

DPU

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(DEEMED UNIVERSITY)

Syllabus
for
PG Surgical Specialities

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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
Osteo radionecrosis 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 dysacusis

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

Oesophagal 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