



H5P

Microbiology lecture #5 activity

H5P

Attempts report

What is the most common bacterial cause of hot tub folliculitis?

Choice	Correct answer	Attempt answer
Staphylococcus epidermidis		
Propionibacterium acnes		
Pseudomonas aeruginosa	✔	✔
Streptococcus pyogenes		
E. coli		
Serratia		

Score: 1 out of 1

Which one of the following statements is true regarding acne vulgaris?

Choice	Correct answer	Attempt answer
Several different types of acne lesions exist and include inflammatory papules and pustules	✔	✔
Laboratory diagnosis of acne vulgaris is necessary		
Treatment includes the use of topical antifungals		
The causative agent is a gram-negative bacteria that is a major part of the skin microbiome		

Score: 1 out of 1

Why do acne vulgaris lesions predominantly affect the face, chest, and back?

Choice	Correct answer	Attempt answer
These areas are colonized by Candida albicans		
These sites are rich in apocrine glands		
These regions have the densest number of sebaceous glands	✔	✔
The skin is thinner in these areas		
These areas have lower pH		

Score: 1 out of 1

A culture from a pustule reveals Staphylococcus aureus. The lesion began as a folliculitis and progressed to multiple interconnected draining sinuses. What is the diagnosis?

Choice	Correct answer	Attempt answer
Furuncle		
Carbuncle	✔	✔
Cellulitis		
Impetigo		
Ecthyma		

Score: 1 out of 1

Why does HSV-1 cause lifelong mucocutaneous infections?

Choice	Correct answer	Attempt answer
The virus integrates into host DNA		
They evade humoral immunity		
They establish latency in sensory ganglia	✔	✔
They undergo rapid antigenic shift		
They infect immune-privileged sites		

Score: 1 out of 1

A child presents with fever and lesions on the tongue, palms, and soles. Which virus is the likely cause?

Choice	Correct answer	Attempt answer
VZV		
HSV-1		
HSV-2		
Coxsackievirus A16	✔	✔

Score: 1 out of 1

Which virus most commonly causes fever blisters?

Choice	Correct answer	Attempt answer
HSV-2		
HSV-1	✔	✔
VZV		
Enterovirus 71		
Coxsackievirus A16		
Coxsackievirus A6		

Score: 1 out of 1

What is the gold standard stain for observing multinucleated giant cells in HSV lesions?

Choice	Correct answer	Attempt answer
Gram stain		
Ziehl-Neelsen stain		
Tzanck smear	✔	✔
India ink		
PAS stain		

Score: 1 out of 1

Which virus causes reactivation along dermatomes leading to postherpetic neuralgia?

Choice	Correct answer	Attempt answer
HSV-1		
HSV-2		
VZV	✔	✔
Enterovirus 71		
Coxsackievirus A		

Score: 1 out of 1

Which one of the following statements is false regarding cutaneous infections that manifest in purulent lesions?

Choice	Correct answer	Attempt answer
Carbuncle is a painful infection involving an aggregate of contiguous hair follicles, with multiple drainage points often occurring at the back of the neck		
Folliculitis is a superficial pustule located at the orifice of the hair follicle		
Furuncles are deeper purulent lesions of hair follicles involving the skin and subcutaneous tissue		
Staphylococcus aureus is the most common cause folliculitis, furuncles, and carbuncles		
Treatment of carbuncle lesions by systemic antibiotics is sufficient	✔	✔

Score: 1 out of 1

Which one of the following statements is TRUE regarding cutaneous infections that manifest in vesicles, bullae, and purulent lesions?

Choice	Correct answer	Attempt answer
Tzanck smear can distinguish between HSV-1 and VZV infections		
Disseminated gonococemia typically presents with coalescing vesicles on the trunk		
HSV-1 lesions are often described as grouped vesicles on an erythematous base	✔	✔
Hand-foot-mouth disease caused by Enterovirus 71 never involves vesicles		
Bullae from Staphylococcus aureus infections contain multinucleated giant cells		

Score: 1 out of 1

Which dermatologic condition manifest in the skin as dewdrops on rose petals?

Choice	Correct answer	Attempt answer
Hand foot and mouth disease		
Gonococemia		
Varicella	✔	✔
Zoster		
Herpangina		
Acne vulgaris		
Boils		

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H-P

Microbiology lecture #6 activity

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Attempts report

Janeway lesions are painful due to immune complex deposition in the dermis

Choice	Correct answer	Attempt answer
True		
False	<div></div>	<div></div>

Score: 1 out of 1

Impetigo causes deeper tissue necrosis, resulting in ulceration and scarring

Choice	Correct answer	Attempt answer
True		
False	<div></div>	<div></div>

Score: 1 out of 1

Ecthyma heals slowly and often results in scarring due to dermal involvement

Choice	Correct answer	Attempt answer
True	<div></div>	<div></div>
False		

Score: 1 out of 1

Viridans streptococci are commonly isolated in infective endocarditis among IV drug users due to poor aseptic technique

Choice	Correct answer	Attempt answer
True		
False	<div></div>	<div></div>

Score: 1 out of 1

Pseudomonas aeruginosa is most commonly associated with green, foul-smelling discharge and necrotic tissue in burn wound infections

Choice	Correct answer	Attempt answer
True	<div></div>	<div></div>
False		

Score: 1 out of 1

Staphylococcus aureus is common in both IV drug users and prosthetic valve endocarditis

Choice	Correct answer	Attempt answer
True	<div></div>	<div></div>
False		

Score: 1 out of 1

Splinter hemorrhages are due to trauma and unrelated to endocarditis

Choice	Correct answer	Attempt answer
True		
False	<div></div>	<div></div>

Score: 1 out of 1

Osler nodes typically present as linear streaks under the nails

Choice	Correct answer	Attempt answer
True		
False	<div></div>	<div></div>

Score: 1 out of 1

Topical mupirocin is appropriate topical treatment for a patient with a limited area of impetigo involving only a few lesions

Choice	Correct answer	Attempt answer
True	<div></div>	<div></div>
False		

Score: 1 out of 1

Pseudomonas aeruginosa is the leading cause of infective endocarditis in patients with native valves

Choice	Correct answer	Attempt answer
True		
False	<div></div>	<div></div>

Score: 1 out of 1

Candida albicans is the predominant pathogen in HACEK-related infective endocarditis

Choice	Correct answer	Attempt answer
True		
False	<div></div>	<div></div>

Score: 1 out of 1

Janeway lesions are painless vascular lesions caused by septic emboli

Choice	Correct answer	Attempt answer
True	<div></div>	<div></div>
False		

Score: 1 out of 1

Osler nodes are painless macules on the palms caused by septic emboli

Choice	Correct answer	Attempt answer
True		
False	<div></div>	<div></div>

Score: 1 out of 1

Bullous impetigo leaves deep ulcers that require surgical debridement

Choice	Correct answer	Attempt answer
True		
False	<div></div>	<div></div>

Score: 1 out of 1

Coagulase-negative staphylococci are rarely involved in prosthetic valve infections

Choice	Correct answer	Attempt answer
True		
False	<div></div>	<div></div>

Score: 1 out of 1



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Microbiology lecture #7 activity

H5P

Attempts report

A 77-year-old man with recent hospitalization for urosepsis presents with fever and acute mono-arthritis. Which of the following best describes the most likely causative pathogen based on his age and clinical background?

Choice	Correct answer	Attempt answer
Streptococcus pyogenes due to increased mucosal colonization		
Staphylococcus aureus due to IV catheter use in the elderly		
Neisseria gonorrhoeae due to age-related immune decline		
Escherichia coli due to bacteremia from a urinary source	<div></div>	<div></div>
Anaerobic bacteria due to chronic joint disease		

Score: 1 out of 1

Which of the following statements best describes why reactive arthritis is considered a sterile condition in spite of its association with pathogens?

Choice	Correct answer	Attempt answer
Its exclusive association with virus infections		
The condition affects joints only in immunocompromized individuals		
The joint inflammation occurs without microbial invasion of the joints	<div></div>	<div></div>

Score: 1 out of 1

Which of the following pathogen profiles is most likely to be implicated in osteomyelitis in a 4-month-old infant?

Choice	Correct answer	Attempt answer
Streptococcus pyogenes, Haemophilus influenzae, Staphylococcus aureus		
Staphylococcus aureus, Streptococcus agalactiae, Escherichia coli	<div></div>	<div></div>
Serratia marcescens, Staphylococcus epidermidis, Staphylococcus aureus		
Proteus mirabilis, Bacteroides fragilis, Peptostreptococcus		
Staphylococcus aureus, Campylobacter jejuni, Salmonella enterica		

Score: 1 out of 1

Which of the following is the recommended antibiotic regimen for osteomyelitis caused by Pseudomonas aeruginosa?

Choice	Correct answer	Attempt answer
Vancomycin		
Penicillin G		
Clindamycin		
Piperacillin-tazobactam	<div></div>	<div></div>

Score: 1 out of 1

The most common pathogen implicated in reactive arthritis is

Choice	Correct answer	Attempt answer
Chlamydia trachomatis	<div></div>	<div></div>
Campylobacter jejuni		
Yersinia enterocolitica		
Shigella		
Salmonella		
Streptococcus		

Score: 1 out of 1

A 35-year-old intravenous drug user presents with fever and neck pain. Imaging reveals osteomyelitis of the cervical spine. Which of the following is the most likely microbial etiology in this case?

Choice	Correct answer	Attempt answer
Contamination from athletic footwear with Staphylococcus aureus colonization and infection		
Bacteremia in intravenous drug use favors seeding of cervical vertebrae with Pseudomonas aeruginosa	<div></div>	<div></div>
Peripheral vascular disease in intravenous drug users leads to anaerobic bone infections		
Repeated injections increase local joint infections with Coagulase-negative Staphylococci		
Intravenous drug user often acquire fungal osteomyelitis due to contaminated syringes		

Score: 1 out of 1

A 77-year-old male diabetic patient presented with osteomyelitis of the foot and has a history of uncontrolled diabetes. Which of the following organisms is least likely to be involved in this case of diabetic foot osteomyelitis?

Choice	Correct answer	Attempt answer
Pseudomonas aeruginosa		
Staphylococcus aureus		
Prevotella species		
Haemophilus influenzae	<div></div>	<div></div>
Peptostreptococcus		

Score: 1 out of 1

Which imaging modality is the most sensitive for the early detection of osteomyelitis?

Choice	Correct answer	Attempt answer
Ultrasound		
Plain radiograph		
CT scan		
Bone scan		
MRI	<div></div>	<div></div>

Score: 1 out of 1

A 22-year-old Australian sexually active female presented with fever, polyarthritis, and scattered pustular skin lesions. Synovial fluid analysis was negative for organisms on Gram stain and culture. Which of the following next steps is most appropriate to confirm the suspected diagnosis?

Choice	Correct answer	Attempt answer
Repeat joint aspiration and send for acid-fast bacilli staining		
Start empiric antifungal therapy and perform fungal cultures		
Obtain blood cultures and swabs from mucosal sites for culture on Thayer-Martin media	<div></div>	<div></div>
Perform a bone biopsy to evaluate for osteomyelitis		

Score: 1 out of 1

No question text provided

Choice	Correct answer	Attempt answer
Which of the following clinical findings is most characteristic of disseminated gonococcal infection in septic arthritis?		
Monoarticular arthritis with positive synovial fluid culture		
Polyarthritis with tenosynovitis and pustular skin lesions	<div></div>	<div></div>
Bilateral sacroiliac joint pain with high-grade fever		
Erythema migrans and arthralgia after a tick bite		

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