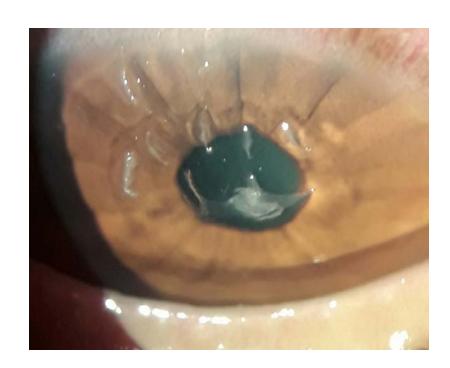


• In this context, what are filaments?



 In this context, what are filaments? Strands of devitalized epithelial cells and mucus attached to the corneal surface







Filaments



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There's 'attached,' and there's **attached**. Here are two questions to determine just how attached to the cornea filaments really are... First, do filaments remain attached through a blink?



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Yes (except...more shortly)



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 Foreign-body sensation



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Foreign-body sensation

Time to unpack the *except...more* shortly from a couple of slides ago. Occasionally, a blink will pull a filament off the cornea, leaving a small epi defect and leading to the FBS that is characteristic of the condition.

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- What is the key to successfully managing filamentary keratitis? Addressing the underlying condition that led to filament formation in the first place!





What might the 'underlying condition' be?

- --DES
- --REE
- --SLK
- --Medicomentosa
- --Prolonged surface exposure
- --Prolonged surface occlusion (partial or complete)
- --(there are others)

nts? Strands of devitalized to the corneal surface oplain of?

managing filamentary



What does DES stand for in this context?

What mi --DES --SLK --Medico --Prolond --Prolond



What does DES stand for in this context? Dry eye syndrome

What mi --DES --REE --SLK --Medico --Prolond --Prolond --(there



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How does DES put a pt at risk for developing filamentary keratitis?

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How does DES put a pt at risk for developing filamentary keratitis?

The reduced aqueous tear volume leads to an abnormally high mucin-to-aqueous ratio, which in turn makes the surface milieu much more favorable to filament formation.

What are the two broad categories of dry eye syndrome? Aqueous tear deficiency (ATD) and evaporative dry eye

--Medico



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But ATD and evaporative dry eye are both characterized by reduced aqueous volume, and thus an increased mucin/aqueous ratio. Given this, why is filamentary keratitis more strongly associated with ATD?



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Which ocular-surface cell produces mucin? Conjunctival goblet cells



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--DES

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f devitalized surface

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Recurrent epithelial erosions (aka 'recurrent corneal erosions')



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Epi defects that repeatedly occur in the same corneal location owing to chronically poor adhesion between the epithelium and the underlying basement membrane

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Filamentary Koratitie/Koratonathy What does REE stand for in this context?

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What sort of trauma, ie, what type of mechanism?

A 'shearing' injury (eg, a scrape from a fingernail).

Notably, lacerating injuries do **not** predispose to REE.

-- Medicon The majority of the cases can be traced to one of two causes.

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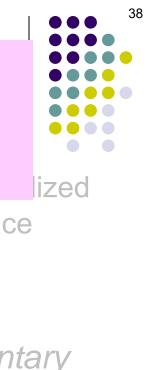
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Filamontary What are the '6 F's' of EBMD? What does REE st -- F Recurrent epithelia ...F --F F What are recurren What mig Epi defects that re --DES owing to chronically poo --REE Which corneal dystrophies are associated with REE? --SLK The classic cause is probably epithelial basement membrane dystrophy (BMD). --Medic Other, less common causes include Meesmann epithelial corneal dystrophy, Reis-Bücklers, Thiel-Behnke, and lattice and granular stromal dystrophies. -- Prolonge -- A history of trauma to the corneal epithelium --(there ar --An underlying corneal dystrophy amentary (Of course, a pt could have both) keratitis? Addressing the underlying condition that led to filament formation in the first place!

Filamontary What are the '6 F's' of EBMD?

- What does REE st --Female preponderance
- Recurrent epithelia -- Fifties and older (usually)
 - --Five to Fifteen percent of the population are afflicted
- What are recurren --Fifty percent of pts who suffer REE have it
- Epi defects that re --Fibrillar material accumulates under the basement membrane aunesion perween the epithenum ar

lized

What mig --DES

--REE

--SLK

owing to chronically poor

Which corneal dystrophies are associated with REE?

The classic cause is probable epithelial basement membrane dystrophy (BBMD).

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What mig --DES --REE

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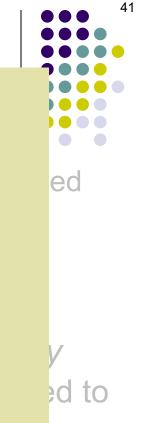
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What does SLK stand for in this context? Superior limbic keratoconjunctivitis

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What does SLK stand for in this context?

What mig In a nutshell, what is SLK? --DES --REE

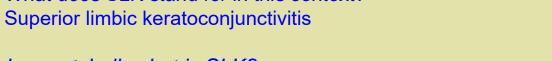
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A chronic/recurrent inflammatory condition of the superior limbal cornea and adjacent conj

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SLK: Superior conj injection

What does SLK stand for in this context?
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-Medicor What do SLK pts c/o?

DES-like complaints: Foreign-body sensation; burning

--SLK
--Medicor
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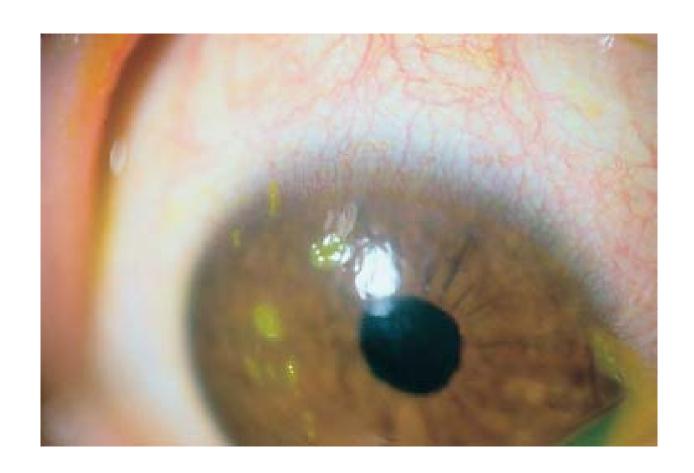
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In SLK, filaments tend to be distributed in a particular fashion. What is it? They are usually limited to the superior cornea

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SLK: Superior corneal filaments

What does SLK stand for in this context? Superior limbic keratoconjunctivitis



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--DES

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With what systemic condition is SLK associated?

What does SLK stand for in this context? Superior limbic keratoconjunctivitis



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With what systemic condition is SLK associated? Thyroid disease

ed

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ed

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Where on the cornea are filaments located in cases owing to ATD?

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Where on the cornea are filaments located in cases owing to ATD?

The interpalpebral fissure zone





What might the 'underlying condition' has

- --DES
- --REE
- --SLK
- -- Medicomentosa
- --Prolonged surface e
- --Prolonged surface c
- --(there are others)

What is the classic drug implicated in inducing filaments? **Anticholinergics**

vitalized

ace



vitalized

ace

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Topical or systemic?
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What is the proposed mechanism of action?



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What is the classic drug implicated in inducing filaments? Anticholinergics

Topical or systemic? **Systemic**

What is the proposed mechanism of action? Suppression of aqueous (tear) production

entary keratitis? Addressing the underlying condition

vitalized

ace

filament formation in the first place



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What might the 'underlying condition' be?
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- --DES
- --REE
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nts? Strands of devitalized to the corneal surface oplain of?

What are some of the causes of 'prolonged surface exposure'?

filament formation in the first place!



What might the 'underlying condition' be?

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- -- Prolonged surface exposure

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What are some of the causes of 'prolonged surface exposure'?

- -- CN7 palsy
- --Conditions leading to a decreased blink rate (eg, Parkinsons)

kerauus? Addressing the underlying condition t

filament formation in the first place!



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What might the 'underlying condition' be?
--DES
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What are some of the causes of 'prolonged surface occlusion'?

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What are some of the causes of 'prolonged surface occlusion'?

- --Ptosis
- --Patching

filament formation in the first place!

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condition that led to

filament formation in the first place





- In this context, what are filaments? Strands of devitalized epithelial cells and mucus attached to the corneal surface
- What do pts with filaments complain of?
 Foreign-body sensation
- What is the key to successfully managing filamentary keratitis? Addressing the underlying condition that led to filament formation in the first place!
- What specific treatment steps can be taken to mitigate the filaments themselves?
 - ?
 - ?
 - ?
 - ?



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- What is the key to successfully managing filamentary keratitis? Addressing the underlying condition that led to filament formation in the first place!
- What specific treatment steps can be taken to mitigate the filaments themselves?
 - Removing them from the cornea with jewelers
 - Copious supplementation of the tear film
 - Hypertonic saline drops
 - N-acetylcysteine



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- What does Mucomyst smell like?
- **N**-acetylcysteine



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- the What property does N-acetylcysteine have that makes it useful in treating filamentary keratitis?
- That of a mucolytic
- What does Mucomyst smell like?
- Rotten eggs
- N-acetylcysteine