CONTINUING PROFESSIONAL DEVELOPMENT (CPD)

and understanding

This page is designed to help you test your own understanding of the concepts covered in this issue, and to reflect on what you have learnt. We hope that you will also discuss the questions with your colleagues and other members of the eye care team, perhaps in a journal club. To complete the activities online – and get instant feedback – please visit www.cehjournal.org

1. The BETTS classification has been introduced to standardise classification of ocular injuries. This simplified system can NOT be used to:		Sele one
а	Audit ocular injuries at a hospital	
b	Assist with visual prognosis in conjunction with the ocular trauma score	
	Assess trauma with intraocular foreign body	
d	Describe chemical injuries	
2. In assessing a patient with ocular trauma, the patient is most likely to be in a state of anxiety. What is the most appropriate action to take to manage the anxiety?		Sele
		one
		one
to n	nanage the anxiety?	
to n a	hanage the anxiety? Adopt a calm, sympathetic, reassuring and yet authoritative presence	
to n a b	Adopt a calm, sympathetic, reassuring and yet authoritative presence Take a quick visual acuity and make a prognosis	

ANSWERS

A.D. BETT's is tailored to describe mechanical injuries to the eye globe. All definitions are in relation to comeal and scleral tissue penetration. It does not assist with classifying chemical injuries.
2. A. It is important to manage oneself first when trying to deal with another person's any to the patient of to your is important to manage oneself first when trying whether by what you say to the patient of to your is every bad, avoid giving that indication at the beginning, whether by what you say to the patient or to your colleagues. It is often necessary to stabilise the patient prior to any examination or the use of painkillers.

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Ocular Trauma Score: case study and quiz

A 65-year-old man suffered an injury to the right eye, caused by a stone which ricocheted while using a weed cutter in his garden at home. He had not been wearing eye protection. At initial assessment when he presented to the hospital 17 hours following the injury, his visual acuity was nil perception of light (NPL). He had a corneal perforation and early signs of endophthalmitis, including mucopurulent discharge and anterior uveitis, were already present. A CT scan showed no intraocular foreign body. Answer the questions and then compare them with how the team approached the situation. See article on page 44.

- **1** What is the raw score?
- 2 What is the ocular trauma score (OTS)?
- **3** What would you say to the patient and his family?
- 4 How would you treat the patient?

5 What is the likely clinical and visual outcome if the infection cannot be controlled?

Case study courtesy of Desirée C Murray

ANSWERS

Evisceration of the ocular contents was performed 9 days after the injury.

- and topical amphotericin and topical natamycin).
 Despite the above treatment, the infection failed to be controlled and the ratent developed a comeal abscess.
 Despite the above treatmenty low probability of visual recovery and the risk of sympathetic ophthalmitis, the Having understood the extremely low probability of visual recovery and the risk of sympathetic ophthalmitis, the patient and this family accepted the need for removal of the eye and gave informate consent for the procedure.
- about the prognosis. **4** In this instance, the team repaired the corneal full-thickness laceration and treated the patient with antibiotics (intravitreal vancomycin and ceftazidime; topical and oral moxifloxacin) and antifungals (intravitreal

Ve of NPL at presentation, supported this finding and moreover suggests that the probability of regaining any vision is closer to 0%. The patient and their relatives had to be counselled with sensitivity (see page 50)

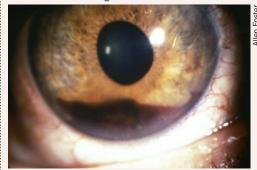
3 According to Table 2 (page 44), an OTS of 1 (the poorest prognosis) gives a probability of 73% that the final visual outcome will remain nil perception of light (NPL), and just a 17% probability that the patient would have perception of light (PL) at follow-up. From a clinical perspective, the presence of endophthalmitis, and have perception of light (PL).

- τ = STO **2**
- **1** Raw score = 60 -17 (endophthalmitis), -14 (perforating Injury) = 29

REFLECTIVE LEARNING

Visit www.cehjournal.org to complete the online 'Time to reflect' section.

Picture quiz



This is a picture of a 10-year-old boy who was hit in the eye by a stone.

Q1. What abnormality can you see on examination? (Select one)

- a. Corneal ulcer
- **b.** Hypopyon
- c. Orbital cellulitis
- d. Iritis
- e. Hyphaema

Q2. Which of these examinations/investigations would be appropriate? (Select all that apply)

- a. Ocular movements
- **b.** Examination of the pupils
- c. Slit lamp examination of the lens
- d. Measurement of intra-ocular pressure (IOP)
- e. Ophthalmoscopy

Q3. Which of the following may be indicated in treatment? (Select all that apply)

a. Aspirin

b. Immediate referral for surgical removal of the hyphaema

c. Rest

- d. Acetazolamide tablets
- **e.** Annual check of intraocular pressure (IOP)

before it causes ineversible sight loss.
3. c, d and e. Aspirin is contra-indicated as it may cause further bleeding. For pain management, paracetamol or ipuprofen are recommended. Unlike a penetrating injury, urgent surgical any further intervention. Rest is appropriate to allow the actersolamine tablets may be indicated to reduce aqueous secterion. A hyphaema can cause damage to the trabecular methwork, which increases the risk of glaucoma at an early stage, there in the intervention is any further intervention. Rest is appropriate to allow the actersolamide tablets may be indicated to reduce aqueous secterion. A hyphaema can cause damage to the trabecular methwork, while histores the risk of glaucoma at an early stage, there is a supervise to a supervise to the trabecular methwork.

Sa rypraema, which can occur after blurt injurtes.
2. All of the tests are appropriate. A blurt injury can cause a blow-out fracture of the orbit with entrapment of the inferior rectus blow-out fracture of the orbit with entrapment of the inferior rectus injuries can cause tears of the inferior representation of upward gaze. Blunt injuries can cause tears of the entrapment of the inferior rectus field or proved. The lens may be sub-luxated or dislocated by a blunt injury and there may be a concussion dislocated by a blunt injury and there may be a concussion the inferior chamber or damage to the trabecular meshwork (angle encession). Blunt injury can cause macula codema or returnation chamber or damage to the trabecular meshwork (angle to the trabecular meshwork (angle encession). Blunt injury can cause macula codema or returnation of the injury and there may be a concussion of the interval and the maximum cause tears of the trabecular meshwork (angle transition of the transition of the trabecular meshwork (angle transition of the trabecular meshwork (angle transition of the transition of the trabecular meshwork (angle transition of the transition of the trabecular meshwork (angle transition of the transition of transition of the transition of the tra

1. e. The picture shows blood in the anterior chamber, known