

499721 Medical Terminology (MED-2557)

“Body Systems 4”

Natapol Supanatsetakul M.D., Ph.D.
Foreign Language in Medicine - Learning Support Unit
(FLM - LSU)
Department of Pathology
Faculty of Medicine, Naresuan University

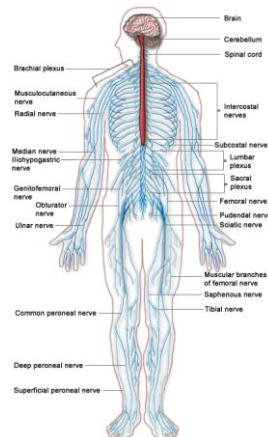
2 กันยายน 2557

Topics

- Quiz : Body Systems 3
- 3 more Quiz: Body system 4, 5, specific medical specialties
- Assignments: paper 16 ก.ย. 57, presentation 23 ก.ย. 57
- Final examination: **วันเสาร์ที่ 11 ตุลาคม 2557, 9.00-11.30 น.**
- Medical terminology in the body systems 4
 - Nervous system
 - EENT
 - Psychiatry
- Homework

Nervous System

- Area of study – specialist
- Structure and Function
- Signs and symptoms
- Lab investigation
- Diseases
- Medical & surgical procedures
- Medications



Nervous System

1. Area of study – specialist

- Neurology – neurologist
- Neurosurgery – neurosurgeon
- Neurophysiology
- Neuropathology
- Neur/o [Gr.] = nerve
- Nervus [L.] = nerve
(nevus = mole)



Nervous System

2. Structure and Function

- **C**entral **n**ervous **s**ystem (CNS)
 - head (cephal/o), brain (encephal/o, cerebr/o)
 - spinal cord (myel/o)
- **P**er**i**pheral nervous system (PNS) (**rif**)
 - cranial nerve, spinal nerve, nerve plexus, peripheral nerve
- **A**uto**n**omic nervous system (ANS)
 - sympa**th**etic, parasympa**th**etic (sympathy = เห็นอกเห็นใจ)
- nerve cells, **n**eu**r**ons, **s**en**s**ory, **m**o**t**or

Nervous System

2. Structure and Function

- nerve **i**mpulse, neuro**tr**ansmitter, re**ce**ptor
- skull (crani/o), **m**en**i**nx, men**i**nges (mening/o) (**j**eez)
- brain, gyrus, sulcus, cere**re**brum, cere**be**llum, brain stem
- cerebro**s**pinal fluid (CSF), **v**en**t**ricles of the brain
- nerve root (radicul/o)

Nervous System

3. Signs and symptoms

- **h**ea**d**ache (**hed**-eyk)
- **s**ei**z**ure (**see**-zher), con**v**ul**s**ion
- **s**yn**c**ope (**pee**), loss of **con**sciousness, un**con**sciousness, **co**matose, **co**ma
- **n**umbness, anes**th**esia, hypoes**th**esia, hypes**th**esia, hyperes**th**esia, hyperaes**th**esia, pares**th**esia (**zh**)
- akine**s**ia, akine**s**is, bradykine**s**ia, hyperkine**s**ia, dyskine**s**ia
- **t**re**m**or, nys**t**agmus

Nervous System

3. Signs and symptoms

- ab**n**ormal gait, a**tax**ia, incoordination movement
- dys**met**ria, dysdiadochokine**s**ia (rapid alternate movement)
- pa**re**sis (-paresis), pa**ral**ysis (-plegia) (**j**)
- hemi**p**legia, para**p**legia, quadri**p**legia, tetra**p**legia
- a**ph**asia, dys**ph**asia (language), dys**arth**ria (speech)
- a**lex**ia, dys**lex**ia, word blindness (can't read)
- a**graph**ia, anorthog**raph**y (can't write)
- am**ne**sia, loss of memory, forgetful = tending to forget

Nervous System

4. Lab investigation

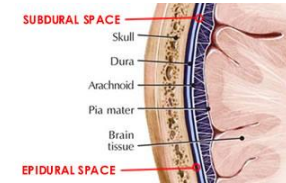
- Neuro**l**ogical exam**i**nation
 - CN, sensory, motor, reflex, movement, mental status
- cerebro**s**pinal fluid (CSF) a**n**alysis
- skull and facial radi**o**graphy,
- Com**p**uted To**m**ography of the brain (CT brain)
- Mag**n**etic Resonance Im**i**aging (MRI)
- Electroencepha**l**ography (EEG)
- Ce**r**ebral angi**o**graphy



Nervous System

5. Diseases

- **t**ension **h**ead**a**che, **m**igraine
- **e**pilepsy
- cerebro**v**ascular **a**ccident (CVA), stroke, cere**r**ebral infar**c**tion, cere**r**ebral **h**emorrhage, intrac**r**anial
- epi**d**ural hema**t**oma, sub**d**ural hema**t**oma, suba**r**achnoid **h**emorrhage (**r**ak)



Nervous System

5. Diseases

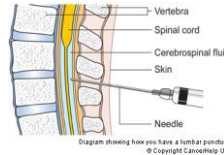
- menin**g**itis, encephal**i**tis, polyneur**i**tis
- neural tube defect, anen**c**ep**h**aly, myelomen**i**ngo**c**ele
- hydro**c**ep**h**alus
- brain tumor, meningi**o**ma, glioblast**o**ma, neu**r**oma
- demen**t**ia, Alzheimer disease, Amyotrophic lateral sclerosis (ALS), Parkinson disease



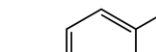
Eye-Ear-Nose-Throat (EENT)

6. Medical and surgical procedures

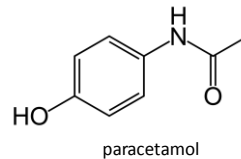
- lumbar puncture (LP), spinal tap
- intracranial pressure
- intrathecal injection, subarachnoid space
- spinal nerve block, spinal anesthesia
- local anesthesia, nerve block
- craniotomy – craniectomy – cranioplasty



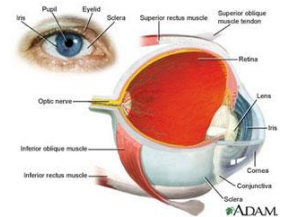
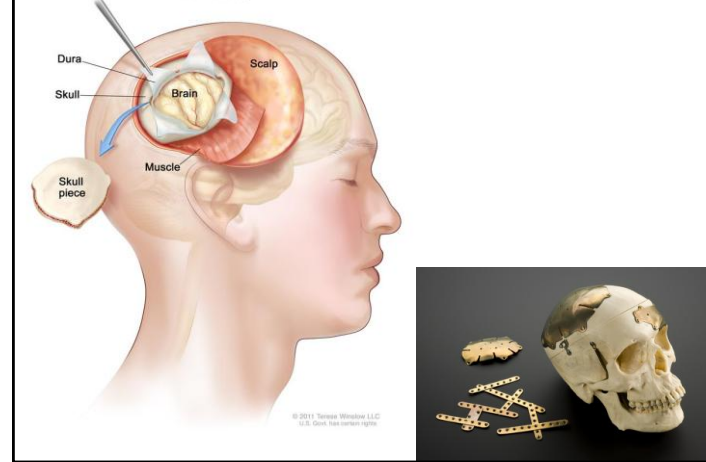
7. Medications

- antiepileptic, anticonvulsant
 - analgesic, antipyretic
 - antiemetic
 - general anesthetic, inhalational, intravenous
 - local anesthetic, infiltration
- 

paraceta



Craniotomy



- Area of study – specialist
- Structure and Function
- Signs and symptoms
- Lab investigation
- Diseases
- Medical & surgical procedures
- Medications

☒ ไม่สามารถแสดงรูปได้ คอมพิวเตอร์ของคุณอาจมีหน่วยความจำไม่เพียงพอที่จะเปิดรูปนี้ หรือรูปอาจเสียหาย เช่น การทำงานของคอมพิวเตอร์ของคุณอาจมีปัญหา จากนั้นโปรดเปิดพินดิกหรือ ถ้าเครื่องหน่วย x ซีพียูของคุณปรากฏอยู่ คุณอาจต้องลองรูปนี้ แล้วจึงจะมองเห็นอีกครั้ง

Eye-Ear-Nose-Throat (EENT)

1. Area of study – specialist

- ophthalmology – ophthalmologist (of) , oculist
- optometry – optometrist
- otolaryngology – otolaryngologist, ENT physician
- otorhinolaryngology, ot/o, rhin/o, laryng/o
- otology, audiology – otologist, aurist, audiologist
- audi/o = sound, hearing

Eye-Ear-Nose-Throat (EENT)

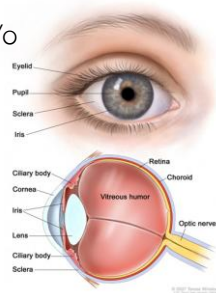
2. Structure and Function

- eyes = ocul/o [L.], ophthalm/o [Gr.], opt/o, optic/o
- ears = auricul/o [L.], oto [Gr.]
- nose = nas/o [L.], rhin/o [Gr.]
- throat, pharynx, pharynxes (pl.) = pharyng/o [Gr.]
- larynx, larynxes (pl.) = laryng/o [Gr.]
- x = [s], ryn = [rin], ges = [jeez]

Eye-Ear-Nose-Throat (EENT)

2. Structure and Function

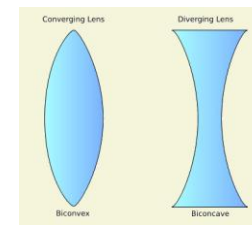
- eyeball, eye globe, vision (zh), eyesight
- eyelid palpebr/o, blephar/o
- lacrimal gland dacry/o
- tears lacrim/o
- cornea corne/o, kerat/o
- conjunctiva conjunctiv/o



Eye-Ear-Nose-Throat (EENT)

2. Structure and Function

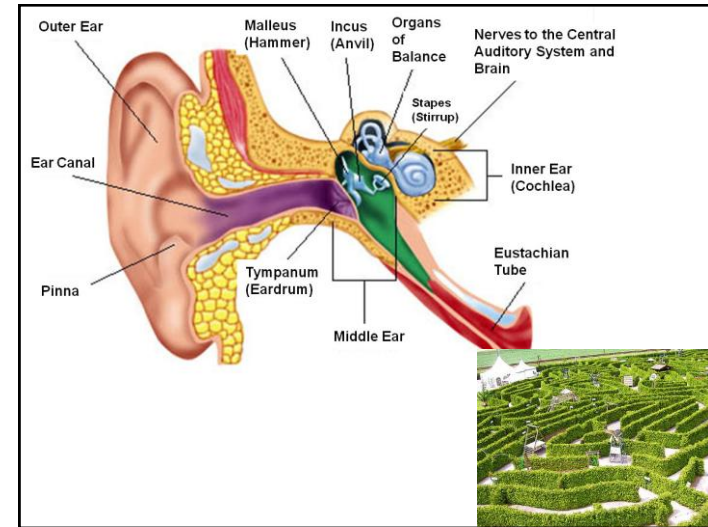
- iris = ir/o, irid/o
- pupil = pupil/o, cor/o, miosis, mydriasis
- lens of the eye = phac/o, phak/o
- biconvex, biconcave
- aqueous humor, vitreous humor
- vitre/o = glassy,
- retina = retin/o



Eye-Ear-Nose-Throat (EENT)

2. Structure and Function

- Outer Ear : **pin**na, **aur**icle, **aud**itory **canal**, **ceru**men, **ear**wax
- Middle Ear (**tym**panum) : **tym**panic **mem**brane, **ear**drum, tympan/o, myring/o, eustachian tube, ear **os**sicles : **mal**leus, **in**cus, **stap**es
- Inner Ear : **coch**lea, **laby**rinth
- Hearing : acoust/o, audit/o, audi/o, -cusi



Eye-Ear-Nose-Throat (EENT)

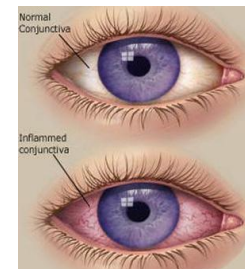
2. Structure and Function

- nose, **nostr**ils, **na**res (nair-eez), **nasal** **cav**ity, **sin**us
- olfactory = relating to the sense of smell
- nasopharynx, oropharynx, laryngopharynx
- lar**ynx, epiglottis, **vo**cal cord
- voice (n., v.), **vo**calize (v.), vocali**za**tion, phona**ti**on

Eye-Ear-Nose-Throat (EENT)

3. Signs and symptoms

- Errors of refraction, **vis**ion (**viz**h) = -opia, -opsia
 - my**o**pia = nearsightedness
 - hyper**o**pia = farsightedness
 - ast**ig**matism
 - presby**o**pia, presby/o = old age
- eye pain, ophthal**ma**lgia
- pink eye, red eye, bloodshot eyes



Eye-Ear-Nose-Throat (EENT)

3. Signs and symptoms

- irritated eyes, itchy eyes, tear (n., v.), teardrop
- dry eye, xerophthalmia, xero- = dry
- blind, blindness, anopia, hemianopia, hemianopsia, amaurosis, color blindness, night blindness
- strabismus, diplopia, double vision, cycloplegia
- tosis (silent p), drooping of the upper eyelid

Eye-Ear-Nose-Throat (EENT)

3. Signs and symptoms

- ear pain, earache, otalgia
- tinnitus, ringing of the ears
- otorrhea
- hearing loss
- deaf, deafness
- vertigo (ti), vitiligo (lie) = leukoderma

Eye-Ear-Nose-Throat (EENT)

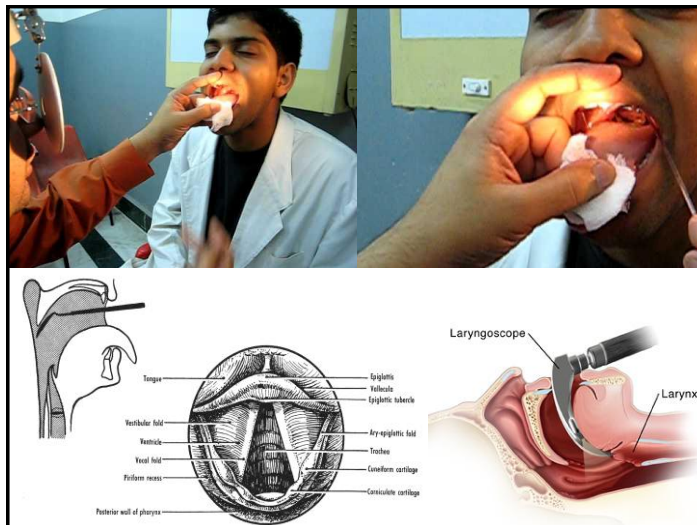
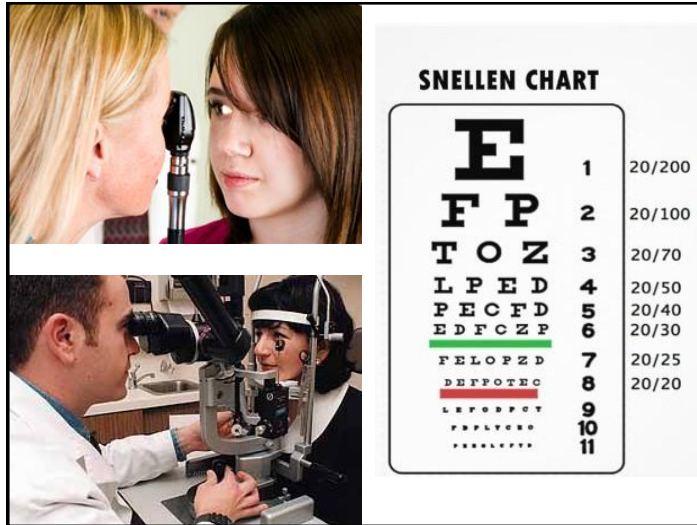
3. Signs and symptoms

- rhinorrhea, runny nose (z)
- epistaxis, nosebleed
- nasal congestion, stuffy nose
- snoring, obstructive sleep apnea
- sore throat, hoarseness, voiceless, aphonia
- a foreign body in the eye, ear, nose, throat

Eye-Ear-Nose-Throat (EENT)

4. Lab investigation

- ophthalmoscopy (of), slit lamp microscopy
- visual acuity test with Snellen chart
- visual field test
- otoscope, otoscopic, otoscopy, tuning fork test
- audiometry, audiometer, sonometer, audiogram
- laryngoscope, laryngoscopy, indirect

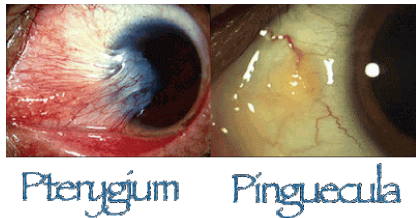
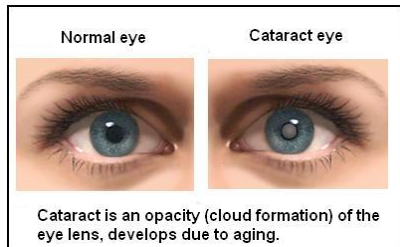


Eye-Ear-Nose-Throat (EENT)

5. Diseases

- hordeolum, chalazion, sty or styte
- blepharitis, palpebritis, conjunctivitis, dacryocystitis, ophthalmitis, ophthalmia, keratitis, retinitis
- cataract
- glaucoma
- pinguecula, pterygium (rij)

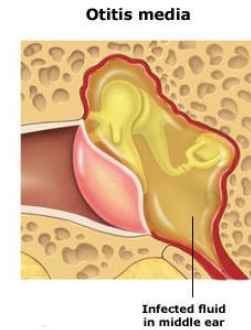




Eye-Ear-Nose-Throat (EENT)

5. Diseases

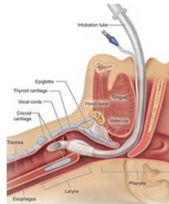
- otitis media, otitis externa
- myringitis, tympanitis
- impacted cerumen
- presbycusis, presbycusia
- sinusitis
- pharyngitis
- laryngitis



Eye-Ear-Nose-Throat (EENT)

6. Medical and surgical procedures

- incision and curettage (sizzh)
- phacoemulsification
- LASIK, laser in situ keratomileusis (shaping the cornea)
- enucleation of the eye
- rhinoplasty, nasal packing
- removal of foreign bodies
- endotracheal intubation, ET tube



Eye-Ear-Nose-Throat (EENT)

7. Medications

- Ophthalmic preparations
eye drops, miotic – mydriatic, anti-glaucoma
- Ear preparations
ear drops, ceruminolytic
- Nasal preparations
nasal spray, nasal decongestion, decongestant
- Antihistamine
- Hearing aids

Psychiatry

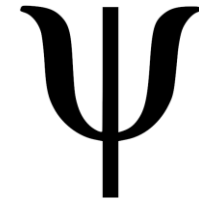
- Area of study – specialist
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Psychiatry

1. Area of study – specialist

- Psy~~chi~~atry – Psy~~chi~~atrist
- Psy~~cho~~logy – psy~~cho~~logist
- Psych/o [Gr.] = mind, mental
- From Greek ψυχή (psukhē, soul)
- From Latin *psychē*
- iatr/o = treatment



Psi
Greek alphabet

Psychiatry

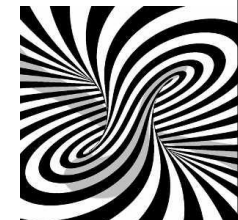
2. Structure and Function



Psychiatry

3. Signs and symptoms

- an~~xi~~ety, ~~ph~~obia, ~~pa~~nic
- stress, de~~pressed~~, irrita~~bi~~lity, ~~la~~bile mood
- in~~so~~mnia, ~~night~~mare, hyper~~so~~mnolescence
- hallucina~~ti~~on, de~~lu~~sion
- self-harm, self-injury, ~~su~~icide ~~at~~tempt
- perso~~na~~lity change
- ma~~lin~~gering



Psychiatry

4. Lab investigation

- **mental status examination** (MSE)

Mental Status Exam	
Client Name	Date
OBSERVATIONS	
Appearance	☐ Neat ☐ Disheveled ☐ Inappropriate ☐ Bizarre ☐ Other
Speech	☐ Normal ☐ Tangential ☐ Pressured ☐ Incoherent ☐ Other
Eye Contact	☐ Normal ☐ Intense ☐ Averted ☐ Other
Motor Activity	☐ Normal ☐ Restless ☐ Tics ☐ Stunned ☐ Other
Affect	☐ Full ☐ Diminished ☐ Flat ☐ Labile ☐ Other
Comments:	
MOOD	
	☐ Euphoric ☐ Anxious ☐ Angry ☐ Depressed ☐ Euphoric ☐ Irritable ☐ Other
Comments:	
COGNITION	
Orientation Impaired	☐ None ☐ Place ☐ Object ☐ Person ☐ Time
Memory Impaired	☐ None ☐ Short Term ☐ Long Term ☐ Other
Attention	☐ Normal ☐ Distracted ☐ Other
Comments:	
PERCEPTION	
Hallucinations	☐ None ☐ Auditory ☐ Visual ☐ Other
Other	☐ None ☐ Deindividuation ☐ Depersonalization
Comments:	
THOUGHTS	
Spontaneity	☐ None ☐ Irrational ☐ Plan ☐ Intent ☐ Self-Harm
Hostility	☐ None ☐ Aggressive ☐ Intent ☐ Plan
Delusions	☐ None ☐ Grandiose ☐ Paranoid ☐ Religious ☐ Other
Comments:	
BEHAVIOR	
Cooperative	☐ Cooperative ☐ Guilted ☐ Hyperactive ☐ Agitated ☐ Paranoid
Stimulated	☐ Stimulated ☐ Aggressive ☐ Bizarre ☐ Withdrawn ☐ Other
Comments:	
INSIGHT	☐ Good ☐ Fair ☐ Poor Comments:
JUDGMENT	☐ Good ☐ Fair ☐ Poor Comments:

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Psychiatry

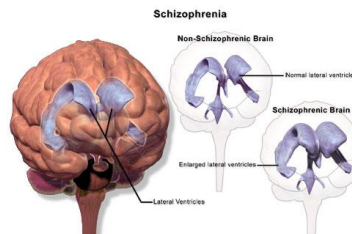
5. Diseases

- **anxiety disorders**, **phobia**, **panic attack**,
- **obsessive-compulsive disorder** (OCD), **obsessions**, **compulsions**
- **post-traumatic stress disorder** (PTSD)
- **depressive disorder**, **dysthymia**, **dysphoria**, **euphoria**, **mania**, **bipolar**

Psychiatry

5. Diseases

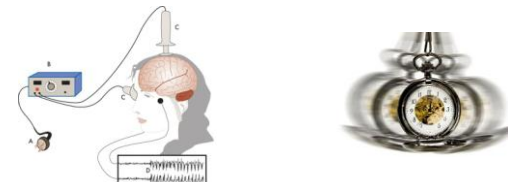
- **dementia**
- **paranoia**
- **psycho**sis, **neuro**sis
- **schizophrenia** (**skit**)
- **suicide**, failed, committed, completed
- **drug dependence**



Psychiatry

6. Medical and surgical procedures

- **Electroconvulsive therapy** (ECT)
- **psychotherapy**
- **hypnosis**, **hypnotism**, to **hypnotize** (v.)



Psychiatry

7. Medications

- antidepressant
- antipsychotic, neuroleptic
- anxiolytic, antianxiety
- hypnotic, sleeping pill
- sedative, tranquilizer



Psychiatry

7. Miscellaneous

- mental health
- mental illness
- mental disorders
- mentally ill patient
- mental hospital, psychiatric hospital, psych ward



Homework

- ทบทวนความรู้ เตรียมตัว Quiz (Body system 4) ในการเรียนครั้งต่อไป (9 ก.ย. 57) เฉพาะ Nervous system และ EENT