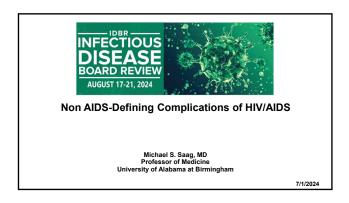
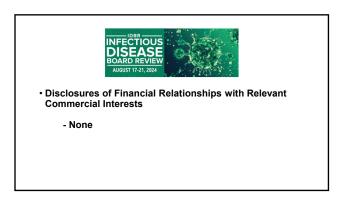
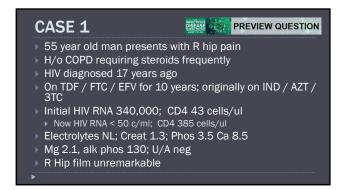
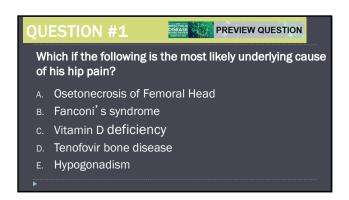
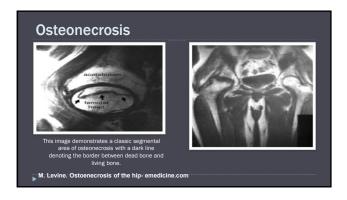
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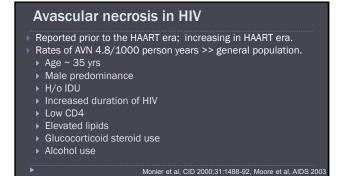




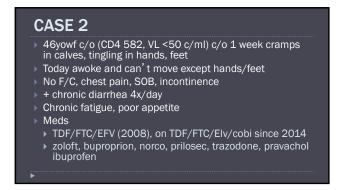








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CASE 2: Exam VS: T 98.2 P 79 BP 112/73 RR 16, 02 sat 97% Pertinent findings Neuro: CNII-XII intact, strength 1+ all extremities except 4+ hand/wrist and ankles. NI reflexes. Alert, oriented.

QUESTION #2

Which of the following is the most likely diagnosis?

A. Cocaine toxicity

B. Nucleoside-induced myopathy (ragged red fiber disease)

c. Serotonin Syndrome

D. Statin toxicity

E. Fanconi's syndrome

Fanconi syndrome Type II RTA Generalized proximal tubule dysfunction Hypophosphotemia, renal glucosuria, hypouricemia, aminoaciduria Not all have present at once Osteomalacia can occur Recovery is the rule; can take months

CASE 3

35 year old man presents with complaints of increasing fatigue, headache, SOB / DOE

HIV diagnosed 4 mos ago with PCP; intolerant to TMP/SMX

Now on TAF / FTC / BIC + PCP Prophylaxis with Dapsone

Claims adherence to all meds;

"Doesn't miss a dose!"

Normal PE

Pulse 0x 85%; CXR no abnormalities

ABG: 7.40 / 38 / 94/ 96% (room air)

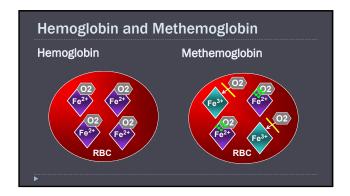
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QUESTION #3

Which of the following is the most likely underlying cause of his symptoms?

- A. Recurrent PCP
- в. IRIS Reaction
- c. Drug toxicity
- D. Pulmonary Embolus
- E. Patent Foramen Ovale

E. Faterit Forallien Oval



CASE 4:

In a 40 yo male PWH non-smoker, non-diabetic with LDL cholesterol 125 mg/dl, HDL 45 mg/dl, with an ASCVD score of 1.5%, should he be started on a statin?

- A. Yes
- в. No
- c. Not sure

>

REPRIEVE Study (started in 2015)

- > 7769 HIV⁺ men and women (30%) age 40 70 yo
- ▶ Low to moderate risk for statin use
- → All patients on ARV Rx with CD4 > 100 cells / ul
- > Randomized to pitavastatin vs placebo
- > Study stopped by DSMB
- ▶ Findings:
 - ▶ 35% reduction in CV events

F

CASE 5

- > 25 year old black woman presents with fatigue
- ▶ History of IV Heroin use; intermittently takes TDF/FTC PreP
- Exam no edema
- Work up in ER shows creatinine 8.4 BUN 79; mild anemia; mild acidemia
- ▶ In ER 10 weeks earlier; normal renal function
- U/A high grade proteinuria
- ▶ US of kidneys: Normal to increase size; no obstruction
- Rapid HIV test positive

>

QUESTION #5

Which of the following is the most likely cause of her renal failure?

- A. Volume depletion / ATN
- B. Heroin Associated Nephropathy
- c. HIVAN
- D. Membranous glomerulonephritis
- E. Tenofovir Toxicity (PrEP)

▶

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Bonus Question #1:

In a patient with HIV Associated Nephropathy, which of the following is the most effective intervention to prevent progression to ESRD?

- A. An ACE inhibitor
- B. Corticosteroids
- c. High Molecular Weight Dextran
- D. Antiretroviral Therapy
- E. A calcium channel blocker

·····

CASE 6

- 55 year old man presents with complaints of fever / volume depletion
- ▶ HIV diagnosed in ER on rapid test
- Lymphadenopathy / splenomegaly / few petechiae / Oriented X 3
- ▶ HIV RNA 340,000; CD4= 3 cells/ul
- > On no medications

Hb 8.2 gm/dl; Plt count 21,000; Creatinine 2.0 Rare schizocytes on peripheral blood smear

▶

QUESTION #6

Which of the following is the most effective intervention to increase the platelet count?

- A. Splenectomy
- B. Corticosteroids
- c. Plasmapheresis
- D. Ethambutol + Azithromycin
- E. Antiretroviral Therapy

CASE 7

- > 45 year old recently diagnosed with HIV
- HIV RNA 140,000; CD4= 230 cells/ul
- Baseline labs:
- Hb 11.2 gm/dl; AST 310 / ALT 120140 | 101 | 5Gluc 100

4.2 | 28 | 1.1 eGFR = 65 ml/min

- Started on TAF/FTC+ Dolutegravir; No other medications
- Returns 4 weeks later, labs unchanged except creatinine now 1.3 mg/dl (eGFR 55)

- 2

QUESTION #7

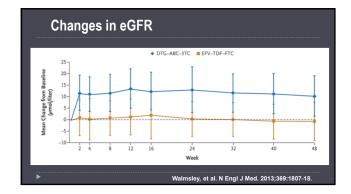
Which of the following is the most likely cause of her increased creatinine / reduced eGFR?

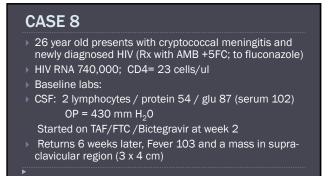
- A. Glomerular lesion
- B. Proximal Tubule damage
- c. Proximal Tubule inhibition
- D. Distal Tubule damage
- E. Distal Tubule inhibition

.....

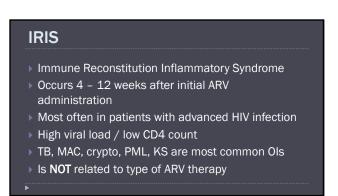
Tenofovir and COBI Interact with Distinct Renal Transport Pathways Anion Transport Pathway Cation Transport Pathway Creatinine Blood (Basolateral) Active Tubular Secretion COBI on creatinine are mediated by distinct transport pathways in renal proximal tubules Ray A. et al. Antimicro Agents Chemo 2006.3297-3304 Legist E. et al. ICAAC 2011: Chicago. 8A1-1724

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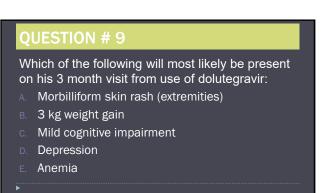




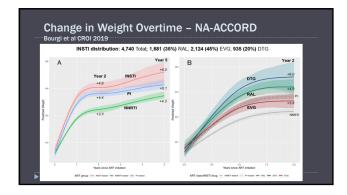
QUESTION #8 Which of the following is the most likely cause of the new mass? A. B Cell Lymphoma B. Multicentric Castleman's Disease C. IRIS reaction to cryptococcus D. Mycobacteria Avium Complex E. Bacterial Abscess from prior PICC line

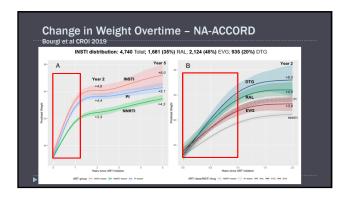


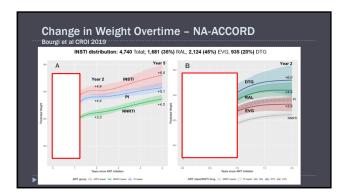
CASE 9 48 yo Male presents with newly diagnosed HIV infection Asymptomatic Initial: HIV RNA 160,000 c/ml CD4 count 221 cells/ul Other labs are normal; Started on ARV Rx with DTG + TAF/FTC Returns for a 3 month follow up visit HIV RNA < 20 c/ml; CD4 390 cells/ul

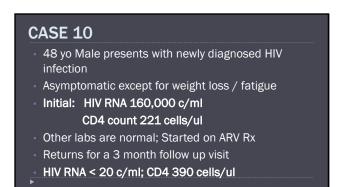


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OUESTION # 10

Assuming he remains undetectable, you tell him that his risk of transmitting HIV to his seroneg partner via sex is:

- Virtually zero risk (< 0.2%)
- B. Very low risk (< 2%)
- Possible (<10 %)
- It depends on which ARV regimen he's on

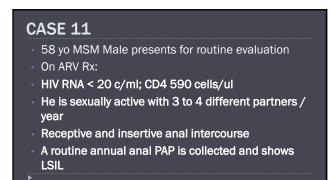
PARTNERS Study

- > 548 heterosexual and 972 discordant gay couples followed up to 8 years
- ▶ Seropositive partner had VL < 200 c/ml</p>
- > 77,000 sexual acts without condoms
- Zero transmissions (from seropositive partner)
- ▶ Upper bound of 95% CI: 0.23 /100 CYFU
- ▶ Sexual Transmission from a person with **Undetectable Viral Load is Effectively Zero**

Rodger AJ, et al. Lancet 393: 2428-38, 2019

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QUESTION # 11

Which of the following should be performed?

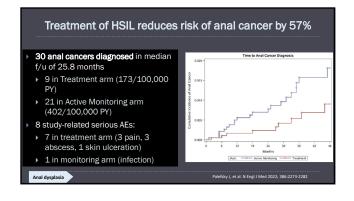
A. High Resolution Anoscopy with Biopsy

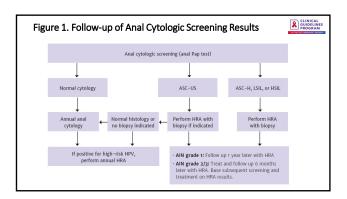
B. Digital Rectal Exam; if negative monitor for 1 yr

C. Sigmoidoscopy

D. Colonoscopy

E. Monitor only; repeat anal PAP in 6 months





Recommendations: Screening

□ Clinicians should promote smoking cessation for all patients with HIV, especially those at increased risk for anal cancer. (A3)

□ For all patients aged ≥35 years with HIV, clinicians should recommend and perform DARE annually to screen for anal pathology (B3)

□ Clinicians should evaluate any patient with HIV who is <35 years old and presents with signs or symptoms that suggest anal dysplasia. (A3)

□ Clinicians should conduct or refer for HRA and histology (via biopsy) in any patient with abnormal anal cytology. (A2)

□ Clinicians should refer patients with suspected anal cancer determined by DARE or histology to an experienced specialist for evaluation and management. (A3)

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CASE 12 30 yo Male presents with new lesions on his buttocks, groin, back, and face MSM; reports fever Denies sexual activity in the last 12 weeks HIV RNA 68,000 c/ml (off ARV now) CD4 count 250 cells/ul UDS + methamphetamine



QUESTION # 12 In addition to STI screening and Mpox culture, which of the following would you do? A. Treat for molluscum contagiosum B. Start tecovirimat at this visit C. Wait for cultures, if positive for mpox, start tecovirimat D. No specific mpox Rx; give JYNNEOS vaccine now instead E. Administer Benzathine Penicillin

