College of Medicine
King Abdulaziz University Hospital
ORL Department

FELLOWSHIP PROGRAM
IN OTORHINOLARYNGOLOGY
HEAD & NECK SURGERY
(FIVE-YEAR PROGRAM)

1429-1430
I. Introduction

The King Abdulaziz University Hospital which is situated in the heart of Riyadh, Saudi Arabia was a private hospital then under Prince Talal Bin Abdulaziz in 1955. In 1960, it became under the supervision of the Ministry of Health. Finally in 1973, it was under the pillar of the King Saud University with 104 bed capacity and 50 of these are allocated for the ENT cases.

The Department of Otorhinolaryngology, King Abdulaziz University Hospital has been delegated on the Otolaryngology-Head and Neck Surgery mainly when it comes to specialty’s cases, teaching aspects and its training programs including Diploma, Fellowship and Sub-Specialties.

It’s almost 2 decades when the King Saud University Fellowship in ORL-Head and Neck Surgery specialty was established with 58 graduates and has 47 Diploma in Larynx/Otology who are doing well and have their respective achievements professionally speaking.

The University further their training program by encouraging the Candidates to do research projects and it was included as part of the program structure. The support and assistance to the Candidates have been and continually extended by the Teaching Staff and currently established a Research Chair for Hearing Disability which is under the pillar of the University as well.

II. Name of the Fellowship / Program

King Saud University Fellowship in Otorhinolaryngology and Head and Neck Surgery (5-year training program)
III. Objectives

The Department of ORL wants:

General Objective

1. To produce competent, safe and skilled Oto-Rhino-Laryngologist who will be able to deal efficiently with ORL and Head and Neck Surgery

Special Objective

2. To provide research environment and facilities for those who would be researchers or academic Staff of the specialty

3. To award a certificate of specialization (The Fellowship of King Saud University) after successful completion of the program.

IV. Admission requirements / Rules and regulations

Rules and regulations comply with the rules of the fellowship program of King Saud University. Some of them are briefly describe as follow:

Criteria for admission to the Fellowship Program

a. Applicant should be a graduate from King Saud University with the degree of MBBS or its equivalent from other University with minimum grade of “Good”

b. Successful completion of one year internship

c. Passing a personal interview and selection examination in accordance with the policy of Residency Board scheduled every 2nd Saturday of April in each academic year, otherwise specified where 8 Candidates are accepted.

d. The Candidate must provide a release letter from his sponsor for the whole 5-year duration of the program.

Application must be submitted to the Continuing Medical Education Center, College of Medicine, King Saud University, Riyadh, Saudi Arabia
V. Degree requirement for admission

a. Applicant should be a graduate from King Saud University with the degree of MBBS or its equivalent from other University with minimum grade of “Good”

b. Successful completion of one year internship

c. Pass the Saudi Commission (Board) for Health Specialties Licensure Examination

VI. Training sites, standard evaluation and available resources

The training sites mainly in Central Region which include the University Hospitals - King Khalid University Hospital and King Abdulaziz University Hospital and its affiliated hospitals - Riyadh Military Hospital, King Faisal Specialist Hospital and Research Center, King Abdulaziz Medical City, Security Forces Hospital and Riyadh Medical Complex, King Fahad Medical City, though, basically, during the Residency Level 1, Candidates will be on their general surgery rotation with its complete training facilities including laboratories for their practical sessions and other modern equipments.

While, standard evaluations and available resources will be tackled in the later part.

VII. Quality of Supervisor and preceptors and scientific and clinical skills

For almost 2 decade the KSU Fellowship is existing as mentioned above, the quality and value of teachings from the Supervisors, Preceptors and/or from Teaching Staff and other Department’s and Affiliated Hospital’s Staff including the Consultants are of par excellence in theoretical and on its practical/clinical skill – broad based, hands-on exposures to a wide diversity of ENT procedures.
And as a saying goes an education is a continuous process, these Supervisors /Teaching Staff are kept attending conference, seminars, courses and practical sessions not only here in the Kingdom but most of the time outside including United States of America, Australia, Germany, United Kingdom and others wherein the knowledge and exposures that they have gained and/or enhanced were shared to all the Candidates of the Training Program as well through the scientific activities the Department of ORL has sponsored including National Seminar, Courses e.g Temporal Bone Dissection Course, Bronchoesophagoscopy and Laser Course, International Rhinoplasty Course and FESS course and others for the benefit of its Candidates as well as the interested participants not only in the field of otolaryngology but in other fields of specialty

Staff of the ORL Department

A. OTOLARYNGOLOGY

<table>
<thead>
<tr>
<th>NAME OF STAFF</th>
<th>ACADEMIC TITLE / POSTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DR. AHMED. AL-ARFAJ</td>
<td>Chairman, Associate Professor / Consultant</td>
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<tr>
<td>PROF. MOHAMMED ATTALLAH</td>
<td>Professor / Consultant</td>
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<tr>
<td>PROF. YOUSRY EL-SAYED</td>
<td>Professor / Consultant</td>
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<tr>
<td>PROF. HAMAD AL-MUHAIMEED</td>
<td>Professor / Consultant</td>
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<tr>
<td>PROF. SAMEER BAFQEEN</td>
<td>Professor / Consultant</td>
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<tr>
<td>PROF. AHMED AL AMMAR</td>
<td>Professor / Consultant</td>
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<tr>
<td>DR. SURAYIE AL-DOUSARY</td>
<td>Associate Professor / Consultant</td>
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<tr>
<td>DR. FATIMA AL-ANAZY</td>
<td>Associate Professor / Consultant</td>
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<tr>
<td>DR. KHALID AL-MAZROU</td>
<td>Associate Professor / Consultant</td>
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<tr>
<td>DR. ABDULRAHMAN AL-ESSA</td>
<td>Asst. Professor / Consultant</td>
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<td>DR. ABDULRAHMAN HAGR</td>
<td>Asst. Professor / Consultant</td>
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<tr>
<td>DR. SALEH AL-DHAHRI</td>
<td>Asst. Professor / Consultant</td>
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<tr>
<td>DR. ABDULRAHMAN ALSANOSI</td>
<td>Asst. Professor / Consultant</td>
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<tr>
<td>DR. MANAL AL-BUKHARI</td>
<td>Asst. Professor / Consultant</td>
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<tr>
<td>DR. KHALID AL-QAHTANI</td>
<td>Asst. Professor / Consultant</td>
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<tr>
<td>DR. MASOOUDA ASHRAF</td>
<td>Consultant</td>
</tr>
<tr>
<td>DR. MOHAMMED AL-OUHAN</td>
<td>Registrar</td>
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<tr>
<td>DR. ABDULAZIZ AL-SHAAWAN</td>
<td>Registrar</td>
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<td>DR. NIZAR HAMED</td>
<td>Registrar</td>
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<tr>
<td>DR. OSAMA SABER</td>
<td>Registrar</td>
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</tbody>
</table>
NAME OF STAFF ACADEMIC TITLE / POSTION
DR. MOHAMMED GAAFAR Registrar
DR. WAFIQ RAMADAN Registrar
DR. FARRUKH MEHMOOD Registrar
DR. HASHEM ABDULWAHEED Registrar
DR. ZAINAB MOHAMMED Registrar
DR. YASIN SUBHAN Registrar
OTHER STAFF FOR SCHOLARSHIP GRANT OVERSEAS

B) COMMUNICATION AND SWALLOWING DISORDERS UNIT (CSDU)

NAME OF STAFF ACADEMIC TITLE / POSTION
DR. KHALID AL-MALKI Deputy Chairman / Asst Professor/Consultant
DR. MOHAMMED AL FARAHAT Asst Professor / Consultant
DR. SABAH MOHAMMED Phoniatrian / Consultant
DR. RAZIA SHOIEID Phoniatrian / Consultant
MR. TALAL AL-ZURGI Specialist, Speech – language pathologist
MR. HOSAM AZEEM
MS. SARA AL-HAMID
MS. AYNA AL-MASAD
HANAN ALZAHRAANI

C) AUDIOLOGY AND BALANCE DISORDERS UNIT (ABDU )

NAME OF STAFF ACADEMIC TITLE / POSTION
Dr. Abdullah AlShaya Supervisor
Dr. Deena Almana Auidologist
Dr. Osama Hamed Auidologist
Eba'a Shubair Auidologist
Najia Ashafee Auidologist
Mr. Hosam Azeem Auidologist
Ms. Sara Al Hamid Auidologist
Ms. Ayna Al Masad Auidologist

Note: the aforementioned Teaching Staff, Consultants, Doctors and other Staff belong to King Saud University and are aside from that of the Teaching Staff of the Affiliated Hospitals of the Central Region.
VIII. Method of qualitative and quantitative evaluations

The method of evaluating the Candidates of the training program is based on the theoretical and technical know-how and/or practical skills of the Candidates where its composition are explained on the later part of (please see attachment for the evaluation sample).

a) Quarterly performance evaluation

An specific form of evaluation is available every 3 months to fill up by the Consultant or Supervisor-in-Charge of a particular Candidate(s) including their basic and clinical knowledge (theoretical) while, practical aspect includes clinical judgment and decisions, consultation skills, appropriate utilization of investigations, record and reports participation in scientific activities, indication and judgment and its technical skills.

Further, the fellowship program is not only molding the technical skills of its Candidates but also in its personality as a whole including its punctuality, discipline and reliability, attitude to patients and Staff and the ability to supervise and just like in the advertisement sayings “it is a total package” to be able to produce a dignified, deserving, qualified and a promising otolaryngologist(s) in the future for the betterment of the society and of great assistance to the people.

The numerical evaluation for the Candidates are numbered from 1 to 5, where, 1 is for unsatisfactory; 2 for below average; 3 for average; 4 for above average and 5 for outstanding and computed with its 16 categories. (see attachment as mentioned above) and has a total equivalent of 100%.

The evaluations of the Candidates in the affiliated hospitals will be discussed and approved by their respective Department prior to its submission to the Residency Training Committee for its final discussion and approval.

These evaluations have a bearing on the Candidates yearly promotion examination with its distinct and assigned percentage in the overall promotion mark.
b) Yearly promotion examination

Part of the assessment of the Candidates performance is the yearly promotion examination comprises of 100% where 50% is allotted for the written examination result and 50% for oral examination and other fields as stated and approved by the Residency Training Committee – Hospital Evaluation, Attendance, other considerations.

The examination will determine if a particular Candidate will successfully promoted to the next level of residency, while, for the graduating batch then will determine if they will be eligible to sit in the Final Examination of the Fellowship as well as in the Saudi Board.

However, for the Junior Candidates, Residency Level 3, passing also in the 1st part Saudi Board examination is one of the provisions prior to their promotion. Hence, even a particular Candidate has successfully pass in the promotion examination but failed in the yearly 1st Part Saudi Board, he/she will remain in his level of residency on the next academic year.

The Residency Training Committee’s policies and By-laws stipulate as well that a Candidate must successfully pass prior to its promotion all other requirements in relation to his/her training including his/her remaining hospital performance evaluation.

c) Final Examination

As stated above, eligibility of Candidate will determine if he/she will be able to pass to the yearly promotion examination. The examination comprises of written (50%) and oral/clinical examination (50%).

In the oral/clinical examination, there will be an International / External Examiner to be invited by the KSUF Examination Committee from a prestigious and distinguished University eg. Canada, Germany, United States of American and this depends on the Committee Members in determining who will be invited and likewise to be discussed and approved by the Department Board.
For those Candidate(s) who will not be able to successfully pass in the aforementioned final examination, he/she will only be allowed for 3 successive years of sitting the examination.

Other provision with pertains to the approval of the examination will be handled by the Examination Committee and will be endorsed to the Department Board for its final approval prior to the submission to the Continuing Medical Education Center and likewise to be sent to the University itself.

Upon completion and passing all the examinations, the Candidate will be given a certification attesting the completion of his/her 5-year training and/or KSU Fellowship in ORL specialty by the King Saud University.

**IX. Similarity between the suggested fellowship and the developed countries**

The aim and objective 5-year KSU Fellowship in ORL specialty basically is similar to that of the other Fellowship/Programs in the developed countries which is to extend teachings and impart knowledge and expertise in the variety of cases in the field of ORL.

Generally, the mode of teachings are the same where the theoretical and practical skills of the Candidates are given much importance for them to learn all the modalities of ENT cases as it mentioned above. It may vary only on the ways the Teaching Staff rendered their teachings due to individual difference.

Most of the advance technology that other Programs are having are likewise the same to our training program, since the Coordinators and other Personnel through the assistance of the University Faculties are going out of their way to have these in order to give the best quality of program and incidental to the Candidates’ training.
X. Similarity between the suggested fellowship and the other Fellowship in Saudi Council for health specialties

The King Saud University Fellowship in ORL specialty is similar to that of the Saudi Council for Health Specialties’ Residency Training Program since the 2 programs are combined for the past years with its 5-year duration training period.

The program structure and all its residency affairs are handled and dealt with the Residency Training Committee comprises of the affiliated hospitals’ representatives including the Candidates’ selection examination, hospital distribution, yearly promotion examination and others.

XI. Program structure / outline

The 5-year program of the fellowship consists of the two integrating parts:

- Basic Science and Otorhinolaryngology and Head and Neck Surgery
  - a. Didactic lectures
  - b. Tutorial
  - c. Practical sessions

The curriculum of the Basic Science Part is enclosed (see Appendix I). The Candidate will be released from his clinical training and commitments to attend the lectures according to timetable to be announced by the Residency Training Committee, a body that deals with all the Residency Affairs

The Otorhinolaryngology and Head and Neck surgery is a 5 years rotation program based at King Saud University’s Teaching Hospitals, King Abdulaziz University Hospitals for the ENT proper trainings from 2nd year of training (Level 2) to its graduating level (Level 5) and King Khalid University Hospital for the General Surgery exposures for the 1st year level Candidates and other affiliated hospitals in Riyadh Region as included and approved by the Departments’ Residency Training Committee and the
Postgraduate Center in the rotation subject to the prevailing staffing and facilities.

Continuous evaluation of this and other hospitals will be done regularly by the Department and by Residency Board.

A comprehensive curriculum of lectures and tutorial are given throughout the 5 years program. (see Appendix II).

The clinical training include seminars, ward rounds, clinical meeting and journal club in addition to the outpatients and operating theater teaching. The training program will provide the Residents with increasing responsibilities and adequate exposures to clinical materials which are as follows:

**First year (R1)**

The first year of the Residents will be for training in General Surgery Department at a recognized hospital(s) with the aim of the following objectives:

1. Provides the Candidate with a sound knowledge of the principles of general surgery
2. Gives adequate experience in clinical diagnosis and methods of investigation in a wide range of general surgical conditions
3. Develop in the resident maturity of clinical judgment
4. Develop by progressive responsibility good technical and operative skills
5. Imparts an understanding of the ethics of surgical treatment
6. Emphasizes the importance of surgical team work and the necessity for consultation with other disciplines

The other 6 months will be for the completion of ORL training to be spent in Speech and Audiology Unit. The Candidate is also expected and/required to participate actively in seminars and case presentation meetings.
Second year (R2)

The Candidate(s) will be in ORL training proper and will be attached to Senior Staff in the outpatient and operating theater with no direct responsibility to the patient. The Resident is expected to manage ENT primary care and outpatient Clinic and in OR first under the supervision and later independently towards the end of the year with cases on his level of residency and must log all his procedures performed / done as part of the requirements of the program same with his succeeding years of training.

Candidate is expected to clerk the in-patients and actively participate in the ward rounds and will be given an on-call duty and the number will be in accordance to the hospital’s on-call protocol

Third year (R3)

Third year (R3) Candidate(s) will be given more responsibilities especially in clinics where he/she will see patients referred from the ORL primary care clinics. He or she will be given an on-call for emergencies cases and expected to participate in the training for the students e.g. out-patient training and ward rounds.

Fourth and Fifth year (R4 and R5)

The R4 and R5 Candidate shall be involved in teaching the R2 and R3 Residents especially at the operating theater and outpatient

Tutorial to the undergraduate students may be given under supervision Of Senior Staff by those who showed the potentials and the interest to be future teachers.
**Evaluation**

The evaluation of the Candidate will be quarterly and a continuous process throughout the entire training period with the following considerations, namely:

a. Satisfactory completion of each of the clinical rotation with regard to academic knowledge, clinical competence and professional behavior

b. Satisfactory attendance and active participation at lectures, tutorials, seminars and other academic activities

c. Satisfactory progress of the operative experience as shown in the log book where all the operations done, assisted or observed by the trainee are entered.

d. Performance at an annual examination which consists of written and oral and clinical parts.

Disciplinary action for unsatisfactory performance or behavior and other provisions will be taken according to the rules and regulations of the Residency training program that were based on the Residency Training Committee recommendations and King Saud University guidelines.

**Other requirements:**

1. Logbook – Candidate is expected to submit their Logbook Summary at the end of each rotation, ideally, the Residency Training Committee advises to submit every 3 months so as to assess their performance and/or evaluation in their training

2. Attendance - The Residency Training Committee requires that the Candidate should not exceed of 20% average absence in all the scientific activities of the training program (Clinical Meeting, Tutorial Meeting, Journal Club Meeting) otherwise, he/she will be allowed to sit in the yearly promotion examination resulting for him / her to repeat the same level of Residency in the following academic year.
3. Other scientific activities – Candidate is as well required to attend other scientific activities including Seminars, Courses, Conference inside or outside the Kingdom including Basic Science Course during their residency level 1 in particular, Temporal Bone Dissection Course, Bronchoesophagoscopy and Laser Course, Rhinoplasty Course and the like.

Rotation

Candidate’s rotations will be approved by the Residency Training Committee prior to the start of each academic year which will be based on the Candidates’ level of residency and the needed exposures.

Elective rotation:

Candidate has the opportunity to select 1 elective rotation which is subject for the approval of the Department’s Residency Training Committee and upon completion of the needed documents in relation to his/her elective rotation in particular the acceptance letter form the hospital and/or training institution he/she would like to be with.

Examination

a) Selection Examination

A yearly selection examination is being held every 2nd Saturday of April each year. Application forms are accepted by the Continuing Medical Education (Postgraduate Center), though the examinations proper – Written and Oral will be held in King Abdulaziz University Hospital or in Saudi Council for Health Specialties premises.

b) Promotion Examination

The promotion examination is comprises of a written that has a 50% bearing and the remaining 50% is allotted to the oral examination mark and includes the hospital evaluation marks of the Candidates.
Other provisions including the attendance of Candidates in their scientific activities, logbook and other incidental requirements with concerns to the training program will be adopted and/or followed and approved by the Residency Training Committee.

The yearly promotion examination of the Candidate will determine if he/she is/are eligible to the next level of Residency in the training program.

c) Final Fellowship Examination

To be eligible to sit in the final examination, the Candidate must complete satisfactory the five years program, pass successfully the annual promotion examinations (as indicated above), complete the logbook and other pertinent requirements in relation to their training.

The examination consists of:

1. Written examination
2. Clinical / Oral examination

The maximum number for sitting the promotion/annual or the final examination is three (3) times in three successive years.

Upon successful completion of the final examination, the Candidate will be awarded the K.S.U. Fellowship in Otorhinolaryngology and Head and Neck Surgery specialty certificate.
APPENDIX I

ANATOMY AND EMBRIOLOGY

1. Anatomy of the ear
2. Embryology and anatomy of the head, neck, face, palate, nose and paranasal sinuses
3. Embryology and anatomy of salivary glands
4. Neuroanatomy for the laryngologist
5. Anatomy of the larynx and tracheo-bronchial tree

PHYSIOLOGY

1. Physics of sound
2. Physiology of auditory system including Eustachian tube
3. Physiology of Equilibrium
4. Physiology of the nose and paranasal sinuses
5. Physiology of the mouth, pharynx and oesophagus
6. Physiology of salivary gland
7. Physiology of the larynx
8. Generation and reception of speech
9. Physiology of the respiratory tract
10. Neurophysiology for the parathyroid
11. Physiology of thyroid and parathyroid
12. Basic principles of cellular metabolism
13. Physiology of shock
14. Blood clotting
HISTOLOGY AND PATHOLOGY

1. Histology and pathology of the ear
2. Histology and pathology of the nose and paranasal sinuses
3. Histology and pathology of the throat, larynx, oesophagus, tracheo-bronchial tree and thyroid
4. Fluid and electrolytes
5. Wound healing
6. Shock
7. Basic immunology and allergy
8. Microbiology:
   Bacteriology: basic and applied to ORL
   Viral disease or O.R.L.
   Mycoses
9. Antimicrobial therapy
10. Staging classification
11. Nutritional management of head and neck cancer
12. Haematology

RADIOLOGY

1. Radiology of temporal bone
2. Radiology of the nose and paranasal sinuses
3. Radiology of salivary glands
4. Radiology of lungs and tracheo-bronchial tree
5. Advanced Radiology in O.R.L.
APPENDIX II

AUDIOLOGY AND SPEECH PATHOLOGY

1. Clinical examination of aural infection
2. Diagnostic audiometry
3. Objective tests of hearing
4. Diagnostic tests of balance
5. Audiological rehabilitation
6. Hearing aids
7. Cochlear implant
8. Noise balance disorders
9. Tinnitus
10. Speech Disorders

OTOLOGY

1. Diseases of external ear, congenital, trauma, infection, otalgia, tumor and cyst
2. Disease of the middle ear, congenital, trauma, infection, otosclerosis, tumours and facial nerve disorders
3. Disease of the inner ear and retrocochlear region:
   Labyrinthitis, sensorineural hearing loss, sudden deafness, vertigo, acoustic tumour
4. Skull base: neoplasm and operative procedure
RHINOLOGY / FACIAL PLASTIC

1. Congenital defects of the nose
2. Infection and granuloma nose and sinuses
3. Trauma
4. Epistaxis
5. Allergy and nasal polyps
6. The nasal septum
7. Tumour of nose and sinuses
8. Endoscopy of nose and sinuses
9. Abnormalities of the smell
10. Rhinoplasty
   a) closure of septal perforation
   b) scar revision
11. Headache and facial pain
12. Transsphenoidal hypophysectomy

ORAL AND PHARYNGEAL DISEASES

1. Congenital, trauma, inflammation, neoplasm of salivary glands
2. Diseases of the pharynx and oesophagus
3. Neck mass
4. Diseases of the larynx
5. Tracheostomy
6. Neck spaces infection
7. Lower respiratory condition in
8. Surgery of thyroid and parathyroid
RADIOTHERAPY

1. Principles of radiotherapy in O.R.L.
2. Basic principles of chemotherapy
3. Chemotherapy in O.R.L.

ANAESTHESIA

1. General anaesthesia for O.R.L. procedure
2. Local and regional block anaesthesia for ORL procedures
3. Intensive care and resuscitation in ORL

MISCELLANEOUS

1. Laser in O.R.L.
2. Cryosurgery in O.R.L.
APPENDIX III

CONTENT OF THE LOGBOOK

I. Operations to be Performed by the Resident

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Minimum Number</th>
</tr>
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<tbody>
<tr>
<td>1. Tonsillectomy</td>
<td>100</td>
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<tr>
<td>2. Adenoidectomy</td>
<td>100</td>
</tr>
<tr>
<td>3. Nasal polypectomy + FESS</td>
<td>30</td>
</tr>
<tr>
<td>4. Partial turbinectomy</td>
<td>50</td>
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<tr>
<td>5. Myringotomy and Ventilation tube insertion</td>
<td>30</td>
</tr>
<tr>
<td>6. Submucous diathermy</td>
<td>10</td>
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<tr>
<td>7. Direct and microlaryngoscopy</td>
<td>16</td>
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<tr>
<td>8. Examination and biopsy of the nasopharynx</td>
<td>8</td>
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<tr>
<td>9. Submucous resection</td>
<td>30</td>
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<tr>
<td>10. Septoplasty</td>
<td>50</td>
</tr>
<tr>
<td>11. Oesophagoscopy and Bronchoscopy</td>
<td>16</td>
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<tr>
<td>12. Tympanoplasty</td>
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<tr>
<td>13. Mastoidectomy</td>
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<tr>
<td>14. Tracheostomy</td>
<td>20</td>
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<tr>
<td>15. Turbinate Procedure</td>
<td>20</td>
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<tr>
<td>16. Removal of the F.B. - Nose</td>
<td>20</td>
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<tr>
<td>- Ear</td>
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</tbody>
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II. Operations to be observed and assisted by the surgeon

1. Salivary gland surgery
2. Laryngectomy
3. Dissection of the neck
4. Rhinoplasty
5. Stapedectomy (tympanotomy)