




Medical Terminology


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Chapter 25- Sense Organs: Eyes

- function-provide receptors for vision
- eyes-rest in eye socket protected by cranium
- lacrimal apparatus-tear ducts and glands
- sclera-outer covering(front is cornea)
- conjunctiva-mucous membrane covering eyeball/eyelid



Chapter 25-

Sense Organs: Eyes


- choroid-layer between sclera and retina
- iris-colored bland surrounding pupil
- pupil-iris regulates size (hole in iris)
- lens-transparent, colorless/focusing
- ciliary body-muscle changes shape of lens
- aqueous humor-watery liquid in front of lens



Chapter 25-

Sense Organs: Eyes


- vitreous humor-jellylike substance in eyeball
- optic nerve-transmits images from retina to brain
- retina-innermost layer of eye(contains rods and cones)
- rods-work in dim light and black and white vision



Chapter 25-

Sense Organs: Eyes


- cones-responsible for bright light and color vision
- eye muscles-outside eyeball to provide eye movement
- amblyopia-lazy eye(patch good eye)
- astigmatism-irregular curvature of cornea/iris(OK w/ lenses)
- blepharitis-inflammation of eyelids

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Chapter 25-

Sense Organs: Eyes


- blepharoptosis-dropping of upper eyelids
- cataract-opaque lens(surgery-lens implant)
- central retinal artery occlusion-due to embolism/thrombus/sudden unilateral blindness (treat stat)
- central retinal vein occlusion-elderly, arteriosclerosis patients/blindness stat



Chapter 25-

Sense Organs: Eyes

- chalazion-enlarged sebaceous gland on eyelid(surgery prn)
- color blindness-most are congenital(most red or green)
- conjunctivitis-inflamed conjunctiva(eg-pink eye)
- corneal ulcer-result of injury or inflammation



Chapter 25-

Sense Organs: Eyes


- dacryoadenitis-inflammation of tear gland
- dacryocystitis-inflammation of lacrimal sac
- dacryolith-"stone" in lacrimal duct
- detached retina-due to trauma or spontaneous(laser)
- dry eye-less tear production due to age("artificial tears)

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Chapter 25-

Sense Organs: Eyes


- esotropia-strabismus(eye turns in)
- exotropia-eye turns out
- “floaters”-bits of protein usually in older people
- foreign bodies in eye-wash out stat(wear safety goggles)
- glaucoma-increased intraocular pressure(treat w/ eye drops)



Chapter 25-

Sense Organs: Eyes


- gonorrheal conjunctivitis of newborn-
reason for penicillin to eyes at birth
- hemorrhages-blood under membrane
due to trauma
- herpes zoster-shingle of optic nerve(can
lead to blind spot)
- hyperopia-farsightedness(cannot see at
close range)

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Chapter 25-

Sense Organs: Eyes


- hypertropia-type of strabismus-1 eye turns up
- hypotropia-1 eye turns down
- injuries-foreign bodies, lacerations
- intraocular pressure-increased pressure in eye
- iritis-inflammation of iris associated with diabetes and trauma



Chapter 25-


Sense Organs: Eyes

- keratoconus-cone-shaped cornea(treat with lens or transplant)
- macular degeneration-damage to macula
- meibomian cyst-chalazion
- myopia-nearsightedness(need corrective lenses)
- neonatorum conjunctivitis-purulent due to gonorrhea

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Chapter 25- Sense Organs: Eyes


- nystagmus-rapid-side-to-side movement of eyeball(neurological)
- papilledema-swelling of optic nerve
- presbyopia-lack of accommodation in older people(bifocals!)
- retinitis-inflammation of retina(actinic, pigmentosa)
- retinoblastoma-malignant glioma of retina



Chapter 25-

Sense Organs: Eyes


- retinopathies-diabetic, arteriosclerotic
- strabismus-misaligned eye
- styelhordeolum(inflammation of sebaceous gland of eyelid)
- trachoma-chronic infection of conjunctiva and cornea
- uveitis-inflammation of iris and blood vessels



Chapter 25-

Sense Organs: Eyes


- cataract extraction-with or without lens implant
- corneal transplant-donor corneas used
- cryoextraction-standard cataract removal
- cryoretinopexy-fixation of detached retina
- dacryocystotomy-incision of lacrimal sac



Chapter 25-

Sense Organs: Eyes


- enucleation-removal of eyeball
- eye muscle surgery-shorten or lengthen
- fluorescein angiography-injection of dye to retina
- funduscopy-examining inner eye with scope
- gonioscopy-using special instrument for glaucoma

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Chapter 25-

Sense Organs: Eyes


- grid test-to detect blind spots
- iridectomy-excision of part of iris
- iridencleisis-similar to iridectomy
- keratomileusis-reshaping cornea
- keratoplasty-corneal transplant
- keratotomy-surgical slits to improve vision
- laser photocoagulation-intense heat



Chapter 25-


Sense Organs: Eyes

- phacoemulsification-using ultrasound for cataract
- pterygium surgery-removal of overgrowth over conjunctiva
- slit lamp exam-magnifies structures within the eye
- tonometry-measures pressure within eye

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Chapter 25- Sense Organs: Eyes


- trabeculectomy-excision of fibrous bands
- ultrasound test-using sound waves to explore eye
- visual field testing-test for peripheral vision
- vitrectomy-aspiration of vitreous fluid(replace with saline)

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Chapter 25-

Sense Organs: Eyes


- YAG laser-type of laser used in eye surgery
- accommodation-ability of eye to adjust to seeing at different distances
- anesthesia-usually eye drops or injection
- anisocoria-unequal pupils
- Braille-raised alphabet for blind



Chapter 25-

Sense Organs: Eyes


- canal of Schlemm-for aqueous humor to flow
- canthus-inner and outer corners of eye
- cc-with correction
- cryoprobe-surgical instrument with liquid nitrogen
- cystotome-used to cut lens capsule
- diopters-unit of measurement for vision

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Chapter 25-

Sense Organs: Eyes


- emmetropia-normal vision(20/20 with no correction)
- eye bank-for donor corneas
- eye drops-used frequently for treatment
- fundus-back part of eye
- fundscope-ophthalmoscope
- guide dogs-"seeing-eye dog"
- lacrimation-production of tears



Chapter 25-

Sense Organs: Eyes


- laser-acronym for light amplification by stimulated emission of radiation
- miotic-eye drops to contract pupil
- mydriatic-dilates pupil
- ophthalmologist-eye specialist
- ophthalmometer-device for obtain prescription of eyeglasses
- ophthalmoscope-used to examine eye

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Chapter 25-

Sense Organs: Eyes


- optometrist-fits eyeglasses, prescribes lenses
- optician-eye product specialist
- peripheral vision-vision at outer edges
- refractive errors-vision disorders that are corrected by lenses
- Snellen eye chart--used for visual screening

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Chapter 25-

Sense Organs: Eyes


- 20/20 vision-the patient can see what the average person can see at 20 feet
- 10/10 vision-used for children sometimes
- specialists-ophthalmologist, optometrist



Chapter 25-

Sense Organs: Eyes


- abbreviations-
 - OD-right eye
 - OS-left eye
 - OU-both eyes
 - PERLA-pupils equal and reacting to light and accommodation
 - sc-without correction
 - VA-visual acuity

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Chapter 25-


Sense Organs: Ears

- function-provides receptors for hearing
- external ear-pinna and auditory meatus(ear canal)
- middle ear-tympanic membrane (3 bones including stapes)
- inner ear-vestibule, semicircular canals, cochlea
- tympanic membrane-eardrum(separates middle from external ear)



Chapter 25- Sense Organs: Ears


- eustachian tube-from middle ear to throat
- aerotitis or barotitis media-due to sudden increase or decrease in pressure
- deafness-hearing impaired(conductive or perceptive(nerve)
- eustachian salpingitis-inflammation of eustachian tube



Chapter 25-


Sense Organs: Ears

- foreign body in ear-insects, beans, etc.
- impacted cerumen-ear wax that is difficult to remove
- labyrinthitis-inflammation of inner ear(vertigo)
- mastoiditis-inflammation of mastoid process behind ear
- Meniere's disease-cause unknown(vertigo, dizziness)

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Chapter 25- Sense Organs: Ears


- myringitis-inflammation of eardrum
- otitis externa-bacterial or fungal ear canal infection
- otitis media-middle ear infection(common in children)
- otosclerosis-hardening of stapes in middle ear
- presbycusis-form of nerve deafness in elderly



Chapter 25-


Sense Organs: Ears

- trauma-damage to ear
- cochlear implant-procedure to restore some hearing
- fenestration-bypass middle ear
- mastoidectomy-excision of mastoid cells
- myringotomy-incision into eardrum
- otoplasty-plastic surgery on ear



Chapter 25- Sense Organs: Ears


- pressure-equalizing tubes-inserted following myringotomy
- stapedectomy-excision of stapes to restore hearing
- tympanoplasty-plasty surgery on eardrum using skin graft
- tympanotomy-see myringotomy
- specialists-otorhinolaryngologist, otologist, internist



Chapter 25-


Sense Organs: Ears

- acoustic meatus-opening into ear
- audiometer-device to test hearing
- audiometrist-hearing test specialist
- auditory, acoustic-pertaining to ear
- decibel-unit to measure sound
- electronystagmography-testing vestibular function
- exudate-drainage from infection

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Chapter 25- Sense Organs: Ears


- hearing aids-bone conduction or air conduction receivers
- hearing-ear dogs-dogs trained to respond to noise
- otic-pertaining to ear
- otolaryngologist-ENT doctor
- otologist-ear doctor
- otoscope-instrument to view ear

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Chapter 25-

Sense Organs: Ears


- sign language-use of hands to communicate
- tinnitus-ringing in the ears
- tuning fork-to test hearing
- vertigo-sensation of whirling motion, dizziness



Chapter 25-

Sense Organs: Ears


- abbreviations-
 - AD-right ear
 - AS-left ear
 - AU-both ears
 - ENT-ear, nose, throat
 - PE-pressure-equalizing tubes
 - TM-tympanic membranes

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Chapter 25-

Sense Organs: Mouth


- function-provides receptor for taste, salivary glands
- teeth-organs of mastication
- crown-made of enamel, portion above gums



Chapter 25-

Sense Organs: Mouth


- root-embedded in socket
 - dentin-hard, ivory-like substance
 - pulp cavity-holds vessels
 - cementum-body substance covers dentin
 - gingiva-gums
 - periodontal membrane-holds tooth in socket
 - root canal-contains nerves and blood vessels
 - alveolus-bony socket



Chapter 25-

Sense Organs: Mouth


- dentition-eruption of teeth
 - baby teeth-20 teeth
 - permanent teeth-32 teeth(with wisdom teeth)
- names of teeth- same upper and lower
 - incisors-front cutting teeth(4 each)
 - cuspids-anterior teeth(2 each)
 - bicuspids-premolars(4 each)
 - molars-posterior grinding teeth(6 each)

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Chapter 25-

Sense Organs: Mouth


- tooth surfaces-
 - buccal-cheek side
 - labial-lip side
 - lingual-tongue side
 - mesial-middle
- abscess-localized collection of pus
- anodontia-no teeth
- bruxism-grinding teeth

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Chapter 25-

Sense Organs: Mouth


- calculus-plaque deposits
- Candida Albicans-yeast infection in mouth
- caries-cavities
- edentulous-without teeth
- gingivitis-inflammation of gums
- impaction-teeth imbedded in bone



Chapter 25-

Sense Organs: Mouth


- leukoplakia-white patches-membrane
- malocclusion-out of alignment(crooked)
- neoplasms-new growths
- odontalgia-toothache
- plaque-sticky mass of microorganisms
- pyorrhea-flow of pus with gum disease
- TMJ(temporomandibular joint) disorder-bones of jaw malaligned



Chapter 25-

Sense Organs: Mouth


- xerostomia-dry mouth
- preventative dentistry-prophylactic care
- regular checkups-removal of plaque
- restorative dentistry-
 - fillings-amalgam, porcelain, gold
 - bonding-smooth rough edges
 - inlays, crowns, caps
 - dentures-prosthetic devices
- implantation-setting a tooth after injury

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Chapter 25-

Sense Organs: Mouth


- dental anesthesia-topical, local, general, hypnosis
- alveolectomy-removal of part of jaw bone
- commercial dental lab-impressions are sent
- dental chart-teeth numbered; notations made

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Chapter 25-

Sense Organs: Mouth


- disclosing products-exposes areas not being cleaned
- exodontia-extraction
- extraction-removal of tooth
- fissure-groove in tooth
- gingivectomy-surgical removal of gums
- impressions-molds of teeth

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Chapter 25-


Sense Organs: Mouth

- oral mucosa-mucosa in mouth
- palate-hard and soft roof of mouth
- rubber dam-used to cover everything but tooth
- suction-keeps area dry of saliva
- sulcus-gum area between teeth
- current dental concerns-avoid transmission of AIDS and hepatitis

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Chapter 26- Endocrine System

- function-regulates body activity(helps maintain homeostasis)
- pituitary gland-deep in cranial cavity (master gland)
- thyroid gland-located in front of larynx (regulates metabolism rate)
- parathyroid glands-behind thyroid (regulates calcium and phosphorus)




Chapter 26- Endocrine System

- adrenal glands-on top of kidneys (secretes cortisone/helps with stress)
- pancreas-behind stomach(beta cells secrete insulin)
- sex glands-ovaries and testes
- pineal gland-brain(day/night cycles)
- thymus gland-pleural cavity(immunity process)




Chapter 26- Endocrine System

- hypersecretion-
 - pituitary-acromegaly, gigantism
 - thyroid-hyperthyroidism, toxic goiter
 - parathyroid-loss of calcium from bones
 - adrenals-Cushing's disease, pheochromocytoma
 - pancreas-hypoglycemia
 - ovaries/testes-overdevelopment




Chapter 26- Endocrine System

- hyposecretion-
 - pituitary-dwarfism(congenital), Simmonds(adults)
 - thyroid-simple goiter, myxedema, cretinism
 - parathyroids-tetany(low calcium)
 - adrenals-Addison's disease
 - pancreas-diabetes mellitus
 - ovaries/testes-inability to carry fetus

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Chapter 26- Endocrine System

- acromegaly-enlarged extremities from too much growth hormone in adults
- Addison's disease-weakness, weight loss, jaundice
- cretinism-hypothyroidism in child(mental and physical retardation)
- Cushing's disease-weak, obese, hypertensive, moon facies




Chapter 26- Endocrine System

- diabetes mellitus-polydipsia, polyuria, polyphagia
- exophthalmic goiter-Graves disease, hyperthyroidism
- goiter-simple(lack of iodine)
- hypoglycemia-abnormally low blood sugar
- myxedema-hypothyroidism in adults




Chapter 26- Endocrine System

- pheochromocytoma-dusky tumor (personality changes, weight loss)
- Simmond's disease-atrophy of pituitary gland(exhaustion, emaciation)
- tetany-severe muscle spasm and nerve weakness(low calcium)
- treatment-(hyper)suppress or remove gland then replace hormones or (hypo) treat with hormones




Chapter 26- Endocrine System

- tests for endocrine function
 - blood chemistries
 - thyroid function-T₃ and T₄; thyroid scan
 - pancreatic function-GTT(glucose tolerance test), FBS(fasting blood sugar)
- specialists-endocrinologist, internist
- acidosis-disturbance of acid-alkaline balance
- anorexia-lack of appetite




Chapter 26- Endocrine System

- cachexia-state of malnutrition
- cataract-opaque lens seen in diabetics
- convulsions-seizures
- diaphoresis-profuse sweating
- emaciation-malnutrition
- gangrene-death of tissue(amputation)
- gestational diabetes-during pregnancy
- gland-organ that secretes




Chapter 26- Endocrine System

- hypophysectomy-removal of pituitary gland
- insulin-necessary to metabolize carbohydrates
- ketosis-vinegary odor on breath
- neuropathy-disease of nerves
- oral medications for diabetics-hypoglycemic

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Chapter 26- Endocrine System

- diabetes mellitus-types I (old-juvenile) and II (old-mature)
- long term complications-
 - long term blindness
 - kidney disease
 - neurological disorders
 - cardiovascular problems
 - impotence
 - problem pregnancies

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Chapter 26- Endocrine System

- treatment-medications, diet, exercise, weight maintenance
- drugs-insulin(Humulin available now)
- insulin pump-device(looks like beeper) with insulin
- blood/urine tests-used by patients at home(Glucometer)



Chapter 26- Endocrine System

- Diabetes Mellitus
- short-term complications-
 - diabetic coma-slow onset, polyuria, anorexia, fruity breath odor(treat with insulin)
 - insulin shock-fast onset, hunger, nervousness, dizziness(treat with juice or candy)
 - recovery-diabetic coma(slow recovery) & insulin shock(fast recovery)



Chapter 26- Stress

- stressor-pressure, force on system
- eustress-good stress that increases performance
- distress-difficult stress or chronic stress
- stress response-body's reaction to stress
- target organ-organ affected by stress



Assignments

- Chapter 25 (part I of 2) pages 361-2
 - complete # 1-34 and diagram
- Chapter 25 (part 2 or 2) page 363
 - complete # 1-18
- Chapter 26 pages 365-6
 - complete # 1-28

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Final Examination(take-home)

- Final exam (chapters 1-26) pages 371-5
– complete # 1-120