

499721 Medical Terminology (MED-2557)

“Body Systems 3”

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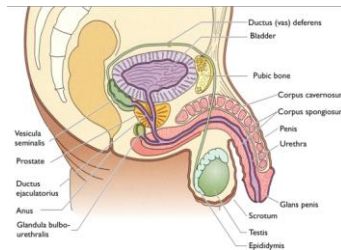
26 สิงหาคม 2557

Topics

- Quiz : Body systems 2
- Medical terminology in the Body Systems 3
 - Male reproductive system
 - Female reproductive system
 - Endocrine system
- Homework

Male Reproductive System

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



Male Reproductive System

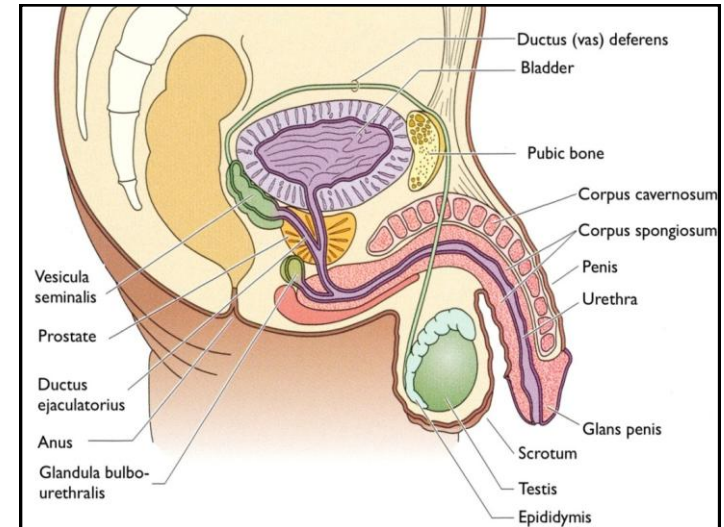
1. Area of study – specialist

- Urology, urologic surgery, urosurgery
- Urologist, urologic surgeon
- Genitourinary system (GU)

Male Reproductive System

2. Structure and Function

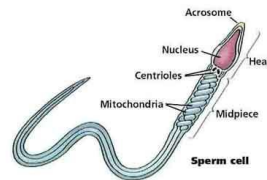
- male **genital organ**, male **reproductive organ**
- **penis**, glans penis
- **testis**, testes (*pl.*), **testicles**, **scrotum**
- **prepuce**, foreskin
- **prostate** gland
- sperm, sperm cell, spermato**zo**on, spermato**zo**a



Male Reproductive System

2. Structure and Function

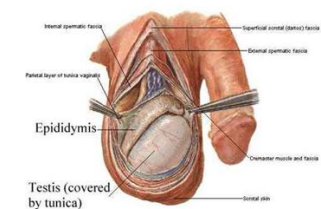
- **meiosis**
- spermato**gen**esis
- **erection**
- **semen**, ejacula**tion**



Male Reproductive System

3. Signs and symptoms

- **Impotence**
- narrowing (stricture) of the **prepuce**, **phimosis** (ฟ่าย-)
- **Impalpable testis**
- ab**normal** testicu**lar** mass



Male Reproductive System

4. Lab investigation

- prostate-specific antigen (PSA) test
- semen analysis

“ฉันจะตรวจ สำหรับผู้ป่วยรายนี้”

“I will order for this patient”

run, do

Male Reproductive System

5. Diseases

- erectile dysfunction (ED)
- cryptorchidism, cryptorchism, retained testis, undescended testis [crypt/o=hidden, orchid/o]
- benign prostatic hyperplasia (BPH)
- prostatitis
- prostate cancer, adenocarcinoma of the prostate

Male Reproductive System

5. Diseases

- sexually transmitted diseases (STDs)
- gonorrhea, genital herpes, condyloma acuminatum, genital wart
- testicular cancer, testicular carcinoma
- seminoma (cancer of sperm-forming tissue)
- sterilization, sterile = infertile

Male Reproductive System

6. Medical and surgical procedures

- orchiopexy, orchidopexy
- digital rectal examination (DRE)
- transurethral resection of the prostate (TURP)
- circumcision
- vasectomy, penectomy
- castration, orchiectomy, orchidectomy, testectomy

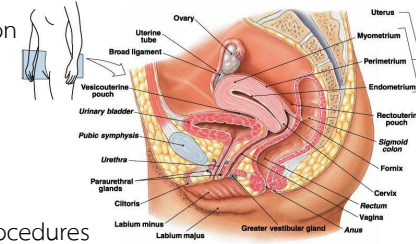
Male Reproductive System

7. Medications

- anti – ED, **Viagra**® (sildenafil)
- antibi**o**tics, antibacter**a**l, antiv**i**ral

Female Reproductive System

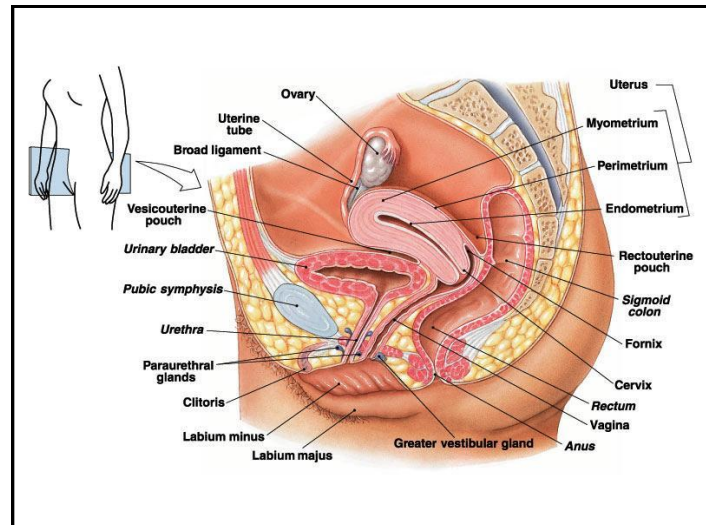
- Area of study – specialist
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Female Reproductive System

1. Area of study – specialist

- obst**e**trics – obst**e**trician
- gyn**e**cology – gyn**e**cologist
- OB-GYN
- mid**w**ifery – mid**w**ife, midwives (*pl.*)



Female Reproductive System

2. Structure and Function

- female genital organ, female reproductive organ
- vagina, vulva
- uterus (hyster/o), cervix (cervic/o), uterine cavity
- endometrium, myometrium [metr/o = womb]
- oviduct, fallopian tube, uterine tube (salping/o)
- ovary (oophor/o)
- egg, ovum (ov/o), oogenesis

Female Reproductive System

2. Structure and Function

- menstruation, menarche, menopause, men/o, period
- ovulation, fertilization, implantation
- sexual intercourse, coitus
- pregnancy, conception, to conceive (v.)
- nulligravida, primigravida (พราย-), multigravida
- delivery, laboring, nullipara, primipara, multipara
- postpartum

Female Reproductive System

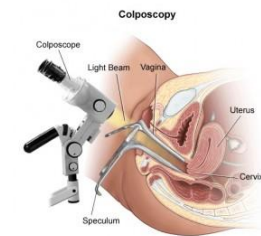
3. Signs and symptoms

- amenorrhea, menorrhea, oligomenorrhea, hypermenorrhea, menorrhagia
- metrorrhagia = irregular period
- dysmenorrhea, menstrual cramp, painful periods
- vaginal bleeding, leukorrhea, vaginal pruritus (itching)
- dyspareunia (-roo-)
- hyperemesis gravidarum

Female Reproductive System

4. Lab investigation

- pelvic examination (PV)
- colposcopy, hysteroscopy
- Pap smear, Papanicolaou test
- mammography, mammogram
- pregnancy test, urine pregnancy test



- Georgios Nikolaou Papanikolaou (or George Papanicolaou)
Γεώργιος Ν. Παπανικολάου, May 13, 1883 – February 19, 1962

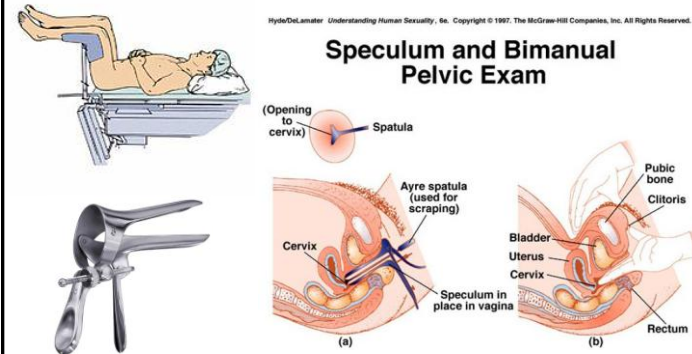
A Greek pioneer in cytopathology



<http://eu.greekreporter.com/files/pap.jpg>

Pelvic examination (PV)

- lithotomy position, vaginal speculum



Female Reproductive System

5. Diseases

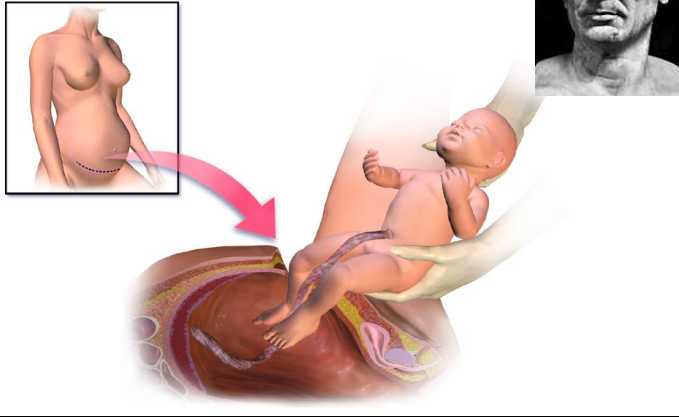
- vaginitis, cervicitis,
- endometriosis, endometrial cyst, chocolate cyst
- cervical cancer, endometrial carcinoma, leiomyoma of uterus, ovarian cancer
- ectopic pregnancy, intrauterine pregnancy
- abortion, spontaneous or criminal

Female Reproductive System

6. Medical and surgical procedures

- hysterectomy, salpingectomy, oophorectomy
- total abdominal hysterectomy with bilateral salpingo-oophorectomy (TAH – BSO)
- amniocentesis
- Cesarean section, normal vaginal delivery (NVD)
- tubal ligation, tubectomy
- dilation (or dilatation) and curettage (D&C)
- Assisted reproductive technology (ART) : In vitro fertilization (IVF), Gamete intrafallopian transfer (GIFT)

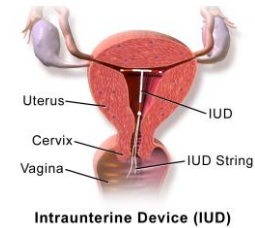
C-section



Female Reproductive System

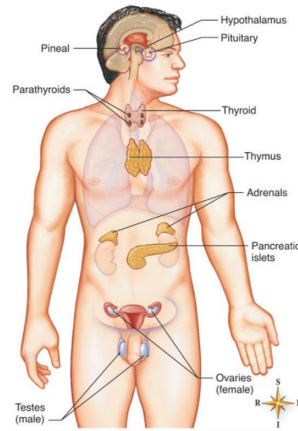
7. Medications

- oral contraceptive pill, birth control pill
- Emergency contraceptives, post-coital pills
- Intrauterine device (IUD)
- condom



Endocrine System

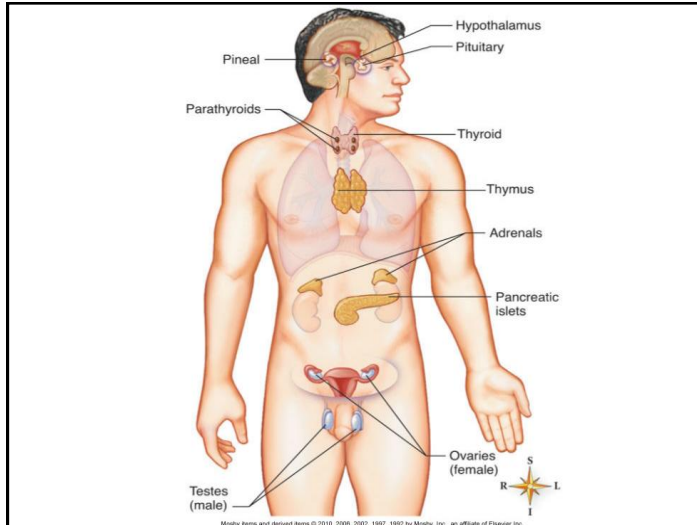
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Endocrine System

1. Area of study – specialist

- endocrinology – endocrinologist
- hormonology



Endocrine System

2. Structure and Function

- exocrine gland, endocrine gland
- pituitary
- thyroid
- parathyroid
- pancreas, islets of Langerhans
- adrenal, cortex, medulla



Paul Langerhans
1847-1888
German pathologist

Endocrine System

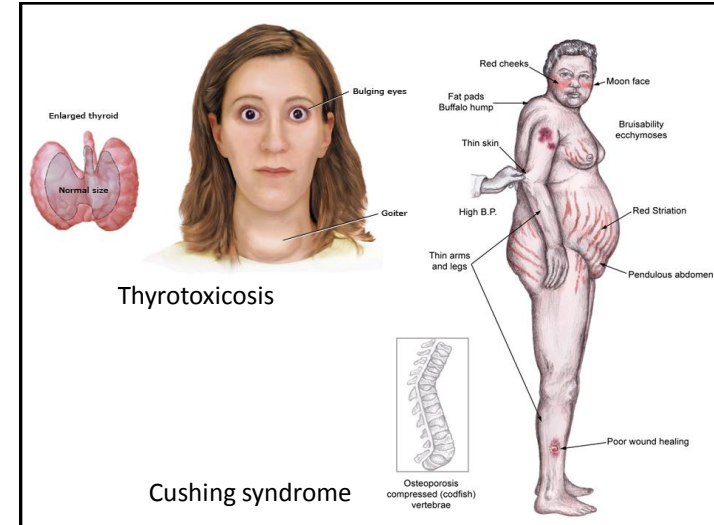
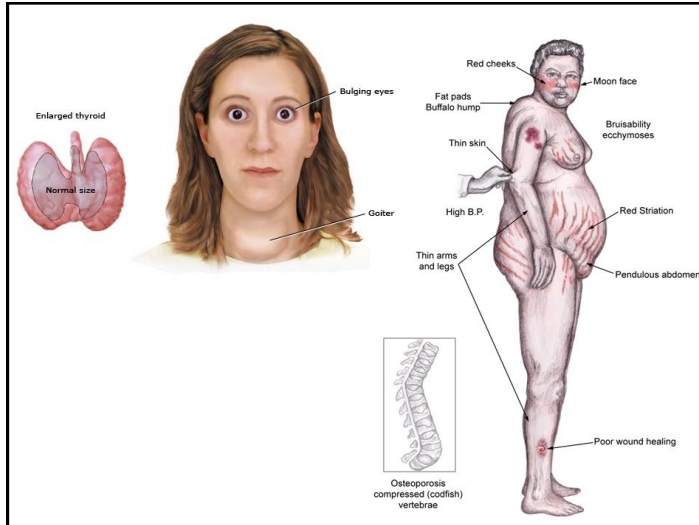
2. Structure and Function

- growth hormone (GH), somatotropin
- adrenocorticotropin hormone (ACTH)
- thyroid hormone, thyroxine
- parathyroid hormone, parathormone (PTH)
- insulin
- corticosteroid
- glucocorticoid, cortisol

Endocrine System

3. Signs and symptoms

- palpitation, tremor, tachycardia, sweating, diarrhea
- perspiration, transpiration, diaphoresis
- palpable neck mass, goiter, exophthalmos
- polyphagia, polyuria, polydipsia, weight loss
- truncal obesity, moon face, buffalo hump, abdominal stria, striae (pl.)



Endocrine System

4. Lab investigation

- thyroid function test (TFT, blood hormone level)
- fasting blood sugar (FBS)
- postprandial, post cibum (p.c.)



Endocrine System

5. Diseases

- hyperthyroidism, thyrotoxicosis
- hypothyroidism
- thyroiditis
- thyroid nodule, follicular adenoma, thyroid cancer
- multinodular goiter, goitre (*british*)
- hyperglycemia, diabetes mellitus (DM)
- diabetes insipidus (DI), antidiuretic hormone (ADH)



Endocrine System

5. Diseases

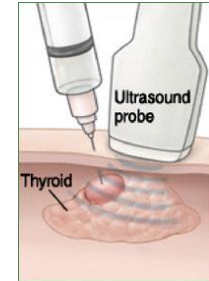
- Cushing syndrome
- abnormal growth
- gigantism, giantism
- acromegaly
- dwarfism



Endocrine System

6. Medical and surgical procedures

- thyroid fine needle aspiration (FNA)
- thyroidectomy
- parathyroidectomy
- adrenalectomy



Endocrine System

7. Medications

- antithyroid drug
- radioactive iodine, radioiodine, I-131
- antidiabetic drug, oral hypoglycemic drug
- insulin injection
- corticosteroid



Homework

- ทบทวนความรู้ เตรียมตัว Quiz (Body system 3) ในการเรียนครั้งต่อไป (2 ก.ย. 57)