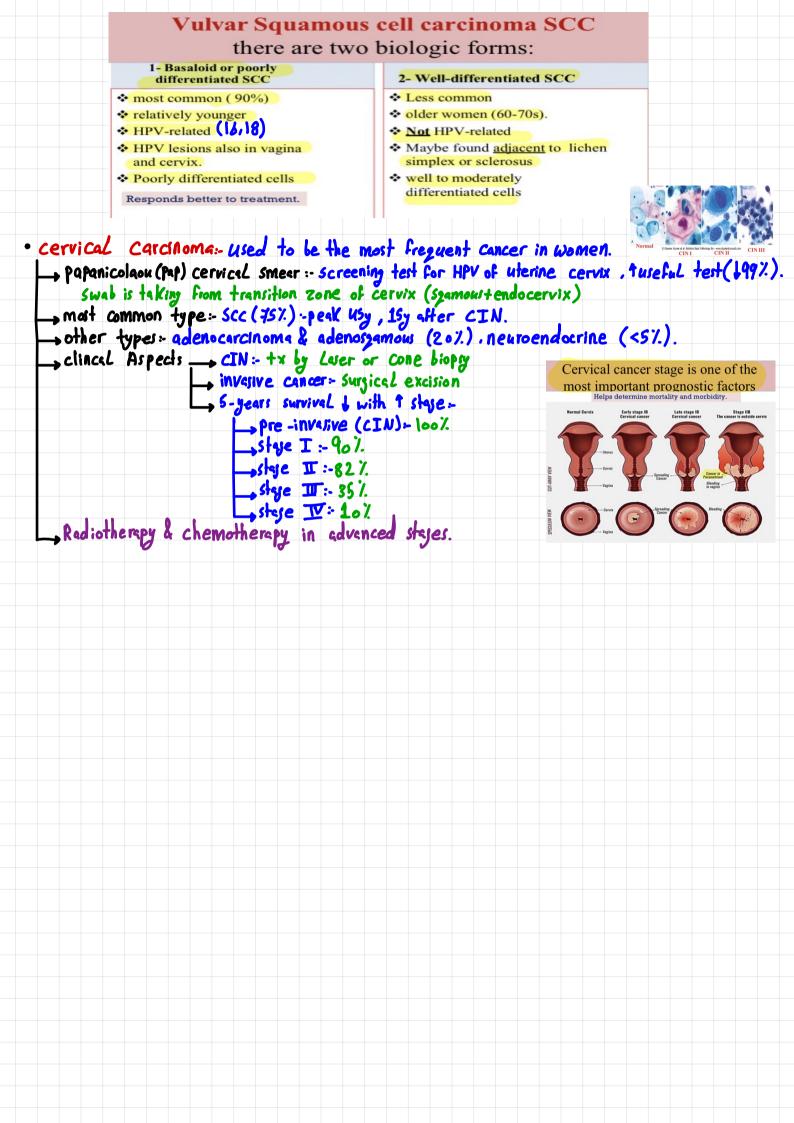
	Topic 1: Vulvar diseases
• V	ulvar diseases Non-Neoplestic :- more common Lichen sclerosus :skin Lichen simplex chronicus :- skin L, CondyLomaaccumulation:- HPV infection (want
	L, Condy Loma eccumulation: HPV intection (Warr L, neoplastic: Less common, Dysplassa (VIN) L, Vulvar cancer: Syamous cell carcinoma most common
	ichen Sclerous: Postmenopausel women, while playue thined out skin (of valva) micro: thinning of epidermis, disapperance of rete pegs, hydrophopic deseneration of Basal cells sclerotic dermis (stroma). pathasenisis: uncertian, autoimmune, testrojen not pre-malisment by itself> differential dx.
2.1	ichen Simplex chronicus:-chronic (progressive Inflammation). Ichen Simplex chronicus:-chronic (progressive Inflammation). Ichinical term:- Leukoplakia (whitish plagues) on the valva. Inicro:-epithial thickening (acanthosy) Hyperkeratosis, no atypia, mild-modrate dermis inflammation Ino 1 predisposition to cancer, may be present at marsin of adjacent cancer — DDx.
3• (Condylomas (condyloma acuminatum, Anosenital warts): Low Risk HPV (6,11) Hallmark: Koilocytosis (perinaclear cytoplasmic vacaloization + nuclear pleomorphism), abnormal shape of nucleus surrounded by Halo (by virus Repucation) -> Koliocyte (abnormal Keratinogyt, not precarous by itself, won't Lead to cancer & isn't a cancer.
• 1	Jeoplastic Vulvar diseases, Vulvar intraepithial neoplasm (VIN):-dysplasia by HPV. mild - in situ invasive (same morphology & etiology). Invasive cargnoma:- Szamous cell caranoma (most comman).
• H	PV:-STD l Risk types: anogenitel warts (condyloma) (6, 11) Lot Risk types: intraepithial dysplain & invasive cancers in all parts of jenital tracts. Lot (16,18,45,31): - peak age of VIN 30y, cancer usy - latency period 15y. 16 & 18: integrate into the host jenome & express large amount of viral proteins which block or inactivate tumor suppressor jenes, Accumulation of mulations & DNA damge - malignancy. Lot protein: P53 jene. Lot protein: retinoblastoma gene. HPV Vaccine.
• j	ntraepithelial neoplasia (IN) concepts: TRISK HPV, graded depending on extent of epithial involvement. IN I: mild dysplasia (Lower third of fall epithial thickness). IN II: modified dysplasia (up to ½-3% of fall epithial thickness). IN II: Severe dysplasia (full epithial thickness). equivalent to carcinoma in students. Same concept & similar morphology to all lower genifal tract organs.
(Dysplasia: 1 N/c Ratio, nuclear enlagment, hyperchromasia dabnormal nuclear membrane (shape)
	· Vulvar dysplasia (v) → VIN1 · Vesinal dysplasia (c) → CIN1 · Cervical dysplasia (c) → CIN1
	* COUISE:- Jenetic, immuno, environment (Smoking, new HPV). Normal IN/C Shape of stratified squamous Normal IN 1 Normal IN 2 > Cells are bigger with higher N/C Worst grade

.



* Topic 2: Uterine pathology
· Endometrifis:- inflammation of the endometrium, acute or chronic.
causes: infection (PID), miscarriage or dilivery, intrauterine device (IUCD)
causes:- infection (PID), miscarriage or dilivery, intrauterine device (IUCD) signs & symptoms:- fever, abdominal pain, menstural abnormalities, infiltrity & ectopic pregrancy (dayse tak) Rx:- removal of cause, antibiotics, D&C
cancers are monoclonal
· Adenomyosis:- endometrial stroma, glands or Both embedded in myometrium proliferation, so it's not
1 Morph: thick utering wall, enlarged uterus.
Derived From: Stratum basalis -> no clinical Bleeding.
Signs & symptoms: - Menorrhasia (tmenstruct Bleeding), dysmenorrhaa (painful). due to enlarged
uterus, uterine contractions are exaggerated.
· Endomertriosis- endometrial glands & stroma outside the uterw (not cancer), 10 ? in reproductive.
Signs & symptoms:-infertility rectopic pressency, dysmenorshea, pelvic pain, pelvic mass filled with Blood (chocolate cyst), functionalis endometrium -> cyclic Bleeding.
multifocal in pelvic:-m.c ovaries, Dougles, Ligaments, tubes, rectovaginal septum.
pathogenus - Regurgitation theory (most accepted):- menstrual backflow through tubes & implantation.
Metaplastic theory - Endometrial differentiation of coelomic epithelium.
vascular/Lymphatic dissemination = extrapelvic or intranodal implants.
Extrauterine stem/progenitor cell: Stem from BM→endometrial tissue (distant).
Consequences:- fibrosis, sealing of tubal fimbirated ends & distortion of the ovaries.
Dx (2 of 3): 1) endometrial glands 2) endometrial stroma 3) Hemosidin pigment.
• Endometric/ hypochleria - tertenan calaburata according a grandad ambiforation and cancer
Rick factors about DM HTM intertility tostered real coment schools a secretine approximation
• Endometrial hyperplasia: - testrogen relative to projectin — exaggerated proliferation — may cancer. —Risk factors: - obesity, DM, HTW, intertility, testrogen replacement, Estrogen-secreting overlan tumors. —Sevirity Based on: - architectural crowding & cytologic atypia — typica & Atypical (20% cancer risk).
• Tumors of Endometrium
- Benign endometrial polyps:- sessile or pedunculated, no Risk of cancer, dilated slands + small muscular
arteries + fibrotic stroma.
Literdometrial carcinoma:-most common cancer in female genital tract, 60-60y Literdometrioid):-perimenopausel women with estrojen excess (most common)
Similar to endometrium, precancerous lesson = Atypical endometrial hyperplasia (same public
Mutation in DNA mismatch repair gene & PTEN., prognosis depends on stage.
II (Serous): older women with endometrial atrophy, no Relation with Hyperplasia or hormones.
mutation in P53 tumor suppressor gene (all or none), poor prognosis depends on stage (Peritonegal)
The book of the may and stone
• Tumors of the myometrium
Lieomyoma/Abroids:-Benin tumor of SM, most common (30-50%), Estrojen-dependent (shrink after
menopause, circumscribed, firm gray-white masses with whorled cut surface -Locations:-Intramural, submucosal, subserosal
- cllinically Hemorrage, cystic change or clacification, Asymptomatic, menorrhagia dragging sense, anemia
Linever transform into sarcoma & multiple Lectons doesn't trisk of malisnancy.
Lieomyosarcoma:-malignent counterpart of Leiomyoma, not from preexisting Lieomyomas. Hemorrhagic
necrotic, infiltrative borders.
Dx:- Coagulative necrosis, cytologic Atypia & mitatic activity.
L. Recurrence & metastasis is common, sy surival rate 40%.

* Topic 3:- Ovarian & Fallopian tube pathology.
OVarian neoplastic Diseases:- St most cancer & cancer death in womens. primary:- epithelium .germ cells, sex cord/stromal cells Secondary:- metastatic malignancies. Risk factors:- nulliparity, family history (loi), OCPs - IRisk.
Depthial ovarian Neoplaim:-majority, 90%, previously-coelomic epi, Recent -fimbrited end lepig pathogenises Sporadic:BRCA 1 & 2, PS3, HER2/NEU over expression, K-RAS (musinous) Familial:- BRCA 1 & 2 (& Breast) Bengaline). Types:-Serous, mucinous, Endometrioid, clear cell, Brenner (all types Bengaline).
I) Serous tumors:- Most frequent & most common Malignant (60%).
Borderline: Complex architecture, mild cytologic atypia, no stromal invasion, may have peritone (15%) implants (metastasis), recure or - carcinoma, intermediate prognosis. malignant (25%) - Low-grade serous carcinoma: - high-grade serous carcinoma:
- arise from borderline lesions - progress slowly to become invasive carcinoma - Differentiated morphology - mutations in KRAS - mutations in KRAS - mutations in TP53 - Anaplasia of cells and invasion of the stroma prognosis poor, depends on stage at the time of diagnosis.
II) Mucinous ovarian tumors: mucin-secreting cells, 80% bengn, 10% borderline, 10% malignant (cystadanocarcinoma), Large & multilocular, no psammoma boides, stage - prognosis.
[2] Germ Cell tumors L., Types:- dysgerminoma (oogonia), Embryonal, yolk sac, choriocarcinoma, Tetroma (most a
I) Benjan (mature) cystic teratoma: totipotential germ cell from mature tissues of all three germ cell legal 15-20%. ovarain, incidentally, 90% unilateral, immature is rare, torsion (10%-15%) - Aladomin Pain.
Clinical correlation for all oversen tumors:- Abd. pain, gastrointestinal compliants. Urinary frequent Ascites:- Fibroma & malisnant serous. → functioning oversen tumors:- Estrosen & androsen. → Tx:- Surgery + chemo + Radio → outcome:- not good, no screening method, malisnancy → Late
*Ectopic pregrency: implantation of fertilized ovum outside uterus, 90% in follopian tube L. predisposiny factors: tubal obstruction (So%), PID, tumors, endometriosis, IUCD. 50% -> no factor.
* Tubal malis nancies:- most common is serous (origin of tgrade) L. serous tubal intraepithial carcinoma (STIC):- fimbriated end, TP63 (90%), t with BRCA spread to omentum & peritoneal cavity at the time of presentation.

* Topic 4:- Trophoblastic diseases



partial mole: normal egg +2 spermatozoa/diploid sperm - Triploid.
early embryo formation & may contantan fetal part, chorionic villi, (69, XXY).

-morphology:-snow storm, dilated chronic villi (grapelike), covered by atypical chorionic epi.

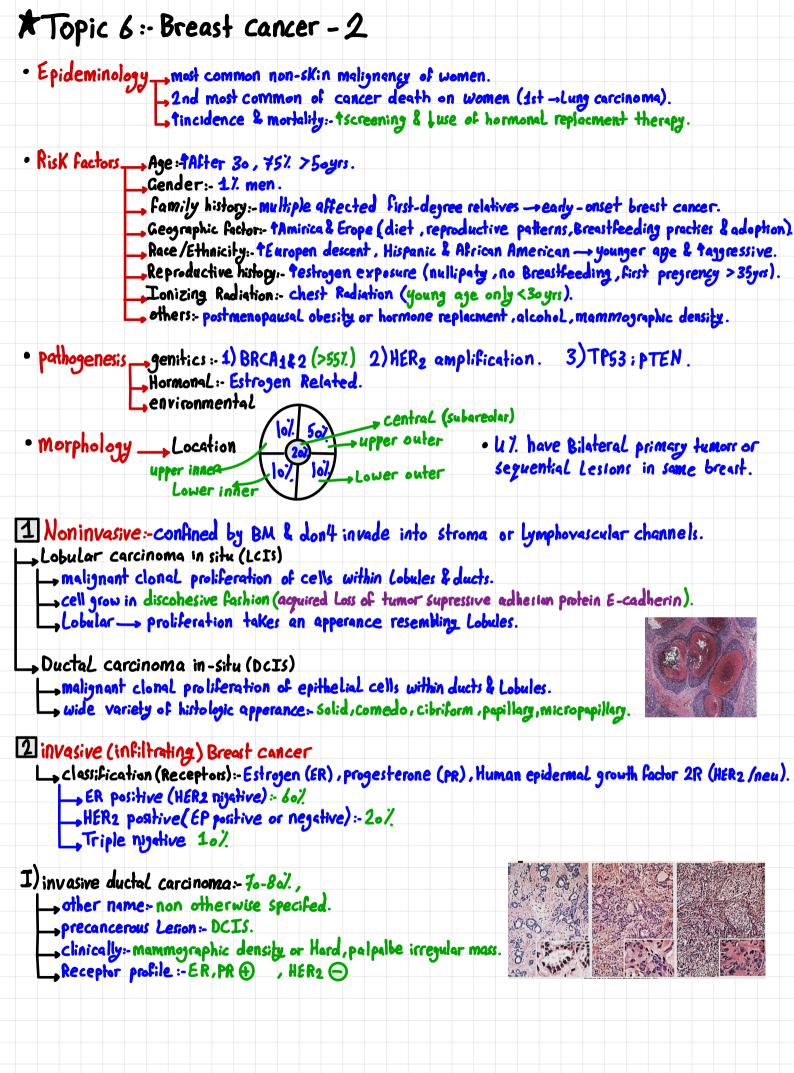
Feature	Complete Mole	Partial Mole
Karyotype	46,XX (46,XY)	Triploid (69,XXY)
Villous edema	All villi	Some villi
Trophoblast proliferation	Diffuse; circumferential	Focal; slight
Atypia	Often present	Absent
Serum hCG	Elevated	Less elevated
hCG in tissue	++++	+
Behavior	2% choriocarcinoma	Rare

incidence: 1/2000, Asian, Before meternal age 20 & after 40, tHCG & abs of fetal parts.

prognosis—complete: -80-90% → no recurrence, 10% → invasive mole (myometrium), 2% → chariocae

Lipartial: - Better prognosis, I Risk of chariocarcinama.

*Topic 5:- Breast	cancer		Luminal cells (blue) in Rez Nycopthelal cells (black) out est Intralabular stroma (green) Interiobular stroma (red)	OCOLUMN TO THE PARTY OF THE PAR
	The came is bengen Likelihood of melignan (nipple discharge & pa 45%. have symptoms	cy increases with go ([pable masses).		Trustee Principle Inner
Mammographic screening: detect early, nonpalpable The sensitivity & specific From 45-55 yearly me	ity t with age - t fibrous	in lage (radiodence) -	is & 1cm (15% to	LN) (s- 2-3cm) tage (Radiolucent
· Clinical presentations	dized due to ruptured cy	st or physical trauma		
Nipple discharge N:- 50	fruction of LN -> edema).		
- Bloody	or serous:-Large duct p	apilloma, pregrency discharge - tconc	(Rapid growth & lern For Melignan	Remodiling).
· Stromal neoplasms -Ir		ma & Phyllodes . Bir	phasic (stromal-	GF -epithist all
1 fibroadenoma:-most community enlarge	non bengn, 20-30, discrete	, solitary, movable (1-locm)	Acm
2 Phyllodes tumor: Lcommon, Leaf Like cleft & slit: noc classification Benga (60)	dules of proliferating strom	a covered by epitheliu	m	FIBROADENOMA
, Borderline	(15-262):- Higher Misk of L (8-20%):- 30%. Tecurrence	ocal recurant, LRISA	c of metastasis.	
nonproliferative changes	s:-tn of acine/Lobule.			
complex sclerosing Le papilloma:- proliferative with atypia (
atypical ductal hyper		ductal carcinoma i	n situ(OcIs).	l situ.



T			
II) invasive Lobular carcinoma:-10-15%			1974) Fa 1974
precancerous Lesion:- 43 LCIS.			
	palpable masses or mami	mographic densities.	
Histo:- Cell invade Stroma individually 4 often	n aligned in Single-file	•	
L, receptor profile: ER, PR () . HER2 rare or	6 .		
II) Carcinoma with medullary features: 5%			
micro:-Large anaplastic cells + pushing, well-c	circumscribed border + pr	ronouced Lymphocy	tic infiltrate.
no precancerous Lesion			
Threquency in women with BRCA1 mutation	ons .		
Ceceptor profile - Triple nigative.			
12) colloid (mucinous) carcinoma :- Rare.			* 74
Grossly:- soft & gelatinous.	The state of the s		
micro:- abundant quantities of extracellular	- Mucin - discorte into cl	coma	66
receptor profile : ER () , HER 2 ().	madii yaliseeli iiilo ji		
▼)Tubular carcino ma:- <5%		9,00	
clinically:- irregular mammographic densition	es		
micro:- Well formed tubules +1 grade nuclei			
Lymph node metasteses:- Rare			
prognosu: excellent.			
Recepto profile : ER + , HER2			
· features of invasive cancers.			
	es or deep fascia of che	st wall.	
,Retraction/dimpling: of skin or nipple, adhe	erence to overlying skill	n.	
- peau d'orange (orange peel): involvement of	Lymphatic pathway -> Lym	phedema & skin bec	ome thickened &
exaggereted around Hair follicles.			
 Spread of Breast cancer 		• Scree	ening
through Lymphatics & hematogenous char	nnels.	m	ammographic
to Bone, Lung, Skeleton, Liver, adrenal -	Brain , spleen & pituite	icy. $\square M$	ammographic RI.
metastases may appear many years after the	erapeutic control of prin	mazz Lesion.	
• Prognosis			
	vasive or in situ.		
Histologic grade +	umor size.		
Histologic type of carcinoma.	V involved & it's number	er.	
	istant metastases.		
estrojen/projesterone receptor expression			
_, overexpression of HER2 :- to predict respon		Hoody Herceptin	against gene product.