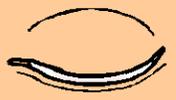


EYE CARE FOR CRITICALLY ILL PATIENTS WITH INCOMPLETE EYELID CLOSURE

Every shift inspect:
 • Eyelid position
 • Eyeball surface

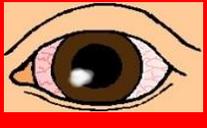
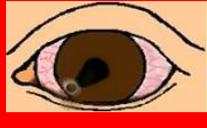
Incomplete eyelid closure



Grade 2 exposure:
any part of cornea / iris (coloured) visible

Grade 1 exposure:
only conjunctiva (white) visible

Are **COMPLICATIONS** present?

Bacterial ulcer	Perforation
	
Immobile white spot on cornea (cannot be rinsed off with saline)	Pupil may be distorted (stretched towards hole in cornea)

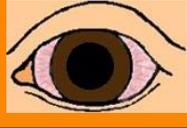
COMPLICATIONS: ACUTE EMERGENCY

Refer to ophthalmology immediately.

- Call eye casualty or on-call ophthalmologist via switchboard

no

Are any of the following **HIGH RISK FEATURES** present?

Grade 2 exposure (cornea visible)	Painful &/or red eye?	Any patient with incomplete eye closure nursed in a prone position
		
High risk even if only the lower edge of the cornea is visible		

HIGH RISK exposure

Eye ointment every 4 hours (blurs vision)

Close lids with horizontal tape (if conscious, leave better eye untaped)

Refer for ophthalmology review or advice

no

Grade 1 exposure with no high risk factors

MODERATE RISK Exposure

Unconscious patients:
Eye ointment every 4 hours

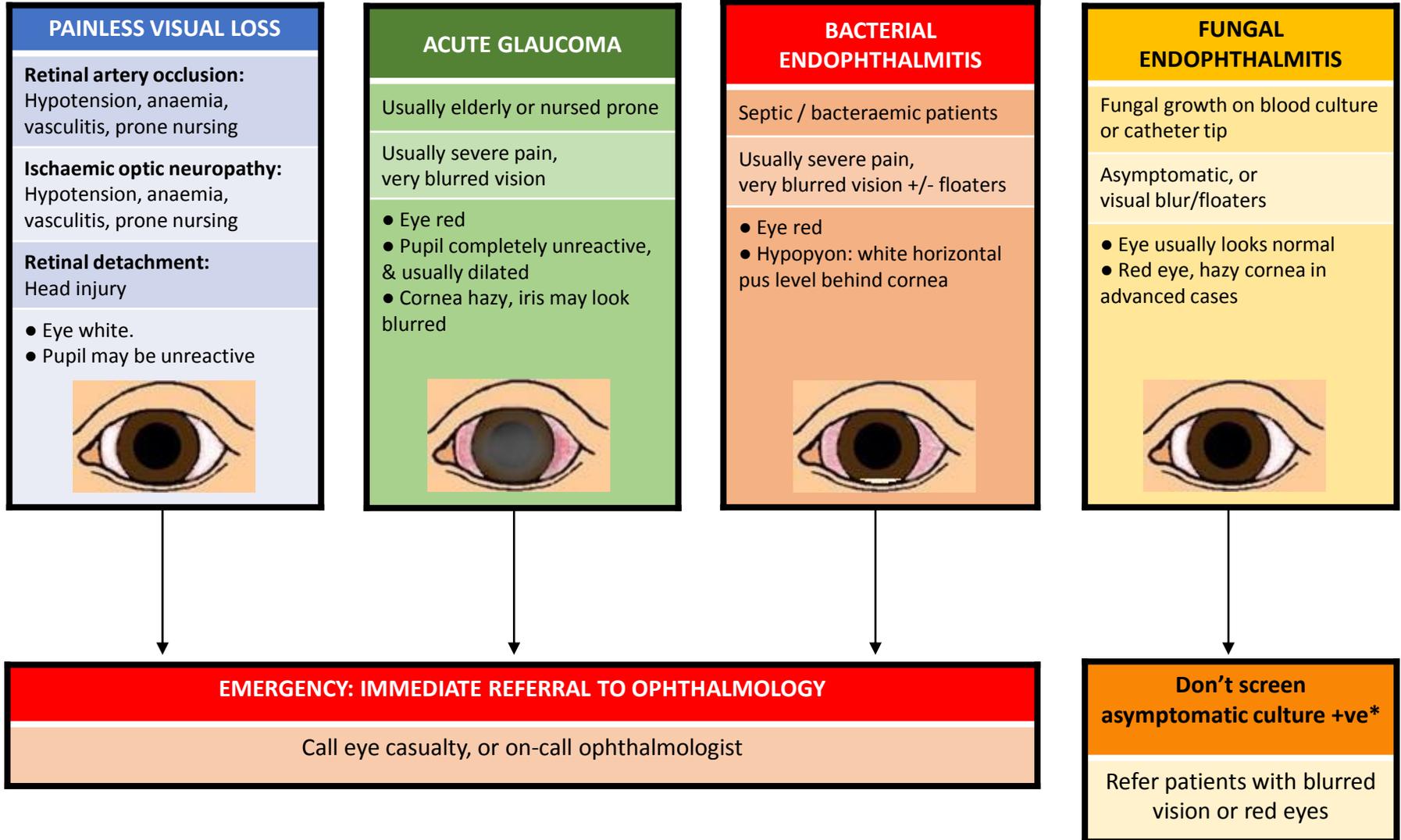
Conscious patients:
Hylotears every 2 hours + ointment before sleep

Refer for ophthalmology review or advice if concerns

Yes

Yes

OTHER EYE PROBLEMS IN CRITICALLY ILL PATIENTS



See Royal College of Ophthalmologists' guidelines on Eye Care in the ICU (2017) for additional details of assessment & management

* Eye 2018 32:1697-1702, JAMA Ophthalmol 2019 137:698-710

General aspects of clinical care

- The appearance of the eyes should be assessed at least once per shift for all patients, including those who are opening their eyes spontaneously.
- Frequency of assessment can be increased according to clinical judgment

Delivering treatment to the eye when it is prescribed

- Ointments include Lacrilube, Xailin night, VitaPos, simple eye ointment – all equivalent.
- When giving several different drops, do not give them at the same time as one drop may wash out another, thereby reducing effectiveness. **Allow at least 2 minutes between drops.**
- Always put ointment in after drops.** The ointment is water repellent and prevents the drops from being absorbed by the eyeball.
- When cleaning the eye, wash away the previous ointment using warm water and gauze
- Applying ointment: pull lower eyelid down and squeeze 1-2 cm of ointment onto the back surface of the lower eyelid.** Manually shut the lids to spread ointment over whole eye surface.
- If taping is performed, ointment should be applied first,** the eyes fully closed manually and Micropore tape applied *horizontally* across the lids to seal them shut. **You must not allow the tape to touch the surface of the eyeball.** It is safer not to tape than to do so badly. Ophthalmology can arrange training if needed.
- Hydrogel dressings** may be used instead of taping, if oedema prevents manual lid closure. Change once per shift. They **must not be allowed to dry out** – this can damage the surface of the eye.
- Cling film** can be used as a safe alternative to tape or hydrogel to protect the eye – it does not cause damage if in contact with the eyeball. Apply a 10x10cm square over each eye, and change every shift. Never share a cling film roll between patients.