



Clinical Practice Guidelines: Trauma/Eye injury

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Date	April, 2016
Purpose	To ensure a consistent approach to the management of a patient with an eye injury.
Scope	Applies to Queensland Ambulance Service (QAS) clinical staff.
Health care setting	Pre-hospital assessment and treatment.
Population	Applies to all ages unless stated otherwise.
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Eye injuries are common and may be serious despite a benign appearance.

All patients with suspected eye trauma and patients who have an ALOC should have their eyes assessed and basic eye protection precautions implemented.

General management principles include:

- Irrigation with water or saline for chemical or biological fluid exposure, foreign body or thermal burns
- Protect eye with shield (cardboard cone or styrofoam cup)
- Antiemetic
- Position patient head up

Clinical features



- Significant eye injury may be present, despite normal vision and minimal symptoms.^[1]
- If eyelid oedema makes opening of the lids difficult – attempt gentle assessment and document findings.
- General symptoms:
 - pain or sensation of ‘grittiness’ in the eye
 - redness
 - copious tears
 - spasm of the eyelid
 - impaired or double vision
 - photophobia
 - haemorrhage
 - fluid loss from the eye^[2]
- Chemical exposure:
 - sensation of foreign body within the eye
 - pain
 - blurred vision, tears
 - redness

Clinical features (cont.)



- Penetrating eye injury:^[3]
 - abnormally shaped or collapsed globe
 - obvious laceration or presence of prolapsed tissue
 - hyphema
- Blunt eye injury:^[3]
 - orbital injury
 - traumatic mydriasis
 - hyphema
 - occasionally detachment
- Retinal detachment:^[1]
 - can occur spontaneously or months after an injury
 - history of light flashes
 - presence of floating black specks
 - curtain-like narrowing of peripheral vision
- Flash burns:^[2]
 - history of unprotected exposure to welding flash or sun lamp
 - pain develops several hours following exposure
 - foreign body sensation within the eyes
 - redness and photophobia

Risk assessment



- Nil in this setting

+ Additional information

- With most eye injuries the priority is initial stabilisation of the patient, protection of the eye and transport to an appropriate facility (preferably one with an ophthalmologist).
- If possible, patients with eye injuries should have a visual acuity test completed:^[3]
 - Test one eye at a time.
 - Initially test the patient's ability to count fingers (question patient on clarity of vision).
 - Should the patient be unable to complete this, test for hand motion, or light perception.
- Do not delay initial treatment to perform visual acuity test.

+ Additional information (cont.)

- Administration of an antiemetic following penetrating or blunt eye injury is highly recommended. Vomiting significantly increases intraocular pressure and should be avoided.
 - It is recommended that ondansetron is used in these circumstances especially if opioid pain relief is given.
 - It is highly recommended that medications such as maxolon are avoided, due to the risk of dystonic reactions occurring and perpetuating the injury
- Routine padding of eyes is no longer recommended. If padding is used, it must not place pressure on the globe. Do not pad an eye with a penetrating injury.
- Patients transported by air may have special requirements. Consult with receiving facility or RSQ as to flight restrictions.
- When flushing eyes, place injured/damaged eye down and flush from medial aspect.
- Eye injuries associated with capsicum spray should be irrigated until pain subsides.
- Preferred positioning for patients with eye injuries is supine with head elevated.

