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1. Specialty Overview

Overview of Otolaryngology

Otolaryngology is the specialty that deals with the diagnosis, evaluation and management of diseases of the ears, nose and throat including all aspects of cancer of the head and neck region. It involves dealing with patients of all ages and as a specialty Otolaryngology is responsible for surgical management of more paediatric patients than any other single surgical discipline.

The programme of training in Otolaryngology spans six levels and will furnish trainees with the knowledge, skills and attitudes to progress to a CCT in Otolaryngology. It is anticipated that trainees will progress through the stages from novice, to competent practitioner, and ultimately to independent practitioner within a team structure. In the case of Otolaryngology this includes all the skills necessary to assume responsibility for the care of patients of all ages, both paediatric and adult. Included are the realms of diagnosis, investigation, operative and non-operative management for and communication with those in his/her care. In addition, any programme will allow the trainee to develop generic skills that allow effective interaction with other professionals (clinical and non-clinical) involved in the delivery of health care to both children and adults.

Within the training programmes will be opportunities for exposure to the wide range of otolaryngology problems in children and adults, and for suitable individuals who wish it the opportunity to develop special interests in areas such as otology, rhinology, head and neck surgery, paediatric otolaryngology, neurotology and cleft palate surgery.

The programme is divided into three stages, initial ST1 and 2, final ST3 – 6 and special interests ST7 and 8. There are defined standards to be achieved by the end of each stage. The content for each stage is not mutually exclusive and it is fully expected that at different stages trainees may be exposed to different training opportunities and thus may have started on some of the areas of the later stages before completing their objectives for earlier stages. It is expected that the essential elements of the curriculum will be completed by the end of ST6. The document therefore should be viewed as a guide to the minimum required at the end of each of these stages. The syllabus will help to inform the annual RITA process.

At the end of the essential elements of the programme, the otolaryngology trainee will be competent to assess and manage (including operative management) patients with the following clinical presentations:

- Disorders of the nose and paranasal sinuses
  - Congenital deformities of the nose and paranasal sinuses.
  - Foreign bodies in the nasal airway
  - Epistaxis.
  - Nasal trauma
  - Seasonal, acute, chronic and perennial rhinosinusitis.
  - Nasal polyposis
  - Nasal septal deformity
  - Nasal and paranasal sinus tumours
- Disorders of the Audiovestibular system
  - Congenital deformities of the ear and temporal bone
  - Progressive or sudden onset hearing loss, both conductive and sensorineural
  - Tinnitus
  - Vestibular disorders
- Disorders of the ear and temporal bone
  - Congenital deformities of the ear and temporal bone
  - Acute otitis media
  - Otitis media with effusion
  - Chronic otitis media, (tubotympanic)
- Chronic otitis media, (Attico antral)
- Otitis externa
- Foreign bodies in the ear canal
- Disorders of the pharynx, and larynx
  - Congenital deformities of the larynx
  - Adenoidal and tonsillar pathology
  - Sleep apnoea
  - Acute and progressive airway obstruction
  - Acute and progressive pharyngeal and oesophageal obstruction
  - Acute and progressive voice disorders
  - Benign and malignant tumours of the upper aerodigestive tract
  - Cervical lymphadenopathy
  - Neck space infection

**SAC Chair and Editor:** Kevin Gibbin
2. Key Conditions

Key Topics in Otolaryngology

Otology

- Congenital and acquired deformity of the ear and temporal bone
- Deafness in adults and children
- Disorders of the external ear
- Acute and Chronic middle ear disease including Otitis media with effusion
- Disorders of equilibrium
- Tinnitus
- Disorders of the facial nerve
- Cerebello-pontine angle tumours

Rhinology and Facial Plastics

- Rhinitis/Sinusitis ~ including allergy, inflammation and infection
- Congenital and acquired deformities of the facial and nasal skeleton
- Tumours of the nose and paranasal sinuses including skin tumours of the face, head and neck
- Epistaxis
- Facial pain

Head and Neck

- Congenital and acquired deformity of the larynx
- Voice disorders
- Disorders of the thyroid and salivary glands
- Head and neck cancer and other causes of neck masses
- Disorders of the pharynx and oesophagus including diseases of the tonsils
- Upper airway obstruction
- Infections of the soft tissues of the Head and Neck
- Sleep apnoea in adults

Paediatric Otolaryngology

- Deafness in childhood including congenital deformities of the temporal bone
- Upper airway disorders and sleep apnoea in children
- Neck masses in children
- Acute and chronic ear disease in children
- Disorders and deformity of the external ear
3. Initial Stage

Four point scales

What the 4 point scale means for Knowledge

1. Knows of
2. Knows basic concepts
3. Knows generally
4. Knows both specifically and broadly

What the 4 point scales mean for Clinical Skills and Technical Skills and Procedures

1. Has observed
2. Can do with assistance
3. Can do whole but may need assistance
4. Competent to do whole without assistance, including managing complications
3.1 Overview

Overview of Initial Stage

The purpose of the initial phase is to allow the trainee to develop the key skills that will allow further progress in the specialty.

By the end of ST2 trainees, including those who are following an academic pathway, will have acquired the following

- Generic Skills to allow teamworking, and management of both adult and paediatric patients with disorders of the ears nose and throat
- Clear understanding of the basic sciences (anatomy, physiology, pathology, embryology and genetics) as they relate to disorders of the ears nose and throat and the practice of Otolaryngological Surgery
- Competence in both diagnosis and management of common ear nose and throat surgical conditions including an understanding of acoustics and basic audiology.
- Competence in the operative management of a range of common abnormalities of the ears nose and throat.

In the initial stage trainees will be expected to understand the aetiology, presenting signs, symptoms and management of common ORL conditions as listed below. The detail of the level of competence required in knowledge, clinical skills, technical skills and procedures and professional skills are defined in the syllabus.

- Otology
  - Congenital deformities of the ear and temporal bone
  - Disorders of equilibrium including Meniere’s disorder
  - Disequilibrium of ageing.
  - Neurological and Vascular causes of vertigo
  - Vestibular Schwannoma
  - Benign Paroxysmal Positional Vertigo
  - Acute vestibular failure
  - Hearing loss in childhood
  - Deafness in adults
  - Facial Paralysis
  - Cochlear implantation in adults and children; other implantable hearing devices including bone anchored hearing aids and middle ear implants
  - Tinnitus
  - Ear trauma
  - Chronic suppurative otitis media including its intracranial complications
  - Acute otitis media

- Paediatric
  - Neck masses in infants and children
  - Airway disorders in childhood.
  - Congenital deformities of the ear and temporal bone
  - Deafness in childhood
  - Cochlear implantation in children; other implantable hearing devices including bone anchored hearing aids and middle ear implants
  - Facial Paralysis
  - Tinnitus
  - Ear Trauma
  - Chronic suppurative otitis media including its intracranial complications
  - Acute otitis media
  - Disorders of the external ear including otitis externa.
  - Foreign bodies in the ear canal.
  - Basic sciences of rhinology
  - Congenital nasal abnormalities
  - Nose and sinus infections
  - Nose and sinus inflammation excluding infection
- Nasal polyps
- Foreign bodies
- Epistaxis
- Nasal trauma and deformity.
- Nasal and paranasal sinus tumours.
- Adenoidal and tonsillar pathology.

- **Head and Neck**
  - Congenital deformities of the larynx
  - Neck masses.
  - Salivary gland disease.
  - Thyroid disease
  - Head and neck cancer.
  - Airway disorders.
  - Voice disorders.
  - Pharyngeal and oesophageal disorders.
  - Cervical lymphadenopathy.
  - Sleep apnoea.
  - Adenoidal and tonsillar pathology.

- **Rhinology**
  - Basic sciences
  - Congenital abnormalities
  - Nose and sinus infections
  - Nose and sinus inflammation excluding infection
  - Nasal polyps
  - Facial pain
  - Foreign bodies
  - Epistaxis
  - Nasal trauma and deformity
  - Nasal and paranasal sinus tumours.

- **Diseases of the oesophagus**
  - Benign Oesophageal and Related Disorders in Childhood
  - Oesophageal Neoplasm

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**ST1 Placement in Otolaryngology**

The purpose of a four or six month placement in **otolaryngology** is to provide:

- trainees with insight into the specialty, and the role of otolaryngologists
- skills which may be a basis for further training in the specialty, or which may be transferable and creditable to other specialties or disciplines

**Knowledge**

- An introduction to the anatomy, physiology and pathology of the ears, nose, throat and neck
- An introduction to the signs, symptoms and management of common ENT disorders

**Clinical Skills**

- An ability to carry out a comprehensive clinical examination of the ears, nose, throat and neck
- An introduction to treatment planning in the management of head and neck malignancies, and other complex otological, rhinological and head and neck disorders.
- Ability to manage common ENT emergencies which include:
  - Simple epistaxis
  - Otitis externa
  - Foreign bodies in the ear, nose and oropharynx
  - Acute oropharyngeal infections
o Simple fractures of the facial skeleton

Technical Skills

- Endoscopic examination in the out patient clinic
- Endoscopic examination in theatre with biopsy as appropriate of the ears, nose and throat
- An acquisition of basic surgical skills in disorders of the ears, nose, throat head and neck
- An acquisition of basic surgical skills in disorders of the ears, nose, throat including pathology of the upper aerodigestive tract
- Specific skills in relation to the management of common ENT conditions which include:
  o Nasal cautery
  o Foreign body removal from the ear canal and oropharynx
  o Microsuction of the ears
  o Drainage of a quinsy
  o Reduction of simple nasal fractures

Professional Skills

- An appreciation of the multi-disciplinary assessment and team working in the management of disorders of the ears, nose, throat and head and neck
- Ability to communicate effectively with patients, relatives and other members of the professional team
# 3.2 Conditions

**Generic Surgical Skills and Knowledge- All Specialties**

<table>
<thead>
<tr>
<th>Basic sciences</th>
<th>Objective</th>
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</thead>
<tbody>
<tr>
<td>Underpinning basic science knowledge appropriate for the practice of surgery.</td>
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</table>

**Applied anatomy:** Knowledge of anatomy appropriate for surgery

**Physiology:** Knowledge of physiology relevant to surgical practice

**Pathology:** Knowledge of pathological principles underlying system specific pathology

**Microbiology:** Knowledge of microbiology relevant to surgical practice

**Radiology:** Knowledge of diagnostic and interventional radiology

### Knowledge

**Applied anatomy:**

- 4 Development, organs and structures, surface and imaging anatomy of thorax, abdomen, pelvis, perineum, limbs, neck as appropriate for surgical operations

**Physiology:**

- 4 Homeostasis
- 3 Thermoregulation
- 3 Metabolic pathways
- 4 Blood loss
- 4 Sepsis
- 4 Fluid balance and fluid replacement therapy
- 3 Metabolic abnormalities

**Pathology:**

- 4 Inflammation
- 4 Wound healing
- 4 Cellular injury
- 4 Vascular disorders
- 4 Disorders of growth, differentiation and morphogenesis
- 4 Tumours
- 3 Surgical immunology
- 3 Surgical haematology

**Microbiology:**

- 4 Surgically important microorganisms
- 4 Sources of infection
- 4 Asepsis and antisepsis
- 4 Sterilisation
- 4 Antibiotics
- 4 High risk patient management

**Radiology:**

- 3 Principles of diagnostic and interventional radiology

### Clinical Skills

No content

### Technical Skills

No content
### Basic surgical skills

#### Objective

*Acquisition of basic surgical skills in instrument and tissue handling.*

- **Incision of skin and subcutaneous tissue:** Ability to incise superficial tissues accurately with suitable instruments.

- **Closure of skin and subcutaneous tissue:** Ability to close superficial tissues accurately.

- **Knot tying:** Ability to tie secure knots.

- **Haemostasis:** Ability to achieve haemostasis of superficial vessels.

- **Tissue retraction:** Use of suitable methods of retraction.

- **Use of drains:** Knowledge of when to use a drain and which to choose.

- **Tissue handling:** Ability to handle tissues gently with appropriate instruments.

- **Skill as assistant:** Ability to assist helpfully, even when the operation is not familiar.

#### Knowledge

- **Incision of skin and subcutaneous tissue:**
  - 4 Langer's lines
  - 4 Healing mechanism
  - 4 Choice of instrument
  - 4 Safe practice
  - 4 Basic Surgical Skills course

- **Closure of skin and subcutaneous tissue:**
  - 4 Options for closure
  - 4 Suture and needle choice
  - 4 Safe practice

- **Knot tying:**
  - 4 Choice of material

- **Haemostasis:**
  - 4 Techniques

- **Tissue retraction:**
  - 4 Choice of instruments

- **Use of drains:**
  - 4 Indications
  - 4 Types
  - 4 Management/removal

- **Tissue handling:**
  - 4 Choice of instruments

#### Clinical Skills

*Incision of skin and subcutaneous tissue:*
4 Ability to use scalpel, diathermy and scissors

Closure of skin and subcutaneous tissue:

4 Accurate and tension free apposition of wound edges

Knot tying:

4 Single handed
4 Double handed
4 Instrument
4 Superficial
4 Deep

Haemostasis:

4 Control of bleeding vessel (superficial)
4 Diathermy
4 Suture ligation
4 Tie ligation
4 Clip application

Tissue retraction:

4 Tissue forceps
4 Placement of wound retractors

Use of drains:

4 Insertion
4 Fixation
4 Removal

Tissue handling:

4 Appropriate application of instruments and respect for tissues

Skill as assistant:

4 Anticipation of needs of surgeon when assisting

**Technical Skills**

| No content |

**Professional Skills**

| No content |
## Perioperative care

**Objective**

*Ability to manage patient care in the perioperative period.*

**Preoperative assessment and management:** *Ability to assess the patient adequately prior to operation and manage any preoperative problems appropriately.*

**Intraoperative care:** *Ability to conduct safe surgery in the operating theatre environment.*

**Postoperative care:** *Ability to care for the patient in the postoperative period.*

**Blood Products:** *Appropriate use of blood products.*

**Antibiotics:** *Appropriate use of antibiotics.*

### Knowledge

**Preoperative assessment and management:**

- 4 Cardiorespiratory physiology
- 3 Diabetes mellitus
- 3 Renal failure
- 4 Pathophysiology of blood loss
- 4 Pathophysiology of sepsis
- 4 Risk factors for surgery and scoring systems
- 3 Principles of day surgery

**Intraoperative care:**

- 4 Safety in theatre
- 4 Sharps safety
- 4 Diathermy, laser use
- 4 Infection risks
- 3 Radiation use and risks
- 4 Tourniquets
- 3 Principles of local, regional and general anaesthesia

**Postoperative care:**

- 4 Cardiorespiratory physiology
- 3 Diabetes mellitus
- 3 Renal failure
- 4 Pathophysiology of blood loss
- 4 Pathophysiology of sepsis
- 4 Complications specific to particular operation
- 2 Critical care

**Blood Products:**

- 4 Components of blood
- 4 Alternatives to use of blood products

**Antibiotics:**

- 4 Common pathogens in surgical patients
- 4 Antibiotic sensitivities
- 4 Antibiotic side-effects
- 4 Principles of prophylaxis and treatment

### Clinical Skills
Preoperative assessment and management:

4 History and examination
4 Interpretation of preop investigations
3 Management of comorbidity
4 Resuscitation

Intraoperative care:

4 Safe conduct of intraoperative care

Postoperative care:

4 Assessment of patient’s condition
4 Postoperative analgesia
4 Fluid and electrolyte management
4 Monitoring of postoperative patient
4 Detection of impending organ failure
4 Initial management of organ failure
4 Use of MDT meetings

Blood Products:

4 Appropriate use of blood products
4 Management of the complications of blood product transfusion

Antibiotics:

4 Appropriate prescription of antibiotics

Technical Skills
No content

Professional Skills
Preoperative assessment and management:

0 Communication with patient and relatives
0 Liaison with physicians and ITU staff

Intraoperative care:

0 Communication with other staff members

Postoperative care:

0 Communication with patient and relatives
0 Liaison with physicians and ITU staff

Blood Products:

0 Communication with patient and relatives

Assessment of multiple injured patients including children

Objective
Safely assess the multiply injured patient.

Knowledge
3 Anatomy
3 Pathogenesis of shock
1 Differences In Children

Clinical Skills
4 History and examination
3 Investigation
4 Resuscitation and early management according to ATLS and APLS guidelines
3 Referral to appropriate surgical subspecialties

**Technical Skills**
- Central venous line insertion
- Chest drain insertion
- Diagnostic peritoneal lavage

**Professional Skills**
No content

<table>
<thead>
<tr>
<th><strong>Bleeding diathesis</strong></th>
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<tr>
<td><strong>Objective</strong></td>
</tr>
<tr>
<td>Understand, Recognise and Manage bleeding diathesis in the surgical patient.</td>
</tr>
<tr>
<td><strong>Diagnosis:</strong></td>
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<tr>
<td>Diagnose possible bleeding diathesis in the surgical patient.</td>
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<tr>
<td><strong>Treatment:</strong></td>
</tr>
<tr>
<td>Manage bleeding diathesis in the surgical patient.</td>
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<thead>
<tr>
<th><strong>Knowledge</strong></th>
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<tbody>
<tr>
<td><strong>Diagnosis:</strong></td>
</tr>
<tr>
<td>3 Mechanism of haemostasis</td>
</tr>
<tr>
<td>3 Pathology of impaired haemostasis e.g. haemophilia, liver disease, massive haemorrhage</td>
</tr>
<tr>
<td><strong>Treatment:</strong></td>
</tr>
<tr>
<td>3 Understands use of blood products</td>
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<tr>
<th><strong>Clinical Skills</strong></th>
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<tbody>
<tr>
<td><strong>Diagnosis:</strong></td>
</tr>
<tr>
<td>4 Recognition of conditions likely to lead to the diathesis</td>
</tr>
<tr>
<td>3 Recognition of abnormal bleeding during surgery</td>
</tr>
<tr>
<td><strong>Treatment:</strong></td>
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<tr>
<td>3 Avoidance by correct surgical techniques</td>
</tr>
<tr>
<td>3 Corrective measures, e.g. warming, packing</td>
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<thead>
<tr>
<th><strong>Technical Skills</strong></th>
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<td>No content</td>
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<tr>
<th><strong>Professional Skills</strong></th>
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<tbody>
<tr>
<td><strong>Diagnosis:</strong></td>
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<tr>
<td>0 Communication with laboratory staff</td>
</tr>
<tr>
<td><strong>Treatment:</strong></td>
</tr>
<tr>
<td>0 Communication with anaesthetist, theatre team and laboratory staff</td>
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<table>
<thead>
<tr>
<th><strong>Venous thrombosis + embolism</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Objective</strong></td>
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<tr>
<td>Understanding of practice in the prevention and management of Venous thrombosis and Embolism.</td>
</tr>
<tr>
<td><strong>Coagulation:</strong></td>
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<tr>
<td>Understanding of the physiology and pathophysiology of coagulation.</td>
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<tr>
<td><strong>Diagnosis:</strong></td>
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<tr>
<td>Able to arrange basic investigation of patients with suspected venous thrombosis and embolism.</td>
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<tr>
<td><strong>Treatment:</strong></td>
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<tr>
<td>Ability to initiate treatment of venous thrombosis and embolism.</td>
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<tr>
<td><strong>Prophylaxis:</strong></td>
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<tr>
<td>Use of common methods of prophylaxis against venous thrombosis and embolism.</td>
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<table>
<thead>
<tr>
<th><strong>Knowledge</strong></th>
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</thead>
</table>
Coagulation:
2 Clotting mechanism (Virchow Triad)
2 Effect of surgery and trauma on coagulation
2 Tests for thrombophilia and other disorders of coagulation

Diagnosis:
2 Methods of investigation for suspected thromboembolic disease

Treatment:
4 Anticoagulation, heparin and warfarin
2 Role of V/Q scanning, CT angiography and thrombolysis
2 Place of pulmonary embolectomy

Prophylaxis:
3 Knowledge of methods of prevention, mechanical and pharmacological

Clinical Skills

Coagulation:
4 Recognition of patients at risk

Diagnosis:
3 Awareness of symptoms and signs associated with pulmonary embolism and DVT
2 Role of duplex scanning, venography and d-dimer measurement

Treatment:
3 Initiate and monitor treatment

Prophylaxis:
4 Awareness at all times of the importance of prophylaxis

Technical Skills

No content

Professional Skills

Coagulation:
0 Protocol management

Diagnosis:
0 Ability to organise and time appropriate investigation

Treatment:
0 Prioritisation of investigation and treatment
0 Patient counselling

Prophylaxis:
0 Able to implement in the team setting the culture of prophylaxis

Nutrition
Objective
Recognise the need for artificial nutritional support and arrange enteral nutrition.

Knowledge
3 Effects of malnutrition, both excess and depletion
3 Methods of screening and assessment
Clinical Skills
3 Arrange access to suitable artificial nutritional support, preferably via a nutrition team: Dietary supplements
2 Arrange access to suitable artificial nutritional support, preferably via a nutrition team: Enteral nutrition
1 Arrange access to suitable artificial nutritional support, preferably via a nutrition team: Parenteral nutrition

Technical Skills
No content

Professional Skills
No content

Academic activity
Objective
An introduction to research methodology and to teaching others.

Research: Ability to perform a simple research study and present the results.

Teaching: Ability to teach small groups such as medical students.

Knowledge
Research:
2 Research methodology

Teaching:
2 Teaching methods

Clinical Skills
Research:
2 Ability to analyse published evidence

Teaching:
3 Ability to teach small groups

Technical Skills
No content

Professional Skills
No content

Management of the dying patient
Objective
Ability to manage the dying patient appropriately.

Palliative Care: Good management of the dying patient in consultation with the palliative care team.

Principles of organ donation: Knowledge of the principles of organ donation.

Knowledge
Palliative Care:
3 Care of the terminally ill
4 Analgesia
3 Antiemetics
3 Laxatives

Principles of organ donation:
3 Circumstances in which consideration of organ donation is appropriate
3 Principles of brain death
3 Understanding the role of the coroner and the certification of death

**Clinical Skills**
Palliative Care:

3 Symptom control in the terminally ill patient

**Technical Skills**
No content

**Professional Skills**
Palliative Care:

0 Communication with the patient and relatives
0 Liaison with the palliative care team

Principles of organ donation:

0 Communication with relatives
0 Liaison with the transplant team
0 Learn to cope with crisis and mortality

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**Endocrine and Metabolic Disorders**

**Objective**
To identify, investigate and manage surgical patients with common metabolic disorders
- To identify, investigate and manage surgical patients with Thyrotoxicosis
- To identify, investigate and manage surgical patients with Hypothyroidism
- To identify, investigate and manage surgical patients with Hypercalcaemia
- Knowledge of the significance of corticosteroid therapy in patient care
- To identify, investigate and manage surgical patients with Diabetes mellitus
- To identify, investigate and manage surgical patients with Hyponatraemia

**Knowledge**
Thyrotoxicosis
4 Pathophysiology of thyroid hormone excess and associated risks from surgery

Hypothyroidism
4 Pathophysiology of thyroid hormone deficiency and associated risks from surgery

Hypercalcaemia
3 Causes and effects of hypercalcaemia

Cortico-steroid therapy
4 Complications
4 Steroid insufficiency

Diabetes Mellitus
4 Complications

Hyponatraemia
4 Pathophysiology of fluid and electrolyte balance
4 Causes of hyponatraemia

**Clinical Skills**
Thyrotoxicosis
4 History and examination
3 Investigation of thyrotoxicosis

Hypothyroidism
4 History and examination
4 Investigation

Hypercalcaemia
3 Investigation of hypercalcaemia
3 Treatment of hypercalcaemia
<table>
<thead>
<tr>
<th><strong>Cortico-steroid therapy</strong></th>
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<tbody>
<tr>
<td>4 Peri-operative management of patients on steroid therapy</td>
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<thead>
<tr>
<th><strong>Diabetes Mellitus</strong></th>
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<tr>
<td>4 Peri-operative management of diabetic patients</td>
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<thead>
<tr>
<th><strong>Hyponatraemia</strong></th>
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<tr>
<td>4 Treatment</td>
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<tr>
<th><strong>Technical Skills</strong></th>
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<tr>
<th><strong>Professional Skills</strong></th>
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<tbody>
<tr>
<td>Liaise with endocrinologists</td>
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<tr>
<td>Liaise with diabetic team</td>
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<tr>
<th><strong>Child Protection</strong></th>
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<tr>
<th><strong>Objective</strong></th>
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<table>
<thead>
<tr>
<th><strong>Knowledge</strong></th>
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<tbody>
<tr>
<td>4 Working knowledge of Trust and ACPC Child Protection Procedures</td>
</tr>
<tr>
<td>4 Basic understanding of child protection law</td>
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<tr>
<td>4 Understanding of Children's rights</td>
</tr>
<tr>
<td>4 Working knowledge of types and categories of child maltreatment, presentations, signs and other features (primarily physical, emotional, sexual, neglect, professional)</td>
</tr>
<tr>
<td>4 Understanding of one personal role, responsibilities and appropriate referral patterns in child protection</td>
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<tr>
<td>4 Understanding of the challenges of working in partnership with children and families</td>
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<table>
<thead>
<tr>
<th><strong>Clinical Skills</strong></th>
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<tr>
<td>Ability to:</td>
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<tr>
<td>4 recognise the possibility of abuse or maltreatment</td>
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<tr>
<td>4 recognise limitations of own knowledge and experience and seek appropriate expert advice</td>
</tr>
<tr>
<td>4 urgently consult immediate senior in surgery to enable referral to paediatricians</td>
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<tr>
<td>4 keep appropriate written documentation relating to child protection matters</td>
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<td>4 Communicate effectively with those involved with child protection, including children and their families</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Technical Skills</strong></th>
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<th><strong>Professional Skills</strong></th>
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<tr>
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</table>
Paediatric

### Neck masses in infants and children

**Objective**

*To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.*

**Knowledge**

1. The embryology and anatomy of the neck with particular reference to the thyroid gland and branchial arch structures.
2. Understanding of the classification of neck masses.
3. Awareness of the various hypotheses relating to the aetiology of neck masses.
4. Understand the principles of the medical and surgical management of neck masses and their complications.

**Clinical Skills**

1. Elicit clinical history and signs.
2. Able to examine the oral cavity, oropharynx and neck.
3. Able to deduce a differential diagnosis and formulate strategy to reach final diagnosis.
4. Recognise rarer causes of neck masses such as first arch abnormalities, tumours e.g. lymphomas, granulomatous conditions and lymphangiomas.

**Technical Skills**

1. Be able to perform competently excision of thyroglossal and branchial cleft cysts.

**Professional Skills**

Be able to advise the patient and parents of the treatment options.
Discuss risks and potential benefits, potential complications and obtain informed consent.
Be aware of specific issues that relate to the management of children in hospital.

### Airway disorders in childhood.

**Objective**

*To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.*

**Knowledge**

1. Understand the anatomy of the upper aerodigestive tract particularly relevant to children.
2. Be able to classify airway disorders as congenital or acquired.
3. Knowledge of the disorders that affect the airway in childhood including laryngomalacia, laryngo-tracheobronchitis, papillomatosis, asthma, foreign bodies, stenosis, fistulae and various infections (viral, bacterial).
4. Understand the nature and presenting features of obstructive sleep apnoea in infancy.

**Clinical Skills**

1. Elicit clinical history and clinical signs.
2. Establish a differential and working diagnosis
3. Order appropriate tests.

**Technical Skills**

1. Be able to perform competently endoscopic assessment of the airway
2. Endotracheal intubation
3. Endoscopic laser surgery
4. paediatric tracheostomy
5. foreign body removal
6. Perform competently under supervision, surgery for choanal atresia

**Professional Skills**

Be able to advise the patient and parents of the treatment options, discuss risks and
potential benefits, potential complications and obtain informed consent
Be able to work as a team with professional colleagues, in particular anaesthetists, in a shared airway
Be aware of issues that relate to children in hospital.

### Congenital deformities of the ear and temporal bone.

**Objective**

To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**

3 Anatomy, physiology and pathology of the ear and auditory pathways.
3 Embryology of the ear.
3 The aetiology and presenting symptoms of congenital deformities of ear and temporal bone.
3 Issues relating to patients with multiple handicaps.
2 Radiological investigation.
2 Rehabilitation including bone conductor and bone anchored hearing aids; bone anchored prostheses.
2 Surgical correction of congenital abnormalities of the external and middle ear.

**Clinical Skills**

4 History taking and examination,
2 Appropriate referral to other agencies/ for other opinion including genetics, general paediatric/ developmental paediatrics, specialist services for the deaf including educational services.
1 Principles of patient management.

**Technical Skills**

No content

**Professional Skills**

Demonstrate communication skills and empathy including teamworking and issues relating to paediatric practice

Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent

---

### Deafness in childhood

**Objective**

To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**

4 Anatomy, physiology and pathology of the ear and auditory pathways
4 The pathogenesis of disorders of the ear and hearing
2 Embryology of the ear.
3 Principles and practice of screening including neonatal screening.
3 Audiological testing in children including distraction testing, visual reinforcement audiometry, play audiometry, Toy testing, sound-field testing and electrophysiological tests of hearing.
3 Aetiological investigation including genetics testing.
3 Radiology of the ear and central auditory pathways.
2 Relevance of speech and language delay and developmental delay.
3 Causes of sensorineural hearing loss in children.
4 Otitis media with effusion.
2 Non-organic hearing loss.
3 Ototoxicity.
2 Central auditory processing disorders, auditory neuropathy, obscure auditory disfunction
3 Role of other agencies including clinical genetics, general paediatrics/ developmental paediatrics, specialist services for the deaf including educational services.
3 Relevance of oral/ aural and visual communication strategies; total communication.
2 Hearing aids and other assistive devices.  
2 The Deaf community.  
3 Surgical options including myringotomy and insertion of ventilation tubes, tympanoplasty, cochlear implantation and bone anchored hearing aids. 

**Clinical Skills**  
4 History taking and examination,  
2 simple clinical audiological tests,  
2 appropriate referral to other agencies/ for other opinion including genetics, general paediatric/ developmental paediatric, specialist services for the deaf including educational services.  
2 Principles of patient management.  

**Technical Skills**  
3 surgical ventilation of the ears  
3 Adenoidectomy  

**Professional Skills**  
Demonstrate communication skills and empathy.  
Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent

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<table>
<thead>
<tr>
<th>Cochlear implantation in children; other implantable hearing devices including bone anchored hearing aids and middle ear implants</th>
</tr>
</thead>
</table>
| **Objective**  
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive. |
| **Knowledge**  
4 Anatomy, physiology and pathology of the ear and auditory pathways.  
4 The pathogenesis of disorders of the ear and hearing.  
4 Embryology of the ear.  
2 Types of implants, indications and contraindications including risks and complications.  
2 Surgical approaches to the inner ear.  
1 Speech processing strategies.  
3 Role of extended teamwork.  
2 Principles of osseointegration. |
| **Clinical Skills**  
4 History taking, clinical examination,  
2 Significance of radiological findings.  
2 Principles of patient management. |
| **Technical Skills**  
1 Surgery of the middle and inner ear |
| **Professional Skills**  
Demonstrate communication skills and empathy.  
Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent |

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<table>
<thead>
<tr>
<th>Facial Paralysis</th>
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</table>
| **Objective**  
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive. |
| **Knowledge**  
4 The anatomy and physiology of facial nerve.  
3 The causes, and types of facial paralysis.  
2 The relevant clinical neurological, vascular, radiological, biochemical, serological and electrophysiological investigations.  
2 Principles of rehabilitation for facial paralysis.  
1 Understand the psychological effects of facial disfigurement. |
### Clinical Skills
- 4 History taking, clinical examination,
- 2 Significance of radiological findings.
- 1 Interpret neurophysiological tests.
- 2 Principles of patient management.

### Technical Skills
No content

### Professional Skills
Demonstrate communication skills and empathy.
Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

### Tinnitus

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- 4 Anatomy, physiology and pathology of the ear and auditory pathways.
- 3 The pathogenesis of disorders of the ear and hearing.
- 3 Principles and practice of audiology including pure tone audiometry, speech audiometry and electrophysiological tests and other objective tests of hearing including oto-acoustic emissions.
- 2 Psychoacoustical tests, pitch and loudness match, minimum masking level, residual inhibition.
- 3 The various hypotheses relating to the aetiology of tinnitus.
- 2 The psychological effects of tinnitus.
- 2 Principles of tinnitus retraining and rehabilitation and the principles of support and counselling.

**Clinical Skills**
- 4 History taking, clinical examination,
- 2 Significance of radiological findings.
- 2 Interpret neurophysiological tests.
- 2 Principles of patient management.

**Technical Skills**
No content

**Professional Skills**
Demonstrate communication skills and empathy.
Be able to advise the patient of the treatment options, discuss risks and potential benefits.

### Ear Trauma

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- 4 Anatomy, physiology and pathology of the ear and auditory pathways.
- 3 The effects of trauma on the pinna, ear canal, tympanic membrane, middle ear and temporal bone.
- 2 The effects and assessment of poly-trauma and neurological injury.
- 3 The effects of barotrauma on the middle and inner ear.
- 2 The surgical and non-surgical management of trauma of the external, middle and inner ear.
Clinical Skills
4 History taking, clinical examination,
2 Significance of radiological findings.
2 Interpret audiovestibular tests.
2 Principles of patient management

Technical Skills
3 Drain auricular haematomas.
1 Myringoplasty and ossiculoplasty.

Professional Skills
Demonstrate communication skills and empathy.
2 Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

Chronic suppurative otitis media including its intracranial complications

Objective
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

Knowledge
4 Anatomy, physiology and pathology of the ear.
4 Embryology of the ear.
3 Principles and practice of audiometry including pure tone audiometry.
3 The aetiology and pathogenesis of cholesteatoma and of other types of chronic middle ear disease.
3 The intracranial complications of ear disease.
3 The importance of teamwork in managing critically ill patients.
2 Principles of auditory rehabilitation.

Clinical Skills
2 History taking,
4 clinical examination,
2 significance of radiological findings.
2 Interpret relevant neuro-radiological investigations.
2 Interpret audiological tests.
2 Understand principles of patient management.
3 Microscope assessment of the ear.

Technical Skills
3 Microscope assessment of the ear.
2 Aural polypectomy.
1 Cortical mastoidectomy open cavity surgery and myringoplasty.

Professional Skills
Demonstrate communication skills and empathy.
Be able to break bad news.
Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

Acute otitis media

Objective
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

Knowledge
4 Anatomy, physiology and pathology of the ear.
4 The microbiology of ear infections.
3 Complications of acute otitis media.

Clinical Skills
Disorders of the external ear including otitis externa.

Objective
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

Knowledge
4 Anatomy, physiology and pathology of the ear.
4 Microbiology of otitis externa.
3 The pathogenesis of disorders of the external ear.
3 Necrotising otitis externa.

Clinical Skills
4 History taking, clinical examination.
2 Interpret audio vestibular tests.
3 Understand principles of patient management.
3 Aural microsuction and insertion of dressings.

Technical Skills
3 Aural microsuction and insertion of dressings.

Professional Skills
Demonstrate communication skills and empathy.
Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

Foreign bodies in the ear canal.

Objective
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

Knowledge
4 Anatomy, physiology and pathology of the ear.
4 Microbiology of otitis externa.
3 The pathogenesis of disorders of the external ear.

Clinical Skills
4 History taking, clinical examination.
3 Understand principles of patient management.

Technical Skills
3 Removal of aural foreign body.

Professional Skills
Demonstrate communication skills and empathy.
Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

Congenital nasal abnormalities

Objective
To understand the aetiology, presenting signs, symptoms and management of common
paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- 4 Aetiology, embryology and clinical picture of congenital deformities of the nose and paranasal sinuses.
- 3 An understanding of associations with other syndromes.

**Clinical Skills**
- 4 Assessment of the nose and paranasal sinuses
- 4 General assessment

**Technical Skills**
No content

**Professional Skills**
Communication skills, empathy, an understanding of team working and issues relating to paediatric practice
Ability to understand issues relating to patients with multiple handicaps.

---

**Nose and sinus infections**

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- 4 Anatomy and physiology of the nose and sinuses
- 4 Aetiology
- 4 Microbiology
- 3 Complications of acute and chronic rhinosinusitis

**Clinical Skills**
- 3 Diagnosis, assessment and management.
- 2 Imaging
- 4 Speculum and endoscopic examination

**Technical Skills**
- 3 Antral washout
- 2 Antrostomy (inferior meatal)

**Professional Skills**
Communication skills, empathy, an understanding of team working and issues relating to practice.

---

**Nose and sinus inflammation excluding infection**

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- 4 Anatomy and physiology of the nose and sinuses
- 4 Mechanisms of allergic and non allergic rhinitis
- 4 Medical and surgical management of inflammatory nasal disease
- 2 Complications

**Clinical Skills**
- 3 Diagnosis, assessment and management
- 4 Skin prick testing
- 2 Imaging

**Technical Skills**
- 2 Turbinate surgery
4 Skin prick testing
1 Other nose and sinus surgery
1 Endoscopic surgery
**Professional Skills**
Advise the patient of the treatment options and risks.

---

**Nasal polyps**

**Objective**
*To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.*

**Knowledge**
4 Anatomy and physiology of the nose and sinuses
4 Mechanisms of allergic and non allergic rhinitis
3 The role of cystic fibrosis
4 Medical and surgical management of inflammatory nasal disease
2 Complications

**Clinical Skills**
3 Diagnosis, assessment and management.
2 Imaging

**Technical Skills**
3 Simple nasal polypectomy
1 Other nose and sinus surgery
1 Endoscopic surgery

**Professional Skills**
Advise the patient of the treatment options and risks.

---

**Foreign bodies in the nose**

**Objective**
*To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.*

**Knowledge**
4 Anatomy and physiology of the nose and sinuses
2 Complications

**Clinical Skills**
3 Diagnosis, assessment and management.
2 Imaging

**Technical Skills**
3 Removal of foreign body

**Professional Skills**
Advise the patient of the treatment options and risks.

---

**Epistaxis**

**Objective**
*To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.*

**Knowledge**
4 Anatomy and physiology of the nose and sinuses
4 Bleeding diathesis
### Nasal trauma and deformity.

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- Anatomy and physiology of the nose and sinuses
- Embryology of congenital nasal deformity
- Complications

**Clinical Skills**
- Diagnosis, assessment and management.
- Imaging

#### Technical Skills
- Reduction of nasal fractures
- Septal surgery
- (Septo)Rhinoplasty

**Professional Skills**
Advise the patient of the treatment options and risks.

### Nasal and paranasal sinus tumours.

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- Anatomy and physiology of the nose and sinuses
- Pathology of benign and malignant tumours
- Complications

**Clinical Skills**
- Diagnosis, assessment and management.
- Imaging

**Technical Skills**
- Biopsy of nasal masses

**Professional Skills**
Advise the patient of the treatment options and risks.

### Adenoidal and tonsillar pathology.

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- Anatomy and physiology of pharyngeal lymphoid tissue and the pharynx
- Medical and surgical management of infections of the pharyngeal lymphoid tissue
3 Secondary effects of pharyngeal lymphoid hyperplasia.

3 Complications

**Clinical Skills**
4 Elicit clinical history and clinical signs
4 Diagnosis, assessment and management

**Technical Skills**
4 Drainage of peritonsillar abscess
3 Competence in tonsillectomy and adenoidectomy
2 Competence in the management of postoperative bleeding following tonsil and adenoid surgery

**Professional Skills**
Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.
# Head and Neck

## Congenital deformities of the larynx

**Objective**

To understand the aetiology, presenting signs, symptoms and management of common head and neck conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

### Knowledge

- Anatomy, physiology, and pathology of the upper airways.
- The aetiology, embryology and presenting symptoms of congenital deformities of the larynx.
- Issues relating to patients with multiple handicaps.
- Radiological investigations.
- Surgical management of congenital laryngeal abnormalities.

### Clinical Skills

- History taking,
- Mirror and endoscopic examination of the larynx and pharynx

### Technical Skills

- Laryngeal endoscopy

### Professional Skills

- Demonstrate Communication skills, empathy, including teamworking and issues relating to paediatric practice.
- Ability to understand issues relating to patients with multiple handicaps.
- Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

## Salivary gland disease.

**Objective**

To understand the aetiology, presenting signs, symptoms and management of common head and neck conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

### Knowledge

- Anatomy, physiology and pathology of salivary gland disorders (Parotid, submandibular and minor salivary glands).
- Understand the classification of salivary gland disease
- Understand principles of patient management.
- Understand imaging of salivary gland disorders.
- Understand the medical and surgical management of salivary gland disease, and the complications of surgery

### Clinical Skills

- Elicit clinical history and clinical signs.
- Be able to examine the neck and mouth

### Technical Skills

- No content

### Professional Skills

- Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

## Thyroid disease.

**Objective**

To understand the aetiology, presenting signs, symptoms and management of common head and neck conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.
head and neck conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

Knowledge
- 4 Physiology, biochemistry and anatomy of the thyroid gland and neck.
- 3 Understand the classification of thyroid disease
- 2 Imaging of the thyroid gland
- 3 Understand principles of patient management.
- 2 Understand the medical and surgical management of thyroid disease and the complications of thyroid surgery

Clinical Skills
- 4 Elicit clinical history and clinical signs.

Technical Skills
- No content

Professional Skills
Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

Head and neck cancer.
Objective
To understand the aetiology, presenting signs, symptoms and management of common head and neck conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

Knowledge
- 4 Anatomy and physiology of the head and neck
- 4 Understand the classification of head and neck tumours.
- 3 Understand the presenting signs and symptoms of head and neck cancer
- 3 Understand the various hypotheses relating to the aetiology of squamous cell cancer
- 3 Understand the pattern of spread of disease
- 2 Understand principles of patient management
- 2 Understand imaging of head and neck cancer.
- 2 Understand the functional consequences of head and neck disease, and its treatment.
- 2 Understand the medical and surgical management of head and neck cancer.

Clinical Skills
- 4 Elicit clinical history and clinical signs
- 3 Endoscopy of the upper aerodigestive tract in the outpatient department
- 3 Be able to work as a team member, and recognise the contributions made by other team members to patient management
- 3 Communication skills with other professionals
- 2 Endoscopic assessment of head and neck cancer under a general anaesthetic

Technical Skills
- 2 Endoscopic assessment of head and neck cancer under a general anaesthetic

Professional Skills
Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

Be able to break bad news, and to work as a member of a team.

Airway disorders.
Objective
To understand the aetiology, presenting signs, symptoms and management of common head and neck conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

Knowledge
- 4 Anatomy, physiology and pathology of the upper aerodigestive tract
- 4 Understand the classification of airway disorders.
3 Understand principles of patient management.  
3 Understand the medical and surgical management of airway disorders

**Clinical Skills**
- 4 Elicit clinical history and clinical signs.
- 3 Be able to work with anaesthetists in the "shared airway"
- 3 Assessment of patients with critical airways.
- 2 Be able to perform competently endoscopic assessment of the airway, intubation

**Technical Skills**
- 2 Be able to perform competently endoscopic assessment of the airway, intubation
- 2 Tracheostomy, and foreign body removal

**Professional Skills**
Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

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**Voice disorders.**

**Objective**
*To understand the aetiology, presenting signs, symptoms and management of common head and neck conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.*

**Knowledge**
- 4 Anatomy and physiology of the larynx
- 3 Understand the classification of dysphonias.
- 3 Understand the various hypotheses relating to the aetiology of dysphonias.
- 3 Understand principles of patient management.
- 2 Understand the medical and surgical management of dysphonias.

**Clinical Skills**
- 4 Elicit clinical history and clinical signs
- 3 Endoscopic assessment
- 3 Endoscopic assessment with other professionals

**Technical Skills**
- 3 Endoscopic assessment

**Professional Skills**
Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

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**Pharyngeal and oesophageal disorders.**

**Objective**
*To understand the aetiology, presenting signs, symptoms and management of common head and neck conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.*

**Knowledge**
- 4 Anatomy of the pharynx, and physiology of swallowing
- 4 Understand the various hypotheses relating to the aetiology of dysphagia.
- 3 Understand principles of patient management.
- 2 Understand the medical and surgical management of dysphagia

**Clinical Skills**
- 4 Elicit clinical history and clinical signs.
- 3 Endoscopic examination of the pharynx and oesophagus

**Technical Skills**
- 3 Endoscopic examination of the pharynx and oesophagus
- 2 Competence in removing foreign bodies from the pharynx and oesophagus

**Professional Skills**
Be able to advise the patient of the treatment options, discuss risks and potential benefits,
potential complications and obtain informed consent.

<table>
<thead>
<tr>
<th>Cervical lymphadenopathy.</th>
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<tr>
<td><strong>Objective</strong></td>
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<tr>
<td>To understand the aetiology, presenting signs, symptoms and management of common head and neck conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.</td>
</tr>
<tr>
<td><strong>Knowledge</strong></td>
</tr>
<tr>
<td>3 Anatomy and physiology of the neck including the lymphatic system</td>
</tr>
<tr>
<td>3 Understand the aetiology, pathology, presenting signs and symptoms of cervical lymphadenopathy</td>
</tr>
<tr>
<td>3 Understand the need for endoscopic assessment and biopsies of patients presenting with a neck mass</td>
</tr>
<tr>
<td>2 Understand imaging of the neck</td>
</tr>
<tr>
<td><strong>Clinical Skills</strong></td>
</tr>
<tr>
<td>4 Elicit clinical history and clinical signs.</td>
</tr>
<tr>
<td>4 Be able to examine the mouth, nose, nasopharynx, pharynx, larynx and oesophagus with endoscopes as required in outpatients, and under a general anaesthetic.</td>
</tr>
<tr>
<td><strong>Technical Skills</strong></td>
</tr>
<tr>
<td>4 Be able to examine the mouth, nose, nasopharynx, pharynx, larynx and oesophagus with endoscopes under a general anaesthetic.</td>
</tr>
<tr>
<td>2 Fine needle aspiration cytology</td>
</tr>
<tr>
<td>2 Lymph node excision</td>
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<tr>
<td><strong>Professional Skills</strong></td>
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<tr>
<td>Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.</td>
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<table>
<thead>
<tr>
<th>Sleep apnoea.</th>
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</thead>
<tbody>
<tr>
<td><strong>Objective</strong></td>
</tr>
<tr>
<td>To understand the aetiology, presenting signs, symptoms and management of common head and neck conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.</td>
</tr>
<tr>
<td><strong>Knowledge</strong></td>
</tr>
<tr>
<td>4 Anatomy and physiology of the upper aerodigestive tract</td>
</tr>
<tr>
<td>4 Aetiology, presenting signs and symptoms in adults and children</td>
</tr>
<tr>
<td>2 Principles and practice of sleep assessment</td>
</tr>
<tr>
<td><strong>Clinical Skills</strong></td>
</tr>
<tr>
<td>4 Elicit clinical history and clinical signs</td>
</tr>
<tr>
<td>3 Examine the upper aerodigestive tract with endoscopes in the outpatient department and under an anaesthetic</td>
</tr>
<tr>
<td><strong>Technical Skills</strong></td>
</tr>
<tr>
<td>3 Examine the upper aerodigestive tract with endoscopes under a general anaesthetic</td>
</tr>
<tr>
<td><strong>Professional Skills</strong></td>
</tr>
<tr>
<td>Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Adenoidal and tonsillar pathology.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Objective</strong></td>
</tr>
<tr>
<td>To understand the aetiology, presenting signs, symptoms and management of common head and neck conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.</td>
</tr>
</tbody>
</table>
**Knowledge**

4 Anatomy and physiology of pharyngeal lymphoid tissue and the pharynx  
4 Medical and surgical management of infections of the pharyngeal lymphoid tissue  
3 Secondary effects of pharyngeal lymphoid hyperplasia.  
3 Complications

**Clinical Skills**

4 Elicit clinical history and clinical signs  
4 Diagnosis, assessment and management

**Technical Skills**

4 Drainage of peritonsillar abscess.  
3 Competence in tonsillectomy  
2 Competence in the management of postoperative bleeding following tonsil surgery

**Professional Skills**

Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.
## Otology

### Congenital deformities of the ear and temporal bone

**Objective**

*To understand the aetiology, presenting signs, symptoms and management of common ORL conditions. This module gives some indication of the breadth and depth of required knowledge, clinical and surgical skills. The list should not be considered to be fully inclusive or exhaustive.*

**Knowledge**

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<tr>
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</thead>
<tbody>
<tr>
<td>4</td>
<td>Anatomy, physiology and pathology of the ear and auditory pathways.</td>
</tr>
<tr>
<td>4</td>
<td>Embryology of the ear</td>
</tr>
<tr>
<td>2</td>
<td>An understanding of the aetiology and presenting symptoms of congenital deformities of ear and temporal bone.</td>
</tr>
<tr>
<td>2</td>
<td>Issues relating to patients with multiple handicaps.</td>
</tr>
<tr>
<td>2</td>
<td>Radiological investigation</td>
</tr>
<tr>
<td>2</td>
<td>Audiological investigation</td>
</tr>
<tr>
<td>2</td>
<td>Rehabilitation including bone conductor and bone anchored hearing aids; bone anchored prostheses.</td>
</tr>
<tr>
<td>2</td>
<td>Surgical correction of congenital abnormalities of the external and middle ear.</td>
</tr>
</tbody>
</table>

**Clinical Skills**

<p>| | |</p>
<table>
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</thead>
<tbody>
<tr>
<td>4</td>
<td>History taking and examination</td>
</tr>
<tr>
<td>2</td>
<td>Appropriate referral to other agencies/ for other opinion including genetics, general paediatric/ developmental paediatric, specialist services for the deaf including educational services.</td>
</tr>
<tr>
<td>1</td>
<td>Principles of patient management</td>
</tr>
</tbody>
</table>

**Technical Skills**

*No content*

**Professional Skills**

Professional skills are to be assessed as satisfactory or needs development.

Demonstrate communication skills and empathy, including teamworking and issues relating to paediatric practice.

Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

### Deafness in adults

**Objective**

*To understand the aetiology, presenting signs, symptoms and management of common ORL conditions. This module gives some indication of the breadth and depth of required knowledge, clinical and surgical skills. The list should not be considered to be fully inclusive or exhaustive.*

**Knowledge**

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<tr>
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</thead>
<tbody>
<tr>
<td>4</td>
<td>Anatomy, physiology and pathology of the ear and auditory pathways.</td>
</tr>
<tr>
<td>4</td>
<td>The pathogenesis of disorders of the ear and hearing</td>
</tr>
<tr>
<td>4</td>
<td>Embryology of the ear</td>
</tr>
<tr>
<td>2</td>
<td>Principles and practice of audiology including pure tone audiometry, speech audiometry and electrophysiological tests and other objective tests of hearing including oto-acoustic emissions</td>
</tr>
<tr>
<td>2</td>
<td>Aetiological investigation including genetics testing</td>
</tr>
<tr>
<td>2</td>
<td>Causes of sensorineural deafness</td>
</tr>
<tr>
<td>2</td>
<td>Non-organic hearing loss</td>
</tr>
<tr>
<td>2</td>
<td>Deafness of ageing</td>
</tr>
<tr>
<td>2</td>
<td>Noise Induced deafness</td>
</tr>
<tr>
<td>2</td>
<td>Ototoxicity</td>
</tr>
<tr>
<td>2</td>
<td>Otosclerosis and other causes of conductive deafness including otitis media with effusion</td>
</tr>
<tr>
<td>2</td>
<td>The aetiology, genetics and pathophysiology of otosclerosis</td>
</tr>
<tr>
<td>2</td>
<td>Progressive or sudden onset hearing loss, both conductive and sensorineural</td>
</tr>
<tr>
<td>2</td>
<td>Central auditory processing disorders, auditory neuropathy, obscure auditory disfunction</td>
</tr>
</tbody>
</table>

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2 Auditory rehabilitation including the use of hearing aids and other assistive devices.

2 Surgical options including cochlear implantation, bone anchored hearing aids (BAHA) and middle ear implants

**Clinical Skills**
- 4 History taking and examination
- 2 Interpret audio vestibular tests
- 2 Principles of patient management

**Technical Skills**
- 1 Tympanomastoid and stapes surgery
- 3 Surgical ventilation of the ears

**Professional Skills**
Professional skills are to be assessed as satisfactory or needs development.

Demonstrate communication skills and empathy

Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent

---

**Facial Paralysis**

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common ORL conditions. This module gives some indication of the breadth and depth of required knowledge, clinical and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- 4 The anatomy and physiology of facial nerve
- 4 The causes, and types of facial paralysis
- 2 The relevant clinical neurological, vascular, radiological, biochemical, serological and electrophysiological investigations
- 2 Principles of rehabilitation for facial paralysis
- 1 Understand the psychological effects of facial disfigurement

**Clinical Skills**
- 4 History taking, clinical examination
- 2 Significance of radiological findings
- 2 Interpret neurophysiological tests
- 2 Principles of patient management

**Technical Skills**
No content

**Professional Skills**
Professional skills are to be assessed as satisfactory or needs development.

Demonstrate communication skills and empathy

Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent

---

**Cochlear implantation in adults and children; other implantable hearing devices including bone anchored hearing aids and middle ear implants**

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common ORL conditions. This module gives some indication of the breadth and depth of required knowledge, clinical and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- 4 Anatomy, physiology and pathology of the ear and auditory pathways.
- 4 The pathogenesis of disorders of the ear and hearing.
- 4 Embryology of the ear.
- 2 Types of implants, indications and contraindications including risks and complications.
Tinnitus

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common ORL conditions. This module gives some indication of the breadth and depth of required knowledge, clinical and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
4 Anatomy, physiology and pathology of the ear and auditory pathways.
4 The pathogenesis of disorders of the ear and hearing
3 Principles and practice of audiology including pure tone audiometry, speech audiometry and electrophysiological tests and other objective tests of hearing including oto-acoustic emissions
2 Psychoacoustical tests, pitch and loudness match, minimum masking level, residual inhibition
2 The various hypotheses relating to the aetiology of tinnitus
2 The psychological effects of tinnitus
2 Principles of tinnitus retraining and rehabilitation and the principles of support and counselling

**Clinical Skills**
4 History taking, clinical examination
2 Significance of radiological findings
2 Interpret neurophysiological tests
2 Principles of patient management

**Technical Skills**
No content

**Professional Skills**
Professional skills are to be assessed as satisfactory or needs development.
Demonstrate communication skills and empathy.
Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

Ear trauma

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common ORL conditions. This module gives some indication of the breadth and depth of required knowledge, clinical and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
4 Anatomy, physiology and pathology of the ear and auditory pathways.
4 The effects of trauma on the pinna, ear canal, tympanic membrane, middle ear and temporal bone including the effects of barotrauma on the middle and inner ear
2 The effects and assessment of poly-trauma and neurological injury
2 The surgical and non-surgical management of trauma of the external, middle and inner
**Chronic suppurative otitis media including its intracranial complications**

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common ORL conditions. This module gives some indication of the breadth and depth of required knowledge, clinical and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
1. Anatomy, physiology and pathology of the ear
2. Embryology of the ear
3. Principles and practice of audiology including pure tone audiometry
4. The aetiology and pathogenesis of cholesteatoma and of other types of chronic middle ear disease
5. The intracranial complications of ear disease
6. The importance of teamwork in managing critically ill patients
7. Principles of auditory rehabilitation

**Clinical Skills**
1. History taking, clinical examination
2. Significance of radiological findings including relevant neuro-radiological investigations
3. Interpret audiological tests
4. Understand principles of patient management
5. Microscope assessment of the ear

**Technical Skills**
1. Microscope assessment of the ear
2. Aural polypectomy
3. Cortical mastoidectomy open cavity surgery and myringoplasty

**Professional Skills**
Professional skills are to be assessed as satisfactory or needs development. Demonstrate communication skills and empathy.

Be able to break bad news
Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent

**Acute otitis media**

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common ORL conditions. This module gives some indication of the breadth and depth of required knowledge, clinical and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
1. Anatomy, physiology and pathology of the ear
2. The microbiology of ear infections
3. Complications of acute otitis media.

**Clinical Skills**
...
4 History taking, clinical examination
3 Understand principles of patient management

**Technical Skills**
3 Perform myringotomy and microsuction

**Professional Skills**
Professional skills are to be assessed as satisfactory or needs development.
Demonstrate communication skills and empathy
Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent

---

**Otosclerosis**

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common ORL conditions. This module gives some indication of the breadth and depth of required knowledge, clinical and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
2 Anatomy, physiology and pathology of the ear
2 The aetiology, genetics and pathophysiology of otosclerosis

**Clinical Skills**
4 History taking, clinical examination
2 Interpret audio vestibular tests
2 Understand principles of patient management

**Technical Skills**
No content

**Professional Skills**
Professional skills are to be assessed as satisfactory or needs development.
Demonstrate communication skills and empathy
Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications

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**Disorders of the external ear including otitis externa**

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common ORL conditions. This module gives some indication of the breadth and depth of required knowledge, clinical and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
4 Anatomy, physiology and pathology of the ear
4 Microbiology of otitis externa.
3 The pathogenesis of disorders of the external ear
3 Necrotising otitis externa

**Clinical Skills**
4 History taking, clinical examination
2 Interpret audio vestibular tests
3 Understand principles of patient management
3 Aural microsuction and insertion of dressings

**Technical Skills**
3 Aural microsuction and insertion of dressings

**Professional Skills**
Professional skills are to be assessed as satisfactory or needs development.
Demonstrate communication skills and empathy
Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent

---

**Disorders of equilibrium including Meniere's disorder**

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common ORL conditions. This module gives some indication of the breadth and depth of required knowledge, clinical and surgical skills. The list should not be considered to be fully inclusive
Knowledge
4 Anatomy, neuro-anatomy and physiology of the vestibular system, locomotor, CVS and cardiovascular systems and vision.
4 Pathology and pathogenesis of diseases of the ear.
3 The pathology and various hypotheses relating to the aetiology of Menieres Disease.
2 Neuroradiological imaging of the inner ear and central vestibular pathways
3 The relevant clinical neurological, vascular, radiological, biochemical, immunological and serological investigations.
2 The relationship of vestibular disorders to legislation relating to employment and driving.
2 The principles of vestibular rehabilitation.

Clinical Skills
4 History taking and examination
2 Vestibular assessment, including electro physiological testing, and clinical examination
2 Interpret audio vestibular tests
2 Interpret neurophysiological tests
2 Principles of patient management

Technical Skills
No content

Professional Skills
Professional skills are to be assessed as satisfactory or needs development.

Demonstrate communication skills and empathy

Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent

Disequilibrium of ageing.

Objective
To understand the aetiology, presenting signs, symptoms and management of common ORL conditions. This module gives some indication of the breadth and depth of required knowledge, clinical and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

Knowledge
4 Clinical anatomy, neuro-anatomy and physiology of the vestibular system, locomotor, CVS and cardiovascular systems and vision
4 Pathology and pathogenesis of diseases of the ear
3 The relevant clinical neurological, vascular, radiological, biological, immunological and serological investigations
2 The relationship of vestibular disorders to legislation relating to employment and driving
2 The principles of vestibular rehabilitation
2 The handicaps related to age related sensory and proprioceptive degeneration

Clinical Skills
4 History taking and examination
2 Vestibular assessment, including electro physiological testing, and clinical examination
2 Interpret audio vestibular tests
2 Interpret neurophysiological tests
2 principles of patient management

Technical Skills
No content

Professional Skills
Professional skills are to be assessed as satisfactory or needs development.
Demonstrate communication skills and empathy
Be able to advise the patient of the treatment options, discuss risks and potential benefits

<table>
<thead>
<tr>
<th>Neurological and Vascular causes of vertigo</th>
</tr>
</thead>
<tbody>
<tr>
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<td>2 The relationship of vestibular disorders to legislation relating to employment and driving</td>
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<tr>
<td>2 The principles of vestibular rehabilitation</td>
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<tr>
<td><strong>Clinical Skills</strong></td>
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<tr>
<td>4 History taking and examination</td>
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<td>2 Vestibular assessment, including electro physiological testing, and clinical examination</td>
</tr>
<tr>
<td>2 Elicit clinical history and clinical signs</td>
</tr>
<tr>
<td>2 Interpret audio vestibular tests</td>
</tr>
<tr>
<td>2 Interpret neurophysiological tests</td>
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<tr>
<td>2 Principles of patient management</td>
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<tr>
<td><strong>Technical Skills</strong></td>
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<tr>
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</table>

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<thead>
<tr>
<th>Professional Skills</th>
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<tbody>
<tr>
<td>Professional skills are to be assessed as satisfactory or needs development.</td>
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</tbody>
</table>

Demonstrate communication skills and empathy
Be able to advise the patient of the treatment options, discuss risks and potential benefits

<table>
<thead>
<tr>
<th>Vestibular Schwannoma</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Objective</strong></td>
</tr>
<tr>
<td><em>To understand the aetiology, presenting signs, symptoms and management of common ORL conditions. This module gives some indication of the breadth and depth of required knowledge, clinical and surgical skills. The list should not be considered to be fully inclusive or exhaustive.</em></td>
</tr>
<tr>
<td><strong>Knowledge</strong></td>
</tr>
<tr>
<td>4 Anatomy, neuro-anatomy and physiology of the vestibular system, locomotor, CVS and cardiovascular systems and vision</td>
</tr>
<tr>
<td>4 Pathology and pathogenesis of diseases of the ear</td>
</tr>
<tr>
<td>2 The relevant clinical neurological, vascular, radiological, biological, immunological and serological investigations</td>
</tr>
<tr>
<td>2 The relationship of vestibular disorders to legislation relating to employment and driving</td>
</tr>
<tr>
<td>2 The principles of vestibular rehabilitation</td>
</tr>
<tr>
<td>2 Neuroradiological imaging of the inner ear and central vestibular pathways</td>
</tr>
<tr>
<td>2 The genetics of vestibular schwannomas and genetic counselling</td>
</tr>
<tr>
<td>2 The surgical and non-surgical management options</td>
</tr>
<tr>
<td>1 The surgical approaches to the CP angle</td>
</tr>
<tr>
<td><strong>Clinical Skills</strong></td>
</tr>
<tr>
<td>4 History taking and examination</td>
</tr>
<tr>
<td>2 Vestibular assessment, including electro physiological testing, and clinical examination</td>
</tr>
<tr>
<td>2 Interpret audio vestibular tests</td>
</tr>
<tr>
<td>2 Interpret neurophysiological tests</td>
</tr>
<tr>
<td>2 Principles of patient management</td>
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<tr>
<td><strong>Technical Skills</strong></td>
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<tr>
<td>No content</td>
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</table>

<table>
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<th>Professional Skills</th>
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<tbody>
<tr>
<td>Professional skills are to be assessed as satisfactory or needs development.</td>
</tr>
</tbody>
</table>
Benign Paroxysmal Positional Vertigo

Objective
To understand the aetiology, presenting signs, symptoms and management of common ORL conditions. This module gives some indication of the breadth and depth of required knowledge, clinical and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

Knowledge
- Anatomy, neuro-anatomy and physiology of the vestibular system, locomotor, CVS and cardiovascular systems and vision
- Pathology and pathogenesis of diseases of the ear
- The relevant clinical neurological, vascular, radiological, biological, immunological and serological investigations
- The relationship of vestibular disorders to legislation relating to employment and driving
- The principles of vestibular rehabilitation; particle repositioning manoeuvres
- Treatment options both non-surgical and surgical
- The pathology and various hypotheses relating to the aetiology of BPPV

Clinical Skills
- History taking and examination
- Vestibular assessment, including electro physiological testing, and clinical examination
- Interpret audio vestibular tests
- Interpret neurophysiological tests
- Principles of patient management

Technical Skills
- Perform particle repositioning manoeuvres

Professional Skills
Professional skills are to be assessed as satisfactory or needs development.

Demonstrate communication skills and empathy
Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent
2. Principles of patient management

**Technical Skills**
No content

**Professional Skills**
Professional skills are to be assessed as satisfactory or needs development.

Demonstrate communication skills and empathy

Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent
Rhinology

Basic sciences
Objective
To understand the aetiology, presenting signs, symptoms and management of common rhinological conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

Knowledge
3 The anatomy and physiology of the nose and paranasal sciences.
2 The immunology of the nose and paranasal sciences.
3 Shock (level 3)

Clinical Skills
2 The application of basic sciences to the clinical scenario including imaging (level 2); and
3 resuscitation skills

Technical Skills
No content

Professional Skills
Understanding of basic sciences relating to clinical practice

Congenital abnormalities
Objective
To understand the aetiology, presenting signs, symptoms and management of common rhinological conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

Knowledge
2 Aetiology, embryology and clinical picture of congenital deformities of the nose and paranasal sinuses.
2 An understanding of associations with other syndromes.

Clinical Skills
2 Assessment of the nose and paranasal sinuses
2 General assessment
1 Management
1 Surgical skills

Technical Skills
No content

Professional Skills
Communication skills, empathy, an understanding of team working and issues relating to paediatric practice
Ability to understand issues relating to patients with multiple handicaps.

Nose and sinus infections
Objective
To understand the aetiology, presenting signs, symptoms and management of common rhinological conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

Knowledge
2 Aetiology and clinical picture
2 Microbiology
2 Complications of acute rhinosinusitis

Clinical Skills
2 Diagnosis, assessment and management.
1 Imaging
2 Speculum and endoscopic examination
3 Antral washout,
2 antrostomy (inferior meatal); and
Nose and sinus inflammation excluding infection

Objective
To understand the aetiology, presenting signs, symptoms and management of common rhinological conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

Knowledge
2 Classification
2 Hypotheses
2 Medical and surgical management
2 Complications

Clinical Skills
2 Diagnosis, assessment and management, including skin prick testing (4)
2 Imaging
2 Turbinate surgery
1 Other nose and sinus surgery
1 Endoscopic surgery

Technical Skills
No content

Professional Skills
Advise the patient of the treatment options and risks.

Nasal polyps

Objective
To understand the aetiology, presenting signs, symptoms and management of common rhinological conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

Knowledge
2 Classification
2 Hypotheses
2 Medical and surgical management
2 Complications

Clinical Skills
2 Diagnosis, assessment and management.
2 Imaging
3 Simple nasal polypectomy
1 Other nose and sinus surgery
1 Endoscopic surgery

Technical Skills
No content

Professional Skills
Advise the patient of the treatment options and risks.

Facial pain

Objective
To understand the aetiology, presenting signs, symptoms and management of common rhinological conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

Knowledge
2 Classification
Foreign bodies

**Objective**

To understand the aetiology, presenting signs, symptoms and management of common rhinological conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**

3 Classification
3 Hypotheses
3 Medical and surgical management
3 Complications

**Clinical Skills**

3 Diagnosis, assessment and management.
2 Imaging
3 Surgery

**Technical Skills**

No content

**Professional Skills**

Advise the patient of the treatment options and risks.

Epistaxis

**Objective**

To understand the aetiology, presenting signs, symptoms and management of common rhinological conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**

3 Classification
3 Hypotheses
3 Medical and surgical management
3 Complications

**Clinical Skills**

3 Diagnosis, assessment and management.
2 Imaging
3 Competence in nasal cautery and packing procedures
1 Endoscopic surgery

**Technical Skills**

No content

**Professional Skills**

Advise the patient of the treatment options and risks.

Nasal trauma and deformity

**Objective**

To understand the aetiology, presenting signs, symptoms and management of common rhinological conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.
### Nasal and paranasal sinus tumours.

<table>
<thead>
<tr>
<th>Objective</th>
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<tbody>
<tr>
<td><strong>Knowledge</strong></td>
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<tr>
<td>No content</td>
</tr>
<tr>
<td><strong>Clinical Skills</strong></td>
</tr>
<tr>
<td>2 Diagnosis, assessment and management.</td>
</tr>
<tr>
<td>2 Imaging</td>
</tr>
<tr>
<td><strong>Technical Skills</strong></td>
</tr>
<tr>
<td>No content</td>
</tr>
<tr>
<td><strong>Professional Skills</strong></td>
</tr>
<tr>
<td>Advise the patient of the treatment options and risks.</td>
</tr>
<tr>
<td>Ability to ‘break bad news’.</td>
</tr>
</tbody>
</table>
Basic Sciences

**Anatomy**

**Objective**
To understand the basic anatomy that surgeons will encounter during the management of both adult and child patients with diseases of the ears, nose and throat, and the embryological development of anatomical systems

**Knowledge**
4 Otological;
   i. Anatomy of the outer middle and inner ear
   ii. Anatomy of the Brainstem and central auditory pathways
   iii. Anatomy of the central vestibular pathways
4 Embryogenesis of the inner and its central connections
4 Common anatomical variations of the inner ear
4 Surgical anatomy of the ear

4 Respiratory tract and Rhinological;
   i. Anatomy of the Upper respiratory tract including the nose and paranasal sinuses and nasopharynx
   ii. Anatomy of the olfactory system and its central connections
   iii. Anatomy of the lower respiratory tract
4 Embryogenesis of respiratory tract including nose, paranasal sinuses, nasopharynx, trachea and bronchial tree.
4 Common anatomical variations of respiratory tree and lungs to include vascular anomalies
4 Surgical anatomy of trachea and bronchial tree
4 Surgical anatomy of the nose and paranasal sinuses

Oral Cavity, oropharynx, pharynx, larynx and oesophagus;
4 Embryogenesis of the oropharynx, pharynx, larynx and oesophagus
4 Common anatomical variations of the oropharynx, pharynx, larynx and oesophagus
4 Surgical anatomy of the oropharynx, pharynx, larynx and oesophagus and their important relations.

Head and neck;
4 Embryogenesis of the structures of the head and neck including relevant neuro-anatomy
4 Common variations in the anatomy of the structures of the head and neck including relevant neuro-anatomy
4 Surgical anatomy of structures of the head and neck including relevant neuro-anatomy to include relationships to other systems.

**Clinical Skills**
Application of basic sciences knowledge to relevant clinical conditions

**Technical Skills**
No content

**Professional Skills**
Surgeon as Medical Expert and Scholar

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**Physiology**

**Objective**
To understand the normal physiological processes at different ages. To understand the effects of disease and trauma on these processes

**Knowledge**
Fluid Balance;
4 Basic requirements of fluid and electrolytes at different ages
4 Mechanisms of homeostasis
4 Influence of disease states
   - renal
   - cardiac
   - gastrointestinal
Acid-Base balance;
4 Mechanisms of homeostasis
4 Abnormalities encountered in disease

Oxygen Transport;
4 Airway function in health and disease
4 Alveolar function and gas exchange
  - Effect of disease
    * R.D.S
    * Infection
    * Barotrauma
    * Prematurity

Upper aerodigestive tract;
4 Motility of pharynx and oesophagus
4 Palatal function
4 Lymphoid tissue in the head and neck
4 Salivary function
4 Laryngeal function
4 Effect of disease on normal function

The outer, middle and inner ear;
4 Sound conduction and transduction
4 The function of the cochlear nerve and its central connections; electrophysiology of hearing
4 The peripheral and central vestibular system
4 Methods of testing the vestibular system

The nose and olfactory system;
4 Nasal airflow, mucocilliary function, olfaction including their measurement
4 The role of the paranasal sinuses

Autonomic Nervous System;
4 Differing effects of sympathetic and parasympathetic innervation
4 Effects on differing physiological processes.

Growth and Metabolism;
4 Nutritional requirements at different ages
4 Endocrine factors influencing growth
  - thyroid
  - pituitary
  - pancreatic
  - adrenal
  - gonadal
4 Effect of disease states including:
  - Chronic disease
  - trauma
  - response to operation
4 Influence and use of parenteral and enteral feeding

**Clinical Skills**
Application of basic sciences knowledge to relevant clinical conditions
Surgeon as Medical Expert and Scholar

**Technical Skills**
No content

**Professional Skills**
Surgeon as Medical Expert and Scholar

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**Audiology and the physics of Sound**

**Objective**
*To understand the principles of sound and its measurement; to understand the principles*
**Audiology**

**Knowledge**
- Physics of sound including its measurement
- Basic principles of audiometric testing in adults and children
- Electrophysiological tests of hearing

**Clinical Skills**
- Application of basic sciences knowledge to relevant clinical conditions

**Technical Skills**
- No content

**Professional Skills**
- Surgeon as Medical Expert and Scholar

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**Surgical Pathology and Genetics**

**Objective**
To understand pathological processes as they present in the common disorders of the ears, nose and throat

**Knowledge**
- Inflammatory processes;
  - Processes of acute inflammatory response as it affects different organ systems including
    - Upper and lower Aerodigestive tract
    - The outer, middle and inner ear and central connections
  - Processes of chronic inflammatory response
  - Processes of wound healing
- Principles of Human Genetics;
  - Role of genetics in normal development
  - Relevance of genetics to clinical conditions
- Oncology;
  - Basic mechanisms of tumour initiation and growth
  - Role of environmental factors
  - Role of genetic factors
  - Basic knowledge of staging of different tumours and relation to treatment strategies and outcome
  - Mechanism of action of chemo and radiotherapy
- Infective processes;
  - Commonly encountered infective agents
  - Diagnostic procedures
  - Role and mechanism of antibiotics and antiviral agents
  - Value of preventative measures
- Harmartomatous Lesions;
  - Basic pathology of lesions related to growth
  - Prognosis of differing lesions
  - Differential diagnosis and treatment modalities if required

**Clinical Skills**
Application of basic sciences knowledge to relevant clinical conditions

**Technical Skills**
- No content

**Professional Skills**
- Surgeon as Medical Expert and Scholar
# Diseases of the Oesophagus

## Benign Oesophageal and Related Disorders in Childhood

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## Oesophageal Neoplasia

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4. Final Stage

Four point scales

What the 4 point scale means for Knowledge

1. Knows of
2. Knows basic concepts
3. Knows generally
4. Knows both specifically and broadly

What the 4 point scales means for Clinical Skills and Technical Skills and Procedures

1. Has observed
2. Can do with assistance
3. Can do whole but may need assistance
4. Competent to do whole without assistance, including managing complications
4.1 Overview

Overview of Final Stage

By the end of the final stage trainees, including those who are following an academic pathway, will be competent in all aspects of the operative and non-operative management of patients presenting with the following key conditions (Level 4).

- Adult Airway Obstruction
- Neck Masses
- Adult Dysphonia
- Disorders of Swallowing
- Sleep Apnoea
- Tonsillitis
- Voice Disorders
- Airway Disorders
- Sore Throat Cutaneous
- Lesions of the Head and Neck
- Tinnitus
- Hearing Loss
- Ear Discharge
- Otalgia

By the end of the final stage trainees, including those who are following an academic pathway, will be competent in all aspects of the following procedures (Level 4):

- excision of neck, thyroglossal and branchial cleft cysts and fistulae
- drain superficial and deep neck space infections
- examination of the neck and upper aerodigestive tract in the clinic and in theatre
- out patient and in patient endoscopy
- fine needle cytology
- excision of cervical lymph nodes
- submandibular gland excision
- endoscopic assessment of head and neck cancer
- endoscopic assessment of the airway, intubation, tracheostomy, and foreign body removal
- examination of the pharynx and oesophagus with endoscopes in outpatients and under a general anaesthetic
- removing foreign bodies from the pharynx and oesophagus
- drainage of peritonsillar abscess.
- tonsillectomy and adenoidectomy.
- examination of the neck and upper aerodigestive tract with endoscopes in the outpatient department.
- surgical ventilation of the ears; adenoidectomy
- surgical ventilation of the ears
- stapedectomy
- drain auricular haematomas
- myringoplasty.
- microscope assessment of the ear/ microsuction
- cortical mastoidectomy
- open cavity surgery
- aural microsuction and insertion of dressings.

A small number of trainees will, following competitive selection, pursue special interests in areas such as cleft lip and palate surgery and head and neck surgery.
4.2 Conditions

Paediatric

Neck masses in infants and children.

Objective
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

Knowledge
4 The embryology and anatomy of the neck with particular reference to the thyroid gland and branchial arch structures.
4 Understanding of the classification of neck masses.
4 Awareness of the various hypotheses relating to the aetiology of neck masses.
4 Understand the principles of the medical and surgical management of neck masses and their complications.

Clinical Skills
4 Elicit clinical history and signs. Able to deduce a differential diagnosis and formulate strategy to reach final diagnosis.
3 Recognise rarer causes of neck masses such as first arch abnormalities, tumours e.g. lymphomas, granulomatous conditions and lymphangiomas.

Technical Skills
4 Able to examine the oral cavity, oropharynx and neck.
4 Be able to perform competently excision of thyroglossal and branchial cleft cysts.

Professional Skills
4 Be able to advise the patient and parents of the treatment options.
4 Discuss risks and potential benefits, potential complications and obtain informed consent.
4 Be aware of specific issues that relate to the management of children in hospital.

Airway disorders in childhood.

Objective
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

Knowledge
Understand the anatomy of the upper aerodigestive tract particularly relevant to children.
Be able to classify airway disorders as congenital or acquired.
Knowledge of the disorders that affect the airway in childhood including laryngomalacia, laryngo-tracheobronchitis, papillomatosis, asthma, foreign bodies, stenosis, fistulae and various infections (viral, bacterial)
Understand the medical and surgical management of the above conditions.
4 Understand the nature and presenting features of obstructive sleep apnoea in infancy and childhood

Clinical Skills
4 Elicit clinical history and clinical signs.
4 Establish a differential and working diagnosis
4 Order appropriate tests

Technical Skills
3 Endoscopic assessment of the airway,
4 intubation
2 Endoscopic laser surgery,
4 Paediatric tracheostomy
3 Foreign body removal
3 Surgery for choanal atresia.

Professional Skills
Be able to advise the patient and parents of the treatment options, discuss risks and
potential benefits, potential complications and obtain informed consent.
Be able to work as a team with professional colleagues, in particular anaesthetists, in a shared airway.
Be aware of issues that relate to children in hospital.

### Congenital deformities of the ear and temporal bone

**Objective**

To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**

- Anatomy, physiology and pathology of the ear and auditory pathways.
- Embryology of the ear.
- The aetiology and presenting symptoms of congenital deformities of ear and temporal bone.
- Issues relating to patients with multiple handicaps.
- Radiological investigation.
- Rehabilitation including bone conductor and bone anchored hearing aids; bone anchored prostheses.

**Clinical Skills**

- History taking and examination.
- Appropriate referral to other agencies/ for other opinion including genetics, general paediatric/ developmental paediatric, specialist services for the deaf including educational services.
- Principles of patient management.

**Technical Skills**

No content

**Professional Skills**

Demonstrate communication skills and empathy including teamwork and issues relating to paediatric practice
Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent

### Deafness in Childhood

**Objective**

To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**

- Anatomy, physiology and pathology of the ear and auditory pathways.
- The pathogenesis of disorders of the ear and hearing
- Embryology of the ear
- Understanding the classification of hearing loss into congenital conductive and sensorineural.
- Principles and practice of screening including neonatal screening.
- Audiological testing in children including distraction testing, visual reinforcement audiometry, play audiometry, Toy testing, sound-field testing and electrophysiological tests of hearing.
- Aetiological investigation including genetics testing.
- Radiology of the ear and central auditory pathways.
- Understanding the consequences of hearing loss on development and the principles of education of the handicapped
- Relevance of speech and language delay and developmental delay.
- Otitis media with effusion.
Non-organic hearing loss.
Ototoxicity.
Central auditory processing disorders, auditory neuropathy, obscure auditory dysfunction.
Understand the principles of aiding, BAHA, and cochlear implantation.
Knowledge of National guidelines in relation to OME and Cochlea implantation.
Role of other agencies including clinical genetics, general paediatrics/developmental paediatrics, specialist services for the deaf including educational services.
Relevance of oral/aural and visual communication strategies; total communication.
Hearing aids and other assistive devices.
The Deaf community.
Knowledge of surgical options including myringotomy and insertion of ventilation tubes, tympanoplasty, cochlear implantation and bone anchored hearing aids.

**Clinical Skills**
- Elicit clinical history and clinical signs from child, parent or other appropriate carer.
- Perform relevant simple audiological tests (PTA and Impedance) to include distinction between conductive and sensorineural hearing loss.
- Appropriate referral to other agencies for other opinion including genetics, general paediatric/developmental paediatric, specialist services for the deaf including educational services.
- Principles of patient management.
- Able to deduce a differential diagnosis and formulate strategy to reach final diagnosis.

**Technical Skills**
Surgical management to include:

- Surgical ventilation of the ears
- Tympanomastoid surgery
- BAHA
- Cochlear implantation
- Adenoidectomy
- Myringoplasty

**Professional Skills**
Demonstrate communication skills and empathy.
Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

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**Cochlear implantation in children; other implantable hearing devices including bone anchored hearing aids and middle ear implants**

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
Anatomy, physiology and pathology of the ear and auditory pathways. The pathogenesis of disorders of the ear and hearing.

- Embryology of the ear

Types of implants, indications and contraindications including risks and complications.

- Surgical approaches to the inner ear
- Speech processing strategies
- Role of extended teamworking.

- Principles of osseointegration

**Clinical Skills**
- History taking, clinical examination
Facial Paralysis

Objective
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

Knowledge
The anatomy and physiology of facial nerve.
The causes, and types of facial paralysis.
4 The relevant clinical neurological, vascular, radiological, biochemical, serological and electrophysiological investigations
4 Principles of rehabilitation for facial paralysis
4 Understand the psychological effects of facial disfigurement

Clinical Skills
4 History taking, clinical examination
3 significance of radiological findings
4 Interpret neurophysiological tests.
3 Principles of patient management

Technical Skills
No content

Professional Skills
Demonstrate communication skills and empathy.
Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

Tinnitus

Objective
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

Knowledge
4 Anatomy, physiology and pathology of the ear and auditory pathways. The pathogenesis of disorders of the ear and hearing.
4 Principles and practice of audiology including pure tone audiometry, speech audiometry and electrophysiological tests and other objective tests of hearing including oto-acoustic emissions.
Psychoacoustical tests, pitch and loudness match, minimum masking level, residual inhibition.
The various hypotheses relating to the aetiology of tinnitus.
The psychological effects of tinnitus.
4 Principles of tinnitus retraining and rehabilitation and the principles of support and counselling (4).

Clinical Skills
4 History taking, clinical examination,
3 significance of radiological findings.
3 Interpret neurophysiological tests
3 Principles of patient management.

Technical Skills
### Ear trauma

**Objective**
*To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.*

**Knowledge**
- Anatomy, physiology and pathology of the ear and auditory pathways.
- The effects of trauma on the pinna, ear canal, tympanic membrane, middle ear and temporal bone.
- The effects and assessment of poly-trauma and neurological injury.
- The effects of barotrauma on the middle and inner ear.
- The surgical and non-surgical management of trauma of the external, middle and inner ear.

**Clinical Skills**
- History taking, clinical examination,
- Significance of radiological findings.
- Interpret audiovestibular tests.
- Principles of patient management.

**Technical Skills**
- Drain auricular haematomas.
- Myringoplasty
- Ossiculoplasty

**Professional Skills**
*Demonstrate communication skills and empathy. Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.*

### Chronic suppurative otitis media including its intracranial complications.

**Objective**
*To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.*

**Knowledge**
- Anatomy, physiology and pathology of the ear.
- Embryology of the ear.
- Principles and practice of audiology including pure tone audiometry.
- The aetiology and pathogenesis of cholesteatoma and of other types of chronic middle ear disease.
- The intracranial complications of ear disease.
- The importance of teamwork in managing critically ill patients.
- Principles of auditory rehabilitation.

**Clinical Skills**
- History taking, clinical examination,
- Significance of radiological findings.
- Interpret relevant neuro-radiological investigations.
- Interpret audiological tests.
- Understand principles of patient management.

**Technical Skills**
- Microscope assessment of the ear.
4 Aural polypectomy
4 Cortical mastoidectomy
3 open cavity surgery
4 myringoplasty

**Professional Skills**
Demonstrate communication skills and empathy.
Be able to break bad news.
Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

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**Acute otitis media**

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
Anatomy, physiology and pathology of the ear.
The microbiology of ear infections.
4 Complications of acute otitis media.

**Clinical Skills**
4 History taking, clinical examination.
4 Understand principles of patient management.

**Technical Skills**
4 Perform microsuction and myringotomy.

**Professional Skills**
Demonstrate communication skills and empathy.
Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

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**Disorders of the external ear including otitis externa.**

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
Anatomy, physiology and pathology of the ear.
Microbiology of otitis externa.
The pathogenesis of disorders of the external ear.
4 Necrotising otitis externa.

**Clinical Skills**
4 History taking, clinical examination.
4 Interpret audio vestibular tests.
3 Understand principles of patient management.

**Technical Skills**
4 Aural microsuction and insertion of dressings.

**Professional Skills**
Demonstrate communication skills and empathy.
Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

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**Foreign bodies in the ear canal.**

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.
**Knowledge**
Anatomy, physiology and pathology of the ear.
Microbiology of otitis externa.
The pathogenesis of disorders of the external ear.
4 Necrotising otitis externa.

**Clinical Skills**
4 History taking, clinical examination.
4 Interpret audio vestibular tests.
3 Understand principles of patient management.

**Technical Skills**
4 Aural microsuction and insertion of dressings.

**Professional Skills**
Demonstrate communication skills and empathy.
Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

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**Cystic hygroma and other lympho-vascular anomalies**

**Objective**
No content

**Knowledge**
Embryogenesis of the structures of the head and neck.

Anatomy of the common congenital and developmental cervical anomalies.

Presenting symptoms of the common congenital and developmental cervical anomalies.

Investigations of the common congenital and developmental cervical anomalies.

Management of the patient with common congenital and developmental cervical anomalies.

Surgical management of the paediatric patient.

Assessment methods and management of the paediatric airway.

Counselling and support for the parents of, and patients with common congenital and developmental cervical anomalies.

**Clinical Skills**
Surgical excision of cystic hygroma and other lympho-vascular anomalies.

**Technical Skills**
No content

**Professional Skills**
No content

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**Congenital abnormalities**

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
4 Aetiology, embryology and clinical picture of congenital deformities of the nose and paranasal sinuses.
4 An understanding of associations with other syndromes.

**Clinical Skills**
4 Assessment of the nose and paranasal sinuses
4 General assessment
3 Management
2 Surgical skills

**Technical Skills**
No content

**Professional Skills**
Communication skills, empathy, an understanding of team working and issues relating to paediatric practice.
Ability to understand issues relating to patients with multiple handicaps.

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### Nose and sinus infections

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- Aetiology and clinical picture
- Microbiology
- Complications of acute rhinosinusitis

**Clinical Skills**
- Diagnosis, assessment and management.
- Imaging

**Technical Skills**
- Speculum and endoscopic examination
- Antral washout, antrostomy (inferior meatal) and others

**Professional Skills**
Communication skills, empathy, an understanding of team working and issues relating to practice.

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### Nose and sinus inflammation excluding infection

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- Classification
- Hypotheses
- Medical and surgical management
- Complications

**Clinical Skills**
- Diagnosis, assessment and management.
- Including skin prick testing
- Imaging

**Technical Skills**
- Turbinate surgery
- Other nose and sinus surgery
- Endoscopic surgery

**Professional Skills**
Advise the patient of the treatment options and risks.

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### Nasal polyps

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully
**Foreign bodies**

**Objective**

To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**

- Classification
- Hypotheses
- Medical and surgical management
- Complications

**Clinical Skills**

- Diagnosis, assessment and management.
- Imaging
- Other nose and sinus surgery
- Other endoscopic surgery

**Technical Skills**

- Simple nasal polypectomy, including endoscopically

**Professional Skills**

Advise the patient of the treatment options and risks.

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**Epistaxis**

**Objective**

To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**

- Classification
- Hypotheses
- Medical and surgical management
- Complications

**Clinical Skills**

- Diagnosis, assessment and management.
- Imaging
- Surgery

**Technical Skills**

- No content

**Professional Skills**

Advise the patient of the treatment options and risks.
### Nasal trauma and deformity

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- Classification
- Hypotheses
- Medical and surgical management
- Complications

**Clinical Skills**
- Diagnosis, assessment and management.
- Imaging

**Technical Skills**
- Reduction of nasal fractures
- Septal surgery
- (Septo)Rhinoplasty

**Professional Skills**
Advise the patient of the treatment options and risks.

### Nasal and paranasal sinus tumours.

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- Classification
- Hypotheses
- Medical and surgical management
- Complications

**Clinical Skills**
- Diagnosis, assessment and management.
- Imaging

**Technical Skills**
- No content

**Professional Skills**
Advise the patient of the treatment options and risks.
的能力 to ‘break bad news’.

### Adenoidal and tonsillar pathology.

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- Presenting signs and symptoms.
- Complications of acute tonsillitis.
- Secondary effects of pharyngeal lymphoid hyperplasia.

**Clinical Skills**
- Elicit clinical history and clinical signs.
- Diagnosis, assessment and management.

**Technical Skills**
- Drainage of peritonsillar abscess.
- Competence in tonsillectomy and adenoidectomy.
4 Competence in the management of postoperative bleeding following tonsil and adenoid surgery

**Professional Skills**
Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.
### Head and Neck

#### Congenital deformities of the larynx

**Objective**

To understand the aetiology, presenting signs, symptoms and management of common head and neck conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**

An understanding of the anatomy, physiology, and pathology of the upper airways.

The aetiology, embryology and presenting symptoms of congenital deformities of the larynx.

Issues relating to patients with multiple handicaps.

Radiological investigations.

4 Surgical management of congenital laryngeal abnormalities.

**Clinical Skills**

4 History taking, mirror and endoscopic examination of the larynx and pharynx.

4 Referral to other professionals for opinion and combined management.

**Technical Skills**

No content

**Professional Skills**

Demonstrate Communication skills, empathy, including teamworking and issues relating to paediatric practice.

Ability to understand issues relating to patients with multiple handicaps.

Be able to advise the parents/patient or carers of the treatment options.

Discuss risks, benefits, potential complications and obtain informed consent.

#### Pharyngeal and oesophageal disorders.

**Objective**

To understand the aetiology, presenting signs, symptoms and management of common head and neck conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**

Understand the anatomy of the pharynx, and physiology of swallowing.

Understand the various hypotheses relating to the aetiology of dysphagia.

Understand principles of patient management.

4 Understand the medical and surgical management of dysphagia.

**Clinical Skills**

Elicit clinical history and clinical signs.

**Technical Skills**

4 Be able to examine the pharynx and oesophagus with endoscopes in outpatients and under a general anaesthetic.

4 Competence in removing foreign bodies from the pharynx and oesophagus.

2 Be able to perform competently endoscopic and open pharyngeal pouch surgery.
### Professional Skills
Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

### Airway disorders.

#### Objective
To understand the aetiology, presenting signs, symptoms and management of common head and neck conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

#### Knowledge
- Understand the anatomy, physiology and pathology of the upper aerodigestive tract
- Understand principles of patient management.
- Understand the medical and surgical management of airway disorders
- Understand the microbiology and pathology of disorders of the upper aerodigestive tract.
- Understand the innervation of the larynx.

#### Clinical Skills
- Elicit clinical history and clinical signs.
- Be able to work with anaesthetists in the 'shared airway'.
- Assessment of patients with critical airways.

#### Technical Skills
- Endoscopic assessment of the airway, intubation, tracheostomy, and foreign body removal
- Endoscopic laser surgery

### Professional Skills
Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

### Voice disorders.

#### Objective
To understand the aetiology, presenting signs, symptoms and management of common head and neck conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

#### Knowledge
- Understand the anatomy and physiology of the larynx
- Understand the classification of dysphonias.
- Understand the various hypotheses relating to the aetiology of dysphonias.
- Understand principles of patient management.
- Understand the medical and surgical management of dysphonias.

#### Clinical Skills
- Elicit clinical history and clinical signs
- Communication skills with other professionals

#### Technical Skills
- Be able to examine the larynx with endoscopes
- Be able to perform competently endoscopic laryngeal surgery
- Medialisation procedures

### Professional Skills
Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

### Disorders of Swallowing

#### Objective
- Dysphagia
- Globus
- Neurological Swallowing Disorders
**Odynophagia**

**Knowledge**
- Understand the anatomy of the pharynx, and physiology of swallowing.
- Understand the neuophysiology of swallowing.
- Understand causes of odynophagia.
- Understand the various hypotheses relating to the aetiology of dysphagia.
- Understand imaging of swallowing disorders.
- Understand principles of patient management.
- Understand the medical and surgical management of dysphagia.

**Clinical Skills**
- Elicit clinical history and clinical signs.
- Be able to examine the pharynx and oesophagus with endoscopes in outpatients and under anaesthetic.
- Competence in removing foreign bodies from the pharynx and oesophagus.
- Be able to perform competently endoscopic and open pharyngeal pouch surgery.

**Technical Skills**
- No content

**Professional Skills**
- No content

---

**Sleep apnoea**

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common head and neck conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- Aetiology, presenting signs and symptoms in adults and children.
- Knowledge of consequences of sleep apnoea.
- Principles and practice of sleep assessment.

**Clinical Skills**
- Elicit clinical history and clinical signs.
- Diagnosis, assessment and management.

**Technical Skills**
- Able to perform UVPPP and LAUP.

**Professional Skills**
- Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

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**Adenoidal and tonsillar pathology.**

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common head and neck conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- Presenting signs and symptoms.
- Complications of acute tonsillitis.
- Secondary effects of pharyngeal lymphoid hyperplasia.

**Clinical Skills**
- Elicit clinical history and clinical signs.
- Diagnosis, assessment and management.

**Technical Skills**
- Drainage of peritonsillar abscess.
- Competence in tonsillectomy and adenoidectomy.
- Competence in the management of postoperative bleeding following tonsil and adenoid surgery.
**Professional Skills**

Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

---

### Congenital neck masses, cervical fistulae and other congenital remnants

**Objective**

To understand the aetiology, presenting signs, symptoms and management of common head and neck conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**

- Understand the anatomy of the neck.
- Understand the pathology, microbiology, embryology and classification of neck masses.
- Understand principles of patient management.
- Understand imaging of the neck.
- Understand the medical and surgical management of congenital neck masses, cervical fistulae and other congenital remnants. Understand the potential complications of surgery for congenital neck masses, cervical fistulae and other congenital remnants.

**Clinical Skills**

- Elicit clinical history and clinical signs.
- Be able to examine the neck.
- Be able to interpret imaging of the neck.

**Technical Skills**

- Be able to perform competently excision of neck, thyroglossal and branchial cleft cysts and fistulae.

---

### Branchial cleft cysts

**Objective**

No content

**Knowledge**

Embryogenesis of the structures of the head and neck.

- Anatomy of the common congenital and developmental cervical anomalies.
- Presenting symptoms of the common congenital and developmental cervical anomalies.
- Investigations of the common congenital and developmental cervical anomalies.
- Management of the patient with common congenital and developmental cervical anomalies.
- Surgical management of the paediatric patient.

**Clinical Skills**

Excision of branchial cleft cysts.

**Technical Skills**

No content

**Professional Skills**

No content

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### Thyroglossal cysts

**Objective**

No content

**Knowledge**
Embryogenesis of the thyroid and parathyroid glands.

Physiology of the thyroid and parathyroid glands

Anatomy of the common congenital and developmental thyroid anomalies.

Presenting symptoms of the common congenital and developmental cervical anomalies.

Investigations of the common congenital and developmental cervical anomalies.

Management of the patient with common congenital and developmental cervical anomalies.

Surgical management of the paediatric patient.

**Clinical Skills**

Excision of thyroglossal cysts and duct. (Sistrunks operation)

**Technical Skills**

No content

**Professional Skills**

No content

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**Acute inflammatory neck masses**

**Objective**

To understand the aetiology, presenting signs, symptoms and management of common head and neck conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**

Understand the anatomy of the neck.

Understand the pathology, microbiology, embryology and classification of acute inflammatory neck masses.

Understand principles of patient management.

Understand imaging of the neck.

4 Understand the medical and surgical management of acute inflammatory neck masses and the complications of neck space infections.

**Clinical Skills**

Elicit clinical history and clinical signs.

Be able to examine the neck.

**Technical Skills**

4 Be able to drain superficial and deep neck space infections.

**Professional Skills**

No content

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**Deep Neck Space Infections**

**Objective**

No content

**Knowledge**

No content

**Clinical Skills**

No content

**Technical Skills**

No content
Cervical lymphadenopathy.

Objective
To understand the aetiology, presenting signs, symptoms and management of common head and neck conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

Knowledge
4 Classification of the lymphatics of the neck
4 Aetiology, pathology, presenting signs and symptoms of cervical lymphadenopathy
4 The need for endoscopic assessment of a neck mass
4 Understand imaging of the neck
4 Understand the anatomy of the neck, and distribution of cervical lymph nodes.
4 Understand the pathology, microbiology, and classification of acute and chronic cervical lymphadenopathy.
4 Presentation, aetiology, investigations and pattern of metastatic spread of upper aerodigestive tract, salivary gland, cutaneous and thyroid malignancies.
4 Presentation, aetiology, investigations and principles of management of lymphoreticular disease as it applies to the head and neck.
4 Principles of patient management.
4 Understand the medical and surgical management cervical lymphadenopathy and the complications of cervical lymph node excision.

Clinical Skills
4 Elicit clinical history and clinical signs.
4 Be able to interpret imaging of the neck.

Technical Skills
4 Competence in fine needle cytology
4 Be competent at outpatient and inpatient endoscopy.
4 Be able to perform competently excision of cervical lymph nodes.
4 Be able to examine the mouth, nose, nasopharynx, pharynx, larynx and oesophagus with endoscopes as required in outpatients, and under a general anaesthetic.
4 Competence in lymph node excision

Professional Skills
Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

Salivary gland disease

Objective
To understand the aetiology, presenting signs, symptoms and management of common head and neck conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

Knowledge
Understand the anatomy, physiology and pathology of salivary gland disorders (Parotid, submandibular and minor salivary glands).

Understand the classification of salivary gland disease

Understand principles of patient management.

Understand imaging of salivary gland disorders.

4 Understand the medical and surgical management of salivary gland disease, and the complications of surgery

Clinical Skills
Elicit clinical history and clinical signs.
Be able to examine the neck and mouth

**Technical Skills**
4 Be able to perform competently submandibular gland excision
3 Be able to perform competently parotid gland surgery

**Professional Skills**
Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

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**Thyroid disease.**

**Objective**
*To understand the aetiology, presenting signs, symptoms and management of common head and neck conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.*

**Knowledge**
4 Understand the physiology, biochemistry and anatomy of the thyroid gland and neck.

4 Understand the classification of thyroid disease

4 Understand principles of patient management.

4 Understand the medical and surgical management of thyroid disease and the complications of thyroid surgery

**Clinical Skills**
Elicit clinical history and clinical signs.

Be able to examine the neck

**Technical Skills**
2 Be able to perform competently thyroid surgery

**Professional Skills**
Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

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**Head and Neck Cancer**

**Objective**
*To understand the aetiology, presenting signs, symptoms and management of common head and neck conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.*

**Knowledge**
0 Understand the classification of head and neck tumours.

0 Understand the presenting signs and symptoms of head and neck cancer.

0 Understand the various hypotheses relating to the aetiology of squamous cell cancer.

0 Understand the pattern of spread of malignant disease.

0 Understand principles of patient management.

0 Understand imaging of head and neck cancer.

0 Understand the functional consequences of head and neck disease, and its treatment.

0 Understand the medical and surgical management of head and neck cancer.

**Clinical Skills**
4 Elicit clinical history and clinical signs including being able to examine the neck and upper aerodigestive tract with endoscopes in the outpatient department.

0 Be able to work as a team member, and recognise the contributions made by other team members to patient management.

4 Communication skills with other professionals.

**Technical Skills**
4 Be able to perform competently endoscopic assessment of head and neck cancer.

2 Be able to perform competently neck dissection surgery, laryngectomy and voice prosthesis placement

**Professional Skills**
Be able to advise the patient of the treatment options, discuss risks and potential benefits,
potential complications and obtain informed consent.
Be able to break bad news, and to work as a member of a team.

<table>
<thead>
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<th>Deep neck space infections</th>
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<tbody>
<tr>
<td><strong>Objective</strong></td>
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<tr>
<td><strong>Knowledge</strong></td>
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<tr>
<td>Embryogenesis of the lymphoid tissue in the head and neck.</td>
</tr>
<tr>
<td>Anatomy of the lymphoid tissue in the head and neck.</td>
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<tr>
<td>Presenting symptoms of the common ENT infections.</td>
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<tr>
<td>Microbiology of the common ENT infections.</td>
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<tr>
<td>Antimicrobial investigations and therapy of the common ENT infections</td>
</tr>
<tr>
<td>Investigations of patients with deep neck space infection.</td>
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<tr>
<td>Management of the patient with deep neck space infection.</td>
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<tr>
<td>Knowledge of complications associated with deep neck space infections.</td>
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<tr>
<td>Surgical management of the patient with deep neck space infection.</td>
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<tr>
<td><strong>Clinical Skills</strong></td>
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<tr>
<td>Clinical assessment of the patient with deep neck space infection.</td>
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<tr>
<td>Endoscopic and mirror examination.</td>
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<tr>
<td>Incision and drainage of deep neck space infection.</td>
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<tr>
<td>Surgical management of complications associated with deep neck space infections.</td>
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<tr>
<td>Management of the critically ill patient.</td>
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<td><strong>Technical Skills</strong></td>
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<tr>
<td><strong>Knowledge</strong></td>
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<tr>
<td>Embryogenesis of the salivary glands.</td>
</tr>
<tr>
<td>Anatomy of the salivary glands.</td>
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<tr>
<td>Investigations of patients with salivary gland disorders.</td>
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<tr>
<td>Management of the patient a ranula.</td>
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<td><strong>Clinical Skills</strong></td>
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<tr>
<td>Surgical excision of a ranula.</td>
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<td><strong>Objective</strong></td>
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<td>Knowledge</td>
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<td>Clinical Skills</td>
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<td>Technical Skills</td>
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<td>Professional Skills</td>
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<th>Sialolithiasis</th>
<th>Objective</th>
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<tr>
<td>Knowledge</td>
<td>Embryogenesis of the salivary glands.</td>
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<tr>
<td></td>
<td>Anatomy of the salivary glands.</td>
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<tr>
<td></td>
<td>Presenting symptoms of salivary gland obstruction.</td>
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<tr>
<td></td>
<td>Microbiology of the common ENT infections.</td>
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<tr>
<td></td>
<td>Antimicrobial investigations and therapy of the common ENT infections</td>
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<tr>
<td></td>
<td>Investigations of patients with salivary gland obstruction.</td>
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<td></td>
<td>Management of the patient with salivary gland obstruction.</td>
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<td>Knowledge of complications associated with salivary gland obstruction.</td>
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<tr>
<td>Clinical Skills</td>
<td>Intra oral parotid stone excision.</td>
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<tr>
<td>Technical Skills</td>
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<td>Professional Skills</td>
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<thead>
<tr>
<th>Submandibular and parotid gland tumours</th>
<th>Objective</th>
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<td>No content</td>
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<tr>
<td>Knowledge</td>
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</tbody>
</table>
Embryogenesis of the salivary glands.
Anatomy of the salivary glands.
Knowledge of salivary gland pathology.
Knowledge of the pathogenesis of parotid gland tumours.
Presenting symptoms of parotid gland tumours.
Investigations of patients with parotid gland tumours.
Management of the patient with a parotid gland tumour.
Surgical management of the patient with parotid gland tumour.
Knowledge of complications associated with salivary gland excision.

**Clinical Skills**
Fine needle cytology.
Superficial parotidectomy.
Total conservative parotidectomy.
Selective and radical neck dissections
Facial nerve grafting.
Facial-hypoglossal anastamosis.

**Technical Skills**
No content

**Professional Skills**
No content
**Otology**

### Congenital deformities of the ear and temporal bone

**Objective**

To understand the aetiology, presenting signs, symptoms and management of common ORL conditions. This module gives some indication of the breadth and depth of required knowledge, clinical and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**

- Anatomy, physiology and pathology of the ear and auditory pathways.
- Embryology of the ear
- The aetiology and presenting symptoms of congenital deformities of ear and temporal bone.
- Issues relating to patients with multiple handicaps.
- Radiological investigation
- Rehabilitation including bone conductor and bone anchored hearing aids; bone anchored prostheses.
- Surgical correction of congenital abnormalities of the external and middle ear.

**Clinical Skills**

- History taking and examination
- Appropriate referral to other agencies/ for other opinion including genetics, general paediatric/ developmental paediatric, specialist services for the deaf including educational services.
- Principles of patient management

**Technical Skills**

- Surgical management:
  - Correction of bat ears
  - Ossiculoplasty
  - BAHA
  - Bone anchored prostheses
  - Cochlear implantation

**Professional Skills**

- Demonstrate communication skills and empathy, including teamworking and issues relating to paediatric practice.
- Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent

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### Deafness in childhood

**Objective**

To understand the aetiology, presenting signs, symptoms and management of common paediatric ORL conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**

- Anatomy, physiology and pathology of the ear and auditory pathways.
- The pathogenesis of disorders of the ear and hearing
- Embryology of the ear
- Understand the classification of hearing loss into congenital conductive and
sensorineural.
4 Principles and practice of screening including neonatal screening.
4 Audiological testing in children including distraction testing, visual reinforcement audiometry, play audiometry, Toy testing, sound-field testing and electrophysiological tests of hearing.
4 Aetiological investigation including genetics testing.
4 Radiology of the ear and central auditory pathways.
3 Understand the consequences of hearing loss on development and the principles of education of the handicapped
4 Relevance of speech and language delay and developmental delay.
4 Causes of sensorineural hearing loss in children.
4 Otitis media with effusion.
4 Non-organic hearing loss.
4 Ototoxicity.
4 Central auditory processing disorders, auditory neuropathy, obscure auditory disfunction
4 Understand the principles of aiding, BAHA, and cochlear implantation.
4 Knowledge of National guidelines in relation to OME and Cochlea implantation.
4 Role of other agencies including clinical genetics, general paediatrics/developmental paediatrics, specialist services for the deaf including educational services.
4 Relevance of oral/aural and visual communication strategies; total communication.
4 Hearing aids and other assistive devices.
4 The Deaf community.
4 Knowledge of surgical options including myringotomy and insertion of ventilation tubes, tympanoplasty, cochlear implantation and bone anchored hearing aids.

**Clinical Skills**
4 Elicit clinical history and clinical signs from child, parent or other appropriate carer.
4 Perform relevant simple audiological tests (PTA and Impedance) to include distinction between conductive and sensorineural hearing loss.
4 Appropriate referral to other agencies/for other opinion including genetics, general paediatric/developmental paediatric, specialist services for the deaf including educational services.
4 Principles of patient management.
4 Able to deduce a differential diagnosis and formulate strategy to reach final diagnosis.

**Technical Skills**
Surgical management to include:
- 4 surgical ventilation of the ears
- 3 tympanomastoid surgery
- 2 BAHA
- 2 Cochlear implantation
- 4 Adenoidectomy
- 4 Myringoplasty

**Professional Skills**
Demonstrate communication skills and empathy.
Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

### Deafness in adults

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common ORL conditions. This module gives some indication of the breadth and depth of required knowledge, clinical and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
Anatomy, physiology and pathology of the ear and auditory pathways. The pathogenesis of disorders of the ear and hearing.

Embryology of the ear
### Principles and practice of audiology including pure tone audiometry, speech audiometry and electrophysiological tests and other objective tests of hearing including oto-acoustic emissions

Aetiological investigation including genetics testing

Causes of sensorineural deafness

Non-organic hearing loss

Deafness of ageing

Noise Induced deafness

Ototoxicity

Otosclerosis and other causes of conductive deafness

Progressive or sudden onset hearing loss, both conductive and sensorineural

Central auditory processing disorders, auditory neuropathy, obscure auditory disfunction

Auditory rehabilitation including the use of hearing aids and other assistive devices.

4 Surgical options including cochlear implantation, bone anchored hearing aids (BAHA) and middle ear implants

**Clinical Skills**

History taking and examination, appropriate referral to other agencies/for other opinion including genetics, general paediatric/developmental paediatric, specialist services for the deaf including educational services.

**Technical Skills**

Surgical management:
- 3 - tympanomastoid surgery
- 4 - surgical ventilation of the ears
- 1 - stapedectomy
- 2 - ossiculoplasty
- 2 - BAHA
- 2 - Cochlear implantation

**Professional Skills**

Demonstrate communication skills and empathy

Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent

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**Facial Paralysis**

**Objective**

To understand the aetiology, presenting signs, symptoms and management of common ORL conditions. This module gives some indication of the breadth and depth of required knowledge, clinical and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**

- The anatomy and physiology of facial nerve
- The causes, and types of facial paralysis
- The relevant clinical neurological, vascular, radiological, biochemical, serological and electrophysiological investigations
**Principles of rehabilitation for facial paralysis**

4. Understand the psychological effects of facial disfigurement

**Clinical Skills**
Ellicit clinical history and elicit signs.  
Interpret neurophysiological tests.  
4. Principles of patient management

**Technical Skills**
2. Facial decompression  
1. Facial-hypoglossal anastamosis and other methods of rehabilitation

**Professional Skills**
Demonstrate communication skills and empathy  
Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent

<table>
<thead>
<tr>
<th>Cochlear implantation in adults and children; other implantable hearing devices including bone anchored hearing aids and middle ear implants</th>
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**Objective**
To understand the aetiology, presenting signs, symptoms and management of common ORL conditions. This module gives some indication of the breadth and depth of required knowledge, clinical and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
Anatomy, physiology and pathology of the ear and auditory pathways.  
The pathogenesis of disorders of the ear and hearing.  
4. Embryology of the ear.  
2. Types of implants, indications and contraindications including risks and complications.  
3. Surgical approaches to the inner ear.  
2. Speech processing strategies.  
4. Role of extended teamworking.  

**Clinical Skills**
4. History taking, clinical examination, significance of radiological findings.

Principles of patient management.

**Technical Skills**
2. Surgery of the middle ear.

2. Fixation of BAHA (and Bone anchored Prostheses)

2. Surgical approaches to the inner ear

**Professional Skills**
Demonstrate communication skills and empathy.
Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

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<th>Tinnitus</th>
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**Objective**
To understand the aetiology, presenting signs, symptoms and management of common ORL conditions. This module gives some indication of the breadth and depth of required knowledge, clinical and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
Anatomy, physiology and pathology of the ear and auditory pathways.  
The pathogenesis of disorders of the ear and hearing  
Principles and practice of audiology including pure tone audiometry, speech audiometry and electrophysiological tests and other objective tests of hearing including oto-acoustic emissions  
Psychoacoustical tests, pitch and loudness match, minimum masking level, residual
### Ear trauma

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common ORL conditions. This module gives some indication of the breadth and depth of required knowledge, clinical and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- Anatomy, physiology and pathology of the ear and auditory pathways.
- The effects of trauma on the pinna, ear canal, tympanic membrane, middle ear and temporal bone.
- The effects and assessment of poly-trauma and neurological injury.
- The effects of barotrauma on the middle and inner ear.
- The surgical and non-surgical management of trauma of the external, middle and inner ear.

**Clinical Skills**
- Elicit clinical history and clinical signs.
- Interpret neurophysiological tests.
- Interpret otoscopic findings.
- Interpret audio vestibular tests.
- Interpret relevant neuro-radiological investigations.

**Technical Skills**
- 4 Drain auricular haematomas.
- 4 Myringoplasty.
- 2 Ossiculoplasty.
- 2 Round window exposure and repair.

**Professional Skills**
- Demonstrate communication skills and empathy.
- Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.

### Chronic suppurative otitis media including its intracranial complications

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common ORL conditions. This module gives some indication of the breadth and depth of required knowledge, clinical and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- Anatomy, physiology and pathology of the ear.
- Embryology of the ear.
- Principles and practice of audiology including pure tone audiometry.
- The aetiology and pathogenesis of cholesteatoma and of other types of chronic middle ear disease.
- The intracranial complications of ear disease.
- The importance of teamwork in managing critically ill patients.
- Principles of auditory rehabilitation.
- 4 Surgical management of CSOM.

**Clinical Skills**
Interpret relevant neuro-radiological investigations
Understand principles of patient management
2 Aural polypectomy

**Technical Skills**
4 Microscope assessment of the ear/microsuction
4 Cortical mastoidectomy
3 open cavity surgery
4 myringoplasty
2 Ossiculoplasty
2 Revision and intact canal wall surgery

**Professional Skills**
Demonstrate communication skills and empathy
Be able to break bad news
Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent

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**Acute otitis media**

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common ORL conditions. This module gives some indication of the breadth and depth of required knowledge, clinical and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
Anatomy, physiology and pathology of the ear
The microbiology of ear infections
4 Complications of acute otitis media.

**Clinical Skills**
Elicit clinical history and clinical signs. Interpret otoscopic appearance.
4 Understand principles of patient management

**Technical Skills**
Perform microsuction and myringotomy

**Professional Skills**
Demonstrate communication skills and empathy
Be able to advise the patient/parents or carers of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent

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**Disorders of the external ear including otitis externa**

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common ORL conditions. This module gives some indication of the breadth and depth of required knowledge, clinical and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
Anatomy, physiology and pathology of the ear
Microbiology of otitis externa.
The pathogenesis of disorders of the external ear
4 Necrotising otitis externa

**Clinical Skills**
Elicit clinical history and clinical signs
Interpret audio vestibular tests
Understand principles of patient management

**Technical Skills**
4 Aural microsuction and insertion of dressings

**Professional Skills**
Demonstrate communication skills and empathy
Be able to advise the patient/parents or carers of the treatment options, discuss risks and
potential benefits, potential complications and obtain informed consent

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<th>Disorders of equilibrium including Meniere's disorder</th>
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<tr>
<td>To understand the aetiology, presenting signs, symptoms and management of common ORL conditions. This module gives some indication of the breadth and depth of required knowledge, clinical and surgical skills. The list should not be considered to be fully inclusive or exhaustive.</td>
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The relationship of vestibular disorders to legislation relating to employment and driving

The principles of vestibular rehabilitation

Treatment options both non-surgical and surgical

4 The pathology and various hypotheses relating to the aetiology of BPPV

Clinical Skills
Vestibular assessment, including electro physiological testing, and clinical examination

Elicit clinical history and clinical signs

Perform relevant audio vestibular tests

Interpret audio vestibular tests

Interpret neurophysiological tests

4 principles of patient management

1 The surgical approach for trans labyrinthine and other surgical approaches to resection

Technical Skills
4 Perform particle re-positioning manoeuvres

Professional Skills
Demonstrate communication skills and empathy

Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent

Acute vestibular failure

Objective
To understand the aetiology, presenting signs, symptoms and management of common ORL conditions. This module gives some indication of the breadth and depth of required knowledge, clinical and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

Knowledge
Clinical anatomy, neuro-anatomy and physiology of the vestibular system, locomotor, CVS and cardiovascular systems and vision

Pathology and pathogenesis of diseases of the ear

The various hypotheses relating to the aetiology of sudden vestibular failure

The relevant clinical neurological, vascular, radiological, biological, immunological and serological investigations

The relationship of vestibular disorders to legislation relating to employment and driving

4 The principles of vestibular rehabilitation

Clinical Skills
Vestibular assessment, including electro physiological testing, and clinical examination

Elicit clinical history and clinical signs

Perform relevant audio vestibular tests

Interpret audio vestibular tests

Interpret neurophysiological tests
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Be able to advise the patient of the treatment options, discuss risks and potential benefits, potential complications and obtain informed consent.
### Rhinology

#### Congenital abnormalities

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common rhinological conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- Aetiology, embryology and clinical picture of congenital deformities of the nose and paranasal sinuses.
- An understanding of associations with other syndromes.

**Clinical Skills**
- Assessment of the nose and paranasal sinuses
- General assessment
- Management

**Technical Skills**
- Surgical skills

**Professional Skills**
Communication skills, empathy, an understanding of team working and issues relating to paediatric practice.
Ability to understand issues relating to patients with multiple handicaps.

#### Nose and sinus infections

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common rhinological conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- Aetiology and clinical picture
- Microbiology
- Complications of acute rhinosinusitis

**Clinical Skills**
- Diagnosis, assessment and management.
- Imaging
- Antrostomy (inferior meatal)
- Others

**Technical Skills**
- Speculum and endoscopic examination
- Antral washout

**Professional Skills**
Communication skills, empathy, an understanding of team working and issues relating to practice.

#### Nose and sinus inflammation excluding infection

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common rhinological conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- Classification
- Hypotheses
- Medical and surgical management
- Complications

**Clinical Skills**
- Diagnosis, assessment and management, including skin prick testing
### Nasal polyps

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common rhinological conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- Classification
- Hypotheses
- Medical and surgical management
- Complications

**Clinical Skills**
- Diagnosis, assessment and management.
- Imaging

**Technical Skills**
- Simple nasal polypectomy, including endoscopically
- Other nose and sinus surgery
- Other endoscopic surgery

**Professional Skills**
Advise the patient of the treatment options and risks.

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### Facial pain

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common rhinological conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- Classification
- Hypotheses
- Medical and surgical management
- Complications

**Clinical Skills**
- Diagnosis, assessment and management.
- Imaging

**Technical Skills**
- Nose and sinus surgery

**Professional Skills**
Advise the patient of the treatment options and risks.

---

### Foreign bodies

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common rhinological conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- Classification
- Hypotheses
4 Medical and surgical management
4 Complications

**Clinical Skills**
4 Diagnosis, assessment and management.
4 Imaging

**Technical Skills**
4 Surgery

**Professional Skills**
Advise the patient of the treatment options and risks.

---

**Epistaxis**

**Objective**
*To understand the aetiology, presenting signs, symptoms and management of common rhinological conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.*

**Knowledge**
4 Classification
4 Hypotheses
4 Medical and surgical management
4 Complications

**Clinical Skills**
4 Diagnosis, assessment and management.
4 Imaging

**Technical Skills**
4 Competence in nasal cautery and packing procedures
2 Endoscopic surgery

**Professional Skills**
Advise the patient of the treatment options and risks.

---

**Nasal trauma and deformity**

**Objective**
*To understand the aetiology, presenting signs, symptoms and management of common rhinological conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.*

**Knowledge**
4 Classification
4 Hypotheses
4 Medical and surgical management
4 Complications

**Clinical Skills**
4 Diagnosis, assessment and management.
4 Imaging

**Technical Skills**
4 Reduction of nasal fractures
4 Septal surgery
2 (Septo)Rhinoplasty

**Professional Skills**
Advise the patient of the treatment options and risks.

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**Nasal and paranasal sinus tumours.**

**Objective**
*To understand the aetiology, presenting signs, symptoms and management of common rhinological conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.*
**Knowledge**
- Classification
- Hypotheses
- Medical and surgical management
- Complications

**Clinical Skills**
- Diagnosis, assessment and management.
- Imaging

**Technical Skills**
*No content*

**Professional Skills**
- Advise the patient of the treatment options and risks.
- Ability to ‘break bad news’.

### Congenital abnormalities

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common rhinological conditions. This module gives some indication of the breadth and depth of required knowledge and surgical skills. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- Aetiology, embryology and clinical picture of congenital deformities of the nose and paranasal sinuses.
- An understanding of associations with other syndromes.

**Clinical Skills**
- Assessment of the nose and paranasal sinuses
- General assessment
- Management
- Surgical skills

**Technical Skills**
*No content*

**Professional Skills**
- Communication skills, empathy, an understanding of team working and issues relating to paediatric practice.
- Ability to understand issues relating to patients with multiple handicaps.

### Cosmetic surgery to soft tissues

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common and advanced rhinological conditions. This module gives explores the skills needed to become an otorhinolaryngologist with a subspecialty interest in rhinology and facial plastics. The list should not be considered to be fully inclusive or exhaustive. The clinician in training may not achieve surgical competence in each area.

**Knowledge**
- Aesthetics
- Ageing skin
- Facial aesthetics
- Dermatological conditions
- Surgical principles
- Biomaterial
- Wound repair

**Clinical Skills**
- Diagnosis, assessment and management
- Consent
- Medical management including the role of botulism toxin
- Surgical skills including laser and skin flaps

**Technical Skills**
- Rejuvenation of facial structures including the eye lids

**Professional Skills**
*No content*
### Septorhinoplasty

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common and advanced rhinological conditions. This module gives explores the skills needed to become an otorhinolaryngologist with a subspecialty interest in rhinology and facial plastics. The list should not be considered to be fully inclusive or exhaustive.

**Knowledge**
- 4 Aetiology
- 4 Aesthetics
- 4 Surgical techniques
- 4 Psychological issues
- 4 Techniques of repair
- 4 Complications

**Clinical Skills**
- 4 Diagnosis, assessment and management
- 4 Consent
- 4 Reduction septorhinoplasty
- 4 Augmentation septorhinoplasty including the harvesting of grafts

**Technical Skills**
- No content

**Professional Skills**
- No content

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### Facial palsy

**Objective**
To understand the aetiology, presenting signs, symptoms and management of common and advanced rhinological conditions. This module gives explores the skills needed to become an otorhinolaryngologist with a subspecialty interest in rhinology and facial plastics. The list should not be considered to be fully inclusive or exhaustive. The clinician in training may not achieve surgical competence in each area.

**Knowledge**
- 4 The anatomy and physiology of the of the facial nerve
- 4 Aetiology
- 4 Medical and surgical management

**Clinical Skills**
- 4 Diagnosis, assessment and management
- 4 Consent

**Technical Skills**
- No content

**Professional Skills**
- No content
5. Professional and Generic Skills

5.1. Initial

Professional Competencies to be acquired during the initial stage of surgical training.

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**Skills**

- Elicits a history that is relevant, concise, accurate and appropriate to the patient’s problem

**Behaviour**

- Demonstrates effective consultation skills in presenting well documented assessments and recommendations in written and/or verbal form in response to a request from another healthcare provider
- Demonstrates the attitudes and the skills necessary to retrieve and implement the information necessary to provide healthcare services to patients in meeting the needs and expectations of the community
- Demonstrates insight into his/her limitations by self assessment

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<th>Communicator (Good Clinical Care; Maintaining Good Medical Practice)</th>
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<tbody>
<tr>
<td>1. Effective doctor/patient communication</td>
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**Objective**

To establish a doctor/patient relationship characterised by understanding, trust, respect, empathy and confidentiality

**Skills**

- Able to gather information regarding the patient’s beliefs, concerns and expectations about the condition and consider the influence of factors such as the patient’s age, gender, ethnic, cultural and socio-economic background and spiritual values on that illness
- Able to elicit information regarding the beliefs, concerns and expectations of patients with regard to their presenting conditions.
- Able to evaluate factors such as the patient’s age, gender, ethnic, cultural, socio-economic and spiritual values and the impact that these may have on the management of that patient and condition.
- Able to deliver information to the patient and family humanely and in a way that is understandable, encourages discussion and promotes the patient’s participation in decision making to the level appropriate for the situation.
Able to work with patients who present significant communication challenges such as anger or confusion, or an ethno-cultural background different from the doctor’s own.

2. **Communication with Colleagues**

*Objective*

To appreciate the importance of co-operation with other healthcare professionals involved in patient care and to ensure that the roles of these professionals are clear, consistent, understood by all involved, and that, appropriate and timely information is delivered to patients and their families.

*Skills*

- Able to communicate effectively with colleagues within and outside of the team
- Able to evaluate the roles and responsibilities of individuals within the clinical team and to ensure that these are understood by all concerned in the context of individual and general patient care.

**Collaborator (Good Clinical Care; Working with Colleagues)**

*Objective*

To achieve competence in the formulation and implementation of appropriate care plans in the clinical situation, in collaboration with members of an interdisciplinary team, incorporating assessment, investigation, treatment and continuing care.

*Skills*

- To achieve a goal related to patient care, a research problem, an educational activity or an administrative responsibility by using the expertise and being aware of the limitations of all members of an interdisciplinary team

**Manager (Working with Colleagues; Probity)**

*Objective*

be able to work effectively as a member of a team or a partnership and to accomplish tasks whether one is a team leader or a team member

**Health Advocate (Good Clinical Care; Probity)**

*Objective*

To demonstrate an understanding of determinants of health and public policy in relation to individual patients by identifying the patient’s status with respect to one or more determinants of health (i.e. unemployment)

*Skills*

- Adapts the assessment and management accordingly (i.e. the medical history to the patients social circumstances); and
- Assesses the patient’s ability to access various services in the health and social system and offer appropriate assistance.

**Scholar (Maintaining Good Medical Practice; Teaching and Training, Appraising and**
1. **Clinical**

   **Objective**

   To demonstrate a rigorous approach to clinical problem solving

   **Skills**

   - Can pose a clinical question
   - Recognises and identifies gaps in knowledge and expertise around a clinical question
   - Formulates a plan to fill the gap by:
     - conducting an appropriate literature search based upon a clinical question
     - assimilating and critically appraise the literature
     - developing a system to store and retrieve relevant literature
     - consulting others (physicians and other healthcare professionals) in a collegiate manner
   - Proposes a solution to the clinical question
   - Implements the solution in practice. Evaluate the outcome and reassess the solution (re-enter the loop at c-i or c-ii)
   - Identifies practice areas for research

2. **Education and Teaching**

   **Objective**

   Can demonstrate an understanding of, and the ability to apply, the principles of adult education, with respect to oneself and others

   **Skills**

   - Uses his/her understanding of preferred learning methods in dealing with students, trainees and colleagues

---

**Professional (Relationships with Patients; Probity)**

1. **Discipline-Based Objectives**

   **Objective**

   Displays attitudes commonly accepted as essential to Professionalism

   **Skills**

   - Use appropriate strategies to maintain and advance professional competence
   - Continually evaluates one’s abilities, knowledge and skills and know one’s limitations of professional competence

2. **Personal Professional Boundary Objectives**

   **Objective**

   To balance personal and professional roles and responsibilities and to demonstrate ways of attempting to resolve conflicts and role strain

   **Skills**
Adopts specific strategies to heighten personal and professional awareness and explore and resolve interpersonal difficulties in professional relationships

3. Ethics and Professional Bodies

Objective

To recognise, analyse and know how to deal with unprofessional behaviours in clinical practice, taking into account local and national regulations

Knowledge

- Knows and understands the professional, legal and ethical codes of the General Medical Council and any other codes to which the physician is bound

Skills

- Recognises, analyses and attempts to resolve in clinical practice ethical issues such as truth telling, consent, advanced directives, confidentiality, end-of-life care, conflict of interest, resource allocation, research ethics etc
- Understands and is able to apply relevant legislation that relates to the health care system in order to guide one’s clinical practice
- Recognises, analyses and knows how to deal with unprofessional behaviours in clinical practice, taking into account local and national regulations
5.2. Intermediate

Professional Competencies to be acquired during the intermediate stage of surgical training. (New competencies are in bold)

Medical Expert (Good Clinical Care; Maintaining Good Medical Practice)

The specialty specific knowledge, clinical skills and technical skills and procedures relating to symptoms and conditions that a trainee will encounter during this stage of training are listed separately. The competencies listed below are generic competencies, which underpin the specialty specific competencies.

Skills

- Elicits a history that is relevant, concise, accurate and appropriate to the patient’s problem

Behaviour

- Demonstrates effective consultation skills in presenting well documented assessments and recommendations in written and/or verbal form in response to a request from another healthcare provider
- Demonstrates the attitudes and the skills necessary to retrieve and implement the information necessary to provide healthcare services to patients in meeting the needs and expectations of the community
- Demonstrates insight into his/her limitations by self assessment

Communicator (Good Clinical Care; Maintaining Good Medical Practice)

1. Effective doctor/patient communication

Objective

To establish a doctor/patient relationship characterised by understanding, trust, respect, empathy and confidentiality

Skills

- Able to gather information regarding the patient’s beliefs, concerns and expectations about the condition and consider the influence of factors such as the patient’s age, gender, ethnic, cultural and socio-economic background and spiritual values on that illness
- Able to elicit information regarding the beliefs, concerns and expectations of patients with regard to their presenting conditions.
- Able to evaluate factors such as the patient’s age, gender, ethnic, cultural, socio-economic and spiritual values and the impact that these may have on the management of that patient and condition.
- Able to deliver information to the patient and family humanely and in a way that is understandable, encourages discussion and promotes the patient’s participation in decision making to the level appropriate for the situation.
- Able to work with patients who present significant communication challenges such as anger or confusion, or an ethno-cultural background different from the doctor’s own.

2. Communication with Colleagues

Objective
To appreciate the importance of co-operation with other healthcare professionals involved in patient care and to ensure that the roles of these professionals are clear, consistent, understood by all involved, and that, appropriate and timely information is delivered to patients and their families.

**Skills**

- Able to communicate effectively with colleagues within and outside of the team
- Able to evaluate the roles and responsibilities of individuals within the clinical team and to ensure that these are understood by all concerned in the context of individual and general patient care.

**Collaborator (Good Clinical Care; Working with Colleagues)**

**Objective**

To achieve competence in the formulation and implementation of appropriate care plans in the clinical situation, in collaboration with members of an interdisciplinary team, following assessment, investigation, treatment and continuing care.

**Skills**

- To achieve a goal related to patient care, a research problem, an educational activity or an administrative responsibility by using the expertise and being aware of the limitations of all members of an interdisciplinary team

**Manager (Working with Colleagues; Probity)**

**Objective**

To be able to work effectively as a member of a team or a partnership and to accomplish tasks whether one is a team leader or a team member.

**Health Advocate (Good Clinical Care; Probity)**

**Objective**

To demonstrate an understanding of determinants of health and public policy in relation to individual patients by identifying the patient’s status with respect to one or more determinants of health (i.e. unemployment)

**Knowledge**

- Demonstrates an understanding of determinants of health and public policy in relation to:
  - Practice populations by work with specialty society and other organizations in identifying current “at risk” groups within a given specialty practice and applying the available knowledge about prevention to “at risk” groups within the practice; and contributing “group data” for better understanding of health problems within the population
  - General Population by describing in broad terms the key issues currently under debate regarding changes in the National Health System, indicating how these might affect societal health care outcomes and advocating to decrease the burden of illness (at a community or societal level) of a condition or problem relevant to
his/her specialty society, community based advocacy group, or other public education bodies, or private organizations

- Demonstrates an understanding of the determinants of health by identifying the most important determinants of health (i.e. poverty, unemployment, early childhood education, social support systems), being familiar with underlying research evidence, and applying this understanding to common problems and conditions in the trainees' specialty

- Demonstrates an understanding of public health policy by describing how public policy is developed; identifying current policies that affect health, either positively or negatively (i.e. communicable diseases, tobacco, substance abuse); and citing examples of how policy was changed as a result of actions by physicians

**Skills**

- Adapts the assessment and management accordingly (i.e. the medical history to the patient’s social circumstances); and
- Assesses the patient’s ability to access various services in the health and social system and offer appropriate assistance.

### Scholar (Maintaining Good Medical Practice; Teaching and Training, Appraising and Assessing; Probity)

1. **Clinical**

   **Objective**

   To demonstrate a rigorous approach to clinical problem solving

   **Skills**

   - Can pose a clinical question
   - Recognises and identifies gaps in knowledge and expertise around a clinical question
   - Formulates a plan to fill the gap by:
     - conducting an appropriate literature search based upon a clinical question
     - assimilating and critically appraise the literature
     - developing a system to store and retrieve relevant literature
     - consulting others (physicians and other healthcare professionals) in a collegiate manner
   - Proposes a solution to the clinical question
   - Implements the solution in practice. Evaluate the outcome and reassess the solution (re-enter the loop at c-i or c-ii)
   - Identifies practice areas for research

2. **Education and Teaching**

   **Objective**

   Can demonstrate an understanding of, and the ability to apply, the principles of adult education, with respect to oneself and others.

   **To be able to develop and deliver a teaching module or unit and supporting lecture notes for an undergraduate or peer teaching session.**

   **Skills**
Uses his/her understanding of preferred learning methods in dealing with students, trainees and colleagues

Plans educational activities which clearly set out aims and intended learning outcomes

Prepares appropriate teaching materials which meet learners’ needs

Behaviours

Show a commitment to teaching and learning

3. Research

Objective

To demonstrate a rigorous approach to research through: a successful application to the ethics committee; or a successfully completing a formal audit application; or presenting to a local mortality and morbidity meeting; or presenting to a national meeting.

Skills

To be able to pose a research question (clinical, basic or population health)

Develops a proposal to solve the research question:

- Conduct an appropriate literature search on the research question
- Identify, consult and collaborate with appropriate content experts to conduct the research
- Propose the methodological approach to solve the question

Carries out the research outlined in the proposal

Defends and disseminate the results of the research

Identifies areas for further research that flow from the results

Professional (Relationships with Patients; Probity)

1. Discipline-Based Objectives

Objective

Displays attitudes commonly accepted as essential to professionalism

Skills

- Use appropriate strategies to maintain and advance professional competence
- Continually evaluates one’s abilities, knowledge and skills and know one’s limitations of professional competence

2. Personal Professional Boundary Objectives

Objective

To balance personal and professional roles and responsibilities and to demonstrate ways of attempting to resolve conflicts and role strain

Skills

- Adopts specific strategies to heighten personal and professional awareness and explore and resolve interpersonal difficulties in professional relationships
3. **Ethics and Professional Bodies**

*Objective*

To recognise, analyse and know how to deal with unprofessional behaviours in clinical practice, taking into account local and national regulations

*Knowledge*

- Knows and understand the professional, legal and ethical codes of the General Medical Council and any other codes to which the physician is bound

*Skills*

- Recognises, analyses and attempts to resolve in clinical practice ethical issues such as truth telling, consent, advanced directives, confidentiality, end-of-life care, conflict of interest, resource allocation, research ethics etc
- Understands and is able to apply relevant legislation that relates to the health care system in order to guide one’s clinical practice
- Recognises, analyses and knows how to deal with unprofessional behaviours in clinical practice, taking into account local and national regulations
5.3. Final

Professional Competencies to be acquired during the final stage of surgical training. (New competencies are in bold)

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**Medical Expert (Good Clinical Care; Maintaining Good Medical Practice)**

The specialty specific knowledge, clinical skills and technical skills and procedures relating to symptoms and conditions that a trainee will encounter during this stage of training are listed separately. The competencies listed below are generic competencies, which underpin the specialty specific competencies.

**Skills**

- Elicits a history that is relevant, concise, accurate and appropriate to the patient’s problem

**Behaviour**

- Demonstrates effective consultation skills in presenting well documented assessments and recommendations in written and/or verbal form in response to a request from another healthcare provider
- Demonstrates the attitudes and the skills necessary to retrieve and implement the information necessary to provide healthcare services to patients in meeting the needs and expectations of the community
- Demonstrates insight into his/her limitations by self assessment
- Demonstrates medical expertise in situations other than those involving direct patient care

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**Communicator (Good Clinical Care; Maintaining Good Medical Practice)**

1. **Effective doctor/patient communication**

   **Objective**

   To establish a doctor/patient relationship characterised by understanding, trust, respect, empathy and confidentiality

   **Skills**

   - Able to gather information regarding the patient’s beliefs, concerns and expectations about the condition and consider the influence of factors such as the patient’s age, gender, ethnic, cultural and socio-economic background and spiritual values on that illness
   - Able to elicit information regarding the beliefs, concerns and expectations of patients with regard to their presenting conditions.
   - Able to evaluate factors such as the patient’s age, gender, ethnic, cultural, socio-economic and spiritual values and the impact that these may have on the management of that patient and condition.
   - Able to deliver information to the patient and family humanely and in a way that is understandable, encourages discussion and promotes the patient’s participation in decision making to the level appropriate for the situation.
   - Able to work with patients who present significant communication challenges such as anger or confusion, or an ethno-cultural background different from the doctor’s own.

2. **Communication with Colleagues**
Objective

To appreciate the importance of co-operation with other healthcare professionals involved in patient care and to ensure that the roles of these professionals are clear, consistent, understood by all involved, and that appropriate and timely information is delivered to patients and their families.

Skills

- Communicates effectively with colleagues within and outside of the team
- Evaluates the roles and responsibilities of individuals within the clinical team and to ensure that these are understood by all concerned in the context of individual and general patient care.

Collaborator (Good Clinical Care; Working with Colleagues)

Objective

To achieve competence in the formulation and implementation of appropriate care plans in the clinical situation, in collaboration with members of an interdisciplinary team, following assessment, investigation, treatment and continuing care.

To understand how healthcare governance influences patient care, research and educational activities at a local, regional and national level

Skills

- To achieve a goal related to patient care, a research problem, an educational activity or an administrative responsibility by using the expertise and being aware of the limitations of all members of an interdisciplinary team
- Ability to accept, consider and respect the opinion of others team members, while contributing specialty-specific expertise him/herself in an interdisciplinary team meeting
- Ability to communicate with members of an interdisciplinary team in the resolution of conflicts, provide feedback, and where appropriate, assume a leadership role

Manager (Working with Colleagues; Probity)

Objectives

To be able to work effectively as a member of a team or a partnership and to accomplish tasks whether one is a team leader or a team member.

To make clinical decisions and judgments based upon sound evidence for the benefit of individuals and the population served.

Skills

- Is able to function effectively in a healthcare organization from individual clinical practice to organisations at the local, regional and national level
- Through understanding the structure, financing, and operation of the NHS and its facilities, is able to function effectively within it playing an active role in its change
- Ability to access and apply a broad base of information to the care of patients in community care, hospital and other healthcare settings
- Uses population based approaches to healthcare services and recognises their implication for medical practice
• Uses planning, budgeting, evaluation to maximise the outcomes of a patient care

**Health Advocate (Good Clinical Care; Probity)**

*Objective*

To demonstrate an understanding of determinants of health and public policy in relation to individual patients by identifying the patient’s status with respect to one or more determinants of health (i.e. unemployment)

*Skills*

• Adapts the assessment and management accordingly (i.e. the medical history to the patients social circumstances); and
• Assesses the patient’s ability to access various services in the health and social system and offer appropriate assistance.

**Scholar (Maintaining Good Medical Practice; Teaching and Training, Appraising and Assessing; Probity)**

1. **Clinical**

   *Objective*

   To demonstrate a rigorous approach to clinical problem solving

   *Skills*

   o Can pose a clinical question
   o Recognises and identifies gaps in knowledge and expertise around a clinical question
   o Formulates a plan to fill the gap by:
     ▪ conducting an appropriate literature search based upon a clinical question
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   o Proposes a solution to the clinical question
   o Implements the solution in practice. Evaluate the outcome and reassess the solution (re-enter the loop at c-i or c-ii)
   o Identifies practice areas for research

2. **Education and Teaching**

   *Objective*

   Can demonstrate an understanding of, and the ability to apply, the principles of adult education, with respect to oneself and others.

   To develop and deliver a teaching module or unit and supporting lecture notes for an undergraduate or peer teaching session.

   **To supervise and mentor learners (trainees) in a work setting.**

   **To teach trainees in a work setting**
Skills

- Uses his/her understanding of preferred learning methods in dealing with students, trainees and colleagues
- Plans educational activities which clearly set out aims and intended learning outcomes
- Prepares appropriate teaching materials which meet learners’ needs
- Provides effective feedback to learners
- Optimises opportunistic teaching and learning in
  - Operating theatre
  - Bedside
  - Outpatients
- Can highlight ways in which their clinical teaching might be improved
- Able to evaluate the use of reflective practice, learning agreements, portfolios and journals
- Uses different methods of assessment appropriate to what is being assessed e.g. knowledge, skills, judgment and professionalism
- Can differentiate between appraisal and assessment

Behaviours

- Shows a commitment to teaching and learning
- Shows a willingness to supervise the work of less experienced colleagues
- Shows sensitivity to the needs of learner and responds appropriately.

3. Research

Objective

To demonstrate a rigorous approach to research through: the publication of a paper in a peer review journal; or participation in a systematic review with defined outcomes; publishing guidance at trust, regional, specialty or national level.

Skills

- To be able to pose a research question (clinical, basic or population health)
- Develops a proposal to solve the research question:
  - Conduct an appropriate literature search on the research question
  - Identify, consult and collaborate with appropriate content experts to conduct the research
  - Propose the methodological approach to solve the question
- Carries out the research outlined in the proposal
- Defends and disseminates the results of the research
- Identifies areas for further research that flow from the results

Professional (Relationships with Patients; Probity)

1. Discipline-Based Objectives

Objective

Displays attitudes commonly accepted as essential to professionalism

Skills
2. **Personal Professional Boundary Objectives**

**Objective**

To balance personal and professional roles and responsibilities and to demonstrate ways of attempting to resolve conflicts and role strain

**Skills**

- Adopts specific strategies to heighten personal and professional awareness and explore and resolve interpersonal difficulties in professional relationships

3. **Ethics and Professional Bodies**

**Objective**

To recognise, analyse and know how to deal with unprofessional behaviours in clinical practice, taking into account local and national regulations

**Knowledge**

- Knows and understands the professional, legal and ethical codes of the General Medical Council and any other codes to which the physician is bound

**Skills**

- Recognises, analyses and attempts to resolve in clinical practice ethical issues such as truth telling, consent, advanced directives, confidentiality, end-of-life care, conflict of interest, resource allocation, research ethics etc
- Understands and is able to apply relevant legislation that relates to the health care system in order to guide one's clinical practice
- Recognises, analyses and knows how to deal with unprofessional behaviours in clinical practice, taking into account local and national regulations