

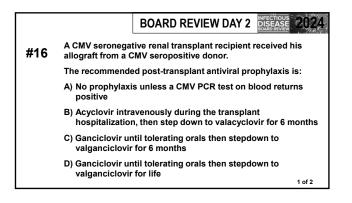
	BOARD REVIEW DAY 2 DISEASE 2024
#14	Which of the following would be the best choice as a backbone of antiretroviral therapy for this patient on voriconazole if a goal is to minimize drug-drug interactions?
	A) Efavirenz
	B) Darunavir-ritonavir
	C) Elvitegravir-cobicistat
	D) Dolutegravir
	2 of 3

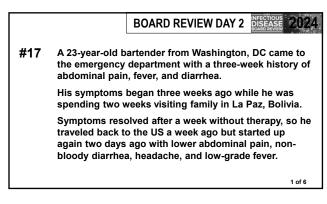
	BOARD REVIEW DAY 2	
#15	A 39-year-old male working in a pork processing plant developed a painful violaceous lesion on his right hand.	
	He remembers injuring himself at the when a bone shard penetrated his gla days prior.	
	He denies fevers but developed erythema extending from the initial site of injury.	
		1 of 4

		BOARD REVIEW DAY 2	ž 2024	
#15	started on var demarcated b	osed with cellulitis and was ncomycin, but the well oard of erythema continued involving the entire dorsal e hand.		#
	A biopsy of th Gram-positive	ne initial lesion is growing a e rod.		
			2 of 4	

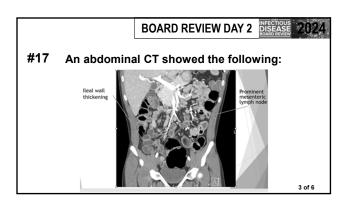
BOARD REVIEW DAY 2 DISEASE 2024

- **#15** The most likely pathogen is:
 - A) Bacillus cereus
 - B) Cutibacterium acnes
 - C) Listeria monocytogenes
 - D) Erysipelothrix rhusiopathiae





	BOARD REVIEW DAY 2 DISEASE 2024
#17	In the ER he was afebrile but tachycardic (pulse 94) and hypotensive (70/50).
	His abdomen was tender with some guarding but no rebound. His blood pressure responded to two liters of saline, but he was admitted to the floor and started on cefepime and metronidazole for possible abdominal sepsis.
	WBC 8,600 with 24% bands. Liver function showed ALT 114, AST 60, otherwise normal. A rapid HIV test was negative.
	2 of 6



BOARD REVIEW DAY 2 DEFACE 2024 #17 He had never been incarcerated, had no history of substance use disorder, was taking no medications here or in Bolivia, was born and raised in the USA, and had no sick contacts in Bolivia or the USA. #17

BOARD REVIEW DAY 2 DISEASE 2024

- #17 This case is best explained by which diagnosis?
 - A) Yersinia pseudotuberculosis
 - B) Tuberculous peritonitis
 - C) Crohn's disease
 - D) Amoebiasis
 - E) Typhoid fever

BR2 -Board Review: Day 2

Moderator: Barbara Alexander, MD

BOARD REVIEW DAY 2 DISEASE 2024

#18 A 63-year-old male with end-stage renal disease underwent a deceased-donor kidney transplant with thymoglobulin induction and maintenance immunosuppression inclusive of prednisone, tacrolimus, and mycophenolate.

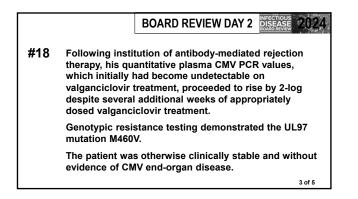
> He received 6 months of valganciclovir prophylaxis due to high risk for cytomegalovirus (CMV) infection (i.e., donor CMV seropositive/recipient CMV seronegative).

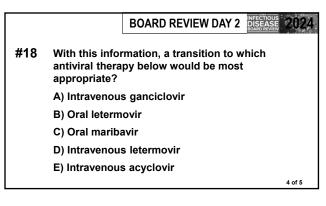
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 BOARD REVIEW DAY 2
 Disease
 2024

 #18
 One and a half months after completing valganciclovir, serial quantitative plasma CMV PCR testing demonstrated progressively rising CMV DNAemia and valganciclovir treatment was initiated.

 During this period, he also developed worsening allograft function with the creatinine rising from 1.6 mg/dL to 3 mg/dL. A renal biopsy demonstrated antibody-mediated rejection without evidence of CMV nephritis and high dose steroids, plasmapheresis and intravenous immunoglobulin were initiated.





	BOARD REVIEW DAY 2
#19	A 24-year-old healthy G0P1A0 female, 28 weeks pregnant, presents with a 2-day history of fever, dysuria, and supra-pubic pain.
	She had a screening urine culture at 18 weeks which was negative.
	Physical exam reveals a patient in no acute distress with a temperature of 38° C.
	Vital signs are otherwise normal.
	1 of 4

BOARD REVIEW DAY 2 DISEASE 2024

#19 There is no CVA tenderness.

The uterus is palpable above the umbilicus.

There is mild suprapubic pain.

A dipstick performed in clinic shows 2+ leukocyte esterase and 2+ nitrites.

BR2 –Board Review: Day 2

Moderator: Barbara Alexander, MD

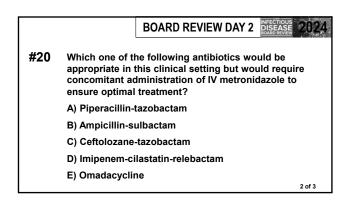
BOARD REVIEW DAY 2 2024 #19 What is the most appropriate empiric treatment in this patient? A) Amoxicillin-clavulanic acid B) Trimethoprim sulfamethoxazole C) No antibiotics needed D) Levofloxacin E) Amoxicillin

BOARD REVIEW DAY 2 DISEASE 2024

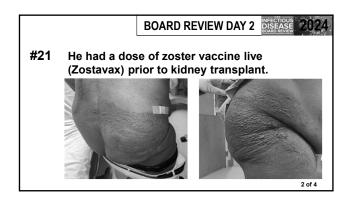
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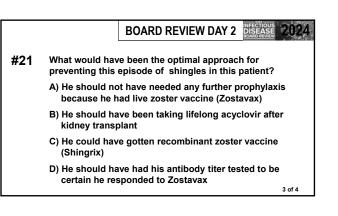
#20 A 55-year-old male undergoes emergency surgery for a ruptured appendix with severe bacterial peritonitis and septic shock.

He has no antibiotic allergies or intolerances.



BOARD REVIEW DAY 2 Discrete 2024 #21 A 66-year-old man with a past medical history of end stage renal disease received a deceased donor kidney transplant 4 years ago. He presented with vesicular rash on right flank/groin (see pictures). A skin scraping is positive by PCR for varicella zoster virus.





BOARD REVIEW DAY 2 DISEASE 2024

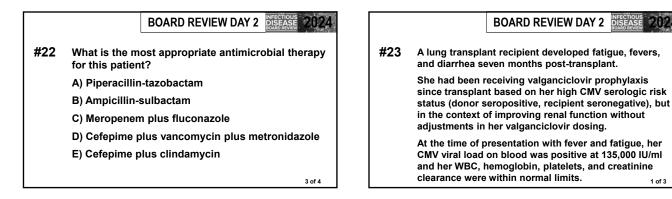
#22 A 79-year-old female with history of well-controlled non-insulin dependent diabetes mellitus (NIDDM) and hyperlipidemia is evaluated for abdominal pain and vomiting of 1-day duration.

There is no known history of gallstone disease.

The patient has no exposure to health care facilities, no antibiotic exposure, and has had no acute illnesses in the past two years.

She is an accountant and has not traveled out of the country.

BOARD REVIEW DAY 2 DISEASE 2024 #22 On exam, the patient had temperature of 102°F, blood pressure 94/65, heart rate of 126 beats/min, icteric sclera, and tenderness to palpation in the right upper quadrant. WBC 18,000 cells/L with 23% bands, amylase = 100 (nl 23-85) U/L, lipase = 160 (nl 0-160) U/L, AST 55 (nl 10-40) U/L, ALT 80 (nl 7-56) U/L, ALK 650 (nl 20-140) U/L. TBili is 5.7 mg/dL, creatinine is 2.7 (baseline 1.0-1.3). Abdominal ultrasound revealed dilated bile ducts with stones. 2 of 4



BOARD REVIEW DAY 2 DISEASE 2024 You recommend:

- A) Hold on treatment pending a colonoscopy with colon biopsy to document invasive CMV colitis
- B) Increase valganciclovir to prophylactic dosing appropriate for current renal function and recheck CMV viral load in one week
- C) Send blood for CMV resistance genotyping and start ganciclovir treatment, double dose
- **D) Start letermovir**

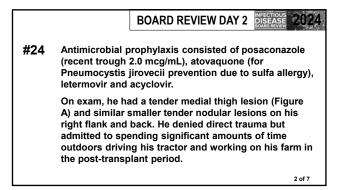
#23

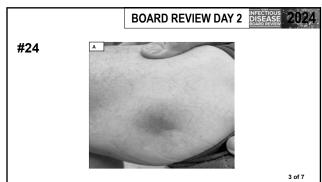
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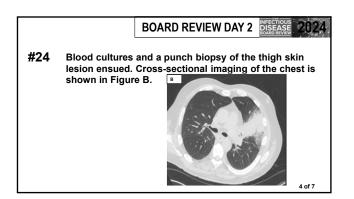
BOARD REVIEW DAY 2 DISEASE 2024

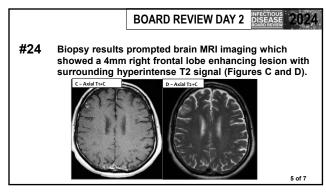
#24 A 72-year-old male with underlying acute myeloid leukemia (AML) underwent allogeneic hematopoietic cell transplantation (HCT) and presented to care on day + 190 with complaints of fever, cough, and new skin lesions. His pre-transplant serologies for cytomegalovirus and Toxoplasma were positive and negative, respectively and his post-transplant course was complicated by skin / gastrointestinal graft-versus-host disease necessitating high dose steroids and tacrolimus.

1 of 7

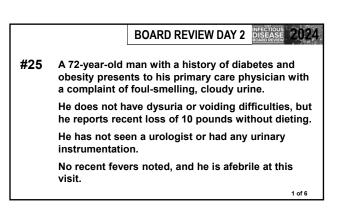








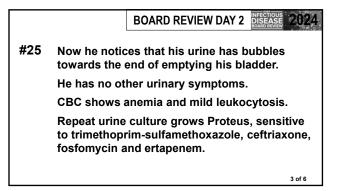
	BOARD REVIEW DAY 2 DISCONTINUE 2024
#24	Blood cultures also turned positive on hospital day 5, further confirming the diagnosis.
	What is the most likely diagnosis?
	A) Cytomegalovirus
	B) Cryptococcosis
	C) Aspergillosis
	D) Toxoplasmosis
	E) Nocardiosis

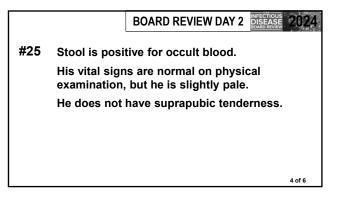


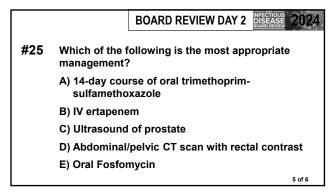
BR2 -Board Review: Day 2

Moderator: Barbara Alexander, MD

	BOARD REVIEW DAY 2 DISEASE 2024
#25	Urinalysis shows 100 WBC/HPF and many bacteria; culture grows E. coli sensitive to trimethoprim-sulfamethoxazole.
	He is treated with a 7-day course of trimethoprim-sulfamethoxazole.
	He returns to his primary care physician a week after completing the course of antibiotics and reports his urine is still cloudy and foul- smelling.







	BOARD REVIEW DAY 2 DISEASE 2024		BOARD R
#26	A 61-year-old man is admitted to the hospital for fever and abdominal discomfort.	#26	After 9 hours of incuba positive for a Gram-ne multiplex PCR panel p
	On physical examination, he has a temperature of 39°C, heart rate of 120/min, blood pressure of 100/60, and tenderness to		blood culture bottle de and bla _{OXA-48-like} .
	deep palpation with rebound in the left lower quadrant.		A β-lactam/β-lactamas for therapy.

REVIEW DAY 2 DISEASE 2024

pation, blood cultures are egative bacillus; a rapid performed on the positive letects Escherichia coli

se inhibitor is considered

	BOARD REVIEW DAY 2 DISEASE 2024
#26	Which of the following β -lactamase inhibitors would be most likely to inhibit the detected β -lactamase?
	A) Avibactam
	B) Relebactam
	C) Vaborbactam
	D) Tazobactam
	E) Clavulanic acid