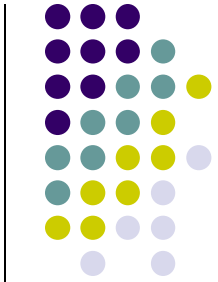
Q

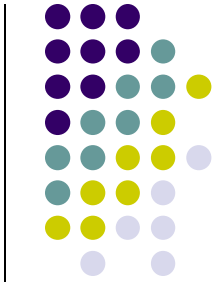
Infectious keratitis: Short answers



- What is the #1 bacterium in CL-related K ulcer?

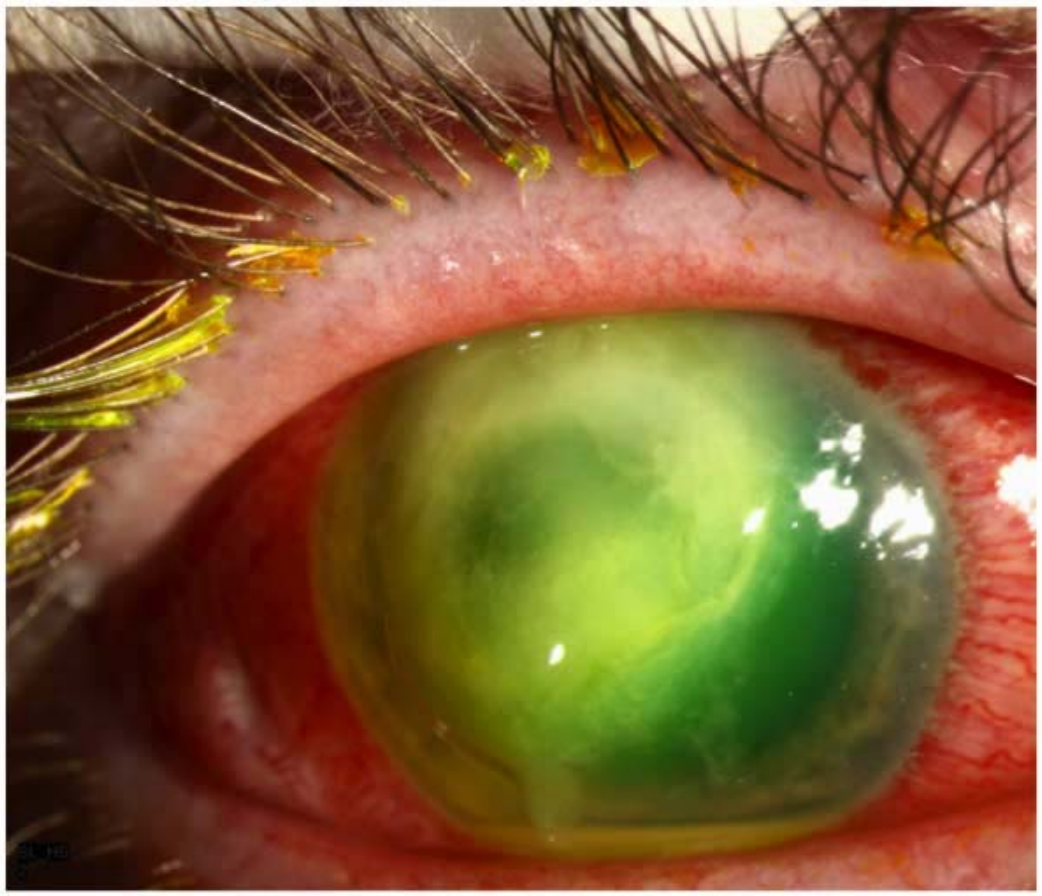
A

Infectious keratitis: Short answers



- What is the #1 bacterium in CL-related K ulcer? ***Pseudomonas***

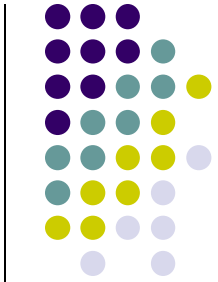
Infectious keratitis: Short answers



Pseudomonas corneal ulcer associated with CL wear

Q

Infectious keratitis: Short answers



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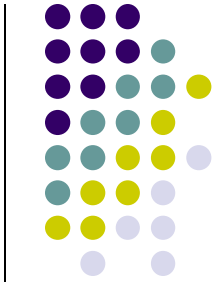
Infectious keratitis: Short answers



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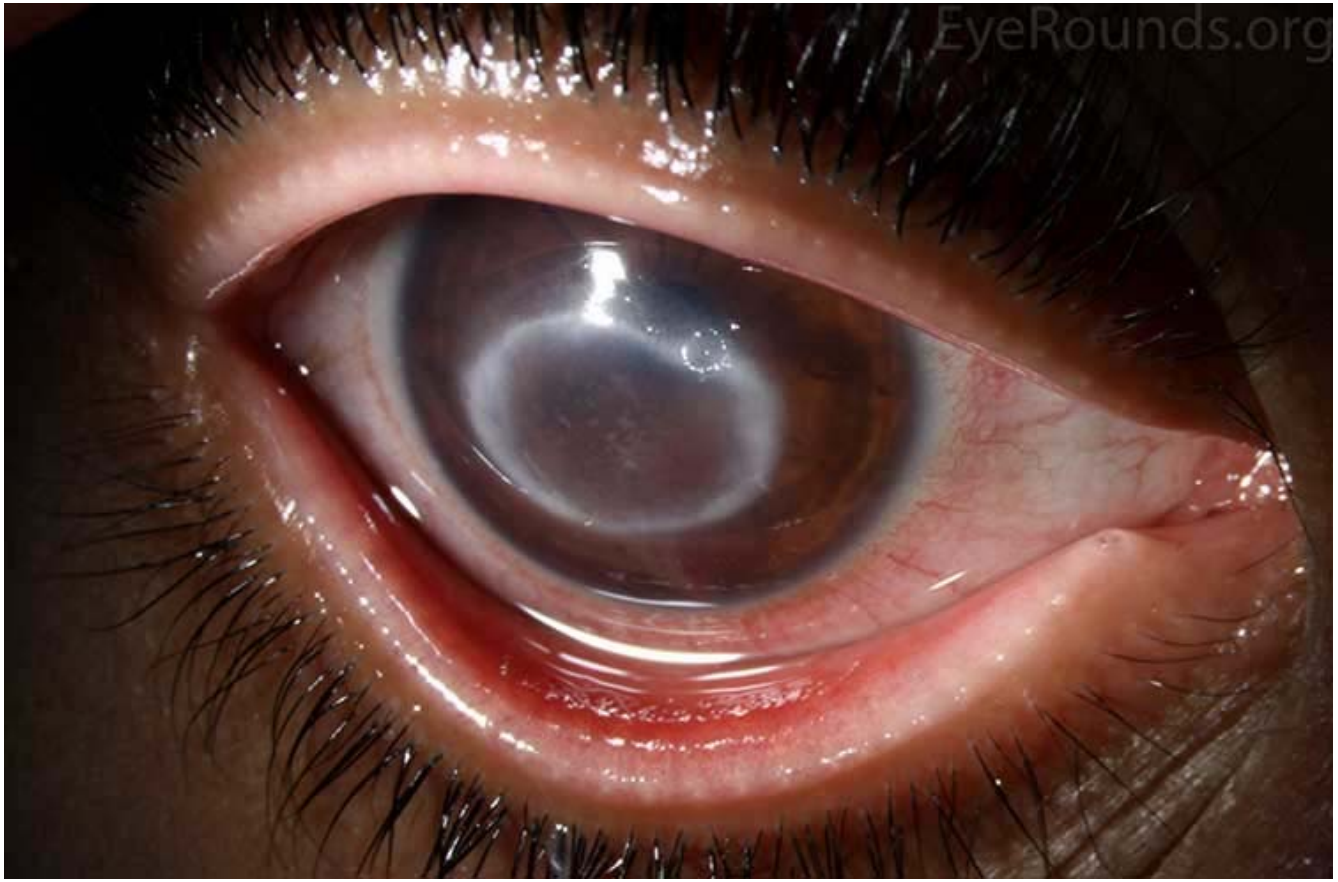


Acanthamoeba keratitis associated with CL wear

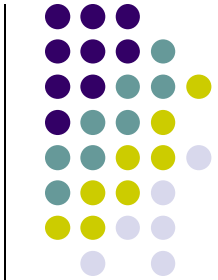
Q

Infectious keratitis: Short answers

- What is the #1 bacterium in CL-related K ulcer? ***Pseudomonas***
- What is the #1 risk factor for *Acanthamoeba* keratitis? **CL wear**
- What are the three main culprits in fungal keratitis?
  - fungus 1
  - fungus 2 **and** fungus 3

A

Infectious keratitis: Short answers



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  - ***Aspergillis*** **and** ***Fusarium***

Q

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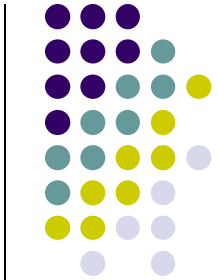

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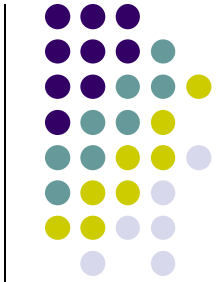
In what basic way does Candida *differ from* Aspergillus/Fusarium*?*

Q/A

Infectious keratitis: Short answers



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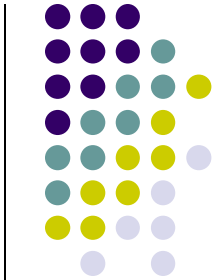
  - ***Candida*** → *is a…*
  - ***Aspergillis*** **and** ***Fusarium*** → *are…*

In what basic way does Candida *differ from* Aspergillus/Fusarium*?*
Candida is a [redacted], whereas *Aspergillus* and *Fusarium* are [redacted]

A

Infectious keratitis: Short answers



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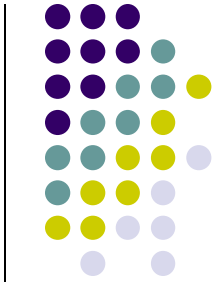
  - ***Candida*** → *is a…*yeast
  - ***Aspergillis*** **and** ***Fusarium*** → *are…*molds

In what basic way does Candida *differ from* Aspergillus/Fusarium*?*
Candida is a yeast , whereas *Aspergillus* and *Fusarium* are molds

Q

Infectious keratitis: Short answers



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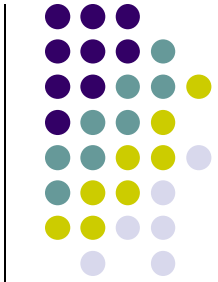
Next Q

A

Infectious keratitis: Short answers



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Q

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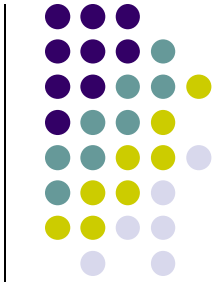

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A

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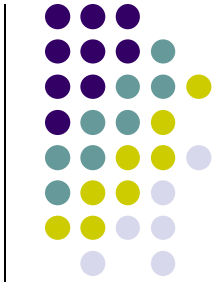

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Q

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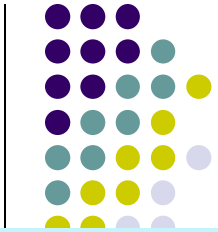

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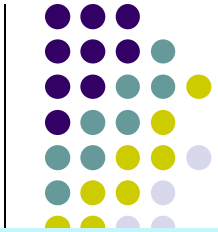

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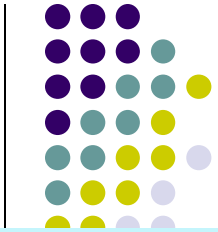

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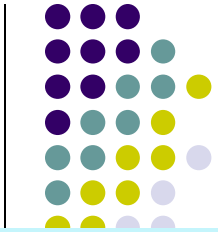

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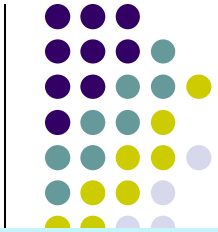

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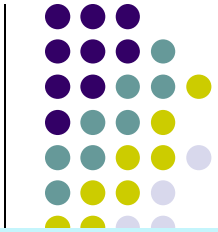
Q/A

Infectious keratitis: Short answers



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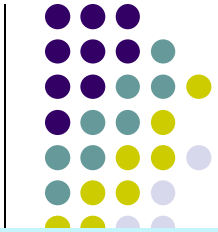
(Referring here to the northern and southern United States)

A

Infectious keratitis: Short answers



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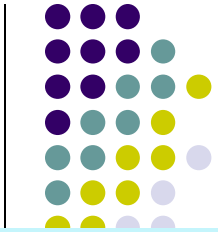

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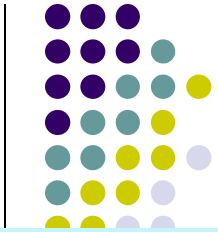
Infectious keratitis: Short answers



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Q

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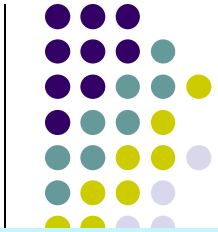

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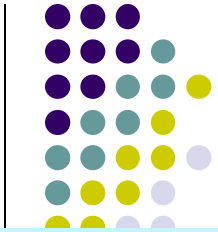

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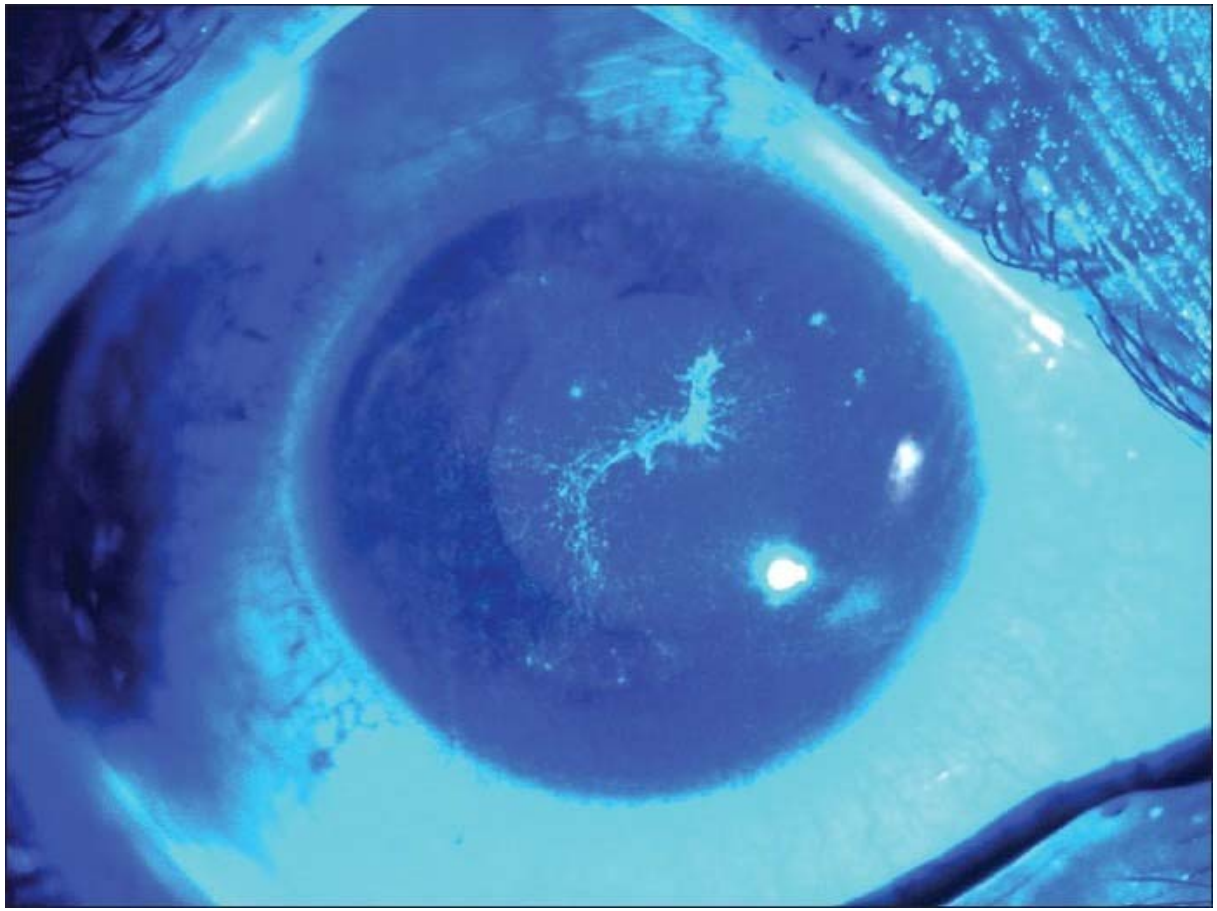
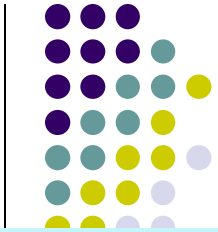
Infectious keratitis: Short answers



Acanthamoeba: (Pseudo)dendrites

Q

Infectious keratitis: Short answers



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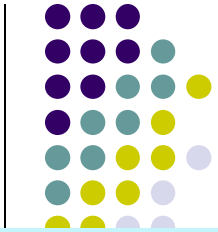
In what key way might the presenting complaint of an Acanthamoeba *keratitis patient differ from that of an HSV keratitis patient?*

A

Infectious keratitis: Short answers



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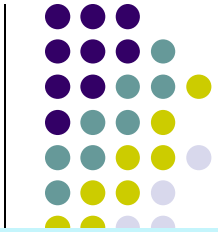
The patient with *Acanthamoeba* keratitis will complain of pain that seems out of proportion to the clinical picture, while the HSV keratitis patient will have **less** pain than would be expected given the appearance of the cornea

Q

Infectious keratitis: Short answers



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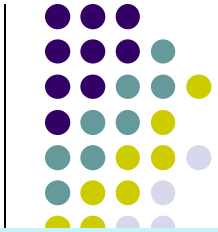
Q/A

Infectious keratitis: Short answers



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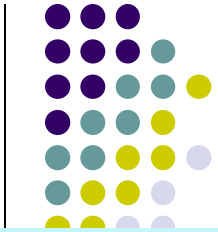
Why is Acanthamoeba *keratitis exceptionally painful?*
Because the bug has a propensity for [two words]

A

Infectious keratitis: Short answers



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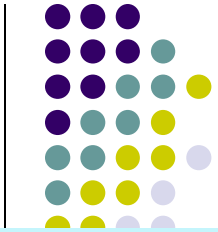
Why is Acanthamoeba *keratitis exceptionally painful?*
Because the bug has a propensity for perineural invasion

Q

Infectious keratitis: Short answers



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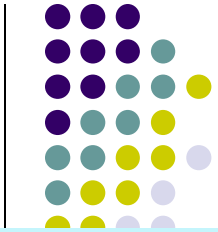
Why is Acanthamoeba *keratitis exceptionally painful?*

Because the bug has a propensity for perineural invasion, resulting in a condition known as [two words]

A

Infectious keratitis: Short answers



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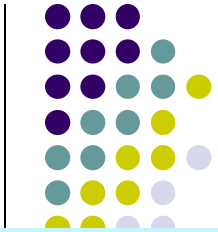
Why is Acanthamoeba *keratitis exceptionally painful?*
Because the bug has a propensity for perineural invasion, resulting in a condition known as **radial keratoneuritis**

Q

Infectious keratitis: Short answers



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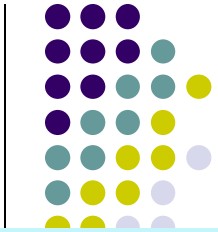
In what key way do the dendrites of Acanthamoeba *keratitis differ from those of HSV keratitis?*

Q/A

Infectious keratitis: Short answers



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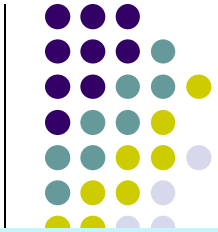
In what key way do the dendrites of Acanthamoeba *keratitis differ from those of HSV keratitis?*
HSV dendrites usually have two words, whereas *Acanthamoeba* dendrites don't

A

Infectious keratitis: Short answers



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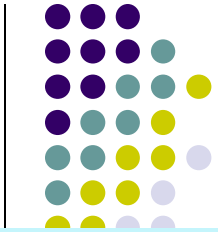
Infectious keratitis: Short answers



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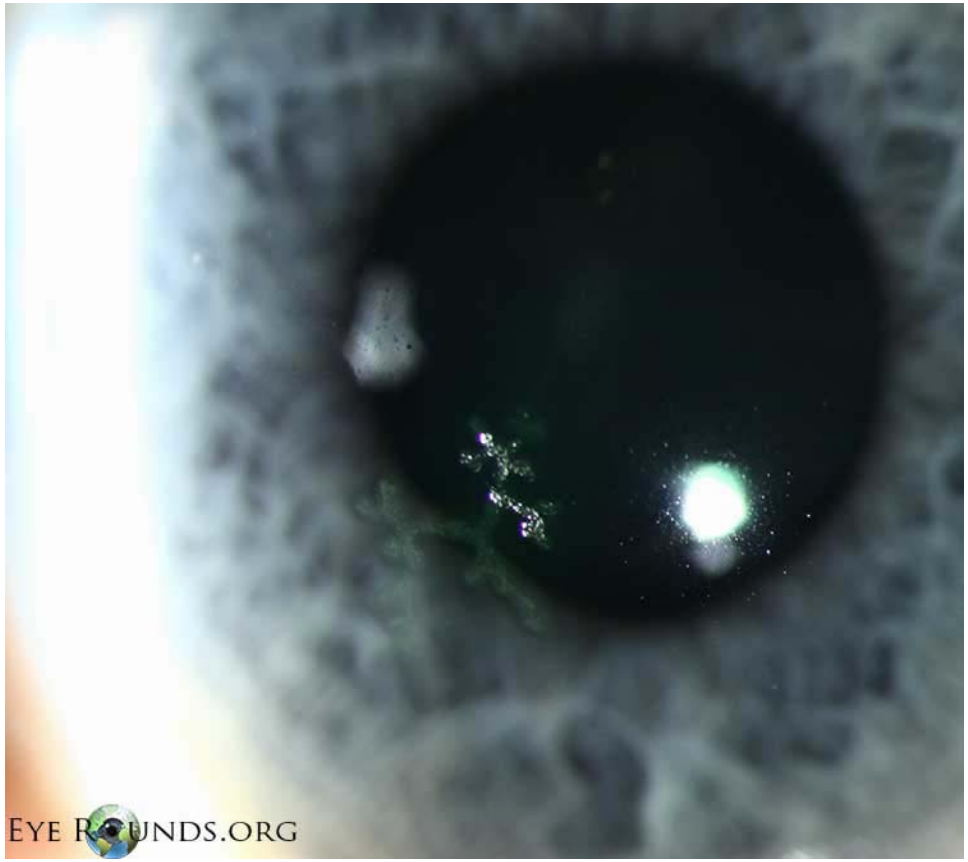
In what key way do the dendrites of Acanthamoeba *keratitis differ from those of HSV keratitis?* HSV dendrites usually have terminal bulbs , whereas *Acanthamoeba* dendrites don't. Be sure to evaluate any dendritic keratitis carefully for the presence/absence of terminal bulbs!

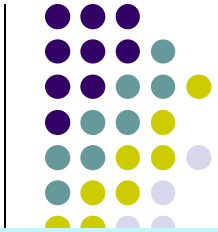
Infectious keratitis: Short answers



HSV dendrites: Terminal bulbs (look carefully)

Q

Infectious keratitis: Short answers



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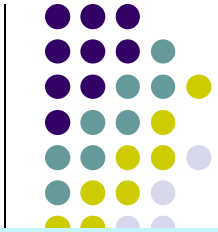

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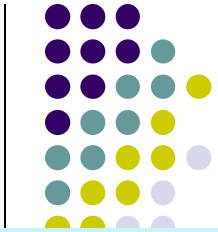

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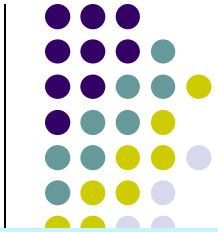

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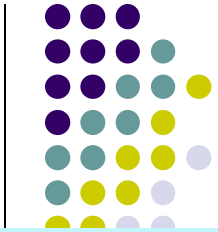

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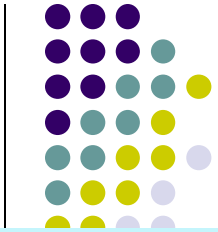

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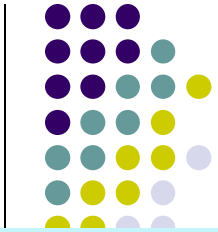
Q

Infectious keratitis: Short answers



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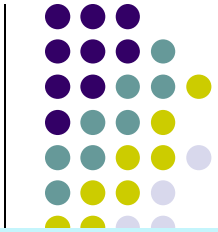
A

Infectious keratitis: Short answers



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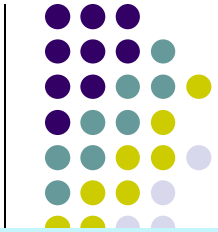

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In fact, topical therapy is often **ineffective** in deep stromal Acanthamoeba infections, which may require **PK** (coupled with antiamoebic meds) to rid the host of infection.

Q

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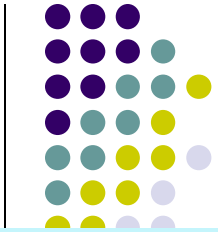

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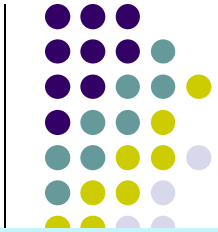

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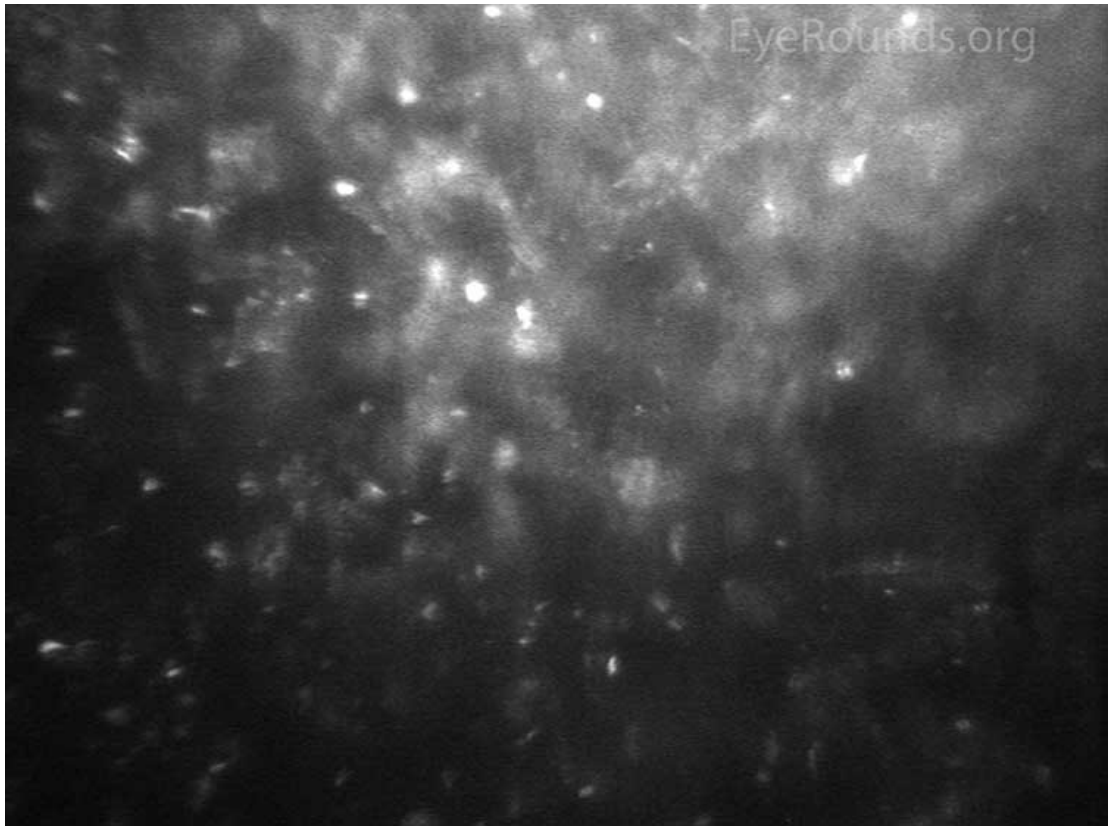

Confocal microscropy demonstrating high-contrast round objects consistent with *Acanthamoeba* cysts (and irregular forms suggestive of *Acanthamoeba* trophozoites)

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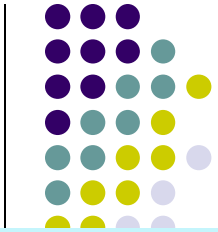

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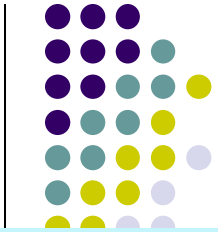

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Non-nutrient agar with E. coli overlay

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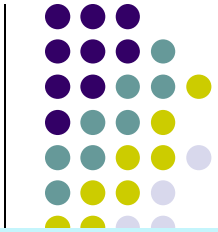

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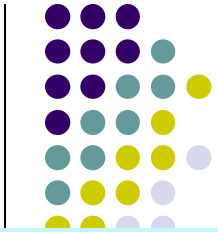

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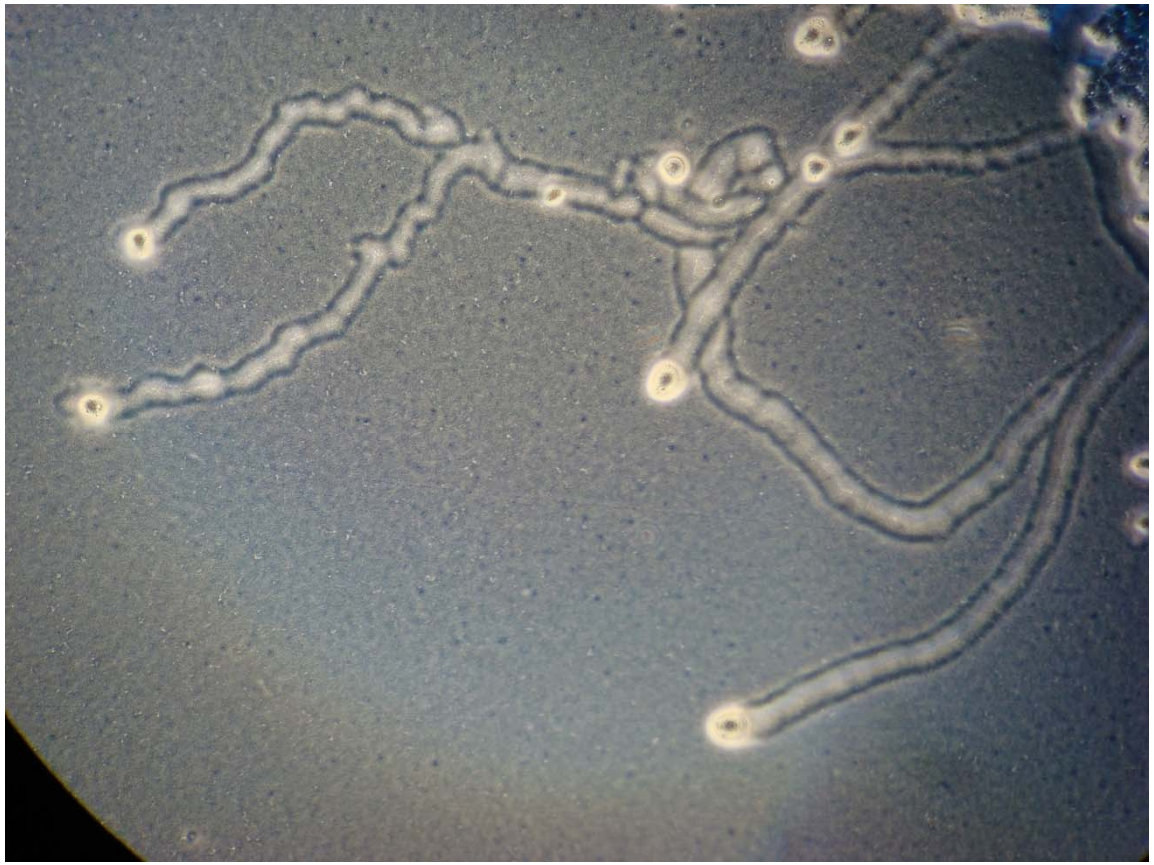
When placed on such a culture plate, the motile trophozoite form of the amoeba will respond by grazing its way around the plate, in the process leaving **observable trails** in the agar

Infectious keratitis: Short answers



Acanthamoeba: Feeding tracks on non-nutrient agar *E coli* plate

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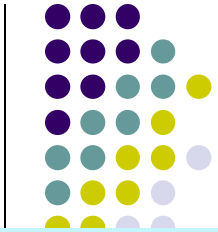

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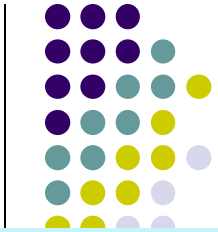

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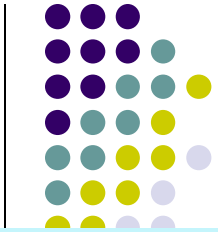

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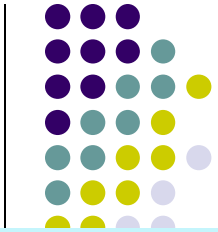

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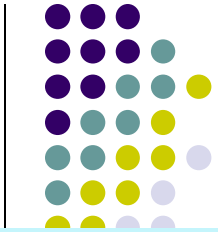

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