Sebaceous carcinoma of the eyelid: a rarity worth considering

The sebaceous carcinoma is a very rare malignant tumour primarily found in the area of the eyelid. Most of these carcinomas originate in the tarsal meibomian glands although they may in extremely rare cases originate in the glands of Zeis of the eyelashes or the sebaceous glands of the caruncle. The periorbital primaries are reported to behave aggressively with a significant mortality in most series.

In many cases correct diagnosis of a sebaceous carcinoma of the eyelid is delayed not only as a result of the rarity of this tumour but also because of its ability to masquerade as a variety of other eye conditions such as chalazion or chronic blepharoconjunctivitis. A high index of suspicion is vital if these tumours are to be adequately treated.

We present a case of sebaceous carcinoma of the eyelid and discuss the clinical behaviour, the diagnosis, and the differential diagnosis difficulties as well as the therapy.

Case report

A 78 year old patient presented with a localised infiltration in the centre of the right upper eyelid. Under local antibiotic therapy for 6 weeks the lesion increased in size and showed purulent secretion on the surface. The patient refused further treatment and presented 22 months later with no healing of the lesion on the upper lid and a visible increase in size. The clinical examination revealed an ulcerating tumour measuring 3 cm in diameter at the right upper lid with a bloody encrusted lid margin (Fig 1A) and an enlarged lymph node on the right preauricular area of the parotid gland. The oculocutaneous examination revealed no conjunctival or corneal involvement. A biopsy of the eyelid tumour revealed a carcinoma of a meibomian gland with complete infiltration of the upper lid. Conjunctival map biopsies were negative.

Two weeks later a total resection of the upper lid with rapid section examination of the resection margins was carried out as well as the exirpation of the lymph node and an underlying metastasis beneath the parotid gland. Because the rapid section examination from the lateral mucosal border did not show any infiltration with tumour tissue, we decided to do a three layered primary reconstruction of the upper lid with a pedicled temporal island flap covered with a full thickness skin graft from the contralateral upper lid. The reconstruction of the conjunctiva was achieved by an oral mucosal graft. In order to make the raising of the lid possible, the flap was fixed on the fascial residue of the superior levator palpebrae muscle. The histopathological reappraisal revealed tumour stage T3N1 (Fig 2) and a R0 resection.

Two weeks after the surgery a neck dissection was performed and an adjuvant radiation therapy of the right orbit as well as the cervical lymph draining was begun in 25 cycles with a dose of 50 Gy.

A local relapse or further metastasis 15 months after the surgery did not occur (Fig 1B).

Comment

The low incidence and the non-specific clinical symptoms led us to conclude that the diagnosis of a sebaceous carcinoma of the eyelid often occurs very late. One warning sign is the local loss of the eyelashes resulting from a tumour infiltration of the follicle. Every therapy refractive, one sided, tumour-like eyelid lesion has to be clarified histologically to rule out sebaceous carcinoma. A full thickness eyelid biopsy combined with conjunctival map biopsies is appropriate approach to the diagnosis. In our case we found the typical pagetoid infiltration of the overlying epidermis at the margins of the widely infiltrated carcinoma. It presented without sign of multicentric growth, which together with pagetoid spread indicates poor prognosis.

The therapy of choice for the sebaceous carcinoma is primarily a surgical one. If the tumour is very large or recurrent with demonstrated spread to bulbar conjunctiva, to the other eyelid, or to orbital tissue, a subtotal or complete exenteration may be necessary. If evidence of spread to regional lymph nodes is present a lymph node or radical neck dissection should be performed, usually combined with partial parotidectomy.

An alternative to the surgical excision is the radiation therapy with a total dose of 50 Gy. Radiation therapy may be considered as an adjunct to local surgery. Recurrence of tumour usually occurs within 3 years following radiotherapy alone.

There are some techniques of eyelid reconstruction presently available. An ideal eyelid reconstruction should replace the missing tarsoconjunctival structures and skin, protect the globe, give a natural appearance with only minor donor defect morbidity, and should be done as a one stage procedure. The temporal island flap described in our case report has the advantage of being one stage procedure, which is relatively easy and quickly done and provides well vascularised tissues. A disadvantage is that the overlying temporal skin of the island flap can be very heavy, which makes it difficult for the patient to wear glasses.

Figure 1 (A) A 78 year old man with a meibomian carcinoma of the right upper eyelid. Note the ulcerating tumour measuring 3 cm in diameter with a bloody encrusted lid margin. (B) Result 15 months after surgery.

Figure 2 Deep infiltrating partly sebaceous differentiated tumour formations with high mitotic activity (haematoxylin and eosin, ×200).
de-epithelialisation or excision of the relatively thick skin and replacement by a full thickness skin graft necessary.

Postoperative patients must be followed up at short intervals as the tumour has a fast growth potential. The approximate guidelines are 3 monthly interval during the first year, 6 monthly during the second year, and then on a yearly basis for life.

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Dramatic regression of conjunctival and corneal acquired melanosis with topical mitomycin C

Conjunctival primary acquired melanosis is the most important precursor of conjunctival malignant melanoma. Primary acquired melanosis appears as flat, patchy, non-cystic pigmentation in the conjunctival epithelium and can remain dormant for years or show slow progression. Studies have shown that it leads to conjunctival melanoma in approximately 1% to 30% of patients. Treatment of primary acquired melanosis includes observation, excisional biopsy, alcohol epitheliectomy, cryotherapy, and topical chemotherapy. We illustrate a dramatic case where topical chemotherapy provided complete regression of advanced, aggressive primary acquired melanosis.

A 73 year old white man had noted slowly progressive pigmentation on the surface of his right eye for 5 years. A biopsy revealed intraepithelial conjunctival melanosis with atypia. The patient was referred to the Ophthalmology Service at Wills Eye Hospital for evaluation and management. On examination, his visual acuity was 20/20 right eye and 20/40 left eye. Intraocular pressures were 13 mm Hg in both eyes. The interior of both eyes was normal with mild nuclear sclerotic and mild retinal pigment epithelial mottling.

Topical mitomycin C ophthalmic preparation has been found to be safe and effective for conjunctival squamous neoplasia. Its usefulness for conjunctival melanocytic neoplasia is debatable and not yet proved in a large series of patients. A recent study on a small number of patients with conjunctival melanoma and...
melanosis indicated a possible role for topical chemotherapy, but the authors advised further investigation. In this regard, we prefer to reserve mitomycin C therapy for patients with biopsy proved primary acquired melanosis with atypia. An important observation in our case was the effectiveness of topical chemotherapy for corneal melanosis where other methods of treatment could have led to scarring, conjunctival overgrowth, and ultimate vision loss. We emphasise, however, that patients should be monitored biomicroscopically while taking the medication as overuse could lead to lasting corneal and scleral tissue damage. The recommended duration of treatment has yet been established in a randomised study. We prefer to limit treatment to two to four cycles with a non-treatment weekly hiatus between cycles to avoid complications. In summary, we report a dramatic case that supports the value of topical mitomycin C for primary acquired melanosis.

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References

Recurrent corneal ulceration as late complication of toxic keratitis
Abuse of topical anaesthetic agents is a rare but potentially dangerous cause of toxic keratitis. Persistent use of topical anaesthetics may result in severe pain, hyperaemia, mucopurulent discharge, chronic epithelial defects, stromal infiltrates with oedema and neovascularisation, and even hypopyon or hyphaema. Permanent corneal scarring and visual loss may lead to penetrating keratoplasty and enucleation. Patients have obtained anaesthetic drops from eye care practitioners and pharmacists, from theft of the practitioners’ offices, and over the counter in some developing countries. We present a case of toxic keratitis secondary to topical anaesthetic abuse that is unique in two aspects: Firstly, the patient received the drops directly from an emergency department physician and, secondly, the patient developed an ulcerative keratitis months after the cornea had re-epithelialised.

Case report
A 24 year old woman presented with complaints of decreased vision and severe eye pain bilaterally. Two weeks before presentation, she had a history of intensely pruritic allergic conjunctivitis. She was examined by a community hospital emergency department physician, who reportedly treated her for a corneal abrasion in the right eye. Two ophthalmologists subsequently treated her for presumed bilateral bacterial keratitis that worsened despite aggressive topical antibiotic therapy, and the patient was referred to the UMDNJ-New Jersey Medical School ophthalmology department. The patient was not a contact lens wearer, and she denied tap or pool water exposure. Past medical history was unremarkable.

On examination, visual acuity was hand movements in both eyes. The eyelids were oedematous and the palpebral and bulbar conjunctiva were severely hyperaemic. The corneas had relatively symmetrical 5 by 7 mm epithelial defects with underlying dense stromal ring infiltrates (Fig 1). The stromas were mildly thinned, and endothelial folds and fine keratitic precipitates were noted. Anterior chamber examination revealed a mild cell and flare reaction, but no hypopyon. Iris, pupils, and lens examinations were unremarkable, and retinal examination revealed normal macula, disc, and blood vessels in both eyes.

Initial differential diagnosis included bacterial, fungal, viral, and Acanthamoeba infection. However, after repeated review of the history, the patient admitted that the initial emergency department physician had given her a bottle of topical anaesthetic and told her “not to tell anyone.” The patient confessed to using the oxybuprocaine (proparacaine) drops every hour in both eyes over the previous 2 weeks. The anaesthetic drops were discarded, and treatment with erythromycin ointment, diclofenac drops, and homatropine 5% was instituted. A bandage soft contact lens reduced the patient’s pain. Corneal cultures, performed to rule out concurrent or subsequent infection, were negative. Over the next week, visual acuity improved to 20/80 in the right eye and 20/40 in the left, though residual bilateral 4 mm epithelial defects with stromal rings remained. The patient was then lost to follow up for 2 months.

Follow up examination revealed a residual epithelial defect in the right eye, and healed epithelium in the left eye. Over the next month, the epithelial defect resolved in the right eye, but bilateral ring-like stromal haze persisted. Four months later the patient presented with a new 2 by 3 mm epithelial defect with underlying stromal infiltrate and neovascularisation in the left eye (Fig 2). The patient vehemently denied any further use of topical anaesthetic drops. Cultures were performed, and treatment with oloxacin and erythromycin was instituted. The cultures were negative, and the epithelial defect slowly resolved. The underlying corneal stroma remained opacified and neovascularisation persisted. At last examination, visual acuities were 20/40 in the right eye, and counting fingers at 1 foot in the left eye.

Comment
Topical anaesthetic agents are routinely used in ophthalmic examinations and procedures. The most commonly used preparations include oxybuprocaine and amethocaine (tetraacaine). They are topical ester anaesthetics with fast onset of action (10–20 seconds), and relatively short durations of action (10–15 minutes). The agents act by interfering with sodium transmission through neuronal membranes, thereby stabilising the transmembrane potential, inhibiting the generation of action potentials, and blocking the sensation of pain. The toxic effects of topical anaesthetics are both direct and indirect. Epithelial cell organelles, desmosomes, and cytoskeletal elements can be directly damaged by these agents, altering cellular metabolism and function. Indirectly, loss of epithelial microvilli can cause tear film instability, promoting corneal desiccation and inhibiting re-epithelialisation. Secondary neurotrophic changes may then occur.

Electron microscopy of corneal endothelial cells exposed to topical anaesthetics shows loss of the normal mosaic of hexagonal cells and abnormalities of the intercellular junctions and apical attachments. Immune complexes released from the cornea may be
Ataxia and vision loss: flow cytometric diagnosis of primary central nervous system lymphoma

Approximately 20% of patients with primary central nervous system lymphoma will have eye involvement, which often precedes diagnosis by a number of months. The diagnosis of intraocular and/or CNS lymphoma depends on histological and immunohistochemical analysis of specimens.

Cytological differentiation of reactive lymphoid cells from well-differentiated lymphoma using morphological characteristics depends on observer skill and the presentation of adequate numbers of cells. Immunocytochemical staining of cell surface antigens assists in this differentiation and can detect cell population monoclonality, a common feature of large B-cell lymphomas.

Cytofluorographic flow cytometry is a semi-automated method of immunocytochemistry that has some advantages over slide-based immunocytochemistry including objective and quantitative data on cell surface markers.

We present a patient with ataxia and vision loss who was diagnosed with primary CNS lymphoma using cytofluorographic analysis of a vitreous biopsy specimen.

Case report

A 53 year old woman was diagnosed with bilateral panuveitis. Best corrected visual acuity (BCVA) was 20/30 right eye and 20/40 left eye. Bilateral mild anterior uveitis and vitritis was present. Diagnostic tests for uveitis were negative. The patient was treated with topical (1%) and oral prednisolone (35 mg) over 16 weeks resulting in a BCVA of 20/30 right eye and 20/25 left eye, resolution of the anterior uveitis, and marked reduction in the vitreous cells bilaterally.

Three months later, the patient presented to the Beth Israel Deaconess Medical Center emergency room with ataxia and vision loss. She had recurrence of her bilateral panuveitis.

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References


However, correlation of flow cytometry analysis with morphological examination of the tissue section or cytology preparation is still required. Although two early reports did not find flow cytometry helpful in diagnosing intraocular lymphoma, three recent cytology studies detected malignancy in 100% of 13 cases and 70% of 10 cases usually with one vitrectomy.

While primary CNS-NHL is initially extremely sensitive to radiotherapy or corticosteroid and chemotherapy may double median survival time, but the 5 year survival rate is only 4% to 30%. In the minority of patients with this rare disease who have eye involvement, early vitrectomy using cytology and flow cytometry can provide a prompt diagnosis.

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Intravitreal triamcinolone acetonide for macular oedema due to central retinal vein occlusion

No proved treatment exists for macular oedema secondary to central retinal vein occlusion (CRVO) despite the potential for significant visual loss in affected eyes. We report a patient with bilateral non-ischaemic CRVOs and macular oedema treated with intravitreal triamcinolone acetonide.

An 80 year old woman presented with a 2 week history of acute visual loss in her left eye (LE). She had a 9 month history of poor vision in her right eye (RE). On examination, visual acuity was counting fingers RE and 20/400 LE. Intraocular pressures were 12 and 14 mm Hg, respectively. Anterior segment examination showed bilateral pseudophakia with no evidence of neovascularisation. Dilated fundus examination revealed bilateral CRVOs with macular oedema. Collarette disc vessels were present in the RE. Fluorescein angiography showed diffuse leakage and blockage from intraretinal haemorrhages in both eyes with no areas of non-perfusion (Fig 1). OCT measured a central macular thickness of 713 µm in the RE and 589 µm in the LE (Fig 2A). Owing to the poor visual outcome in the RE with observation, the patient was offered an intravitreal injection of triamcinolone acetonide (Apothecon, Princeton, NJ, USA) in the LE. Topical 0.5% amethocaine (tetracaine, Novartis, Atlanta, GA, USA) was used for anaesthesia. Two drops were applied three times, 5 minutes apart. Betadine (povidone-iodine) 5% (Alcon, Ft Worth, TX, USA) was then applied to the conjunctiva. An injection of 4 mg (0.1 ml) triamcinolone was performed using a sharp 27 gauge, half inch needle through the inferior pars plana, 3 3 mm from the corneal limbus appropriate for her pseudophakic status.

Six weeks post-injection, visual acuity was 20/80 in the LE. Central macular thickness measured 100 µm with a normal foveal contour (Fig 2B). Visual acuity was 20/30 after 3 months. Central macular thickness remained normal by OCT. Six months post-injection, visual acuity declined to 20/400 because of recurrence of macular oedema.

Figure 1 Mid-phase fluorescein angiography of the left eye shows a central retinal vein occlusion with diffuse leakage and blockage secondary to retinal haemorrhage.

Figure 2 (A) Optical coherence tomography of the left eye before first intravitreal triamcinolone acetonide injection demonstrating marked macular oedema with intraretinal cysts. (B) Resolution of macular oedema with restoration of normal foveal contour 6 weeks after intravitreal triamcinolone injection.
measuring 834 µm by OCT. A second injection was performed in the LE. One month later, visual acuity was 20/50; central macular thickness measured 158 µm with restoration of a normal foveal contour.

Given the significant response in the LE, an intravitreal triamcinolone injection was performed in the RE. The macular oedema responded promptly (735–195 µm central macular thickness) with restoration of normal macular anatomy, but no visual benefit was appreciated. There was no significant elevation in IOP in either eye during the follow up period.

Macular oedema due to CRVO generally carries a poor visual prognosis. After 3 years, 58% of eyes will have vision worse than 20/100. Less than 20% of eyes will gain two or more lines of visual acuity. In addition, there are no proved treatment options. The Central Vein Occlusion Study demonstrated that grid photocoagulation had no significant impact on the final visual acuity of eyes with CRVO and macular oedema.

In this case, a patient with an acute CRVO and macular oedema had significant improvement in visual acuity and complete resolution of macular oedema after each of two intravitreal triamcinolone. A chronic CRVO with macular oedema in the other eye showed an anatomic response without visual improvement. Thus, early treatment may be necessary for visual improvement, before longstanding macular oedema results in irreversible photoreceptor damage. The mechanism by which this modality induces resolution of macular oedema in eyes with CRVO is unclear, though stabilisation of the blood-retinal barrier may play a significant part.

The safety and efficacy of intravitreal triamcinolone has been well studied in animal models. It has also been used in humans for the treatment of choroidal neovascularisation and cytokind macular oedema due to uveitis. IOP elevation may occur in up to 25% of eyes after corticosteroid injection. Other potential risks of the procedure include cataract development, retinal detachment, and endophthalmitis.

This case suggests that the use of intravitreal triamcinolone acetate for the treatment of macular oedema due to CRVO warrants further study.

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Figure 1  (A, B) Fundus photographs of the left eye showing active CMV retinitis, with a necrotic area over the disc and several haemorrhages and sheathing on the superotemporal and inferotemporal arcade. (C) Fundus photograph of the right eye showing active CMV retinitis with sheathing and exudation on the inferotemporal arcade of the right eye. (D) Same area of the fundus of the right eye showing improvement of the picture after 1 week of treatment.


Should active CMV retinitis in non-immunocompromised newborn babies be treated?

Cytomegalovirus (CMV) retinitis in children with congenital CMV infection is known to differ from that described in immunocompromised subjects, because it is present at birth and does not progress postnatally if the child is otherwise immunocompetent. Regarding treatment, there are limited data in infants with symptomatic congenital CMV infection and it is not known whether antiviral drugs alter the prognosis. We describe a case of congenital CMV retinitis that progressed postnatally and our treatment regimen.

Case report
A 9 day old baby was referred to the eye clinic after having been diagnosed with congenital syphilitic CMV infection.

During pregnancy, at 34 weeks, poor growth and ventriculomegaly were noted and a scan at 35 weeks showed bilateral cysts in the occipital horn of the lateral ventricles. He was born at 40 weeks by emergency caesarean section. The mother was a healthy 18 year old woman. His birth weight was 2.1 kg and his head circumference 31.5 cm, both of which were below the 0.4th centile. Brain magnetic resonance imaging confirmed the presence of bilateral occipital cysts and periventricular nodular heterotopias. There were delayed development and microcephaly.

Electrodiagnostic tests were performed at 4 months and suggested moderate vision in the right eye and poor vision in the left.

On last examination at 5 months the baby would not fixate with the left eye and had developed a divergent squint while he was fixing on bright objects with his right eye. Fundus examination revealed a pale optic disc on the left, vascular attenuation in the left eye, pigmented scars superiorly in both eyes, and right macular gliosis. There was no gross refractive error.

His growth followed a centile just below the 0.4th with delayed development and microcephaly.

Comment
Cytomegalovirus is the most common cause of congenital and perinatal viral infections throughout the world. The incidence of congenital infection ranges from 0.2–2.4% of all live births, with higher rates in populations with a lower standard of living. The fetus may become infected as a consequence of primary and recurrent maternal infection. The risk of fetal infection is greatest with maternal primary CMV infection (40%) and much less likely with recurrent infection (1%). Only 5% of all congenitally infected children have severe disease, another 5% have mild involvement, and 90% are born with subclinical but chronic CMV infection. The most characteristic signs include intrauterine growth retardation, prematurity, hepatosplenomegaly and
jaundice, thrombocytopenia and purpura, and microcephaly and intracranial calcifications. Neurological problems include mild increase in cerebrospinal fluid protein, sensorineural hearing loss, and choreorretinitis. Among the most severely affected infants, mortality may be as high as 20% and death may occur in the neonatal period or months later. The likelihood that infants who survive symptomatic congenital CMV infection will have normal hearing and intellectual development is small. In infants with subclinical infection, the outlook is much better.

Active CMV infection is best demonstrated by virus isolation from urine, saliva, bronchoalveolar lavage, breast milk, cervical secretions, and tissues obtained with biopsy. The definitive method for diagnosis of congenital CMV infection is isolation of the virus in urine or saliva. This must be done shortly after birth. Intrauterine, perinatal, or early postnatal acquisition of CMV characteristically causes a more chronic infection with regard to virus excretion than does infection acquired later in life. Virus is shed in the urine for approximately 5 years and frequently into the nasopharynx for 2–4 years. The quantity of virus excreted in these sites is much greater than that found in infected older children and adults. Immaturity of the immune response of the fetus and of young infants is believed to be the major determinant of virulence of the congenital and early postnatally acquired infection. Still, the extent and exact nature of the immune defect in congenitally infected infants have yet to be resolved. CMV can also be diagnosed in utero by isolation of the virus in the amniotic fluid.

CMV retinitis is known to occur in immunosuppressed adults and its incidence has increased in the last years as a result of acquired immunodeficiency syndrome (AIDS). The occurrence of CMV retinitis in immunocompromised children is unusual and only few cases have been reported in the literature.

Congenital CMV infection may also be associated with retinitis. The precise incidence of CMV retinitis has been reported to be up to 25% of infants with severely symptomatic congenital CMV and in approximately 1% of infants who are asymptomatic and congenitally infected. The retinitis in congenitally infected children differs from that described in immunocompromised subjects because it usually does not progress after birth if the child is otherwise immunocompetent.

Delayed onset and reactivation of chorioretinitis in children with congenital CMV infection has been described in a series of seven patients. Progression occurred later in life, the age ranging from 3 to 11 years. Only one child had a positive urine culture for CMV and no treatment was administered. The baby we treated presented to us at 9 days of age with active progressive bilateral conjunctival infection, right ptosis, and bilateral orbital swelling present for at least 2 years before presentation.

Figure 1 Photographs taken at [A] 6 years, [B] 8 years, [C] 9 years, and [D] 11 years, showing inferonasal displacement of the right globe, right ptosis, and superolateral orbital swelling present for at least 2 years before presentation.

1 week of treatment and ganciclovir was stopped after 3 weeks, as the child was otherwise immunocompetent. We cannot be sure to what extent the treatment contributed to the resolution of the retinitis as the natural history of the disease is not known. However, despite the rapid resolution of the retinitis, the visual outcome was not ideal. Based on current evidence it would seem appropriate to recommend early treatment of active retinitis. It is important to be aware that active and progressive CMV retinitis can occur in children with symptomatic congenital CMV infection who are not otherwise immunocompromised. The associated retinal vasculitis can result in significant visual impairment. Urgent assessment and prompt initiation of treatment is recommended as it is likely to improve the visual prognosis by arresting the necrotising retinitis from spreading to the posterior pole, or the contralateral eye. Reporting such rare cases should raise awareness of this serious condition with potentially devastating ocular sequelae. It may in time clarify the spectrum of the disease and help in establishing the best way to manage its complications.

References

Pleomorphic adenoma of the lacrimal gland in a 10 year old girl

Pleomorphic adenoma is the most common epithelial tumour of the lacrimal gland, representing 12% of lacrimal fossa lesions. It typically presents in middle age and is rare in children under the age of 16 years, with only a few previously reported cases. We present an additional case in a 10 year old girl with photographic documentation of longstanding orbital asymmetry.

Case report

A 10 year old girl was referred with a 3 month history of painless right eyelid swelling, presumed to be allergic in nature. The unaided right visual acuity was 6/24, improving to 6/9 with correction of astigmatism (+1.00 −2.25 × 020) and the unaided left visual acuity was 6/5. Pupil responses and colour perception were normal. Ocular motility was normal but there was 3 mm of right proptosis, with inferonasal globe displacement, and a non-tender lacrimal gland mass. Periorbital sensation was intact and ocular examination was otherwise unremarkable. Family photographs demonstrated an asymmetry in appearance of the two eyes for at least 2 years previously (Fig 1).

Computed tomograph (CT) scan demonstrated a well defined 1.8 × 1.8 cm mass arising from the right lacrimal gland with mild smooth bony erosion of the lacrimal fossa, consistent with a pleomorphic adenoma. Lateral orbitotomy was performed under general anaesthetic with intact excision of the orbital lobe of the right lacrimal gland. Histology confirmed benign pleomorphic adenoma with intact pseudocapsule.

Comment

Pleomorphic adenoma of the lacrimal gland is rare in children with only few previously

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reported cases. Nevertheless, even in the pediatric age group, it is important to consider the diagnosis in the presence of a painless, gradually progressive lacrimal gland mass. A published system for evaluation of lacrimal gland masses scores the duration of symptoms, presence of persistent pain or sensory loss, as well as radiological features, in order to determine the appropriate surgical management. The case described scored the maximum 8 points, where a score higher than 3 suggests pleomorphic adenoma requiring excision without previous incisional biopsy. Complete excision with an intact pseudocapsule has prognostic importance in avoiding later recurrence and malignant transformation.

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References

Surgical performance for specialties undertaking temporal artery biopsies: who should perform them?

The management of temporal arteritis carries a large burden on resources and commits the patient to long term anti-inflammatory medication with its concomitant side effects. We undertook a retrospective survey of the recent surgical practice at King’s College Hospital, London. This was to compare performance for the specialties involved in biopsying temporal arteries. We are unaware of any previous publication specifically addressing surgical efficiency. Biopsies of long specimens could help reduce morbidity and mortality associated with false negative results and avoid further unnecessary and expensive investigation. Information was obtained by cross referencing clinical, surgical, and histopathological records for all the temporal artery biopsies done during a 2 year period from March 1998 to March 2000. Arterial specimen length was taken as the performance indicator. Analysis of the biopsy rates for years 1 and 2 was done and then individual lengths were compared.

Table 1

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Results

Thirty nine patients underwent 41 biopsies, yielding an average of 19.5 per year or 1.6 per month. Of these, six were positive. This implies a 14.6% positive biopsy rate. Of the two re-biopsies, one revealed a repeat negative result and the other a positive result. The five departments performing surgery were: ophthalmology—14 biopsies (34%) from 13 patients; neurosurgery—14 biopsies (34%); maxillofacial surgery (MFS)—six biopsies (14.6%) from five patients; general surgery (GS)—five biopsies (12.2%); and vascular surgery (VS)—two biopsies (4.9%). For analysis MFS, GS, and VS are grouped together as they performed relatively few biopsies. Analysis of biopsy rates is depicted in Table 1. Overall, all 14 biopsies were done in year 1, with an average length of 13.8 mm, and 27 in year 2, with an average of 13.1 mm. Regarding specimen lengths, ophthalmology averaged 15 mm in year 1 and 16.4 mm in year 2. Total average was 16.1 mm. This ranged from 5 mm to 30 mm. The 5 mm specimen was deemed too short and re-biopsy yielded a specimen of 23 mm. There were no failed biopsies. Neurosurgeons averaged 10.8 mm in year 1 and 9 mm in year 2, with a total average of 9.6 mm. Specimens ranged from no artery to 20 mm. No re-biopsy of the unsuccessful sample took place. The last group averaged 15.7 mm in year 1 with one specimen containing no artery and 13.1 mm in year 2, also with one unsuccessful procedure. Total average length was 14.3 mm with a range of no artery to 28 mm. The average length of the 35 negative results was 12.9 mm.

Comment

It would appear that our ophthalmology unit is best suited to perform the majority of biopsies. They already perform one third of all biopsies and supplies a relatively large neuroscience service, thus the finding that they perform 34% of the total is not regularly performing biopsies. The biopsy rates done by ophthalmology and the neurosciences were increased in year 2. This may represent a trend that they are performing an increasing proportion of biopsies. The average length of 13.3 mm is disappointing considering the well known “skip lesion” phenomenon. One obviously would like a length as long as possible but realistically an average length of 20 mm should be sufficient. Miller also recommends 20 mm. In summary, we propose that the ophthalmology service should perform a larger proportion of biopsies. This would increase our diagnostic efficiency and reduce the impact that temporal arteritis has on our resources.

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References
For quite some time there has been a plethora of problem oriented approach learning texts available in medicine. They are liked enormously because of their practical approach, often excellent illustrations, readability, and because they can be a great text for quick reference and, indispensably, revision for membership examinations. Ophthalmology has also enjoyed similar textbook approaches except that they have been more didactic and nearly always skewed to surgical conditions. John Ferris is to be congratulated in providing a first class book, which I am sure, is eagerly awaited.

I can imagine the book could become essential for the ophthalmology exams as well as being very useful for the MRCP short cases. The book briskly, and in the main successfully, covers the broad spectrum of medical ophthalmology, including neurology. What is exciting is that he brings in systemic ophthalmology, including neurology. What is exciting is that he brings in systemic features—for example, the hands and face, into ophthalmic learning, further emphasising that ophthalmologists need to look outside the eye. I particularly like the chapters on laboratory tests and radiology, essential for problem oriented approach to learning.

In general, the illustrations are good and the text apt for this stage in learning, although by no means complete, as I am sure each subspecialist may argue unnecessarily. Nevertheless, for exam purposes, I find that this book fulfills its requirements and I would recommend it to all trainees for their exams.

Andrew D Dick
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International Centre for Eye Health

The International Centre for Eye Health has published a new edition of the Standard List of Medicines, Equipment, Instruments and Optical Supplies (2001) for eye care services in developing countries. It is compiled by the Task Force of the International Agency for the Prevention of Blindness. Further details: Sue Stevens, International Centre for Eye Health, 11–43 Bath Street, London ECIV 9EL, UK (tel: +44 (0)20 7608 6910; email: eyeresource@ucl.ac.uk).

Second Sight

Second Sight, a UK based charity whose aims are to eliminate the backlog of cataract blind in India by the year 2020 and to establish strong links between Indian and British ophthalmologists, is regularly sending volunteer surgeons to India. Details can be found at the charity website (www.secondsight.org.uk) or by contacting Dr Lucy Mathen (lucymathen@yahoo.com).

Specific Eye Conditions (SPECS)

Specific Eye Conditions (SPECS) is a not for profit organisation which acts as an umbrella organisation for support groups of any condition or syndrome with an integral eye disorder. SPECS represents over fifty different organisations related to eye disorders ranging from conditions that are relatively common to very rare syndromes. We also include groups who offer support of a more general nature to visually impaired and blind people. Support groups meet regularly in the Boardroom at Moorfields Eye Hospital to offer support to each other, share experiences and explore new ways of working together. The web site www.eyeconditions.org.uk acts as a portal giving direct access to support groups own sites. The SPECS web page is a valuable resource for professionals and may also be of interest to people with a visual impairment or who are blind. For further details about SPECS contact: Kay Parkinson, SPECS Development Officer (tel: 0113 243 23 43; email: k@eyeconditions.org.uk; website: www.eyeconditions.org.uk).

4th International Conference on the Adjuvant Therapy of Malignant Melanoma

The 4th International Conference on the adjuvant therapy of malignant melanoma will be held at The Royal College of Physicians, London on 15–16 March 2002. Further details: Conference Secretariat, CCI Ltd, 2 Paimlerston Court, Palmerston Way, London SW8 4AJ, UK (tel: +44 (0)20 7720 0600; fax: +44 (0)20 7720 7177; email: melanoma@confcomm.co.uk; website: www.confcomm.co.uk/Melanoma).

International Society for Behçet’s Disease

The 10th International Congress on Behçet’s Disease will be held in Berlin 27–29 June 2002. Further details: Professor Ch Zouboulis (email: zoubbere@zedat.fu-berlin.de).

Singapore National Eye Centre 5th International Meeting

The Singapore National Eye Centre 5th International Meeting will be held on 3–5 August 2002 in Singapore. Further details: Ms Amy Lim, Organising Secretariat, Singapore National Eye Centre, 11 Third Hospital Avenue, Singapore 168751 (tel: (65) 322 8374;fax: (65) 227 7290; email: Amy.Lim@SNEC.com.sg).

BEAVRS Meeting

The next BEAVRS meeting will be held in the Dalmahoy Hotel near Edinburgh on 31 October to 1 November 2002. Further details: Susan Campbell, Medical Secretary, Garnethill General Hospital (email: susan.j.campbell@northglasgow.scot.nhs.uk).

EUPO 2002 Course Retina

A course on retina will be held on 15–17 March 2002 at Erlangen, Germany, where European professors will teach European residents. Further details: Priv Doz Dr Ulrich Schonherr, Friedrich-Alexander-University of Erlangen-Nuernberg, Department of Ophthalmology, Schwabachanlage 6 (Kopfklinikum), D-91054 Erlangen, Germany (tel: +49 9131 853 4379; fax: +49 9131 853 4332; email: ulrich-schoenherr@augen.imed.uni-erlangen.de).

XXIXth International Congress of Ophthalmology

The XXIXth International Congress of Ophthalmology will be held on 21–25 April 2002 in Sydney, Australia. Further details: Congress Secretariat, C/- ICMS Australia Pty Ltd, GPO Box 2609, Sydney, NSW 2001, Australia (tel: +61 2 9241 1478; fax: +61 2 9251 3552; email: ophthal@icmsaust.com.au; website: www.ophthalmology.aust.com).

12th Meeting of the European Association for the Study of Diabetic Eye Complications (EASDEC)

The 12th meeting of the EASDEC will be held on 24–26 May 2002 in Udine, Italy. The deadline for abstracts is 15 February 2002. Three travel grants for young members (less than 35 years of age at the time of the meeting) are available. For information on the travel grants, please contact Pr CD Agardh, President of EASDEC, Malmö University Hospital, SE-205 02 Malmö, Sweden (tel: +46 40 33 10 16; fax: +46 40 33 75 66; email: carl-david.agardh@endo.mas.lu.se). Further details: NORD EST CONGRESSI, Via Aquileia, 21–33100 Udine, Italy (tel: +39 0432 21391; fax: +39 0432 50687; email: nordest.congressi@ud.netuno.it).

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