Chief Complaint: Clinical Vignettes in Primary Care
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OBJECTIVES

- Recognize differential diagnosis for presenting chief complaint in primary care
- Determine appropriate assessment and diagnostic measures to narrow down the differential list.
- Develop an appropriate management plan, including pharmacologic interventions based on the working or actual diagnosis

DISCLOSURE



This speaker has no conflicts of interest associated with this presentation.

Clinical Vignette #1	
Chief Complaint: Annual GYN Exam	

Sam: 48year-old Hispanic Woman

- Annual GYN
- Began menses at 12 years of age
- G4P3A1L3
- Irregular menstrual cycles
- Doesn't remember date of LMP
- Last Pap 3 years ago
 - No abnormal Pap to her knowledge
- No history of mammogram

Sam: Reported problems

- Problems:
 - Lower Abdominal Pain
 - Dyspareunia
 - Bleeding after sex
 - Burning on urination
 - Abnormal vaginal discharge
- Hx: Received acyclovir for HSV positive serum; was tested for STI's via urine, negative results.

Physical Exam

- · Breasts: unremarkable
- Female Genitalia: Vulva: no masses or atrophy.
- Vagina: no tenderness, cystocele, or rectocele; abnormal vaginal discharge (frothy, yellowish discharge)
- Cervix: grossly normal, no discharge, cervical motion tenderness.
- Uterus: enlarged and tender and mobile.
- Adnexa/Parametria: no parametrial tenderness or mass and no adnexal tenderness or ovarian mass.
- Bladder/Urethra: no urethral discharge or mass and normal meatus.

DIAGNOSTICS

- What would you order?

 - CBC
 CMP
 - 3. Urine Pregnancy Test

 - 4. Urinalysis
 5. Cervical cells (liquid based)
 6. High risk HPV

 - 7. Vaginal culture (STIs)
 8. TSH
 9. Mammogram

 - 10. Pelvic Ultrasound
 - 11. CT Scan of Lower abdomen

Bleeding after sex

Burning on urination

Abnormal vaginal discharge

- 1. Wait for pap results to determine treatment plan
- 2. Treat empirically for pelvic inflammatory disease
- 3. Treat for urinary tract infection
- 4. Initiate combined hormonal contraceptives to

- Urine pregnancy:
 Negative

PID	Microbiology Chlamydia trachomatis Neisseria gonorrhoeae Mycoplasma genitalium Streptococci Gardnerella vaginalis Maintain a low threshold Not related to recent sexual activity Laboratory findings are non-specific Negative NAATs for STIs do not rule out PID Potential complications if untreated Endometritis Salpingitis Oophoritis Perrinolitis Perrinolitis Perrinpatitis Tubo-ovarian abscess	
	Treat empirically • Maintain a low threshold for PID Broad spectrum antibiotic coverage	
PID Treatment Plan	Doxycycline 100 mg BID x 14 days Metronidazole 500 mg BID x 14 days Ceftriaxone 500 mg BID x 14 days Ceftriaxone 500 mg IM x 1 Evaluate/Treat partner (60 days) Avoid sexual intercourse for at least one week AFTER completion of antibiotics Test for other STI's Test-to-cure within 3 months of treatment (NAAT preferred) – ONLY if positive for chlamydia	

• Inflammation

Pap Results

Negative HPV
 Positive Trichomoniasis Vaginalis

Diagnosis: Pelvic Inflammatory Disease

1

Cervical
Cancer
Screening

Co-testing (Pap and HPV testing)
every five years; or

Pap test alone every three years

CLINICAL VIGNETTE #2 CHIEF COMPLAINT: Vulvovaginal dryness/dyspareunia, postcoital bleeding

Annual GYN
Began menses at 11 years of age
G1P1A0L1
Sexual history: 1 partner in the last 10 years
Post-menopausal
Last Pap 2 years ago

No hx of abnormal Pap
No hx of HPV

Mammogram, negative

Average risk for breast cancer

PMH: PCOS
BMI: 39

Medications

- Type 2 DM
 - Metformin 1000mg BID
- Essential hypertension
 - Benazepril 20mg daily
- Mixed hyperlipidemia (elevated ASCVD risk) Atorvastatin 80mg daily
- Chronic UTIs
 - Nitrofurantoin 50 mg daily
- History of combined hormonal contraception, stopped 8 years ago.



Physical Exam:

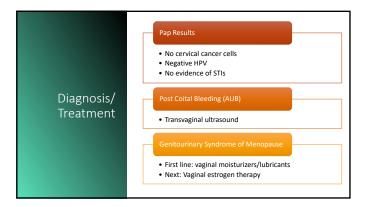
- Tissue fragilityLoss of rugaeVulvovaginal pallorThin, white vaginal discharge

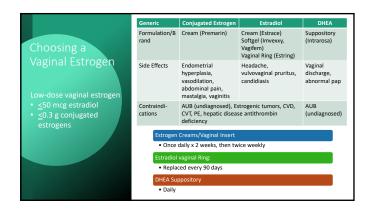
- Vaginitis/vaginosis
- Vulvar dermatitis
- Lichen sclerosis
- Lichen planus Vulvodynia

- Infectious
- Cervical, vaginal, endometrial neoplasia
 Cervical polyps

- Contraception
 Atrophic vaginal changes
 Vulvar skin conditions

(before age 11) Endometrial Cancer Risk Factors





Vaginal Estrogen & Estrogen Sensitive Cancers Endometrial, Breast Shared decision making Discussion with oncologist

Other considerations

PV may be combined with oral estrogen

Consider DHEA if barriers to estrogen

• DHEA may improve libido (modest)

Ospemifene

- Selective estrogen receptor modulator (SERM)
- No estrogen effect on breast or endometrium
- Side effects: hot flashes, increased risk of thromboembolism

CLINICAL VIGNETTE #3 CHIEF COMPLAINT: F/U ER VISIT COVID/ASTHMA

❖Nighttime wakening 1-2 times/ week



Medications Asthma/Allergies: Albuterol sulfate HFA 90mcg/actuation aerosol inhaler Azelastine Nasal Spray Fluticasone nasal spray Lumbar Radiculopathy: Gabapentin 300mg TID buprofen 800mg PTSD related depression/anxiety Fluoxetine 20mg daily Alprazolam 0.5mg, X tab every 6 hours as needed Clonidine 0.25mg 1 tab qhs as needed for sleep Attention Deficit Disorder Vyvanse 50mg qam

Which of the following is LEAST likely to be an asthma triggers for Kim

- 1. Viral infections
- 2. Stress
- 3. Benzodiazepines
- 4. NSAIDs





Can trigger bronchospasms

Increased airway inflammation

Aspirin-exacerbated respiratory disease (AERD)

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- Risk factors
- Severe or poorly controlled asthma
- Nasal polyps
- Chronic rhinosinusitis
- Family history of NSAID sensitivity
- Female gender
- Age 20-50 years
- Long-term smoking

Two Key Factors to Achieve those goals



Make the correct diagnosis

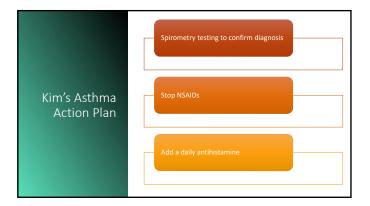


Develop an individualized treatment plan

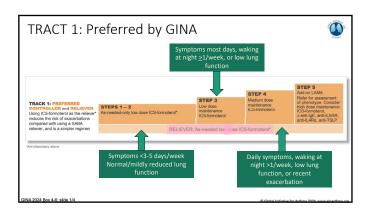
Level of symptom control
Risk factors for exacerbations
Phenotypic characteristics
Medication preference, availability, cost

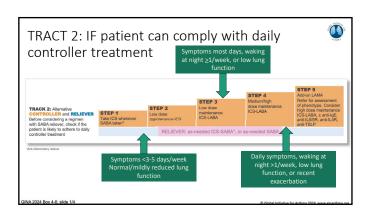
Individualized Treatment Plan Assess Symptom Control in the last 4 weeks						
Symptoms (Yes/No)		Well controlled	Partly Controlled	Uncontrolled		
Daytime symptoms more than 2 x/week			1-2 or these	3-4 of these		
Nighttime waking due to a	Nighttime waking due to asthma					
SABA reliever more than 2 x/week						
Activity limited due to Astl	hma?					
	Assess Ris	sk Factors for Poor	Asthma Control			
Further Assess	Assess comorbidities					
	Inhaler te	chnique and adhe	erence			
	Patient p	references/goals				

Main goals of Asthma Managemer	nt
Long term symptom control	
 Few/no asthma symptoms, relieved quickly No sleep disturbance Productive, physically active life 	
Long-term asthma risk minimization	
 No exacerbations Normal or near normal lung function; stable No requirement of maintenance oral corticosteroids No medication side effects 	
	GINA, 2024

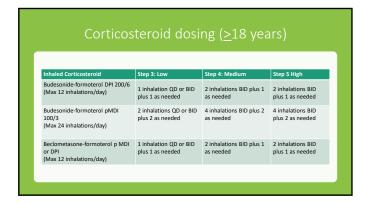


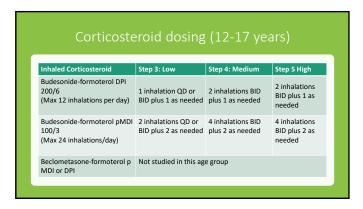
Variable Respiratory Symptoms	Wheeze, SOB, Chest tightness, Cough			
Variable expiratory airflow limitation	FEV1: decreased at leas	t once during diagnostic process		
(Spirometry or Peak Expiratory Flow)	reversibility >12%)	FEV1: increases after inhaling a bronchodilator (bronchodilator reversibility >12%) • Greater the variation, more confident of diagnosis		
	Absent bronchodil	Absent bronchodilator reversibility may be evident with:		
	severe exacerbations; long-term symptoms; comorbid COPD			





Anti-inflammatory reliever (AIR) therapy: ICS + LABA				
Generic/Brand	Delivery/Dosing	Rescue	Max formoterol	
Budesonide- formoterol MDI (Symbicort, Breyna)	80/4.5 mcg/actuation 160/4.5 mcg/actuation	1-2 puffs prn; repeat q 20 minutes up to 6 inhalations in 1	MAX: 12 inhalations/day	
Budesonide- formoterol DPI (Symbicort Forte)	100/6 mcg/actuation 200/6 mcg/actuation	hour		
Beclometasone- formoterol	100/6 mcg/actuation (DPI or pMDI)	1 puff prn Repeat in a few minutes if needed		

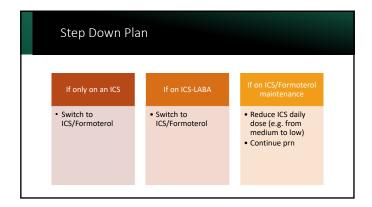


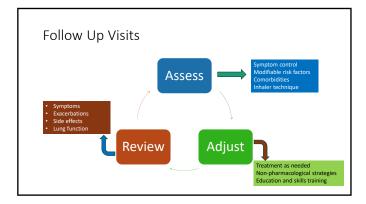


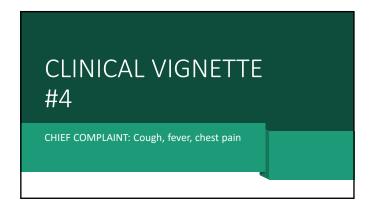
Corticosteroid dosing (6-11 years)					
Inhaled Corticosteroid	Step 3: Low	Step 4: Medium	Step 5 High		
Budesonide-formoterol DPI 100/6 (Max 8 inhalations/day)	1 inhalation QD plus 1 as needed	1 inhalations BID plus 1 as needed	Not recommended		
Budesonide-formoterol pMDI 50/3 (Max 16 inhalations/day)	2 inhalations QD plus 2 as needed	2 inhalations BID plus 2 as needed	Not recommended		
Beclometasone-formoterol p	Not studied in this a	ge group			









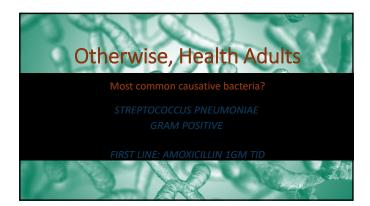


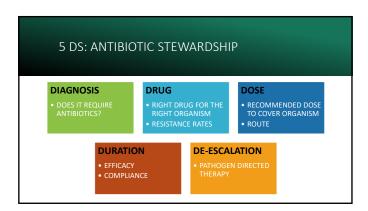
5 1 26			
Dale: 26 y.o.	viale		
CC: Non-productiv	re cough, fever, chest pain		
HPI: • No medications			
• Recent upper res	piratory tract infection dical/surgical history		
Dips skoal, social Works in the ER a	alcohol		
• WOLKS III THE EX C	is a tecil		
		٦	
	Ill appearing		
	Dry mucous membranes		
Physical	BP: 125/85		
Exam	Pulse: 114		
	Temp: 101.2		
	RR: 24	-	
		7	
Which diagnos	tic should be obtained?		
CBC: Leuko	ocytosis, Bands		
BMP: BUN,	/Cr		
CXR: Left lo	ower lobe infiltrates		

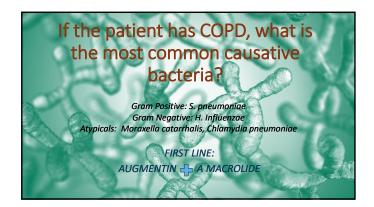
Dx: Community Acquired Pneumonia

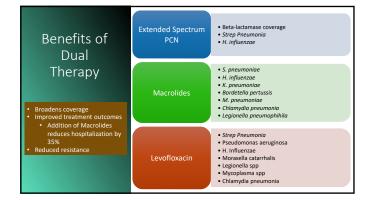
What is the first line management of Dale, 26-year-old male?

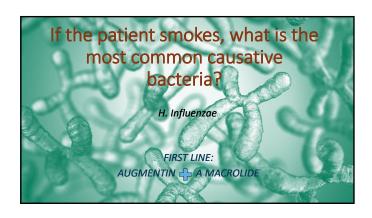
- 1. Supportive management
- 2. Levofloxacin oral
- 3. Amoxicillin oral
- 4. Unasyn IV



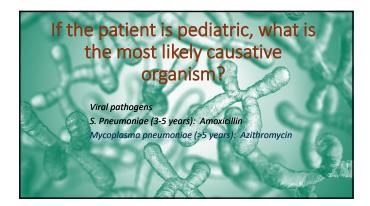


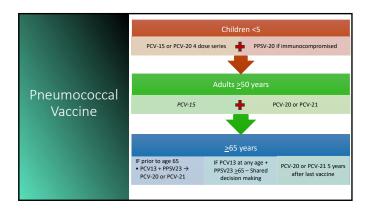






COMMUNITY ACQUIRED PNEUMONIA PATHOGENS				
Patient Characteristic	Likely Pathogens	Empiric treatment		
Influenza active in the community	Influenza, S. pneumoniae, Staphylococcus aureus, H. influenzae	Antiviral + Amoxicillin, Augmentin, 3 ⁿ gen cephalosporins, levofloxacin, moxifloxacin		
HIV infection (early disease)	S. pneumoniae, H. influenzae, M. tuberculosis	Amoxicillin, Augmentin, 3 rd gen cephalosporins, levofloxacin, moxifloxacin		
HIV (late disease)	Same as early PLUS Pneumocystis jirovecii, Cryptococcus, Histoplasma	Trimethoprim-sulfamethoxazole Itraconazole		
Exposure to farm animals or parturient cats	Coxiella burnetti (Q fever)	Doxycycline		
Hotel/Cruise Ship (last 2 weeks)	Legionella species	Macrolides; Resp Fluoroquinolones		







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