructure of the cochlea and its central connections
Anatomy and ultrastructure of the vestibular organ
Physiology of hearing
Physiology of equilibrium
Psychoacoustic audiometry
Evoked physiological measurement of auditory sensitivity
Anatomy of the nose and paranasal sinuses
Nasal endoscopy
Physiology of the nose and paranasal sinuses
Measurement of the nasal airway
Anatomy of the mouth and dentition
Salivary gland anatomy
Physiology of the salivary glands
Imaging of the salivary glands
Anatomy of the pharynx and oesophagus
Physiology of swallowing
Functional investigations of the upper gastrointestinal tract
Anatomy of the nasopharynx
Anatomy of the larynx and tracheobronchial tree
Physiology of the larynx
Voice and speech production
Anatomy of the skull base and infratemporal fossa
Surgical anatomy of the neck
Examination and imaging of the neck
Clinical neuroanatomy
Evaluation of the skull base patient
Vascular assessment and management in skull base surgery

INTERPRETATION AND MANAGEMENT OF DATA
Epidemiology
Evidence-based medicine
Critical appraisal skills

EAR
THE EAR, HEARING AND BALANCE
Conditions of the pinna and external auditory canal
Osteoradionecrosis of the temporal bone
Herpes zoster oticus
Conditions of the middle ear
Paget's disease
Conditions of the cochlea
Prevention of hearing loss: scientific principles
Age-related sensorineural hearing impairment
Noise-induced hearing loss
Autosomal dominant nonsyndromic sensorineural hearing impairment
Ototoxicity
Idiopathic sudden sensorineural hearing loss
Tinnitus and other dysacuses
Management of hearing impairment
Hearing aids and Implants
Pathology of the vestibular system and Balance disorders
Evaluation of balance
Vertigo: Clinical syndromes, clinical management and rehabilitation
Retrocochlear and facial nerve disorders
Retrocochlear hearing disorders, including auditory dys-synchrony
Central auditory dysfunction
Vestibular schwannoma
Neurofibromatosis

PAEDIATRIC OTORHINOLARYNGOLOGY
The paediatric consultation
ENT input for children with special needs
Head and neck embryology
Development of the auditory system and recent advances in genetic manipulation
Hearing loss in preschool children: screening and surveillance
Hearing tests in children
Investigation and management of the deaf child
Paediatric cochlear implantation
Congenital middle ear abnormalities in children
Otitis media with effusion
Acute otitis media in children
Chronic otitis media in childhood
Management of congenital deformities of the external and middle ear
Disorders of speech and language in paediatric otolaryngology
Cleft lip and palate
Craniofacial anomalies: genetics and management
Vertigo in children
Facial paralysis in childhood
Epistaxis in children
Nasal obstruction in children
Paediatric rhinosinusitis
The adenoid and adenoidectomy
Obstructive sleep apnoea in childhood
Stridor
Acute laryngeal infections
Congenital disorders of the larynx, trachea and bronchi
Laryngeal stenosis
Paediatric voice disorders
Juvenile-onset recurrent respiratory papillomatosis
Foreign bodies in the ear and the aerodigestive tract in children
Tracheostomy and home care
Cervicofacial infections in children
Diseases of the tonsil
Tonsillectomy
Salivary gland disorders in childhood
Tumours of the head and neck in childhood
Branchial arch fistulae, thyroglossal duct anomalies and lymphangioma
Gastro-oesophageal reflux and aspiration
Diseases of the oesophagus, swallowing disorders and caustic ingestion
Imaging in paediatric ENT

**NOSE**

Classification and differential diagnosis of rhinosinusitis
Fungal rhinosinusitis
Specific chronic infections
Medical management of chronic rhinosinusitis
Surgical management of rhinosinusitis
The frontal sinus
Mucocoeles
Complications of rhinosinusitis
Nasal polyposis
The relationship between the upper and lower respiratory tract
Epistaxis
Nasal fractures
Fractures of the facial skeleton
Cerebrospinal fluid rhinorrhoea
Granulomatous conditions of the nose
Abnormalities of smell
Orbital and optic nerve decompression
Dacryocystorhinostomy
Conditions of the external nose
The diagnosis and management of facial pain
RECENT ADVANCES IN TECHNOLOGY

Functional magnetic resonance imaging:
Principles and illustrative applications for otolaryngology
Positron emission tomography and integrated PET/computed tomography
Image-guided surgery, 3D planning and reconstruction
Ultrasound in ear, nose and throat practice
Interventional techniques
Laser principles in otolaryngology, head and neck surgery
Electrophysiology and monitoring
Optical coherence tomography
Contact endoscopy
Gamma knife stereotactic radiosurgery

THROAT, HEAD AND NECK

THE UPPER DIGESTIVE TRACT

Benign oral and dental disease
Abnormalities of taste
Non-neoplastic salivary gland diseases
Cysts and tumours in and around the jaws, including sarcoma
Acute and chronic pharyngeal infection
Causes of dysphagia
Globus pharyngeus
Pharyngeal pouch
Oesophageal diseases
Neurological disease of the pharynx
Dysphagia: management and intervention
THE UPPER AIRWAY
Anatomy of the nasopharynx
Benign conditions of the nasopharynx
Anatomy of the larynx and tracheobronchial tree
Physiology of the larynx
Voice and speech production
Disorders of the voice
The professional voice
Speech therapy in ENT practice
Phonosurgery
Acute infections of the larynx
Chronic laryngitis
Laryngeal trauma and stenosis
Upper airway obstruction
Tracheostomy
Physiology of sleep and sleep disorders
Obstructive sleep apnoea: medical management
The surgical management of snoring

HEAD AND NECK TUMOURS
Epidemiology of head and neck cancer
Aetiology of head and neck cancer
Staging of head and neck cancer
Prognostic indicators and serum markers
Skin cancer of the head and neck
Mucosal malignant melanoma
Nasal cavity and paranasal sinus malignancy
Juvenile angiofibroma
Nasopharyngeal carcinoma
Benign salivary gland tumours
Malignant tumours of the salivary glands
Tumours of the parapharyngeal space
Oral cavity tumours including the lip
Oropharyngeal tumours
Tumours of the larynx
Rehabilitation after laryngectomy
Tumours of the hypopharynx and oesophagus
Thyroid cancer
Neck lymphadenopathy and an unknown primary carcinoma
Metastatic neck disease
Developments in radiotherapy for head and neck cancer
Palliative care for head and neck cancer