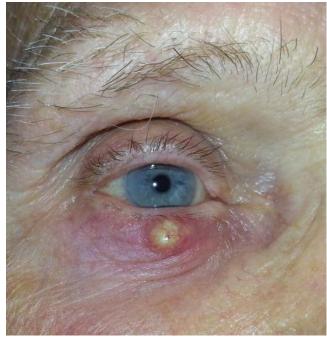
THE CLINICAL PICTURE

COLM MCALINDEN, MB BCh, BSC (Hons), MSC, PhD 31 Uplands Crescent, Uplands, Swansea, UK MIGUEL GONZÁLEZ-ANDRADES, MD, PhD Cornea and Refractive Surgery Service, Massachusetts Eye and Ear Infirmary; Department of Ophthalmology, Harvard Medical School, Boston, MA EIRINI SKIADARESI, MD, MSc, FEBO Department of Ophthalmology, ABM University Health Board, Singleton Hospital, Swansea, UK

Hordeolum: Acute abscess within an eyelid sebaceous gland



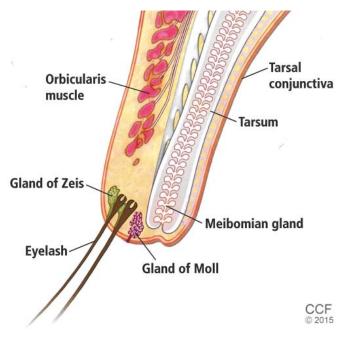


FIGURE 1.

A N 89-YEAR-OLD MAN presented complaining of a tender, painful lump in the right lower eyelid that spontaneously appeared 3 days previously. There was no discharge, bleeding, or reduced vision. He had a history of hypertension and macular degeneration. There was no history of a pre-existing eyelid lesion, ocular malignancy, rosacea, or seborrheic dermatitis. Examination of the right lower lid revealed a roundish raised abscess with surrounding erythema (**Figure 1**). The raised area was tender on palpation; there was no discharge. The palpebral conjunctiva was normal. A diagnosis of a hordeolum was made, and conservative treatment was prescribed, ie, warm compresses and massage for 10 minutes four times a day. The lesion improved gradually and resolved over 3 weeks.

FIGURE 2.

A hordeolum is an acute abscess within an eyelid gland, usually staphylococcal in origin. When it involves a meibomian gland it is termed an internal hordeolum, and when it involves the gland of Zeis or Moll it is termed an external hordeolum (**Figure 2**).¹ Hordeola may be associated with diabetes, blepharitis, seborrheic dermatitis, rosacea, and high levels of serum lipids. Treatment is with warm compresses and massage. A hordeolum with preseptal cellulitis, signs of bacteremia, or tender preauricular lymph nodes requires systemic antibiotics (eg, flucloxacillin 250–500 mg four times a day for 1 week).

Preseptal cellulitis is an infection of the subcutaneous tissues anterior to the orbital septum. The orbital septum is a sheet of fibrous tissue that originates in the orbital periosteum and inserts in the palpebral tissues

doi:10.3949/ccjm.83a.15012

332 CLEVELAND CLINIC JOURNAL OF MEDICINE VOLUME 83 • NUMBER 5 MAY 2016

TABLE 1

Differences between chalazion and hordeolum

	Chalazion	Hordeolum	
Description	Chronic lipogranuloma due to leakage of sebum from an obstructed meibomian gland	Acute abscess within an eyelid gland, usually staphylococcal in origin. Subdi- vided into internal (meibomian gland) and external (gland of Zeis or Moll)	
Risk factors and associations	Blepharitis, seborrheic dermatitis, acne rosacea	Diabetes, blepharitis, seborrheic dermatitis, acne rosacea, high serum lipids	
Presentation	Any age, gradually enlarging painless lesion	Any age, acute painful lesion	
Signs	Nontender, variable size, roundish, firm lesion within the tarsal plate	Internal: tender, painful swelling within the tarsal plate; may enlarge and dis- charge anteriorly (through the skin) or posteriorly (through the conjunctiva)	
		External: tender, painful swelling in the eyelid margin pointing anteriorly through the skin	
Treatment options	Warm compresses and massage	Internal:	
·	Corticosteroid injection	Warm compresses and massage Oral antibiotics (if associated with	Hordeolum
	Incision and curettage	preseptal cellulitis) Incision and curettage	typically
	incision and carettage	-	resolves within
		External: Warm compresses and massage Oral antibiotics (if associated with preseptal cellulitis)	several weeks with warm
		Epilation of infected follicle	compresses and massage
When to refer to an ophthalmologist	No improvement or resolution with conservative measures	No improvement or resolution with conservative measures	J. J
	Interferes with vision	Signs of preseptal or orbital cellulitis	
	Recurrent nodules	Suspected cancer	
	Suspected cancer		

along the tarsal plates of the eyelid. The orbital septum provides a barrier against the spread of periorbital infection into the orbit (orbital cellulitis). The causes of preseptal cellulitis include skin trauma (eg, lacerations, insect bites), spread from local infections (eg, hordeolum, dacryocystitis), or systemic infections (eg, upper respiratory tract, middle ear). Clinical features include malaise, fever, and painful eyelid with periorbital edema. Any sign of proptosis, chemosis, painful restricted eye movements, diplopia, lagophthalmos, or optic nerve dysfunction warrants further investigation. Chronic or large hordeola may require incision and curettage.

A recent Cochrane review concluded that there was no evidence of the effectiveness of nonsurgical interventions (including hot or warm compresses, lid scrubs, antibiotics, and steroids) for hordeolum, and controlled clinical trials would be useful.²

Chalazion and hordeolum are similar in appearance and often confused (Table 1). A chalazion is a chronic lipogranuloma due to leakage of sebum from an obstructed meibomian gland. It may develop from an internal hordeolum. Small chalazia usually resolve with time without any intervention, and hot compresses can be effective at encouraging drainage. Persistent lesions may be surgically removed by incision and curettage. Recurrence warrants biopsy and histologic study to rule out sebaceous gland carcinoma.³

REFERENCES

- Mueller JB, McStay CM. Ocular infection and inflammation. Emerg Med Clin North Am 2008; 26:57–72.
- Lindsley K, Nichols JJ, Dickersin K. Interventions for acute internal hordeolum. Cochrane Database Syst Rev 2013; 4:CD007742.
- Denniston AKO, Murray PI: Oxford handbook of ophthalmology. 2nd ed. United Kingdom: Oxford University Press; 2009.

ADDRESS: Colm McAlinden, MB, BCh, BSc (Hons), MSc, PhD, 31 Uplands Crescent, Uplands, Swansea, UK; colm.mcalinden@qmail.com