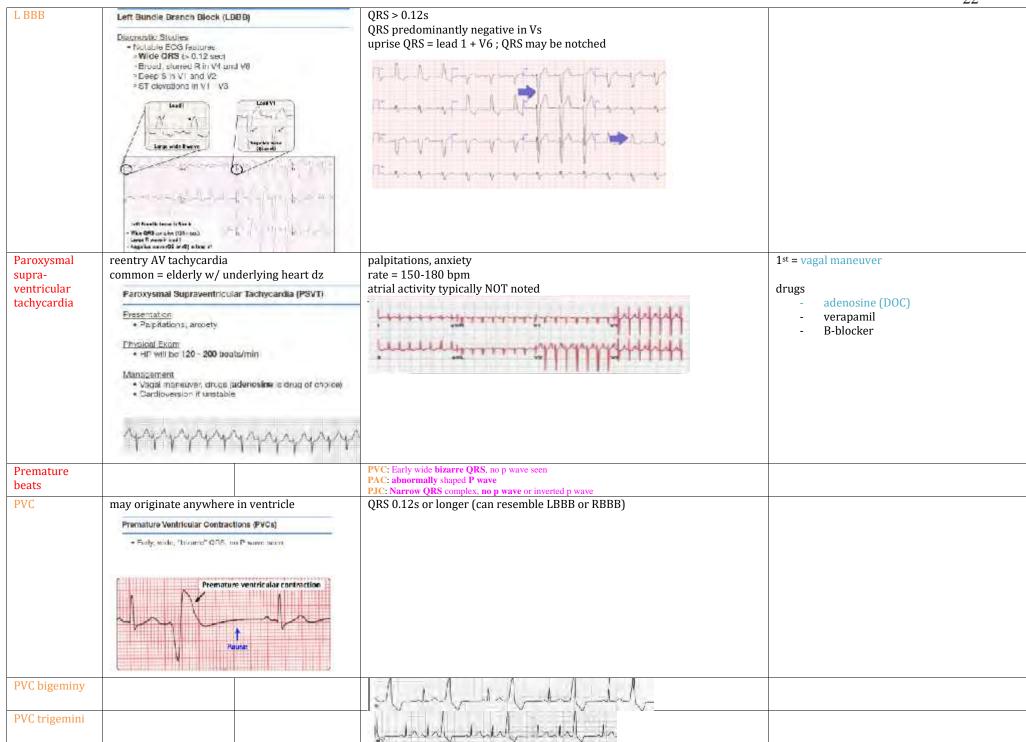
PANCE Quicknotes: Overview of Medicine

KEY:

- disorder categories (disorder systems as organized by PANCE blueprints) = BOLD BLACK AND CAPITALIZED
- disorders
 - o **red disorders** = PANCE blueprint disorders
 - o **bold, black disorders** =NOT listed on PANCE blueprint disorders, falls under a category or is something we have learned in PA school or a disorder tht keeps popping up on practice questions so its probs important
- colors coded
 - o BLUE: treatment/medications, usually mainstay treatment
 - o black = additional treatments, information, notes, etc.
 - o dark red, hella bold pink, other really bold shades of purple/red/pink that catch your eye (bright green, etc) = important information, highlight if you really think its that great
 - o orange = categories
 - green = subcategories
- shorthand
 - o $DOC/1^{st} = drug of choice/1^{st} line tx$
 - o TOC = test of choice, treatment of choice
 - \circ MC = most common
 - \circ x= not, no
 - \circ w= with
 - \circ rx = drugs
 - o stnd = standard



Restrictive Disorders: expansion of lung parenchyma; difficulty getting air INTO lungs \rightarrow overall lung volumes and capacities; FEV1 and FVC and near normal FEV1:FVC ratio

Sarcoidosis

Multisystemic, AUTOIMMUNE inflammatory granulomatous (small nodules) disorder of unknown etiology

non-caseating granulomatous inflammation in affected organ (lungmc, skin^{2nd mc}, nodes, eyes, liver) QUICK HIT: non-caseating

Erythema nodosum

Adelayed-type hypersenable by next of the most often beautiful mythematics: profes and has at the older.

Epidemiology

Clinical

Management - Soli- o'ling

Pouresis et Dalido

Contracte cuts income to

NBA De

- More common in women

granulomas = Crohn's,

berrylosis, sarcoidosis,

- N americans, AA, F, 20-40 y/o

- Disordered *immune* regulation in *genetically* predisposed ppl exposed to certain *env't* antigens

-Exaggerated T cell response, accumulation of T cells = granuloma formation → can lead to fibrosis (granulomas take up space & disrupt normal structure and fxn of tissues they form in)

- All organs affected but lung MC

- 50% asx

-common initial presenting sx= fever, weight loss, arthralgia, erythema nodosum

1) Pulm^{MC manifestations}: <u>Dry cough,</u> <u>dyspnea, CP</u>

2) Lymphadenopathy: hilar nodes 3) Skin^{2nd MC}: **ervthema nodosum**

(b/l red subcutaneous nodule on anterior legs; painful), upus pernio most specific

exam finding (<u>pathognomonic</u>violaceous <mark>raised</mark>

plaques and nodules and discoloration of nose, ear, eyes.

nose ear, eyes, cheek, and chin that resembles frost bite),

maculopapular rash

4) Parotid enlargement

5) Eye: uveitis (blurred vision, photophobia, floaters, etc.), conjunctivitis (tearing, erythema)...can develop blindness so ophthalmic exam needed!

6) Heart: arrhythmias, cardiomyopathies

7) Rheumatologic: arthralgias, fever, malaise, wt loss

8) Neuro: CN palsies, diabetes insipidus, hypothalamic/pituitary lesions

<u>Lofgren syndrome</u> = acute sarcoidosis TRIAD

1) hilar adenopathy

2) erythema nodosum

3) polyarthralgia (+/- migratory)

-Dyspnea gets worse over time, hard to take deep breath

-non-productive cough

PE- **clubbing** of fingers (hypoxemia), inspiratory crackles

image: honeycombing above

Dx made w- 1) compatible clinical/radiological findings, 2) NCGs, 3) exclusion of other dz

Biopsy: noncaseating granulomas (NCG) = composed of T helper and inflammatory cells

*usually you <u>bx a peripheral pulmn lesion or use</u> fiber optic bronchoscopy/endobronchial lung bx for central pulmonary lesions

CXR: symmetric B/L, hilar lymphadenopathy (hilar LAD=

sarcoidosis, histoplasmosis, TB, silicoisis, berrylosis), **pulmn fibrosis**, R

paratracheal adenopathy, diffuse reticular infiltrates, interstitial lung dz (reticular opacities +/- ground glass appearance), fibrosis (stage 4)

CT scanusually ordered after suspicious xray findings, Gallium scan: increased uptake in affected areas (panda sign-parotid uptake), Bronchealveolar lavage- to r/o infx causes, see ↑CD4 and ↓CD8

PFT: restrictive pattern → FEV₁/FVC: normal

FVC: normal to low Lung vol (VC, RV, RLC, FRC): low

Labs: ACE 4x norm (secreted by granulomas), HYPER-calcemia (and hypercalcuria), eosinophilia, cutaneous anergy (decreased skin reactivity to common skin allergens due to peripheral immune suppression b/c central immune system activation) leukopenia, elevated ESR.

1) Observation- most pts spontaneously remit

2) Oral corticosteroids (TOC-reduces granuloma formation and fibrosis, cause ACE levels to fall w clinical improvement); 2nd line = immunomodulators (usually if no improvement in ~6 mo); last line =lung transplant

methotrexate (SE: ↑LFT= liver)

ACE-I = for periodic HTN

f/u = yearly exams minimum -echo, EKG = yearly -serial PFTS = assess dz progression, guide tx -chest xray -labs

complication= pulmonary fibrosis #1 cause of death

Idiopathic Pulmonary Fibrosis

Clinical

Constitutional Paver, talkque, weight loss, polyactriffe

Pulmonary, Cough, hammatysts, dyspense on america

Neurologia: Boli paísy, portoheral reuropamies. Skito: Subcurarieous nodules, lúpus perrito

Cardiac head latine, dystrythmes

Lymphadenopalty

Ophthalmologic: Uveits, conjunctivits

"Idiopathic fibrosis interstitial pneumonia"

Chronic progressive interstitial scarring (fibrosis) from persistent inflammation, leading to loss of pulmonary fxn w restrictive component -scar tissue formed by excess collagen → progressive loss of lung tissue → less surface area for gas exchange

- Unknown cause

- intend out plany, left-palance the HOS Married

Diego (Surumanaka Pendi ny. 4 enjari 2005).
 Systema: Cartoldedia, tymphona, Lucia 100;

liender erythemetass nocules on blavers, shins Passinia Interdess producter

Most common in women, or he's second to to an idensity

Nodules typically receive without scarring after 6 weeks

- Men 40-50 y/o

RF: amiodarone, nitrofurantoin, sarcoidosis

MC interstitial lung dz

CXR- progressive **fibrosis**CT- **diffuse patchy fibrosis**,

honeycombing/ground glass (diffuse reticular opacities)

Biopsy: honeycoming

PFTs- restrictive pattern[lung volume, norm/↑ FEV1/FVC ratio]

r/o other causes (ie rx [amiodarone], environmental/occupational exposure [silica, hard metal dust], smoking, viral infxn, XRT, GERD, genetics)

- Stop smoking -possible corticosteroid for inflammation
- Oxygen therapy
- Lung transplant = only cure

	location = medial aspect in popliteal space				
meniscal/	develops @ any age ligament involved	cause = trauma	-presents w pain + effusion	MRI	-knee immobilization
,	depends on mechanism of		-hemarthroses = common	physical exam	-crutches
ligament injury	injury	,,	-meniscal injury = joint line pain,	physical chain	-analgesics
	, ,		effusion, locking/ popping		-ortho consult
	meniscal injuries		-ligament injury = popping of		
	commonly associated w/	•	knee, inabililty to bear weight,		
	ligament injuries		swelling		
	meniscus/ligament	mechanism of injury			
	meniscus	twisting or HYPERflexion	drawer test = cruciate ligaments		
	medial collateral	blow to lateral aspect of leg			
	ligament	or lower thigh	lackman = ACL		
	lateral collateral	blow to medial aspect of leg	pivot shift test = ACL		
	ligament	or lower thigh	bulge test = effusion		
	anterior cruciate ligament	sudden deceleration or rotation			
	posterior cruciate	external force on anterior	Mcmurray= pt supine, knee flexed		
	ligament	aspect w/ knee flexed	& externally (medial meniscus) or internally (lateral meniscus)		
		OR	rotated, then extended →pain =		
		forced hyperflexion or	tear		
		hyperextention w/ varus/	tear		
		valgus force	apley = pt prone, knee 90 degree,		
			axial loading w/rotation =causes		
			pain = meniscal dz		
achilles tendon		RF: floroquinolone	-pop or snap and sudden calf pain		-posterior splint in plantarflexion
rupture		drugs, older pts,	-Thompson squeeze test = lack of		-ortho consult
		deconditioned athlete	plantar flexion with calf squeez		
Upper extremit	y disorders				
Fractures					
shoulder	clavicle = very common i		-holds ipsilateral arm close to	-check neurovascular status	-figure 8 or cradle sling
fracture	pediatrics	outstretched hand)	trunk		

Condition Notes	Etiology/Who	Presentation	Diagnosis	Treatment
	fissures/ abscesses" & extraintestinal manifestations (ex. oral ulcers)	- Complications: fistula*HALLMARK, carcinoma (colon CA risk), malabsorption (gallstones, nephrolithiasis, B12 deficiency), abscess, obstruction, perianal disease	appearance, bx shows granulomas -endoscopy=same as colonoscopy - Barium enema: string sign: barium through narrowed area (inflamed/scarred) d/t TRANSMURAL strictures - Blood tests may show ↑ESR, anemia, and nutritional/'lyte imbalances -ASCA + (anti-saccharomyces cerevisea antibodies)	**SE: osteoporosis, finfxn weight gain, edema, cataracts - Immune modulators= steroid sparing- methotrexate, azathioprine, 6-mercaptopurine - Biologic agents (anti-TNF agents): infliximab, adalimumab, Crohns
b) Ulcerative Colitis - Autoimmune inflammatory disease of mucosal surface of colon and rectum = LONGLASTING INFLAMMATION AND ULCERS - Disease is contiguous (not segmental) - More superficial than Crohn's (US =not transmural limited to mucosa and submucosa = INNERMOST LINING of colon) - Mucosal ulcerations seen; anal involvement rare complications = colon of toxic megacolon	MC site = rectum *	- Abdominal pain (LLQ, colicky), mucous and bloody diarrhea (hematochezia), tenesmus (aka fecal urgency; feelings of incomplete defecation) -extracolonic sxs (erythema nodosum, primary sclerosing cholangitis, etc.) -fever, weight loss, fecal urgency/incontinence, anorexia -blood mucous containing diarrhea -pus filled diarrhea -exam= pale tachycardia, fever, distention, tenderness LLQ, heme +stools - Complications: toxic megacolon, colon cancer, anemia, sclerosing cholangitis	- Flexible sigmoidoscopy (TOC in acute dz), minimize risk of perforation - Colonoscopy + bx - AVOID IN ACUTE DZ; continuous/ uniform inflammation w/o skip lesions, starting from rectum and extending proximally, loss of haustra markings (sandpaper appearance), lumen narrowing, pseudopolyps - Barium enema: stovepipe sign (lead pipe colon = loss of haustral markings) - Note: avoid colonoscopy and barium enema in acute dz b/c of risk of perforation and toxic megacolon (KUB= colonic dilation (toxic megacolon) (KUB= colonic dilation (toxic megacolon))! - Common lab findings: anemia, ↑ESR, ↓ serum albumin - pANCA + (antineutrophil cytoplasmic antibodies; x always though) -labs: ↑ WBC, ↑ ESR, ↑ CRP, anemia, ↑ alk phosphatase and y-glutamyl transpetidase (if major colonic involvement, suggests	refractory fistula, abscess, perianal dz unresponsibe to rx tx), intractable or fuliment dz, massive hemoorhage, CA ppx, colon CA= surgery - Surgery is NOT curative- colon segmental resection (reserved for tx complications like bleeding, abscess, or obstruction) **AVIODANCE of surgery is desired in crohn's dz (hx of recurrence) - k smoking (critical for reducing frequency and severity of attacks) - If malabsorption, supplements- vit B12, folate, vit D -anti—diarrheal agents NOT good option; may cause ileus in these pts Ulcerative Colitis - Surgery = curative - total broctocolectomy MC, colectomy **indications for surgery: toxic megacolon, colonic perf, extracolonic dz - FYI: Çrisk developing colon cancer, so need screening colonoscopy w biopsies every 1-2 yrs, starting 8-10 yrs after dx -check q 1-2 years: vit D, B12
Crohn's Disease 1)Segmental Involvement of small or large intestine (whole wall, mouth to anus), skip lesions, cobblestone appearance of bowel,		of colon (not whole wall involvement, ds proximal), "lead pipe colon"		DECERATIVE COLITIS
fistula formation mouth to anus, spares rectum = any GI muco ALL layers = transmural 2) Non-caseating granulomas	sa start = rectum → extend only mucosa & submucos X granulomas	a	POLICAGE DIADRHIA WITH REDOMARL DIFFE ENTIREM S PRINCIPLES & WEIGHT 1095 ENTIREM S	CO NECOCO III CO NICE CONTROL IIII CONTROL I

Colonoscopy: pseudopolyps/ulcers (formed by regenerating mucosa)

s/s- bloody Diarrhea, LLQ pain, mucoid diarrhea for days, wks, months and then subsides and recurs

pANCA +

Marked ↑ risk colon cancer

3) Colonoscopy: **strictures**/ulcers

5) Cancer risk rare

days to wks

4) **ASCA** may be + (Anti saccharomyces cerevisiae a.b.)

6) s/s- recurrent abd. RLQ Pain, D, fever lasting

Condition Etiology/Who **Notes Presentation Diagnosis** Treatment Thyrold Function Test Interpretation Thyroid disorders TSH Frant's **Enthypoid** Normal Normal Nome - None Ltm High Hyperthyroidem Normal Normal · Subdiress trypentryrischen Normal . TS too rose E-W TSH = best test · Thereichia T4 = most important Low High Hyperthyre dism in the elderty or with comorbic liness Eutrym disick syncrome 130 LOW Central Inconvendent · Subdimos hypothyroidism High Normal · Recovery from surbyroid sick syndrome Primary hypothyroidism ligh-NO. Hali · TSH preducing distaly adenums Hypergraves dz= diffuse toxic grave's dz Graves Graves dz --↑ T4 thyroidism goiter= MC -exopthalmus (globe protrusion; -anti-thyroid drugs= NO ervthema/swelling; d/t underling - TSH methimazole (preferred in children, fewer -women> men metabolic -autoimmune dz (may endocrinopathy; note: proptosis =non--positive thyroid stimulating se) **or propylthiouracil** (preferred immunoglobulin (TSI) in pregnancy) speeding up have + ANA. family hx. endocrine globe protrusion), pretibial incidence of other inhibit hormone synthesis myxedema (hydrophilic watch for low WBC w/tx autoimmune dz [PA. DM]) glycosaminoglycans [hyaluronic acid] in -radioactive iodine radioactive idodine uptake = diffuse dermis; b/l symmetric NONPITTING thyroid activity high uptake toxic nodular goiter yellow/brown to red/waxy papules, nodules monitor for hypothyroidism and plaques on shin; tx: high potency topical -elderly, no eye or skin -beta-blockers (propranolol) = sx: steroids & intralesional steroids), goiter changes tachycardia, tremor, diaphoresis, (w/anterior neck bruit), lid lag anxiety, palpitations -appetite change, diarrhea, thyroiditis proximal m. weakness (fact: distal Thyroid storm m. weakness =common in peripheral -propranolol = avoid in heart failure thyroid storm neuropathies), sweating, weight loss -hydrocortisone = inhib hormone -life threatening -exertional SOB, palpitaitons release, impaire hormone production; **-precipitated** by trigger -fatigue, HA, heat intolerance, esp important if exogenous thyroid stress, infxn, surgery, hvperacitivity. irritability. rleease trauma menstrual disturbance -treat underlying cause -mortality is high -thiourea drug (stop 1-2 wks before (amenorrhea) radioactive iodine [propylthiouracil]) -lugol's solution = inhib hormone thyroid storm: **HYPERMETABOLIC** release -high fever, tachycardia, shock, -radioactive iodine = definitive tx. dehydration, delirium, CHF, delay until euthyroid: agitation/anxiety/psychosis (AMS), -avoid ASA d/t displacing T4 &↑T4 level N/V/D, Tremors, Lid lag, Palpitations, Liver failure Thiourea Drugs MOA CI & Monitoring Methimazole Inhibits organification of iodine, blocking formation of thyroid hormone Methimazole carries greater risk of teratogenicity and goes more Hypersensitivity (tapazole) into break milk than PTU Breast Feeding (ok if •prevents thyroid hormone synthesis •Pruritis, rash, urticarial, Joint pain PTU) •Abnormal taste, N/V, fulminant hepatitis USE IN 1st TRIMESTER & STORM •Agranulocytosis, aplastic anemia Propylthiouracil (PTU) Inhibits organification of iodine, blocking formation of thyroid hormone AND decreases PTU greater risk hepatotoxicity than methimazole Monitor: Thyroid conversion of T4 -> T3 BBW hepatotoxicity •LFT *first line for prego or breast feeding •CBC

Condition	Notes	Etiology/Who	Presentation	Diagnosis	Treatment
					**adults = LR 4 ml x wt(kg) x % BSA
3 rd degree	full thickness burn	cause = immersion scalds,	-skin is white/leathery w/		skin grafting = needed unless
full thickness	destroys epidermis + dermis	flame burns, chemical & high voltage electrical injuries	underlying clotted vessels -NO PAIN= NUMB		burn is small (<1 cm in diameter)
4 th degree into bone and muscle	full thickness destruction of skin, subcutaneous tissue, fascia, muscle, bone & oter structures	cause = prolonged exposure to the causes of 3rd degree burns	-into bone and muscle		requires debriedement & reconstruction of tissues
lacerations					
Pressure ulcers	classifications -stage 1 = non-blanchable hyperemia -stage 2= extension through epidermis -stage 3 = full thickness loss -stage 4 = full thickness wounds w/extend into muscle, bone, supporting structures	RF: immobility, reduced sensory perception, moisture (urinary/fecal incontinence), poor nutritional status, friction/shear forces, hospital stay for acute illness	-red skin that worsens over time, area forms a blister then an open sore -MC locations = buttocks, elbow, hips, ankles, heels, shoulders, back, back of head -ulcers in which the base is covered by slough (yellow, tan, grey, green, brown) or eschar (tan, brown, black) = unstageable		-remove necrotic debris & maintain mosit wound bed -pressure-reducing device = improves healing rates -prevention - specialized support surfaces - patient repositioning - optimizing nutritional status - moisturizing sacral skin
Stasis					
dermatitis					
VASCULAR AB	NORMALITIES				
Cherry					
angioma					
Telangiectasia					
Vesiculo-					
bullous					
disease					
pemphigus					
(bullous) Pemphigoid	auto-immune attack on basement membrane → result: subepidermal blistering	most common bullouse autoimmune dz of elderly (60-80yo)	-mild redness, itching, irritation -asx	-punch bx	-topical or oral corticosteroids

vasomotor	d/t tempe change, strong smells, humidity, spicy food	common in elderly			
allergic rhinitis = hay fever	d/t airborne allergic particles which intitiate IgE mediated mast cell histamine release	seasonal (hayfever = ragweed, grass, tree pollen) or perennial (house dust mites, animal dander, mold) type 1 hypersensitivity rxn = starts w/exposure to allergen	-sneezing, nasal secretions, nasal congestion -itching eyes, post-nasal drip, cough -worse in AM exam -edematous mucosa = pale pink/ blueish violaceous boggy turbinates distinguishes allergic rhinitis from viral rhinitis -cobblestone mucosa of oropharynx (cause = postnasal drip) -clear secretions -nasal polyps; worse in AM -watery eyes -allergic shiners = dark circles (blue discoloration) under eyes d/t congestion (histamine release → vasodilation) similar to bruises; -allergic salute: transverse nasal crease from pushing up on nose (wiping up on nose)	radio-allergo-sorbent test = serum IgE Antibodies against specific allergin skin-prick test = identify triggers eiosinophils = nasal smear *QUICKHITS: major causes of eiosinophilia (mneumonic: NAACP) -N: neoplasms (CML, hodgekins lymphoma) -A: allergy/atopy -A: asthma, addison (hypoaldrenalism) -C: connective tissue disorders (ie: churgg strauss) -P: parasitic disorders (lymphatic filiariasis, toxacara, trichionosis, strongyloides; NOTE: glardla, malaria and babesia do NOT produce eiosinophilia) **MC cause eiosinophilia worldwide = helminth infx; MC cause in industrialized nations = atopic dz	-allergic avoidance, saline irrigation -topical intra-nasal steroids line = perisistant sx, 1st line if allergic rhinitis or nasal polyps -mast cell stabilizer: cromolyn sodium= can take 2-6 wks for full therapeutic ffect -antihistamines - 1st generation H1 block (sedating) = diphenhydramine, hydroxyzine - 2nd generation H1 block (NON-SEDATING, preferred over 1st gen) = loratidine, fexofenadine, cetirizine (Zyrtec), azalestine -sympathomimetic = ephedrine, pseudoephedrine -intra-nasal decongestant; do NOT use more than 3-5d (SE: rhinitis medicamentosa= rebound congestion; ts; discontinue irritant, +/- topical steroid during withdrawal period; limit use <3- Sdays) = pseudoephedrine, oxymatozoline, phenylephrine -immunotherapy= severe allergic rhinitis or failure to respond to rx tx (ie: antihistamines, intranasal steroid) and allergic avoidance (biologics: omalizumab, mepolizumab, dupilumab)
Sinusitis	MC location = maxillary, followed by ethmoid, frontal & sphenoid (frontal develops as young child, sphenoid early 20s) complications = osteomyelitis, cavernous sinus thrombosis, orbital cellulitis Sinuses - maxillary= under eye - ethmoid = lateral wall nose - sphenoid= bridge of nose, midhead - frontal = forehad	d/t impaired mucocillary clearance & obstruction of ostiomeatal complex *accumulation of mucous secretions & edema d/t reduced clearance of mucus common following URI sx causes: viralmc, BACTERIAL	-pain + pressure over sinus; worse w/bending down or leaning forward -discolored, pururlent nasal discharge -fever, malaise, headache, tooth pain -PE: tenderness to palpation over sinus, opacification of sinus w/ transillumination	x-ray= opacification, air fluid levels, thick mucosa; not routinely indicated **waters view is good initial screening if chronic CT = TEST OF CHOICE, gold = bone destruction air fluid levels, thick mucosa; NOT ROUTINELY INDICATED, use if recurrent acute/chronic presentation or anatomic abnormalities suspected	-NSAID for pain, saline washes, steam, -oral decongestants = pseudoephedrine -nasal decongestants = oxymetazoline -Abx = if sx > 10 d without improvement; fever > 102F and/or pururlent nasal discharge; rapid worsening of sx after initial improvement *give Abx for 5-7d in adults - In line = amoxicillin (usually in
acute	sx < 4 weeks	pathogens = viral (rhinovirus, parainfluenza, influenza, RSV), bacterial (S. pneumonia, H influenze, M catarhalis), fungal (immunocompromised; rhizopus, mucor, aspergillus)	VIRAL BACTERIAL SX < 7 d b/l purulent nasal discharge	-sputum/nasal culture = NOT usually relaible	kids for 10-14d; 500 mg TID or 875 bg BID) o augmentin (amox- clauv) 1s: in adults (500mg/125mg TID or 875/125 BID), use if

Condition	Notes	Etiology/Who	Presentation		Diagnosis		Treatment
CYTOPENIAS	ı						
Anemia				Iron-Deficiency Anemia	Anemia of Chronic Disease	Thalassemia	
			MCV	Lownormal	Low/normal	Low/normal	
			RDW	High	Normal	Nomal	
			Iron	Low	Low	Normal/Ngr	
			TIBC	High	Normal/low	Normal	
			Ferritin	Low	Normal/n gh	Normal	
			Transferrin saturation	Low	Low/Normal	Normal	
			Transferrin	High	Normal	Normal	
			MCV = mean corpu RDW = réd del dist TIBC = total iron bir	ribution width			
anemia of chronic dz	seen in infxn, inflammatory dz, malignant, renal dz		feeling weak of HA paleness SOB	or tired	deficiency		treat underlying cause
aplastic anemia	decrased production in all cell lines	cause = damage to stem cells d/t acquired or genetic, toxin, radiation, immunologic NSAID, chemo, rhloramphenicol, EBV, CMV, parovirus B19	weakenss & fa pallor, purpur		pancytopenia		bone marrow transplant
folate deficiency	macrocytic anemia	cause =inadequate dietary intakemajor cause; other causes= alcoholics, person	are NO NEUR		megaloblastic b macro-ovalocyt hypersegmente	tes,	daiy folic acid 1 mg
	body stores only 4 mo of folate; absorbed in proximal jejunum	who does not eat fresh fruits/veggies, person who overcooks food,	-glossitis, ang	uiar cheilosis	reduced folic ac	cid levels	
	folic acid requirements are increased in pregnancy, hemolytic anemia, exfoliative skin dz	drugs that interfere w/ absorption (phenytoin, trim-sulfa, sulfasalazine)			normal serum I acid	B12, methylmalonic	
B 12 deficiency	macrocytic anemia essential for normal nuclear maturation diet is the ONLY source of intake; total body content 2-5mg; body stores last years; absorption in terminal ileum	RF: vegans, persons w/hx of abd surgery (gastrectomy, resection)	-neurologic s gait abnorma -affects pyran posterior colu -glossitis -anorexia -diarrhea -loss of vibrat	nidal tracts + ımn	macro-ovalocythypersegmenter-low B 12 serure-elevated methy-schilling's test	tes & ed neutrophils n ylmalonic acid	-B12 100 mcg IM/SC injections = daily for 1st week, weekly for 1st mo, montly for life -oral replacement B12= once intital correction has occured

Condition	Notes	Etiology/Who	Presenta	tion		Diagnosis		Treatment
		triggers: stress, menses, oral contraceptives, alcohol, food (cheese, chocolate), lack of sleep, glare, weather changes, physical exertion, fatigue,	- agg +1 of the fol - n/v	ravated by a lowing				- propranolol - amitriptyline - clonidine - verapamil
		head trauma	- nun - par	toma mbness esthesias ralysis				-cafergot -sumatriptan = 5-Ht receptor agonist - AVOID IN HTN OR CAD -analgesics
INFECTIOUS	DISORDERS		pur	aryoro		<u> </u>		
Encephalitis	infection of brain parenchyma	causes = herpes most common, entervirus, EBV,CMV, measles, eastern & western equine, St. Luis, varicella, west nile virus	altered ment -sings of upp lesion - exa - spa	er motor neur	ron	- lyn - 1 /n - pr	eture CSF analysis mphocytes orm glucose otein ommon sequelae after	-supportive = acetaminophen -acyclovir = herpes simplex, varicella zoster -ganciclovir or foscamet = CMV -AVOID steroids
Meningitis	inflammation/infection of meningies	cause= bacterial **most common = Strep pneumo -neonates = gram neg bacilli, streptococci, listeria -children<15yr = H. influenza type B, N meningitis, S pneumo -adults >15yrs = S. pneumo, meningitis, gram neg bacilli, listeria (>60 yo)	bacterial -HA, nuchal r in mental sta -rash: petech -kernig sign: degree AND l degree → ext pain or limite positive -brudzinski = with legs stra	rigidity, fever,	sieria) to 90 00 e elicits s			S pneumonia -1st choice = PCN G, ampicillin, ceftriaxone -2nd choice = vancomycin, chloramphenicol N meningitides -1st choise = PCN G, ampicillin -2nd choice = ceftriaxone H influenza -1st choise = ampicillin, ceftriaxone -2nd choice = 3rd gen cephalosporin, chloramphenicol
		-HIV pts = Cryptococcus			CSF Analys	isc		
			Press. WBC PMN Lymphs	Bacterial High ≥100 >80% <20%	Viral High ≈50 <50% >30%	Fungal High >50 <50% >50%	Normal <5 None 100%	Listeria -1st choice = ampicillin, PCN G -2nd choice = TMP/SMX S. aureus
			Protein Clucose	>100 <20	>50 >50	>50	<50 >50	-1st choice = nafcillin -2nd choice = vancomycin
								Gram neg bacilli -1st choice = cefotaxime or ceftazidime PLUS aminoglycoside -2nd choice = meropenem + aminoglycoside Pseudomonas -1st choice = cefepime + tobramycin

Condition	Notes		Ftiology/Who	Presentation	Diagnosis	Treatment 233
Persistent Depressive Disorder (Dysthymia) think Eeyore from Winnie the Pooh	mild, chronic form of m depression -sx less severe vs major depr Distinguished from MDI pts state they have alway depressed Course/Prognosis: -Insidious onset of sx prior to age 24 -Often do not seek care for at least 10 -Early onset pts at risk for either MD disorder - 20% progress to MDD - 15% progress to Bipolar II -Prognosis generally good with treatments.	D by fact s been in half pts D or bipolar	RF: women <64 yo, unmarried, young, low income, often seen w/other metal disorders, onset in childhood/ adolescence/ early adult -Sleep- alteration of REM sleep patterns -Psychosocial factors: Possibility of difficulties w personality and ego development, early life interpersonal disappointment, disparity btwn actual and fantasized situations -More common in pts with chronic, disabling conditions	Typical presentation- depressed mood that lasts most of day, is continuous, assoc feelings of guild, irritability, anger, inadequacy, loss of interest, inactivity, & withdrawal from society More subjective than objective (more sx than signs of depression) -No psychomotor agitation/retardation Depressed most of time for at least 2 yrs (1 yr for children/teens) and never w/o sfor more than 2 mo - Sx cannot be better accounted for by MDD (does NOT meet severity for MDD) & never had manic (r/o bipolar 1) or hypomanic episode (r/o cyclothymic dz) -Requires 2 or more when depressed -Poor appetite/overeating -Insomnia/hypersomnia -Low self esteem -Poor concentration or difficulty making decisions		-combo rx + psychotherapy = most effective vs either alone -Cognitive therapy -Behavioral therapy -Insight-oriented psychotherapy -Interpersonal therapy -Family/group therapy -Pharmacotherapy -SSRI Venlafaxine -Bupropion (all effective) -Possibly MAOIs Hospitalization =not generally indicated
Premenstrual Dysphoric Disorder (PMDD)	Somatopsychic illness tri by changing levels of sex that occur w ovulatory m cycle	steroids		Feel hopeless -Non-functional -Starts ~1 week prior to menses: LUTEAL PHA: -+1 or more required:	SSRIs Alprazolam = benzo w high addiction potential and nasty complication if abruptly withdrawn , AKA we don't like this drug that much for these pts	
SUS, want on experience introd. Shoop, or sometime to ensure that are in Table 1 ACOS Discounted Criterian Pate treats to read of the felloging beauting reason to each of the English Pate treats to read of the felloging beauting reason to each of the Acos - Ac	E-SA JURAS (U) Inth [Xm ma pureed (PMS) in PAGE into a Sobre or sensite personne de insternation de instern	for continuous and a second se	Long plant and by Mich where is instruction; where is a surface and where is a surface and where is a surface and where is a surface and is a surface and where is a surface and is a surface and where is a surface and is a surface and where is a surface and is a surface and where is a surface and is a surface and where is a surface and is a surface and where is a surface and is a surface and where is a surface and is a surface and is a surface where is a surface and is a surface and is a surface where is a surface and is a surface and is a surface where is a surface and is a surface and is a surface where is a surface and is a surface and is a surface where is a surface and is	- Marked Intribulity of anger/confinet - Marked depressed mood, feelings of hopelessness, self-deprecation - Marked anxiety, tension, "on edge" -+1 or more following must additionally be present: - ↓ interest in usual activities - Subjective difficulty in concentration - Lethargy, easily fatigued - Marked change in appetite - Hypersomnia/insomnia - Sense of being overwhelmed or out of control - Physical sx: breast tenderness or swelling, joint/muscle pain, bloating or weight gain **Must have 1 in each category then 3 more out of the 2 categories -In majority or menstrual cycles, at least 5 sx must be present in last week before onset of menses, start to improve within few days after onset of menses, and are minimal/absent in week post menses -Sx include Irritability - Emotional lability - Headache - Anxiety - Depression		Support for pt is essential If severe, consider other mood and anxiety disorders as cause of symptoms
post-partum depression			RF: PDD in previous pregnancy strongest RF	 Somatic symptoms of edema, weight gain 	SSRI (sertraline) most common rx	
Suicidal behaivor	single most important elem constant awareness of the possibility that it exists -women = more likely to a suicide -men = more likely to be su -completed suicides = caus firearms -attempted suicides: cause: ingestion (MC= antidepres	ttempt uccessful se:	RF= SADPERSONS(male, age, depression, previous attempt, excess alcoholy advances benefits of suicide completion, loss of rational thinking, lack of social support, organized plan, no spouce, sickness), peak attempts 25-30yo (men), 45-50yo (women); Caucasian; protestants; lives alone; bereaved; unemployed; poor health status; impusive; rigid in thinking; faces stressful events; has made direct verbal warnings; has made plans or past attemtps;	-all pts = emergent psych eval -if thoughts of suicide = assess intent and plan		-needs emergent psychiatric eval -if pt is at risk of hurting themselves or others, law allows holding pt until further eval completed

antagonist

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	detect cannabis for up to 4 weeks	- serious adverse effects caused by	inhaling the same carcinogenic hydrocarbons (r	risk for chronic respiratory dz and lung CA)	
	after use	-Long-term cannabis use may be as	ssoc. w cerebral atrophy, seizure susceptibility, ostosterone concentrations, dysreg of menstrual c	chromosome damage, birth defects, impaired	
	Additive sx to those of alcohol if	-	stosterone concentrations, a joreg or mensiraan e	yeles	
	used together (very common)	Cannabis withdrawal -usualy within 24-48 hrs of stoppin			
		-peak sx by day 4			
	RF: males +26 yo, between ages	-sx resolution by day 10-14			
	12-17 no diff in gender, Caucasian		s, night sweats, GI disturbance, drug sweat	6 -1	
TT 11 '	induce altered states of		olytics, CBT/motivational incentives usually su		Tallian I am at a marking to the second
Hallucinogens	induce altered states of awareness that resemble those	RF: <u>young white men</u> (15-35 yr olds), western states,	PCP (phencyclidine) = hallucinogenic rx -Most commonly an additive to a cannabis or	Hallucinogen Intoxication -Symptoms: pupillary dilation, tachycardia,	 Talking down pt, supporting/reassuring pt; diminish stimulation until wears off (quiet
	of natural psychoses	olds), western states,	parsley containing cigarette	sweating, palpitation, blurring of vision,	room), talking [helps distinguish psychotic sx
PCP (phencyclidine)	2.0		-Antagonist @ NMDA subtype of glutamate	tremors, incoordination, altered mood:	from reality]
LSD (lysergic acid	-Hallucinogens are intoxicants		receptors and dopaminergic neurons of the ventral tegmental area	euphoria, vividness of real/fantasied	
diethylamide)	(common are LSD, Ecstasy,		-violent or bizarre behavior, horizontal +	sensory illusions/hallucinations, synesthesia	-oral diazepam (oral/IV valium) if severe
, ,	PCP)		vertical nystagmus, disorientation,	(overflow from 1 sensory modality to another)	panic, rapid relief of intense anxiety when rx
DMT	-Physical dependence/withdrawal		auditory hallucinations	confusion, time slowing, loss of body boundaries, grandiosity, omnipotence	wears off
ahma ama (ili-)	sx do not occur		-tx = benzo	-adverse rxn = acute panic attack,	-Dopaminergic antagonists (Haldol) used for
shrooms (psilocybin)	-psychological dependence on =		Top.	flashback, precipitation of underlying	a limited time if not needed [NOTE: usually
mescaline (peyote)	common		LSD intox -dilation of pupils, ↑DTR, muscle	psychosis	avoid antipsych rx d/t adverse
	-lacks a withdrawal syndrome		weakness, HTN, tachycardia, fever	-If long-term use:Dulled thinking, ↓ reflexes,	anticholinergic rxn from hallucinogen +
			-synesthesia (sees color, hears sound)	loss of memory, loss of impulse control,	antipsych rx]
T 1 1 .	mind altering magnestics when	RF: young and poor, male,		depression, lethargy, impaired concentration	-suppurtive, Resolves spontaneously,
Inhalants	mind altering properties when inhaled/sniffed/huffed; high	Kr. young and poor, male,	Inhalant Intoxication Presence of maladaptive behavioral changes a	and at least 2 physical sy:	reassurance, quiet support, attention to vital
	only lasts a few min	Effects appear within 5 min and	-Apathy, diminished social and occupational		signs, and level of consciousness
Most used gasoline,	only maste a rewinning	Effects appear within 5 min and last 30 min to an hour	aggressive behavior	in, inputed judgement, inputsive of	signs, and level of consciousness
glue, spray paint,		last 50 mm to an nour	-Nausea, anorexia, nystagmus, depressed refl	exes, diplopia	-Coma, bronchospasm, laryngospasm,
solvents, cleaning fluids	-Tolerance for inhalants can	Act as a CNS depressant	-Irritation of eyes, throat, lungs and nose		arrhythmias, burns need to treatment
Hulus	develop	- Rapidly absorbed thru the lungs	-facial flushing, coughing, tachycardia, slu		
	-Withdrawal symptoms are fairly mild	and rapidly delivered to the brain	-erythematous rash around nose/mouth = cont thinner, lacquer)	tact dermatitis =inhaled solvents (paint, glue	Sodativa dwaga (Bangas) awa
	- Dependence and abuse of		-Unusual breath/body odors		Sedative drugs (Benzos) are contraindicated, worsen inhalant
	inhalants does occur		-Residue of inhalant on face, hands, clothing		intoxication
	-addiction uncommon but possible		-adverse rxn=coma,stupor,unconsciousness,amno	estic for period of intoxication, seizure, death	
narcotics /	Assoc. with spread of HIV, esp.	RF: males, low socioeconomic,	Opioid Use Disorder = Pattern of maladaptive use o	f an opioid drug, leading to clinically sig impairment or	-Ensure adequate airway =1st step
Opioids	in prostitutes	children of single/divorced	distress and occurring within 12-month period		-hydration
opioids		parents, substance related dz in	-Pinpoint pupils, hypotension, bradycardia	hanges and specific physical symptoms of opioid use	-narcotic anonymous
heroin	Neuropharmacology	fam hx, underlying depression		wsiness, slurred speech, and impaired memory	- Psychotherapy, behavior therapy, CBT, family therapy, support groups
oxycodone	Primary effects mediated via opioid receptors		and attention in the presence of other indicate		-opoid overdose tx = naloxone
codeine	Mu opioid receptors regulate/mediate		- tx for overdose =Naloxone (narcan) specifi	ic pure opioid antagonist	-Medically supervises withdrawal and
fentanyl	analgesia, resp depression,		 provide supplemental O2 B4 narcan- 		detoxification; treatment of addiction (long
morphine	 constipation, and drug dependence Kapa opioid receptors analgesia, 		 Signs of improvement should occur promptl withdrawal as well as reversal of over dosage 		term tx)
	diuresis, and sedation			e	Methadone = ok to use if pregnant
	Delta opioid receptors analgesia		Opioid Withdrawal -tx withdrawal=-clonidine 0.1 mg for q8hrs for	3-10d or hydroxazine (helpful for sympathetic sy	Levomethadyl (Orlaam) similar to Mathadona
	ELDI EA CEC II i		reduction, NOT cure for additction itself- does NOT		Methadone •Buprenorphine (Buprenex, Butrans)
	FUN FACTS:Heroine more lipid soluble than morphine		(suboxone) or methadone for withdrawal; loraz		Opioid partial agonist at mu receptor
	(allows it to cross BBB faster,		-lacrimation, diarrhea (tx: loperamide 2mg PO 3:	and antagonist at kappa opioid	
	more rapid and pleasurable onset		HTN, tachycardia, N/V (nausea tx = antihistamir	ne: promethazine), abdominal cramps,	receptor
	than morphine)		muscle/joint pain/ cramps (tx: ibuprofen),		 Buprenorphine with naloxone
			Adrenergic hyperactivity (CNS excitations) GI sx (abd cramping, N/V/D)	itation, tachypnea, tachycardia, HTN)	(Suboxone) = prevent overdose of
	Tolerance to all actions of opioid		3. Mydriasis		suboxone Opioid antagonist: Naloxone (Narcan,
	drugs does not develop uniformly		 Yawning, lacrimation 		•Optoid antagonist: Naioxone (Narcan, Evzio)
			5. piloerection, flu-like sx, rhinorrhe	<mark>ea</mark>	•Rapidly revere opioid OD:
			actual DSM information: withdrawal A. Presence of either of the following:		Naltrexone (Revia-oral, Vivitrol-
			A. Presence of either of the following: 1. Cessation (or reduction in) opioid use that has	been heavy and prolonged	injection)
			Administration of an opioid antagonist (ie nalo	xone, naltrexone) after a period of opioid use	**Major weakness is the lack of any mech
			B . 3 (or more) of the following developing within m	inutes to several day after criterion A	that compels a person to continue to take the
1	1	1	1		antagonist

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Condition	Notes	Etiology/V		Presentation		Diagnosi		Treatment
endometritis endometrial infxn AKA: the PID of pregnant female	infxn of decidua w/grar postivie cocci and gram negative coliforms that commonly develops on the 2 nd or 3 rd day post- partum	tachycardia -post-partum fever: common post-partum day 2-3 (48-72 hrs after) - foul smelling lochia or discharge (vaginal discharge) -uterine tenderness, abd pain -leukocytosis (CBC) -US = retain -cultropolymi -endo			common mended to see if any oducts of conception f commonly recommended; ause al bx: x routine but can x; neutrophils in um (acute), plasma ometrium (chornic)	-hospitalize + broad spectrum Vabx (clindamycin + gentamycin) or (ceftriaxone + metronidazole) O		
	DVT Day +7 = wound Surgica Absces Weird drugs = dr POD<24 hr; ASAP post-op malignant hyperthermia -anesthesia complication (Ca release m. spasms) -genetic abnormality =aut dominant -sx/dx: higher wave form capnography (maintains shape); fever -tx: lantrolene	onia ephritis etritis oophlebitis ul wound infection	nytime POD 3	POD 5 (or >72 T	hrs) POD 7	Wound dression feet Walls Wons media work of the work		chorioamnionitis = ampicillin + gentamycin o if no response after 48-72 hi = add: gram + coverage for enterococcus: aminoglycosid (-mycin), ampicillin **NOTE: endometritis tx mneumonic: ECG = Eendometritis Celindamycin Ggentamycin: clindamycin + gentamycin **NOTE: choreoamnionitis tx menumonic: CAG = Cehorioamnionitis tx menumonic: CAG = Cehorioamnionitis Aampicillin Ggentamycin: ampicillin + gentamycin -stop abx once afebrile for 24 hrs; sx tx (fluid, rest, warm baths, heating pad (Decrease cramps) Additional tx depends on cause -childbirth = Abx - remaining placental/fetal tissue = dilation & curettage -Chlamydia/Gonorrhea = Abx (doxy + ceftriaxone) -Tuberculosis= Anti-tuberculosis rx (rifampin, isoniazid, pyrazinamide, ethambutol)
Pre- conception/ pre-natal care	intitial screen -risk assessment & mater -estimated date of delive -gestational age (Naegele -complete physical exam -pelvic exam for uterine s -lab screening: CBC, UA, I Ab), serologic test for syp hx of IV rx use), rubella tite group B strep (Urine or va HIV positive or if living with	ry (EDD) = 1st day of size blood group/Rh an shilis (RPR, VDRL), F er, pap smear, tests ginal culture), tuber	tibody screen HIV, hepatitis fo chalmydia culosis skin to	(blood type, Rh and B, hep C antibody (if &gonorrhea (NAAT),	-BP, weight -edema check -routine lab se -fundal height -glucose toler -MS alpha fetc - inc - dec -Rh immune g - 28 - w/ -fetal heart to -group B strej	creening = urine t measurements cance test = @ 24 cprotein = measu rease = open neu creased = down s globulin = RhoGA wks in 72 hours of ch nes = 120-160 b p = @ 32 wks	for glucose + protein28 wks ure @ 15-20 wks ural tube defects syndrome (trisomy 21) uM	er

Condition	Notes	Etiology/Who	Presentation	Diagnosis	Treatment
TRAUMA	110000	zerorogy/ Willo	11000muuton	2 inglioois	11000110110
Physical					
assault					
Sexual assault	NOTE: physical contact does X need to occur to be considered assault (ie: forced to watch sexual acts) see more in psychiatric notes			rape=psych emergency & legal issue (documer UA, pregnancy test, culutres from vagina, anus (RPR), HIV]) -sexual assault hotline: 800-656-4673 -ppx Abx: Rocephin 250 + PO doxy (BID for 7d contraception -counceling B4 leaving ED +f/u -f/u 24-48 hrs (phone checkup), 1 wk (check u RPR), 12-18wk (repeat HIV)	, pharynx: Gonorrhea, chlamydia, syphilis), +/- tetanus toxoid, emergency
Trauma in					
pregnancy					
OVARIAN DISC	ORDERS				
Cysts	-arise as a result of normal ovarian fxn - when an ovarian follicle fails to rupture→ follicular cyst may develop (most spontaneously resolve) → follicular cyst rupture = acute pelvic pain	can be associated w/ PCOS	-mild-mod U/L LLQ or RLQ pain (depends on cyst size) -+/- alteration of menstrual interval -exam: U/L pelvic tenderness/pain on exam, palpable, mobile, cystic adnexal mass	US = cystic echo on ovary	most resolve spontaneously= if size <6-8 cm (NSAID and rest) -F/u q 6 wks w/US OCP = suppress gonadotropin stimulation of cyst
Polycyctic	chornic anovulation w/ infe	rtility; hx of irregular	-TRIAD:	mild increase in testosterone	#1 mainstay of $tx = OCP$
ovarian syndrome =PCOS	bleeding cause = insulin resistance complications (at \(^1\) risk of): hyperplasia, endometri AN SYNDROME MIDELYMB GRENTH, ACME MAN SYNDROME MIDELYMB GRENTH, ACME MAN SYNDROME MAN SYNDROME MAN SYNDROME	al carconima, HTN	1)amenorrhea/ oligomenorrhea (chornic anovulation) 2) hirsutism (course hair growth, usually midline structures: face, neck, abd), 3) obesity -hx of irregular bleed -hirsuitism, -obesity, -acne -acanthosis nigricans	LH:FSH ratio 3:1 (normal 1.5:1) US = b/l enlarged ovaries w/ multiple peripheral cysts; string of pearsl: b/l enlarged ovaries w/peripheral cysts other labs - insulin, insulin resistance = lipid panel -Glucose tolerance test = diabetes -GnRH agonist stimulation test = serum hydroxyprogesterone -↑ ovarian androgen production = LH driven - testosterone - LH:FSH ratio = 3:1 (Normal = 1.5:1)	-Normalize bleeding -Suppresses androgen Anti-androgenic agents = spironolactone = tx: hirsutism Metformin = tx: abnormal LH:FSH ratio, diabetes; Most important rx for ovulation and to assist w/infertility problems Clomiphene = tx: infertility Surgery = wedge resection, etcClomiphene ineffective + restore ovulation = if pt wants child
HEROLINTEN WITH OBERT AND HERLIN BERRICHCE	ALMOTELIA. DISTRICTION CLICAMICEONIN CRIVATHOROMIN	(DENTWENT OF TORS) WHICH LOSS, DEAL CONTRACEMINGS, SPRICHCLACTIONS		differential=endocrine dz (thyroid [TSH], pituitary adenoma [prolactin], ovarian tumor, cushing's syndrome [dexamethasone suppression test])	lifestyle changes = diet, exercise, weight loss
ovarian torsion		RF: large ovarian cyst/mass/CA	-SUDDEN sharp, non-radiating u/l lower abd pain (R side = common) -n/v, guarding, adnexal tenderness/mass -NO cervical motion tenderness, discharge, diarrhea/constipation, urinary sx,	-doppler US: intial test, diagnostic test of choice but blood flow is NOT always absent in torsion; findings: bulls eye, whirlpool, -pregnancy test = r/o ectopic pregnancy -laparoscopic surgery = gold standard	-laparoscopic surgery w/detorsion +/- oophorectomy (if necrotic) or cystectomy post op monitoring: fever, WBC, *if pregnant consider postop progresterone

Condition	Notes	Etiology/Who	Presentation	Diagnosis	Treatment
dysmenorrhea	painful menstruat normal acvities= us prescription	tion which prevents performing sually requires medication OTC or	pain w/menses or preceding menses by 1-3 d	r/o pregnancy: pregnancy test, pelvic US	primary: no pathologic cause = 1st line rx: NSAID (thuprofen, naproxen), OCP
		ed <mark>prostaglandin</mark> leading to painful	-diffuse pain in lower abd/ suprapubic; crampy, comes and goes, recurrent	laparoscopy = if +3 cycles of pain unresponsive to intitial tx; r/o secondary causes of pain	-heat, exercise, vitamin B & E secondary: pathologic cause =
	- common=1	wall activity F, teens-20 yo, declines w/ age ch before <12 yo, nulliparity, smoking, obesity	-pain associated w/ n/v, diarrhea (d/t smooth m. contraction), HA, backache,		treat underlying cause
	adenomyos cervical les - common as	ly identifiable cause: endometriosis, sis, adhesion, PID, leiomyomata, IUD, ions/stenosis, psych, s woman ages y increases in severity until end of on	-primary = normal PE -secondary= PE varies w/ etiology		
pre-menstrual		cal, behavioral, and mood	-sx occurs in most cycles, resolving near end of menses w/ a	no definitive physical or lab findings to aid in dx	-SSRI= 1st line; helps mood/ emotional sx (fluoxetine); can be
syndrome	_	s before the onset of menses mood, behavioral changes w/occur	sx-free interval of at least 1 week	-TSHrecommended during intitial labs =	administered as daily tx or cyclically 2 weeks prior to menstrusation
	in regular, cyclic re	lationship to <mark>luteal phase</mark> of	-sx = 1-2 weeks before menses -sx resolve at onset of menses	common sx, r/o thyroid etiology	-OCF: combined or progestin
	headache, bowel hab -behavioral changes	bloating, breast swelling, breast pain, bit changes, fatigue, muscle pain so poor concentration, food craving hanges: depression, irritability,	-common somatic compaints = breast swelling/pain, bloating, HA, constipation/diarrhea, fatigue, muscle/joint aches	MUST have sx free follicular phase (approx. 1 week) in contrast to problems during luteal phase; Changes =	only = physical sx; Combined estrogen- progesterone OCP is considered 1st line tx if contraception (stopping pregnancy) is a high priority; if sx relief with OCP monotherapy is incomplete add SSRI -GnRH agonist = if no response to
	aggressiveness, libid social withdrawal, co	lo changes, angery outbursts, anxiety, onfusion	-common emotional complaints = irritability, depression, anxiety, hostility, libido changes, -common behavioral complaints =	-start: 5 days before menses start = luteal phase -end: within 4 days after menses starts	SSRI or OCP -Surgery (b/l oophorectomy/ b/l salpingoophorectomy) = results in surgical menopause; last result
			food cravings, poor concentration, sensitivity to noise, loss of motor skills	-pt is sx free for ~1 week = follicular phase	-NSAID = physical sx, does NOT usually help with breast pain
PMDD (see behavioral med for more)	premenstrual syndro functional impairm work, personal relati -PMS w/ more seve emotional sx (signi	nent: ionships ere	-5 sx present in final week before menses One (or more) of the following symptoms must be present: -Marked affective lability (e.g., mood swings; feeling suddenly sad or tearful, or increased sensitivity to rejection)Marked depressed mood, feelings of hopelessness, or self- deprecating thoughtsMarked makety, tension, and/or feelings of being keyed up or on	dx= clinical -onset 1-2 weeks before menses -sx relief day 2-3 of menses -7 day sx free period (during follicular phase)	-menstrual diary -education, chart system, -diet/exercise -stress reduction
	depression, etc.) -disabling PMS		One (or more) of the following symptoms must additionally be present, to reach a total of five symptoms when combined with symptoms from above. -Decreased interest in usual activities (e.g., work, school, friends, hobbies).		alt therapies = unproven, may help -dietary calcium = 1200 mg/day -vit D
			-Subjective difficulty in concentrationLethargy, easy fatigability, or marked lack of energyMarked change in appetite; overeating; or specific food		-magnesium
			cravings. -Hypersomnia or insomnia. -A sense of being overwhelmed or out of control. -Physical symptoms such as breast tenderness or swelling, joint or muscle pain, a sensation of "bloating," or weight gain.		-complex carbs -Decrease consumption of: caffeine, Salt, Alcohol