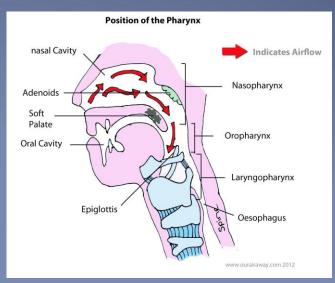
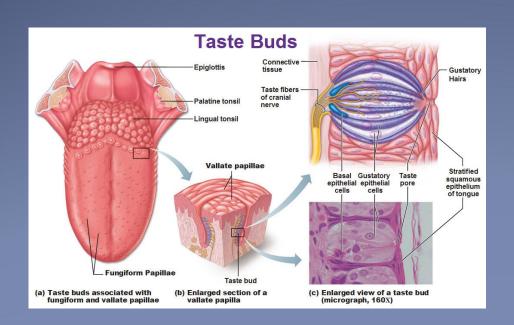


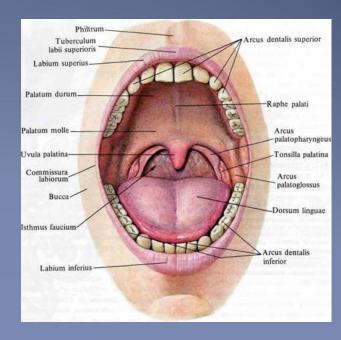
MAJA ŠEREG BAHAR

- THE PHARYNX IS MUSCULAR TUBE,
- IN FRONT OF THE SPINE,
- FROM THE BASE OF SKULL, TO THE UPPER OESOPHAGEAL SPHINCTER / C 6
- PHARYNGEAL FASCIA
- SPINE PREVERTEBRAL MUSCLES PREVERTEBRAL FASCIA
- FASCIAL SPACES / PARAPHARYNGEAL, RETROPHARYNGEAL /

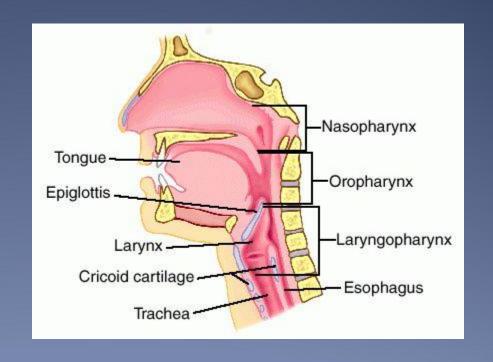


- ISTHMUS FAUCIUM: ORAL CAVITY / PHARYNX
- SOFT PALATE AND UVULA
- ARCUS PALATOPHARYNGEUS, FAUCIAL PILARS
- PAPILLAE VALLATE

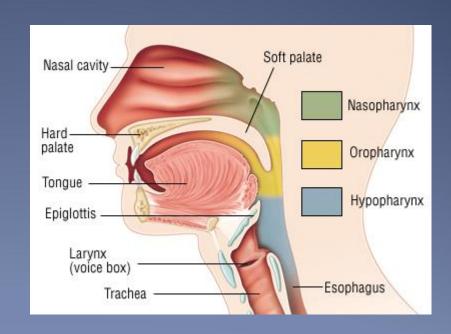




- IN FRONT OF PHARYNX:
- NASAL CAVITY
- ORAL CAVITY
- LARYNX
- BEHIND PHARYNX:
- SPINE

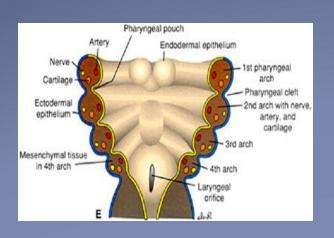


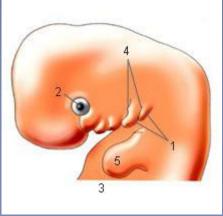
- NASOPHARYNX EPIPHARYNX
- OROPHARYNX
- HYPOPHARYNX

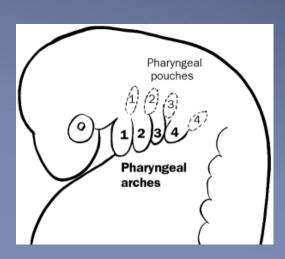


PHARYNX - EMBRIOLOGY

- PHARYNX CRANIAL PART OF DIGESTIVE TUBE
- ON ABDOMINAL PART OF TEH EMBRIO IS PRIMITIVE INTESTINE
- UNDER THE EYES SCHEME DRAFT FOR PRIMITIVE MOUTH
- PHARYNGEAL POUCHES
- PHARYNGEAL ARCHES



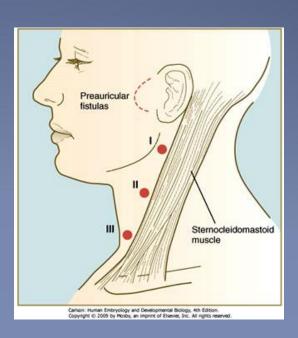




- CONGENITAL ANOMALIES
- PREAURICULAR CYST, FISTULAE
- LATERAL NECK, CERVICAL CYST / BRANCHIAL, FISTULAE
- MEDIAN CERVICAL CYSTS AND FISTULAE







PHARYNX - ANATOMY

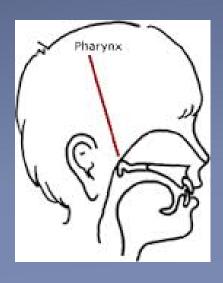
- THE TUBE OF THE ENTIRE PHARYNX CONSITS OF FOUR LAYERS:
 - <u>EPITHELIAL LINING</u>: STRATIFIED SQUAMOS EPITHELIUM AND RESPIRATORY CILIATED EPITHELIUMI
 - FIBROUS LAYER
 - MUSCLE LAYER
 - MUSCULUS CONSTRICTOR PHARYNGIS SUPEROIOR
 - MUSCULUS CONSTRICTOR PHARYNGIS MEDIUS
 - MUSCULUS CONSTRICTOR PHARYNGIS INFERIOR
 - OUTER FASCIA ADVENTITIA

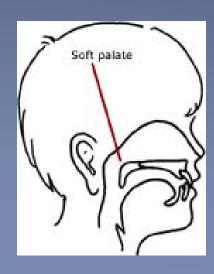
PHARYNX - ANATOMY

- MUSCLES:
- FROM THE BASE OF THE SKULL DOWNWARD
- FROM FIBROUS STRIP ON POSTERIOR PHARYNGEAL WALL
- ANTERIORLY ATTACHED TO THE SPHENOID BONE
- ON THE TONGUE
- HYOID BONE
- LARYNGEAL CARTILAGE
- THEY OVERLAP
- UPPER PHARYNGEAL CONSTRICTOR FORMS VELOPHARYNGEAL CLOSURE: VPC = CLOSURE OF THE NASOPHARYNX FROM THE OROPHARYNX AT SPEECH AND SWALLOWING

VELOPHARYNGEAL CLOSURE - VPC

- SOFT PALATE RAISE TOWARDS POSTERIOR PHARYNGEAL WALL
- SUPERIOIR PHARYNGEAL CONSTRICTOR CONTRACTS RIDGE
- PASSAGE FROM THE NASOPHARYNX TO THE OROPHARYNX IS CLOSED





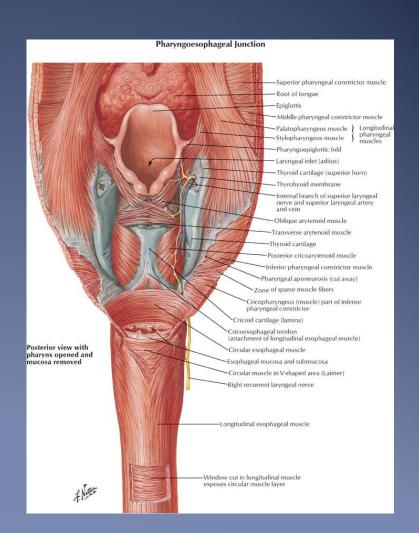
VELOPHARYNGEAL CLOSURE – SOFT PALATE AND POSTERIOIR PHARYNGEAL WALL - PASSAVANT RIDGE



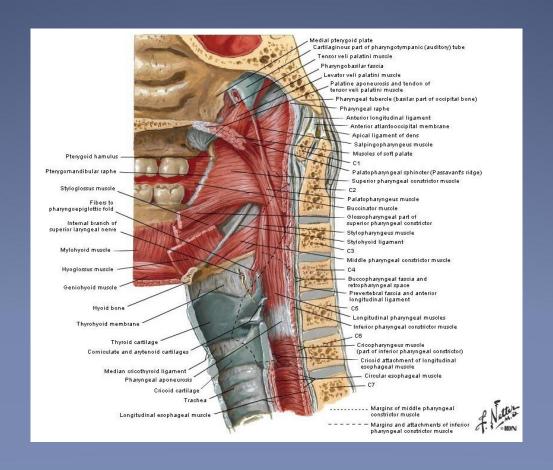


PHARYNX - MUSCLES

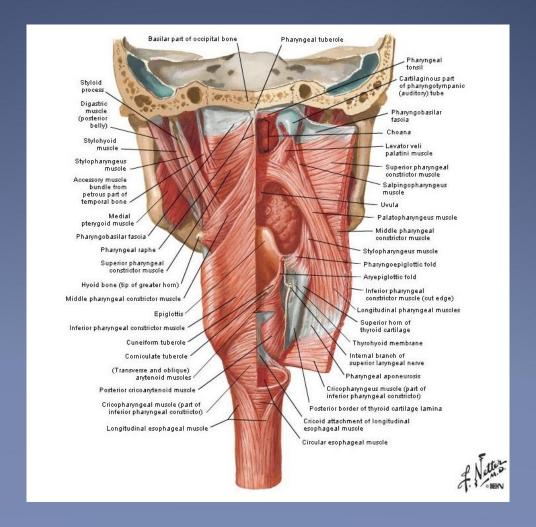
- CONSTRICTOR PHARYNGIS INF.:
- ATTACHED ON LARYNGEAL CARTILAGE
- =UPPER ESOPHAGEAL SPHINCTER



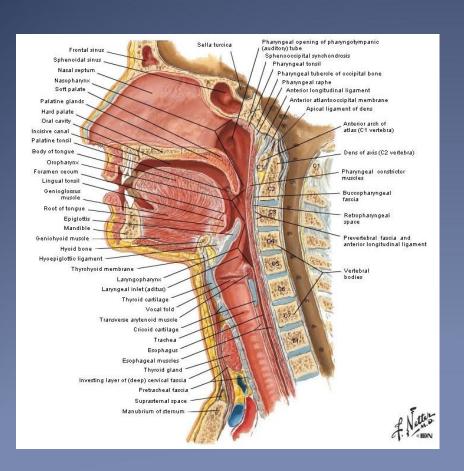
PHARYNX – ANATOMY: PHARYNGEAL MUSCLES



PHARYNX – ANATOMY: PHARYNGEAL MUSCLES



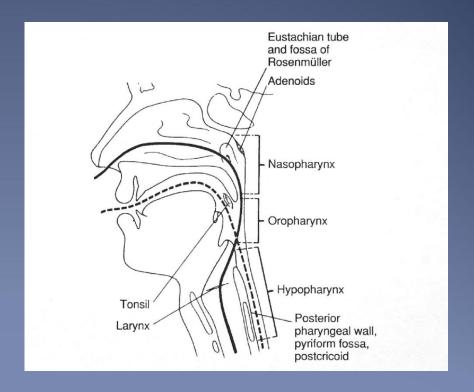
PHARYNX – ANATOMY



- NASOPHARYNX (EPIPHARYNX)
- OROPHARYNX (MESOPHARYNX)
- LARYNGOPHARYNX (HYPOPHARYNX)

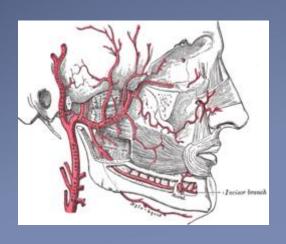
PHARYNX – ANATOMY

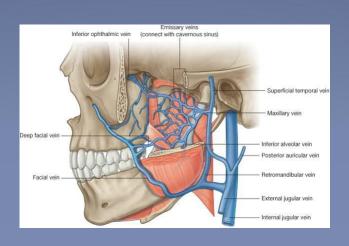
- NASOPHARYNX (EPIPHARYNX)
- OROPHARYNX (MESOPHARYNX)
- LARYNGOPHARYNX (HYPOPHARYNX)

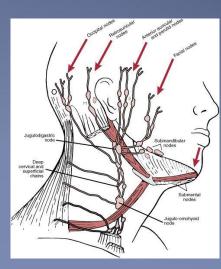


PHARYNX – ANATOMY: VASCULAR SUPPLY

- ARTERIAL SUPPLY
- VENOUS DRAINAGE
- LYMPHATIC DRAINAGE

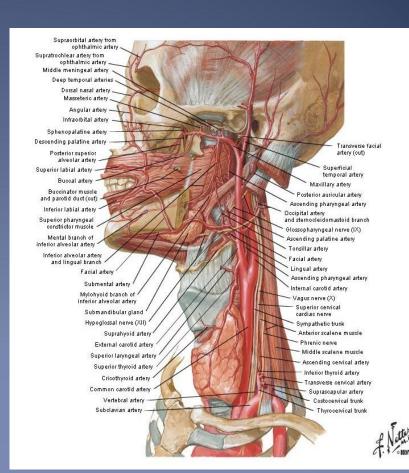




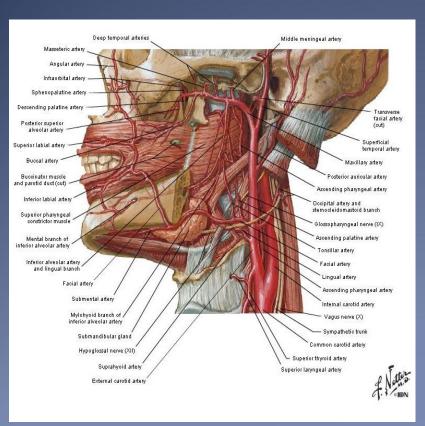


PHARYNX - ANATOMY: VASCULAR SUPPLY

- ARTERIAL SUPPLY:
 - A. CAROTIS EXTERNA:
 - A. PHARY. ASCENDENS
 - A. FACIALIS A. PALATINA ASCENDENS
 - A. MAXILARIS A. PALATINA DESCENDENS
 - A. CAROTIS INTERNA:
 - A. ETHMOIDALIS (SMALL PART OF NASOPHARYNX)



PHARYNX – ANATOMY: VASCULAR SUPPLY

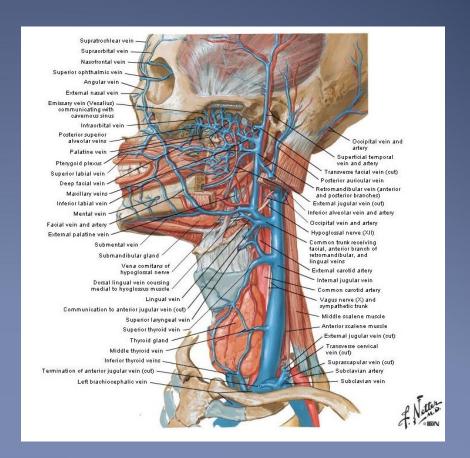


ARTERIAL SUPPLY:

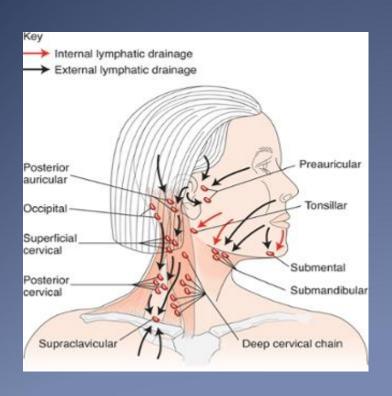
- A. CAROTIS EXTERNA:
 - A.PHARY. ASCENDENS
 - A. FACIALIS A. PALATINA ASCENDENS
 - A. MAXILARIS A. PALATINA DESCENDENS
- A. CAROTIS INTERNA:
 - A. ETHMOIDALIS (SMALL PART OF NASOPHARYNX)

PHARYNX – ANATOMY: VASCULAR SUPPLY

- VENOUS DRAINAGE:
 - VENOUS PLEXUS:
 - PHARYNGEAL VEINS INTERNAL JUGULAR VEIN



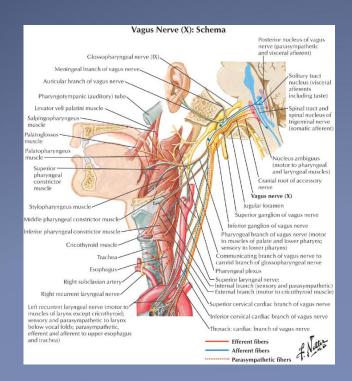
PHARYNX – ANATOMY: LYMPHATIC DRAINAGE

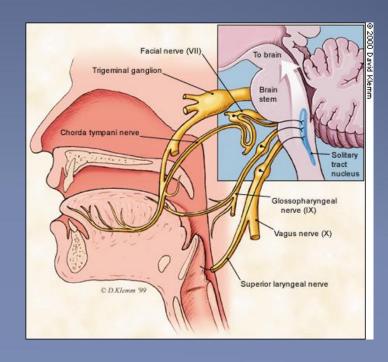


- 1. NASOPHARYXN AND LATERAL WALLS OF OROPHARYNX:
- RETROPHARYNGEAL LYMPH NODES
- DEEP JUGULAR LYMPH NODES
- 2: OROPHARYNX AND TONSILLES
- SUBMANDIBULAR LYMPH NODES

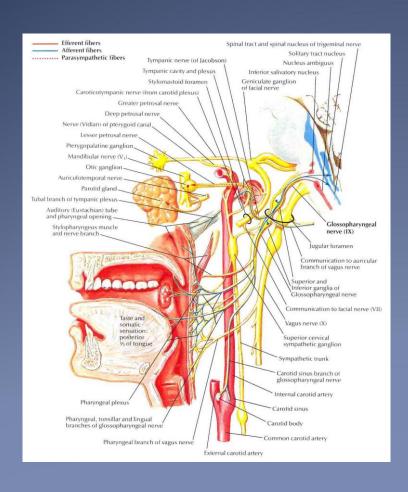
PHARYNX – ANATOMY: NERVE SUPPLY

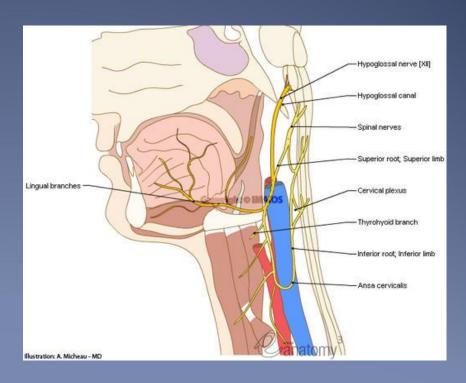
- MOTOR SUPPLY:
 - PLEXUS PHARYNGEUS (IX N. GLOSSOPHARYNGEUS, X N. VAGUS, XI N. ACCESORIUS)
 - N. HIPOGLOSSUS = N. XII



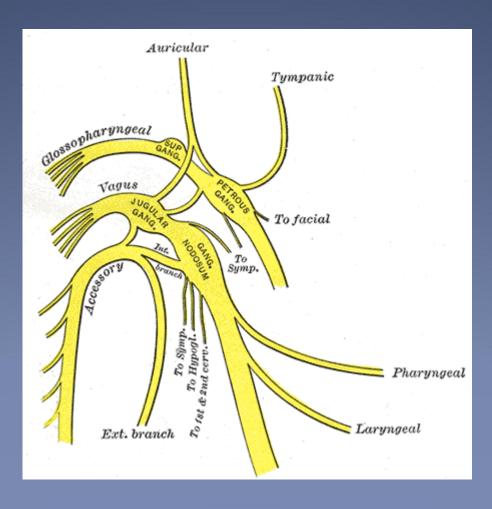


N. GLOSSOPHARYNGEUS AND N. HYPOGLOSSUS



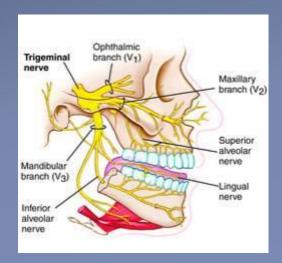


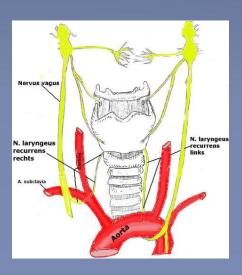
CRANIAL NERVES – PHARYNGEAL NERVE SUPPLY



PHARYNX – ANATOMY: NERVE SUPPLY

- SENSORY NERVE SUPPLY:
 - EPIPHARYNX: N.V. N. TRIGEMINUS, MAXILARY DIVISION
 - OROPHARYNX: N. IX. GLOSSOFARINGEUS
 - HYPOPHARYNX: N. X. VAGUS
 - TASTE: CHORDA TYMPANI, DIVISION OF N. VII. N. FACIALIS

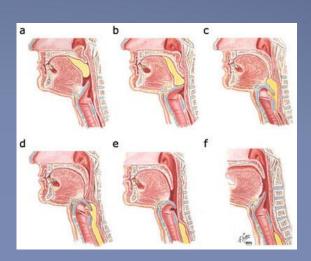




PHARYNX - PHISIOLOGY

- SWALLOWING APPARATUS, MASTICATORY SYSTEM
- RESPIRATORY TRACT
- TASTE ORGAN, PREGASTRIC DIGESTION
- RESONATING SPACE
- ARTICULATION
- LYMPHOEPITHELIAL RING
- VENTILATION OF THE MIDDLE EAR
- VELOPHARYNGEAL CLOSURE

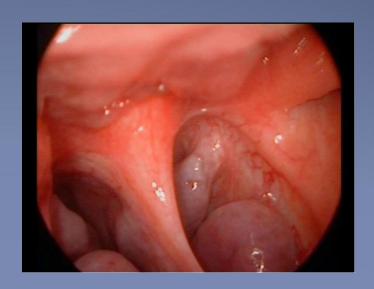




PHARYNX – PHISIOLOGY: EPIPHARYNX



- RESPIRATORY TRACT
- RESONATING SPACE
- E. TUBE VENTILATION
- LYMPHOEPITHELIAL RING-ADENOIDES



PHARYNX – PHISIOLOGY: EPIPHARYNX – SOFT PALATE; VELOPHARYNGEAL CLOSURE

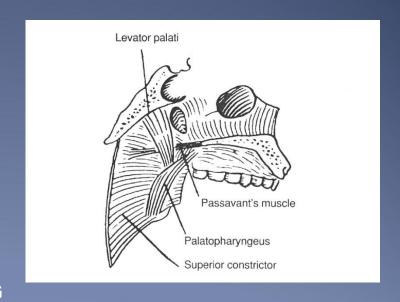
VELOPHARYNGEAL CLOSURE:

SOFT PALATE:

- M. PALATOPHARYNGEUS
- M. PALATOGLOSUS
- UVULA

OROPHARYNX:

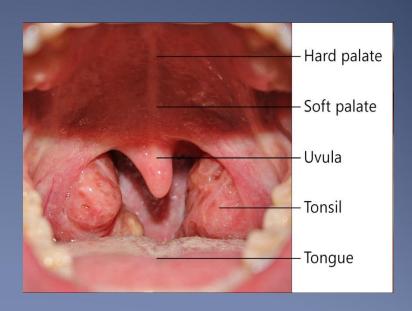
- M. CONSTRICTOR PHARYNGIS SUP. (PASSAVANT RIDGE)
- M. LEVATOR PALATI MOLLI
- TENSOR VELI PALATINI (AND OPENING OF THE E. TUBE)



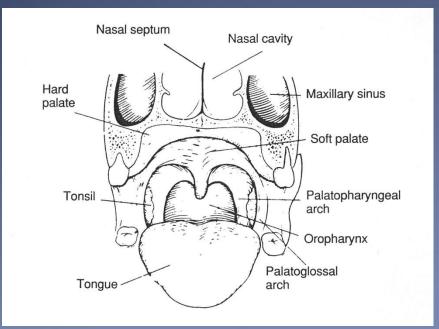
PHARYNX – PHISIOLOGY: OROPHARYNX

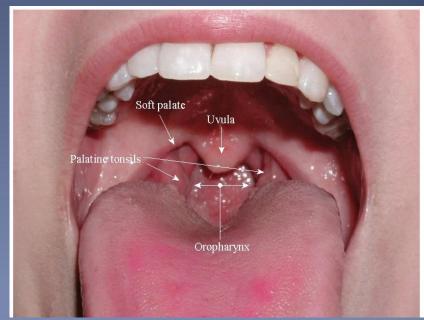
OROPHARYNX:

- RESPIRATORY TRACT
- EATING AND SWALLOWING
- LYMPHOEPITHELIAL ORGAN (PALATINE TONSIL, LINGUAL TONSIL)
- FORMATION OF SOUND AND SPEECH



PHARYNX – PHISIOLOGY: OROPHARYNX

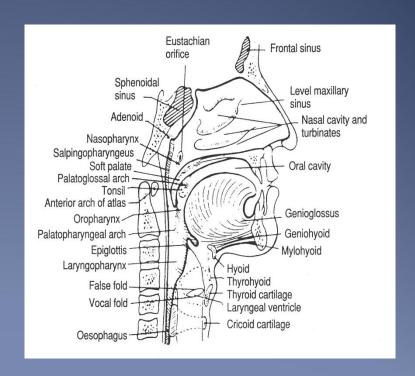




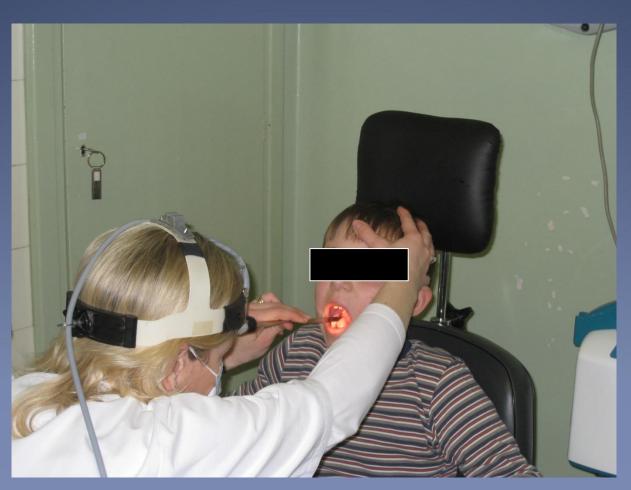
PHARYNX – PHISIOLOGY: HYPOPHARYNX

HYPOPHARYNX:

- SWALLOWING
- LARYNGEAL FRAME SUPPORT
- LARYNGEAL MOVING
- RESPIRATORY TRACT
- RESONATING SPACE



METHODS OF INVESTIGATION: OROPHARYNX



METHODS OF INVESTIGATION: HYPOPHARYNX



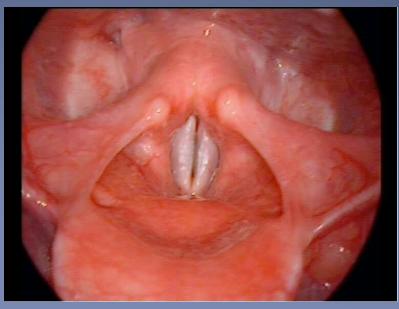


METHODS OF INVESTIGATION: HYPOPHARYNX

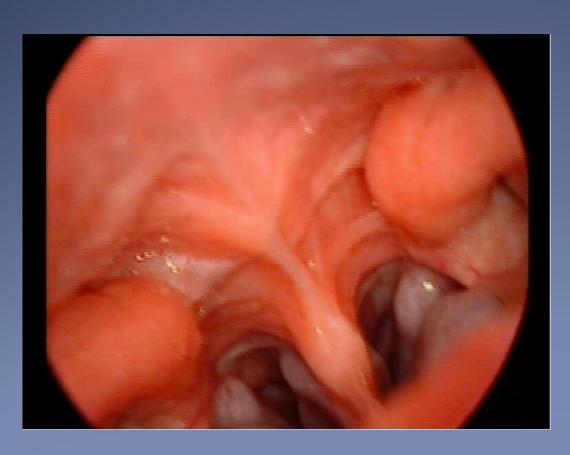


HYPOPHARYNX, LARYNX, ESOPHAGEAL INLET





METHODS OF INVESTIGATION: NASOPHARYNX













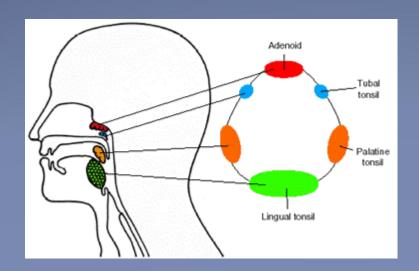






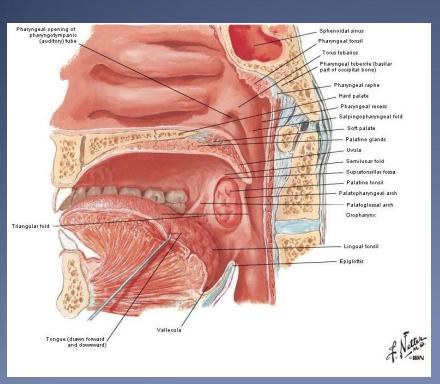
PHARYNX – PHISIOLOGY: LYMPHOEPITHELIAL RING

- WALDEYER RING:
 - TONSILLAE PALATINAE (PAIR OF TONSILLS)
 - VEGETATIAE ADENOIDES (ADENOIDS)
 - TONSILLAE LINGUALIS
 - TUBAL TONSIL (PAIR AT EUST. OSTIUM)
 - SMALL UNITS OF LYMPHATIC TISSUE





PHARYNX – PHISIOLOGY: LYMPHOEPITHELIAL RING



WALDEYER LYMPHATIC RING:

- TONSILLAE PALATINE
- VEGETATIAE ADENOIDES
- TONSILLA LINGUALIS
- TONSILA TUBARIS
- SMALL UNITS OF LYMPHATIC TISSUE –
 SOLITARY NODES IN MUCOSA

IMMUNOLOGICAL FUNCTION OF WALDEYER RING

 SYSTEMIC IMMUNITY: PRODUCTION OF IMMUNOACTIVE LYMPHOCITES OF THE B AND T SERIES WHICH ARE RELEASED INTO THE GENERAL CIRCULATION OF THE BLOOD AND LYMPHATIC VESSELS

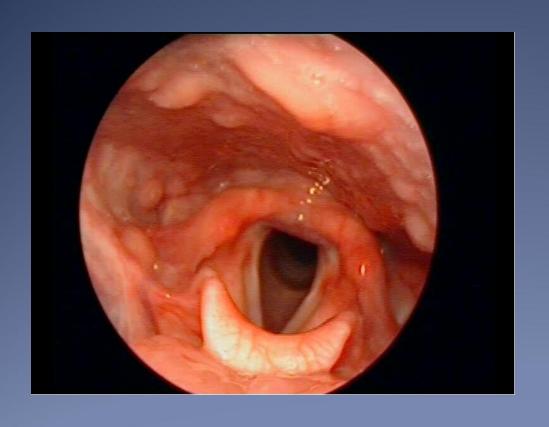
 DIRECT IMMUNITY: LOCAL DECOMPOSITION OF ANTIGENS WITH SECRETORY IMMUNE MECHANISM: IgA, PLASMA CELLS...

TONSILLAR HYPERPLASIA IN CHILDREN



- AFTER INCREASED IMMUNOLOGICAL ACTIVITY
- NUMEROUS UPPER RESPIRATORY TRACT INFECTIONS

SOLITARY LYMPH NODES IN MUCOSA





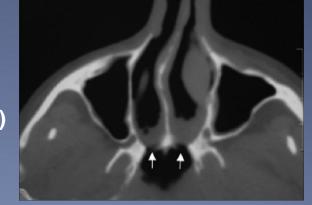
CLINICAL ASPECTS OF DISEASES OF THE PHARYNX

- CONGENITAL ANOMALIES
- TRAUMA, ALSO CAUSED BY MEDICAL PROCEDURES
- BURNS
- FOREIGN BODIES
- INFLAMMATION:
 - ACUTE
 - CHRONIC
 - COMPLICATIONS
- TUMORS:
 - BENIGN
 - MALIGNANT
- CONDITIONS AFTER OPERATOINS
- NEUROLOGICAL DISEASES

CLINICAL ASPECTS OF DISEASES OF THE PHARYNX 1. CONGENITAL ANOMALIES

 NASOPHARYNX: (DISOREDRS IN THE NOSE ALSO AFFECT ON NASOPHARYNX: SPINA, CRISTA SEPTI NASI)

- ATRESIA CHOANALIS (ONE SIDE, BOTH SIDES)
- STENOSIS CHOANALIS



- ENCEPHALOCOELAE, MENINGOENCEPHALOCOELAE
- INBORN TUMORS OF THE NASOPHARYNX (TERATOMAS)

CLINICAL ASPECTS OF DISEASES OF THE PHARYNX 1. CONGENITAL ANOMALIES

OROPHARYNX:

- ATRESIA AND STENOSIS (PHARYNX IS NOT DEVELOPED OR IS VERY NARROW), VERY RARE
- PALATAL CLEFTS



HYPOPHARYNX:

 PRACTICALY THERE ARO NO EMBRIONAL DISORDERS, SOMETIMES THEY ARE MULTIORGANIC (OESOPHAGUS, TRACHEA – EXTENSIVE OPERATIONS, SURVIVAL??)

CLINICAL ASPECTS OF DISEASES OF THE PHARYNX

- CONGENITAL ANOMALIES
- TRAUMA, ALSO CAUSED BY MEDICAL PROCEDURES
- BURNS
- FOREIGN BODIES
- INFLAMMATION:
 - ACUTE
 - CHRONIC
 - COMPLICATIONS
- TUMORS:
 - BENIGN
 - MALIGNANT
- CONDITIONS AFTER OPERATOINS
- NEUROLOGICAL DISEASES

CLINICAL ASPECTS OF DISEASES OF THE PHARYNX 2. TRAUMA, ALSO CAUSED BY MEDICAL PROCEDURES

- LIMITED (ONLY PHARYNGEAL STRUCTURES):
 - INCISION, LACERATION (TOOTHBRUSH, TOYS, CUTLERY, SHARP OBJECTS)
 - WOUNDS AFTER ADENOID OPERATION (SOFT PALATE EXTENDED)
 - WOUNDS AFTER TONSILLECTOMY (EXTENSION, LACK OF TISSUE),
 AFTER LARGE TUMORS OPERATIONS
 - LACERATIONS AFTER INTUBATION
 - CONDITIONS AFTER SNORING OPERATIONS

OROPHARYNGEAL TRAUMA: TOOTHBRUSH PENETRATING

LATERAL PHARYNGEAL WALL



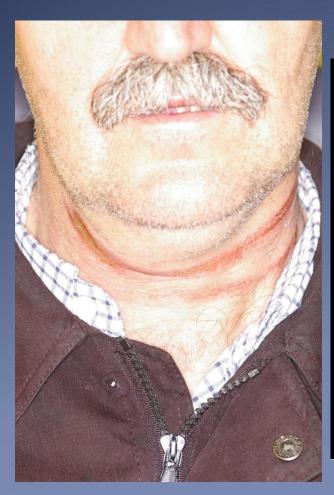


PHARYNGEAL TRAUMA: CUT ON THE NECK





PHARYNGEAL TRAUMA: HANGING





PHARYNGEAL TRAUMA: AFTER SNORING OPERATION







CLINICAL ASPECTS OF DISEASES OF THE PHARYNX

- CONGENITAL ANOMALIES
- TRAUMA, ALSO CAUSED BY MEDICAL PROCEDURES
- BURNS
- FOREIGN BODIES
- INFLAMMATION:
 - ACUTE
 - CHRONIC
 - COMPLICATIONS
- TUMORS:
 - BENIGN
 - MALIGNANT
- CONDITIONS AFTER OPERATOINS
- NEUROLOGICAL DISEASES

CLINICAL ASPECTS OF DISEASES OF THE PHARYNX 3. BURNS 4. FOREIGN BODIES

NASOPHARYNX: RARE



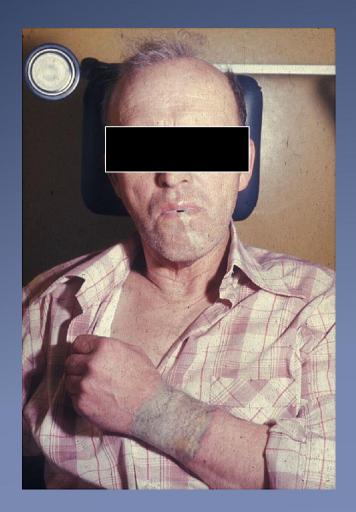
OROPHARYNX:

- FOREIGN BODIES: BONES, NEEDLES, DENTAL MATERIAL
- BURNS: HEAT, ACID, ALKALI (FIRST AID!)

HYPOPHARYNX:

- FOREIGN BODIES: BIG PIECES OF FOOD, BONES, TABLETS,...
- BURNS: HEAT, ACID, ALKALI (FIRST AID!)

PHARYNGEAL TRAUMA: BURNS, ACID, ALKALI











FOREIGN BODIES







CLINICAL ASPECTS OF DISEASES OF THE PHARYNX

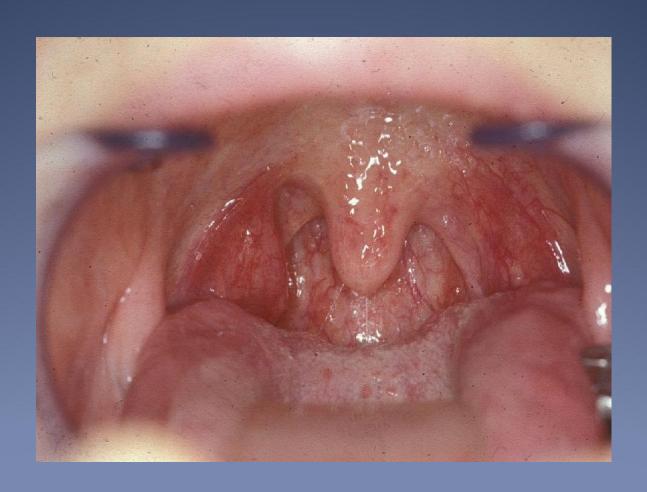
- CONGENITAL ANOMALIES
- TRAUMA, ALSO CAUSED BY MEDICAL PROCEDURES
- BURNS
- FOREIGN OBJECTS
- INFLAMMATION:
 - ACUTE
 - CHRONIC
 - COMPLICATIONS
- TUMORS:
 - BENIGN
 - MALIGNANT
- CONDITIONS AFTER OPERATOINS
- NEUROLOGICAL DISEASES

CLINICAL ASPECTS OF DISEASES OF THE PHARYNX 5. INFLAMMATION, ACUTE

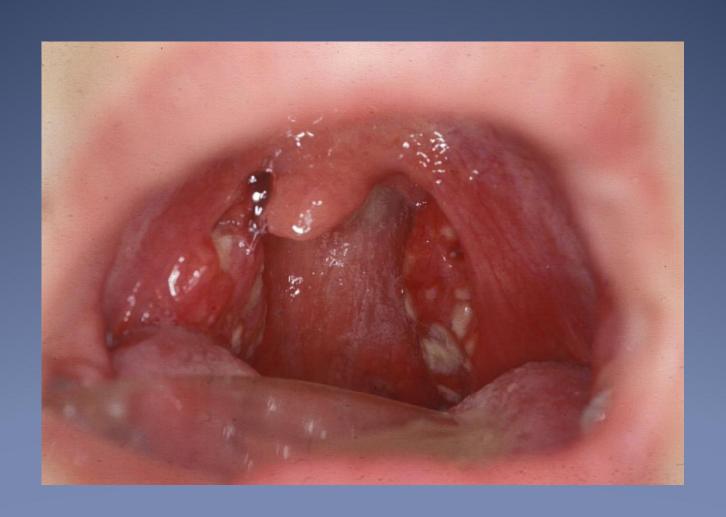
- ACUTE: MOSTLY IN THE OROPHARYNX
 - CATHARAL
 - PURULENT
 - ULCEROUS
- WHAT KIND OF ACUTE INFLAMMATION WILL DEVELOP, DEPENDS ON VIRULENCE OF THE AGENT AND THE IMMUNITY OF THE HOST.
- ACUTE TONSILLITIS
- ADENOIDITIS ACUTA (CHILDREN, SEVERELY ILL).
- ACUTE INFLAMMATION OF LINGUAL TONSIL; (DIFFICULT SWALLOWING, BREATHING)

CLINICAL ASPECTS OF DISEASES OF THE PHARYNX 5. INFLAMMATION, TONSILLITIS

- ACUTE INFLAMMATION OF PHARYNGEAL MUCOSA, MOSTLY TONSILS
 - CATHARAL / VIRAL INFLAMMATION
 - FOLICULAR
 - LACUNAR
 - ULCEROUS
 - PURULENT / ANGINA / STREPTOCOCUS













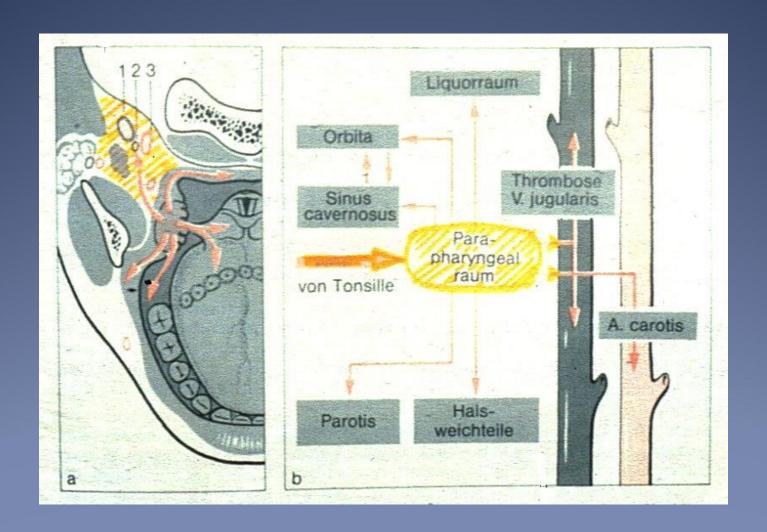
CLINICAL ASPECTS OF DISEASES OF THE PHARYNX 5. INFLAMMATION, ACUTE COMPLICATIONS

GENERAL:

- ACUTE NEPHRITIS
- RHEUMATIC INFLAMMATION
- ACUTE PERICARDITIS, ENDOCARDITIS
- SEPTICEMIA

LOCAL:

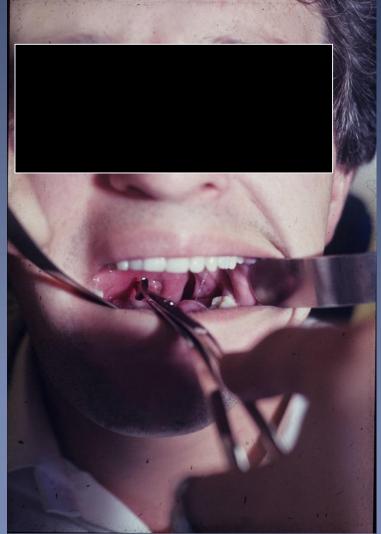
- PERITONSILLAR ABSCESS
- PARAPHARINGEAL ABSCESS
- RETROPHARINGEAL ABSCESS



CLINICAL ASPECTS OF DISEASES OF THE PHARYNX 5. INFLAMMATION, ACUTE COMPLICATIONS - LOCAL

- PERITONSILLAR ABSCESS: RARELY BILATERAL
 - ACUTE TONSILLITIS
 - GENERAL CONDITION DETERIORATES RAPIDLY
 - INCREASING DIFFICULTY IN SWALLOWING
 - PAIN IRRADIATES TO THE EAR
 - THICK SPEECH
 - TRISMUS
 - SIALORRHEA, ORAL FETOR
 - SWELLING OF THE REGIONAL LYMPH NODES
 - TREATMENT:
 - DRAINAGE OF THE ABSCESS TRANSORAL
 - HIGH DOSES OF ANTIBIOTICS (PENICILLIN + ANAEROBIC)





CLINICAL ASPECTS OF DISEASES OF THE PHARYNX 5. INFLAMMATION, ACUTE COMPLICATIONS - LOCAL

- PARAPHARYNGEAL ABSCESS:
 - QUICK CLINICAL COURSE
 - GENERAL CONDITION DETERIORATES RAPIDLY
 - INCREASING RESPIRATORY OBSTRUCTION
 - FEELING OF PRESSURE IN THE NECK, DIFFICULT MOVING
 - SWOLLEN AND STIFF NECK
- RETROPHARYNGEAL ABSCESS:
 - SPINE INFLAMMATION OSTEOMIELITIS, TBC ADULTS
 - RETROPHARYNGEAL LYMPH NODE INFLAMMATION
 - LYMPH NODES BESIDE SPINE ESPECIALLY IN CHILDREN < 2 YEARS</p>
 - TREATMENT: DRAINAGE OF THE ABSCESS THROUGH THE NECK
 - HIGH DOSES OF ANTIBIOTICS (PENICILLIN + ANAEROBIC), SWAB, ANTIBIOGRAM



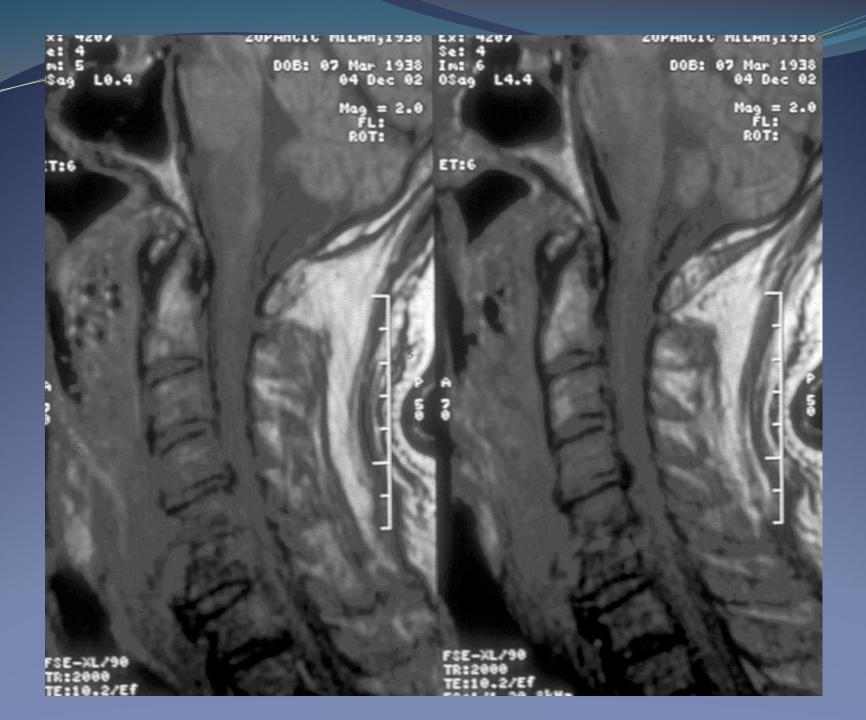












CLINICAL ASPECTS OF DISEASES OF THE PHARYNX 5. INFLAMMATION, CHRONICAL

- CHRONIC INFLAMMATION OF THE PHARYNGEAL MUCOSA, ESPECIALLY OROPHARYNGEAL:
- CATHARAL, ATROPHIC, HYPERTROPHIC
 - PHARYNGITIS CHRONICA
 - CHRONIC SPECIFIC INFLAMMATION
- CHRONIC INFLAMMATION OF THE ADENOIDES
- CHRONIC INFLAMMATION OF THE TONSILLS:
 - TONSILLITIS CHRONICA (FOCUS OF INFLAMMATION, TONSILLECTOMY?)
 - EPITHELIAL DEFECT
 - TONSILLAR TISSUE → SCAR

CHRONIC PHARYNGITIS

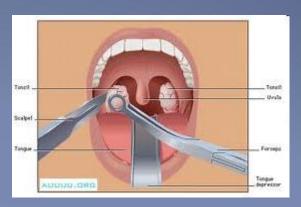


INDICATIONS FOR TONSILLECTOMY:

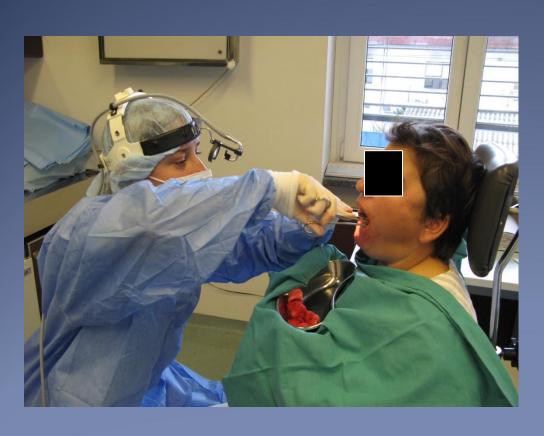
- OSAS MECHANIC OBSTRUCTION
- RECURRENT TONSILLITIS (> 7 YEARLY)
- PERITONSILLAR ABSCESS
- CHRONIC TONSILLITIS
- TONSILLOGENIC SEPTICEMIA
- TONSILLAR TUMOR SUSPECTED
- PFAPA Sy







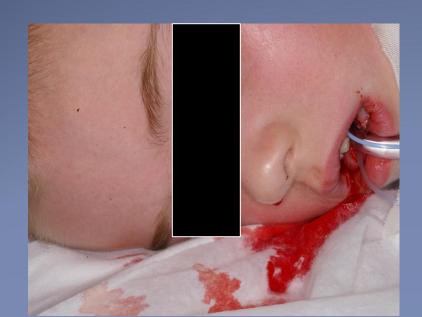
TONSILLECTOMY: ANAESTHESIA – LOCAL, GENERAL

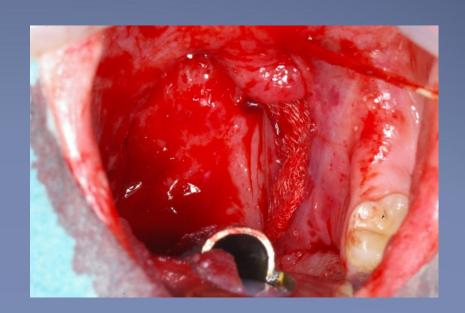












FOCAL INFECTION

- DISSEMINATION OF PATHOLOGIC MATERIAL FROM THE TONSILL:
- MICROORGANISMS, ANTIGENS
- INFLAMMATORY PRODUCTS
- TOXINS INTO THE BLOODSTREAM

 \downarrow

- RHEUMATIC FEVER
- GLOMERULONEPHRITIS AND FOCAL NEPHRITIS
- PSORIASIS
- CHRONIC URTICARIA
- ENDO / MIO / PERICARDITIS POLYSEROSITIS
- INFLAMMATORY DISORDERS OF THE NERVES AND EYES (IRIDOCYCLITIS)
- VASCULAR DISEASE (VASCULITIS)

COMPLICATIONS AFTER TONSILLECTOMY / ADENOIDECTOMY

- HEMORRHAGE TO THE 14 DAY
- PAIN AND DEHIDRATION
- ASPIRATION
- INFLAMMATION OF THE WOUND
- NECK PAIN TORTICOLLIS



- RHINOLALIA APERTA VPI
- DYSPHONIA
- ADHESIONS IN THE NASOPHARYNX AND INJURIES OF THE OSTIUM OF THE EUSTACHIAN TUBE
- INJURIES TO THE CERVICAL SPINE VERY RARELY
- RESIDUE OF THE TISSUE FOCUS
- PHARYNGPATHIA TONSILLOPRIVA CHRONIC ATROPHIC INFLAMMATION

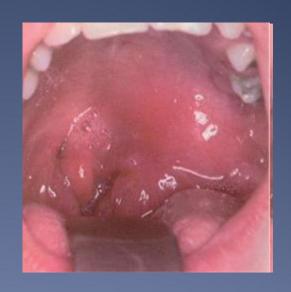


RELATIVE CONTRAINDICATIONS FOR TONSILLECTOMY AND ADENOIDECTOMY

- CLEFT PALATE / TONSILLOTOMY?/
- CONSULTATION! SPEECH AND LANGUAGE THERAPIST / SLP
- ATTENTION SUBMUCOSAL CLEFT PALATE
- DEPTH. OF ORL LJUBLJANA: SHIZA TEAM = PHONIATRICIAN, SLP, MA FA SURGEON, PSYCHOLOGIST, ORTHODONTIST, OTOSURGEON, RHINOSURGEON
- COAGULATION DISORDERS
- ANEMIA AND OTHE BLOOD DISORDERS
- ACUTE DISEASES / VIRAL AND BACTERIAL
- COEXISTING DISORDERS: DIABETES, ... CONSULTATION PEDIATRICIAN

TONSILLAR HYPERTROPHY TONSILL ACUTA PERITONSILLAR ABSCESS







CLINICAL ASPECTS OF DISEASES OF THE PHARYNX 5. INFLAMMATION, CHRONICAL - HYPERPLASIA

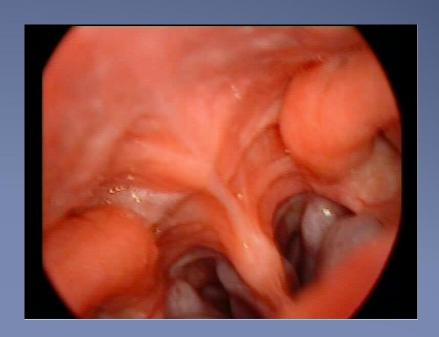
• ADENOID HYPERPLASIA (FREQUENTLY, CHILDREN):

- NASOPHARYNGEAL OBSTRUCTION
- MOUTH BREATHING, NASAL DISCHARGE
- AURAL DISEASES, OBSTRUCTION OF THE EUSTACHIAN TUBE
- CHRONIC MIDDLE EAR CATARHH, CONDUCTIVE DEAFNESS
- CHRONIC ADENOIDITIS AND RECURRENT ACUTE OTITIS MEDIA
- DISEASES OF THE NOSE AND PARANASAL SINUSES
- CHRONIC PURULENT RHINOSINUSITIS
- SNORING
- RHINOLALIA CLAUSA
- OPEN MOUTH,
- MALDEVELOPMENT OF THE UPPER JAW, TEETH
- ADENOID FACE
- DISORDERS OF THE LOWER RESPIRATORY SYSTEM
- MENTAL DEVELOPMENT / HYPOXIA DURING SLEEP

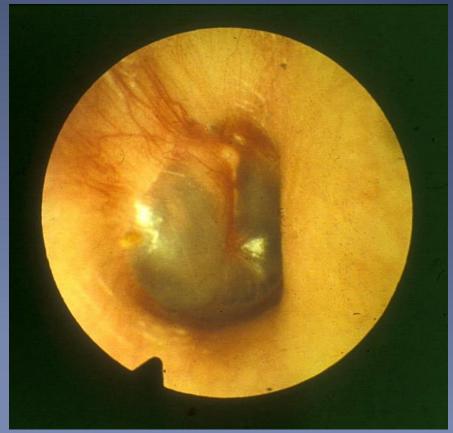


BEFORE AND AFTER ADENOIDECTOMY











CLINICAL ASPECTS OF DISEASES OF THE PHARYNX 5. INFLAMMATION, CHRONICAL - HIPERPLASIA

• TONSILLAR HYPERPLASIA:

- RESPIRATORY OBSTRUCTION
- DIFFICULTY IN SWALLOWING AND EATING
- SPEECH PROBLEMS
- TUMORS ADULTS (LYMPHOMA)

• TONSILLA LINGUALIS HYPERPLASIA:

- RARELY
- ADULTS
- AFTER TONSILLECTOMY
- TUMORS!!!



CLINICAL ASPECTS OF DISEASES OF THE PHARYNX

- CONGENITAL ANOMALIES
- TRAUMA, ALSO CAUSED BY MEDICAL PROCEDURES
- BURNS
- FOREIGN OBJECTS
- INFLAMMATION:
 - ACUTE
 - CHRONIC
 - COMPLICATIONS
- TUMORS:
 - BENIGN
 - MALIGNANT
- CONDITIONS AFTER OPERATOINS
- NEUROLOGICAL DISEASES

CLINICAL ASPECTS OF DISEASES OF THE PHARYNX 6. TUMORS

BENIGN TUMORS:

- NASOPHARYNGEAL ANGIOFIBROMA (MALE, ABOUT AGE OF 10 YEARS)
- FIBROMAS
- HEMANGIOMAS
- PAPILLOMAS







CLINICAL ASPECTS OF DISEASES OF THE PHARYNX 6. TUMORS

- MALIGNANT TUMORS OF THE PHARYNX (DANGEROUS, METASTASING):
 - LOCAL TUMORS:
 - CARCINOMA (FROM EPITHELIUM)
 - LYMPHOMA (FROM LYMPHATIC TISSUE)
 - SARCOMA (FROM THE MIDDLE EMBRIONAL TISSUE FIBROUS, MUSCLES, NERVES)
 - **DISTANT**:
 - PHARYNGEAL METASTASES FROM OTHER PARTS OF THE BODY

CLINICAL ASPECTS OF DISEASES OF THE PHARYNX 6. TUMORS

• RISK FACTORS:

- SMOKING
- ALCOHOL INTAKE
- INAPPROPRIATE CONDITIONS AT THE WORKPLACE
- LARYNGOPHARYNGEAL REFLUX
- GENETIC DISPOSITION

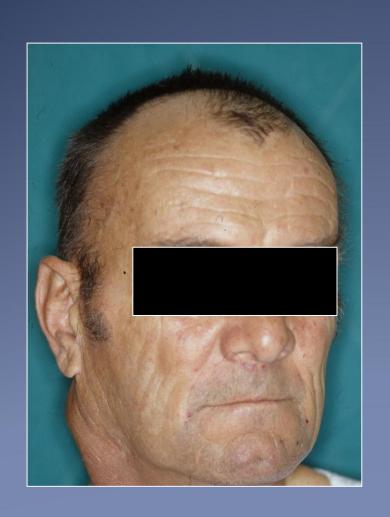
• **SYMPTOMS**:

- FEELING OF THE LUMP IN THE THROAT
- DYSPHAGIA
- HOARSENESS
- DYSPNOE
- BLOODSTAINED SPUTUM
- PAIN IRRADIATING TO THE EAR
- CERVICAL LYMPH NODE METASTASES

CLINICAL ASPECTS OF DISEASES OF THE PHARYNX 6. TUMORS

• TREATMENT:

- SURGICAL
- RADIOTHERAPY
- CHEMOTHERAPY
- PATIENTS COME LATE TO THE DOCTOR: LARYNGECTOMY
- = LOSS OF VOICE





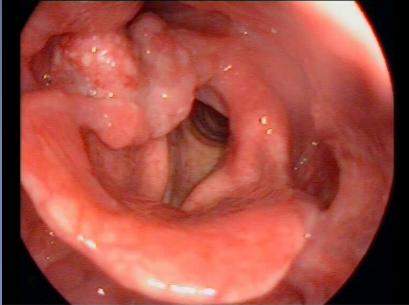












CLINICAL ASPECTS OF DISEASES OF THE PHARYNX

- CONGENITAL ANOMALIES
- TRAUMA, ALSO CAUSED BY MEDICAL PROCEDURES
- BURNS
- FOREIGN BODIES
- INFLAMMATION:
 - ACUTE
 - CHRONIC
 - COMPLICATIONS
- TUMORS:
 - BENIGN
 - MALIGNANT
- CONDITIONS AFTER OPERATOINS
- NEUROLOGICAL DISEASES

CLINICAL ASPECTS OF DISEASES OF THE PHARYNX 7. CONDITIONS AFTER OPERATIONS

TEMPORARY CONDITIONS:

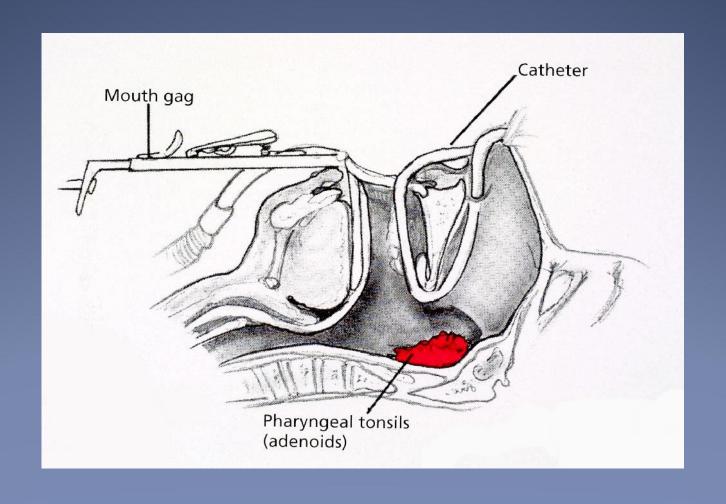
- PAIN
- VELOPHARYNGEAL CLOSURE IMPAIRMENT
- EXTENSION OF THE TISSUE

MAY BE PERMANENT FAILURE

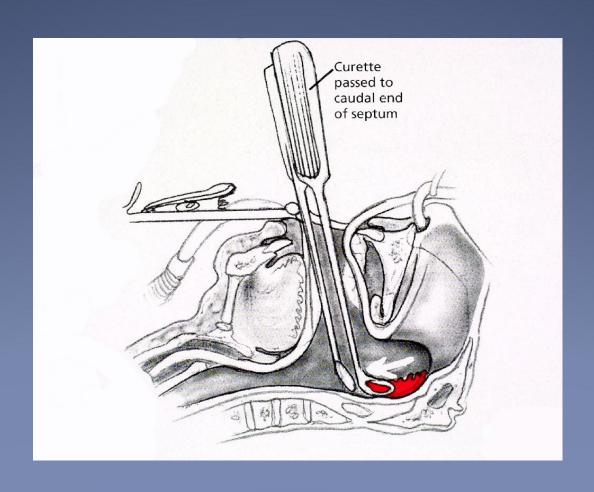
AFTER:

- ADENOIDECTOMY
- TONSILLECTOMY
- SNORING OPERATION
- TUMOR OPERATION

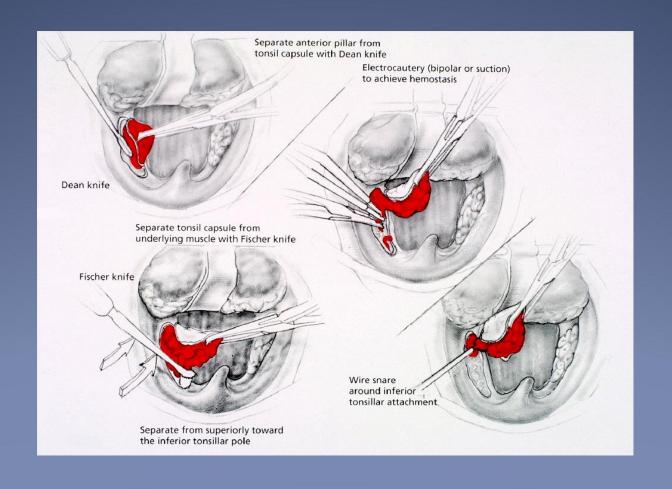
ADENOIDECTOMY



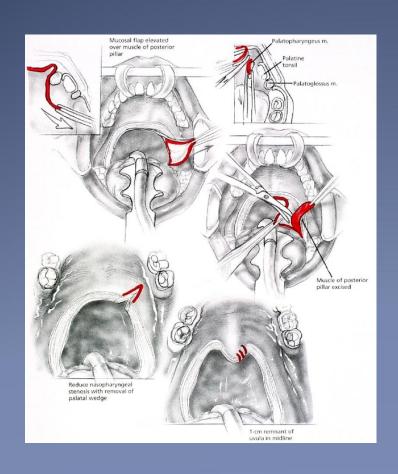
ADENOIDECTOMY

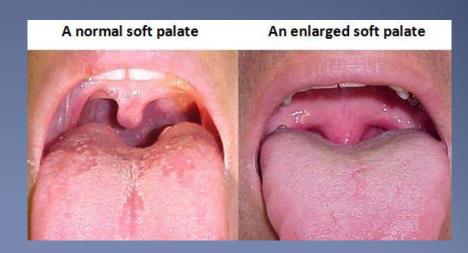


TONSILLECTOMY



SNORING OPERATION, SOFT PALATE





7. CONDITIONS AFTER OPERATIONS, RESEARCH

- VELOPHARYNGEAL INSUFFICIENCY AFTER ADENOTONSILLECTOMY (M. ŠEREG BAHAR, I. HOČEVAR BOLTEŽAR):
 - 430 OPERATED CHILDREN SURVEY
 - YEARLY 800-900 OPERATED CHILDREN
 - 2:1 = ADENOIDECTOMY : TONSILLECTOMY
 - 283 ANSWERS



7. CONDITIONS AFTER OPERATIONS, RESEARCH

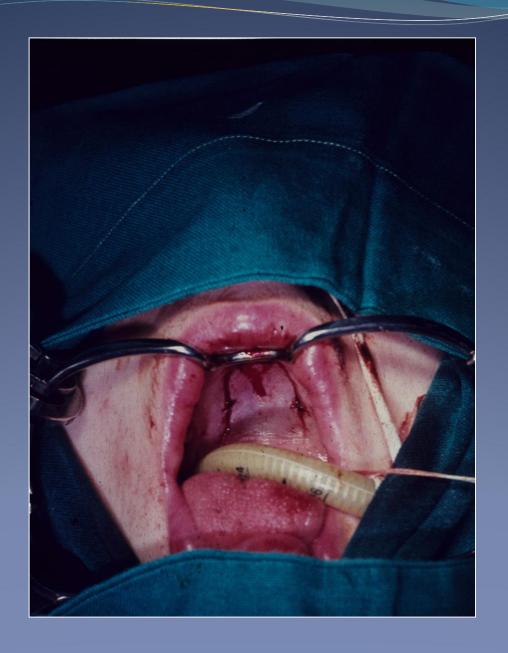
RESULTS:

- 18,7 % CHILDREN HAD RHINOLALIA APERTA AFTER OPERATION
- 6,4 % STILL SNUFFLED AT THE TIME OF THE SURVEY
- IN 6% CHILDREN FOOD ESCAPED THROUGH THE NOSE AFTER THE OPERATION, BUT NOONE AT THE TIME OF THE SURVEY
- CHILDREN WHO SNUFLLED AND HAD ESCAPE OF THE FOOD THROUGH THE NOSE, HAD STATISTICALLY STRONGER POSTOPERATIVE PAIN
- TEAM TREATMENT



7. CONDITIONS AFTER OPERATIONS

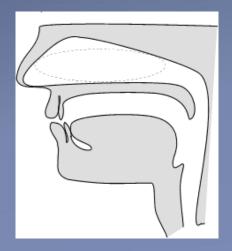
- PERMANENT ACTIVNESS DEFECT OF PHARYNX:
 - LARGE DEFECT WITH RECONSTRUCTION
 - TUMORS, TRAUMA
- TEAM TREATMENT:
- OTORHINOLARYNGOLOGIST, DENTIST, RADIOTHERAPIST, ONCOLOGIST, SLT, PSYCHLOGIST, PSYCHIATRIST, SOCIAL WORKER

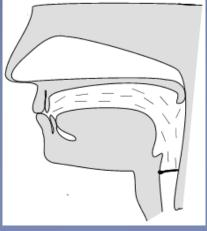


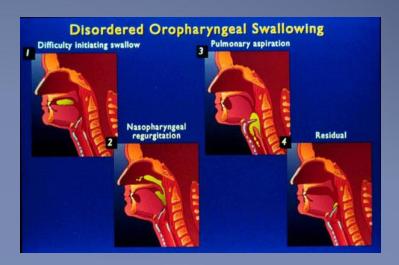


VELOPHARYNGEAL INSUFFICIENCY

- NASOPHARYNX IS CLOSED OFF BY POSTEROSUPERIOR ELEVATION OF THE SOFT PALATE = VELOPHARYNGEAL CLOSURE = VPC; NASOPHARYNX AND OROPHARYNX ARE SEPARATED
- SPEECH: SLOVENIAN LANGUAGE ONLY AT NASAL VOICE VPC IS OPENED, NASAL VOICE
- AT SPEECH VPC IS MAINLY CLOSED
- SWALLOWING: ESCAPE OF THE FOOD AND LIQUID THROUGH THE NOSE







VELOPHARYNGEAL INSUFFICIENCY - CAUSES

- PALATAL CLEFT:
- BEFORE RECONSTRUCTION
- AFTER RECONSTRUCTION: SLT, TO LEARN A CHILD TO USE A NEW ANATOMICAL CONDITIONS AND REACH VPC
- SUBMUCOSAL CLEFT PALATE:
- CLEFT OF THE MUSCLES IN MEDIAN LINE
- COVERED WITH NORMAL MUCOSA
- BLUE LINE
- GROOVE AT PHONATION
- UVULA BIFIDA
- CAN BE TOUCHED



VELOPHARYNGEAL INSUFFICIENCY - CAUSES

 RELATIVE DISPROPORTION: BETWEEN PHARYNGEAL DEPTH AND SOFT PALATE LENGHT - SOFT PALATE CAN NOT REACH POSTERIOR PHARYNGEAL WALL

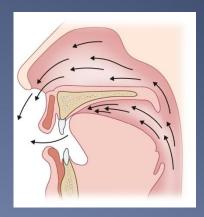
- = PALATOPHARYNGEAL DISPROPORTION
- ANATOMICAL VARIANT OF THE BASE OF THE SKULL
- CERVICAL SPINE CHANGES
- CHILDREN AFTER ADENOIDECTOMY

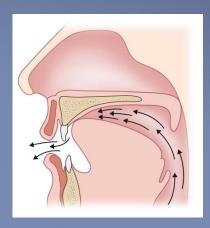
• SOFT PALATE SCARS:

- RADIOTHERAPY
- SURGERY (TONSILLECTOMY, TUMORS OF THE SOFT PALATE, PHARYNX, SNORING SURGERY)

VELOPHARYNGEAL INSUFFICIENCY - CAUSES

- NEUROLOGIC DISORDERS AND NERVE-MUSCULAR DISEASES:
- CEREBRAL PALSY
- MYOTHONIA
- DYSTROPHIA
- HEAD TRAUMA
- CVI
- PROGRESIVE NEUROLOGICAL DISEASES
- MIASTENIA:
- TRANSFER FROM THE NERVE TO THE MUSCLE IS DISTRUBED
- MUSCLE FATIGUING
- SOFT PALATE INNERVATION DISTRUBED:
- CRANIAL NERVES V., IX., X
- NO FLEXIBILITY OF ONE HALF OF THE SOFT PALATE
- SOFT PALATE DEVIATES TO THE HEALTHY NONPARALYZED SIDE
- MISLEARNING:
- NO ANATOMICAL CAUSE
- AFTER SURGERY
- COMPENSATORY
- MALADAPTATION





VELOPHARYNGEAL INSUFFICIENCY - TREATMENT

- SPEECH AND LANGUAGE THERAPY:
- EXERCISES FOR BETTER SOFT PALATE FLEXIBILITY
- EXERCISES FOR VPC
- **SURGICAL**:
- PALATOPLASTY
- VELOPHARYNGOPLASTY
- IMPLANTATION IN POSTERIOR PHARYNGEAL WALL

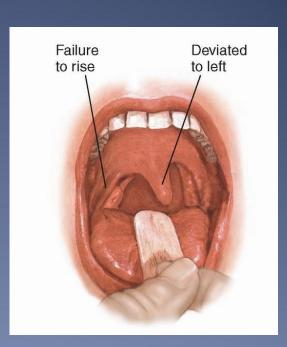


CLINICAL ASPECTS OF DISEASES OF THE PHARYNX

- CONGENITAL ANOMALIES
- TRAUMA, ALSO CAUSED BY MEDICAL PROCEDURES
- BURNS
- FOREIGN OBJECTS
- INFLAMMATION:
 - ACUTE
 - CHRONIC
 - COMPLICATIONS
- TUMORS:
 - BENIGN
 - MALIGNANT
- CONDITIONS AFTER OPERATOINS
- NEUROLOGICAL DISEASES

CLINICAL ASPECTS OF DISEASES OF THE PHARYNX 8. NEUROLOGICAL DISEASES

- MOTOR PARALYSES OF THE PHARYNX:
- ABSENCE OF THE PHARYNGEAL REFLEX
- CHOKING
- RHINOLALIA APERTA /PALATAL PARALYSIS/
- DIFFICULTY IN SWALLOWING FLUIDS
- ESCAPE OF THE FLUIDS THROUGH THE NOSE
- ASPIRATIONS
- ESCAPE OF THE FLUIDS THROUGH THE MOUTH
- IMPOSSIBLE TO SUCK OR BLOW
- THE SOFT PALATE DEVIATES TO THE HEALTHY NONPARALIYZED SIDE



CLINICAL ASPECTS OF DISEASES OF THE PHARYNX 8. NEUROLOGICAL DISEASES

- CAUSES:
- CVI
- TUMORS OF THE BASE OF THE SKULL
- JUGULAR FORAMEN SYNDROM (IX. XI. CRANIAL NERVES)
- BULBAR PARALYSIS: MOTOR CRANIAL NERVE CENTERS IN THE MEDULLA OBLONGATA DEGENERAZE GRADUALLY, CAUSING MUSCLE ATROPHY, FIBRILLATION OF THE TONGUE, INABILITY TO SWALLOW
- PSEUDOBULBAR PALSY: BILATERAL LESIONS OF THE SUPRANUCLEAR PATHWAYS FOR THE LOWER MOTOR CRANIAL NERVES, WITHOUT MUSCLE ATROPHY AND FIBRILLATION, BUT ALSO INABILITY TO SWALLOW
- SYRINGOBULBIJA
- HERPES ZOSTER

CLINICAL ASPECTS OF DISEASES OF THE PHARYNX 8. NEUROLOGICAL DISEASES

• TREATMENT:

- NEUROLOGICAL, CONSIDERING THE CAUSE
- NUTRITION NASOGASTRIC TUBE
- TRACHEOTOMY, PNEUMONIA PREVENTION
- SPEECH AND LANGUAGE THERAPY





• THANK YOU FOR YOUR ATTENTION

• QUESTIONS?

