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JAYPEE

OCULAR TREATMENT EVIDENCE BASED



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CHAPTER 2

Parasitic Diseases

1. ACANTHAMOEBA

General

It is caused by *Acanthamoeba polyphaga* and *Acanthamoeba cartel* (*see* Herpes simplex masquerade syndrome); all types of contact lenses have been associated with *Acanthamoeba* keratitis, particularly daily-wear soft contact lenses.

Ocular

Hypopyon; uveitis; conjunctivitis and chemosis; keratitis; pannus; corneal ring abscess; papillitis; vitreitis; retinal perivasculitis; secondary glaucoma; post-keratoplasty *Acanthamoeba* keratitis may present as an infectious crystalline keratopathy in the periphery of the graft.

Clinical

Meningoencephalitis; meningitis; hemorrhagic encephalitis.

Laboratory

Polygonal double-walled cysts, under bright-field or phase-contrast microscopy or stained with hematoxylin and eosin, Gram stain, Giemsa stain or celluflor white.

Treatment

Medical therapy for *Acanthamoeba* infection is not well established. Topical antimicrobial agents that achieve high concentrations at the site of the infection can be considered. Treatment of keratitis consists of early diagnosis and aggressive surgical and medical therapies.

BIBLIOGRAPHY

1. Crum-Cianflone NF. (2011). Acanthamoeba. [online] Available from www.emedicine.com/med/TOPIC10.HTM. [Accessed July, 2013].
2. Wang JC. (2010). Ophthalmologic Manifestations of Herpes Simplex Keratitis. [online] Available from www.emedicine.com/oph/TOPIC100.HTM. [Accessed July, 2013].

2. BAYLISASCARIS (UNILATERAL SUBACUTE NEURORETINITIS, OCULAR LARVA MIGRANS)

General

A diffuse unilateral subacute neuroretinitis caused by *Baylisascaris procyonis* which is the common raccoon roundworm or *Ancylostoma caninum*.

Clinical

Eosinophilic meningoencephalitis.

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Ocular

Retinal or subretinal tracks, optic disk edema, pallor, vitritis, snowbanking in pars plana and iritis.

Laboratory

Baylisascaris tests can be performed using serum and CSF. ELISA and Western blot are available from the Department of Veterinary Pathobiology at Purdue University.

Treatment

Prompt laser photocoagulation of the motile worm in the retina is the preferred and most effective treatment.

BIBLIOGRAPHY

1. Roy FH, Fraunfelder FW, Fraunfelder FT. Roy and Fraunfelder's Current Ocular Therapy, 6th edition. London: Elsevier; 2008.

3. COENUROSIS (TAPEWORM)

General

Rare human infestation of the cystic larval stage of the dog tapeworm; usually infestation in the muscle, subcutaneous tissue, eye, nervous system, or brain; three species may be involved: (1) *Multiceps taenia,*(2) *Multiceps serialis* and (3) *Multiceps glomeratus.*

Ocular

Hypopyon; retinal detachment; retinal edema; anterior uveitis; conjunctivitis; proptosis; miosis; vitreal haze; increased intraocular pressure; coenurus cysts of the conjunctiva and iris.

Clinical

Ataxia; headache; loss of weight; somnolence; stiffness of neck and shoulders.

Laboratory

Perianal and stool examinations are useful.

Treatment

Anthelmintic drugs are used to rid the gastrointestinal (GI) tract of worms or systemically to rid the body of the helminth forms that invade organs and tissues.

BIBLIOGRAPHY

1. Irizarry L. (2011). Tapeworm Infestation. [online] Available from www.emedicine.com/emerg/TOPIC567.HTM. [Accessed July, 2013].

4. DEMODICOSIS

General

Demodex folliculorum and *Demodex brevis* infestation; exact role in causing blepharitis is unclear; most patients are asymptomatic.

Ocular

Blepharitis; follicular distention and hyperplasia; lid hyperemia; lid hyperkeratinization; madarosis; Meibomian gland destruction; mite colonies of eyelashes and eyebrows.

Clinical

Pruritus.

Laboratory

Presence of parasites on epilated eyelashes.

Treatment

Brushed vigorously across the external lid margin, following 0.5% proparacaine instillation. Five minutes later, a solution of 70% alcohol is applied in a similar manner.

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This regimen is reported to successfully reduce both the symptoms and the observed number of mites by the end of 3 weekly visits. Ether and alcohol should be used with caution, and corneal contact should be prevented. Home regimen includes scrubbing the eyelids twice daily with baby shampoo diluted with water to yield a 50% dilution and applying an antibiotic ointment at night until resolution of symptoms. Discard makeup, clean sheets, check household members and pets.

BIBLIOGRAPHY

1. Li J, O'Reilly N, Sheha H, et al. Correlation between ocular demodex infestation and serum immunoreactivity to bacillus proteins in patients with facial rosacea. Ophthalmology. 2010;117:870–7.
2. Roque MR. (2011). Demodicosis. [online] Available from www.emedicine.com/oph/TOPIC517.HTM. [Accessed July, 2013].

5. HYDATID CYST (ECHINOCOCCOSIS)

General

Caused by *Echinococcus granulosus* acquired by contact with a dog host.

Ocular

Conjunctivitis; keratitis; exophthalmos; phthisis bulbi; optic atrophy; optic neuritis; papilledema; abscesses of orbit and cornea; retinal detachment; retinal hemorrhages; cataract; hypopyon; secondary glaucoma; hydatid cysts of the conjunctiva, eyelid, orbit, and lacrimal system; acute visual loss; vitreous mass.

Clinical

Pruritus; urticaria; pulmonary cysts; brain cysts; anaphylactic shock; death.

Laboratory

Plain orbital radiographs may show enlarged orbital diameters and increased soft-tissue density. Ultrasonography demonstrates a cystic lesion without internal reflectivity; computed tomography discloses a well-defined cystic mass.

Treatment

Echinococcosis is rare and can be severe. Refer patients to reference centers to confirm their diagnosis and to obtain advice on therapeutic strategy.

BIBLIOGRAPHY

1. Vuitton DA. (2011). Echinococcosis. [online] Available from www.emedicine.com/med/TOPIC326.HTM. [Accessed July, 2013].

6. NEMATODE OPHTHALMIA SYNDROME (VISCERAL LARVA MIGRANS SYNDROME; TOXOCARIASIS)

General

Usually found in children; invasion by larvae of *Toxocara canis* and *Toxocara cati* of viscera and eyes; pronounced eosinophilia; as many as 30% of asymptomatic children demonstrate serologic evidence of prior *Toxocara* infestations.

Ocular

Leukocoria; uveitis; cataract; marked vitreous reaction with large floaters; choroiditis; large, cyst-like white masses extending into vitreous; optic neuritis; papillitis; strabismus; hemorrhagic, exudative, or granulomatous retinitis; retinal detachment; endophthalmitis; larvae present in the cornea.

Clinical

Hepatosplenomegaly; pulmonary infiltration; fever; cough; lack of appetite.

Laboratory

Eosinophilia in patients with visceral disease. ELISA test is best to document systemic or ocular infection with *T. canis*.

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Treatment

Treatment is by case-by-case basis; in most cases no treatment is needed; systemic anthelmintic agents; vitrectomy may be necessary.

BIBLIOGRAPHY

1. Biglan AW, Glickman LT, Lobes LA. Serum and vitreous Toxocara antibody in nematode endophthalmitis. Am J Ophthalmol. 1979;88:898–901.
2. Roy FH, Fraunfelder FW, Fraunfelder FT. Roy and Fraunfelder's Current Ocular Therapy, 6th edition. London: Elsevier; 2008.
3. Maguire AM, Green WR, Michels RG, et al. Recovery of intraocular Toxocara Canis by pars plana vitrectomy. Ophthalmology. 1990;97:675–80.
4. Raistrick ER, Hart JC. Ocular toxocariasis in adults. Br J Ophthalmol. 1976;60:365–70.
5. Wilder HC. Nematode endophthalmitis. Trans Am Acad Ophthalmol Otolaryngol. 1950;55:99.
6. Wilkinson C. Ocular toxocariasis. In: Ryan SJ (Ed). Retina, 2nd edition. St. Louis: Mosby; 1994. pp. 1545–52.

7. PEDICULOSIS AND PHTHIRIASIS

General

Infestation of lice on head, body, or pubic area.

Ocular

Conjunctivitis; keratitis; infestation of lice or nits glued to shafts of eyelashes and eyebrow.

Clinical

Pruritus; skin excoriation; impetigo; pyoderma with lymphadenitis and febrile episodes.

Laboratory

Removal from hair shaft and examination under microscope.

Treatment

Treatments involve spreading an ointment at the base of the eyelashes at night to trap mites as they emerge from their burrow and/or move from one follicle to another.

BIBLIOGRAPHY

1. Guenther L. (2013). Pediculosis (Lice). [online] Available from www.emedicine.com/med/TOPIC1769.HTM. [Accessed July, 2013].

8. TOXOPLASMOSIS (TOXOPLASMIC RETINOCHOROIDITIS; OCULAR TOXOPLASMOSIS)

General

Parasite infestation caused by *Toxoplasma gondii;* cell-mediated immunity is believed to be the major defence mechanism against *Toxoplasma* infection; ocular toxoplasmosis occurs in approximately 1% of patients with acquired immunodeficiency syndrome (AIDS); AIDS-related toxoplasma retinochoroiditis may have several atypical clinical manifestations.

Ocular

Keratitis; uveitis; optic atrophy; papillitis; anisocoria; persistent pupillary membrane; focal retinochoroiditis; scleritis; cataract; microphthalmos; myopia; nystagmus; esotropia.

Clinical

Cysts are seen in many organs, including brain and muscle; hydrocephalus; intracerebral calcification; various CNS complaints.

Laboratory

Serologic tests for anti-*T. gondii*. Antibodies are common.

Treatment

Triple drug therapy pyrimethamine, sulfadiazine and prednisone. Pyrimethamine should be combined with folinic acid. Surgical care includes photocoagulation, cryotherapy or vitrectomy.

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BIBLIOGRAPHY

1. Lasave AF, Llopis MD, Muccioli C, et al. Intravitreal clindamycin and dexamethasone for zone 1 toxoplasmic retinochoroiditis at twenty-four months. Ophthalmology. 2010;1831–8.
2. Soheilian M, Ramezani A, Azimzadeh A, et al. Randomized trial of intravitreal clindamycin and dexamethasone versus pyrimethamine, sulfadiazine and prednisolone in treatment of ocular toxoplasmosis. Ophthalmology. 2011;118:134–41.
3. Wuh L. (2011). Ophthalmologic Manifestations of Toxoplasmosis. [online] Available from www.emedicine.com/oph/TOPIC707.HTM. [Accessed July, 2013].

9. TRICHINELLOSIS (TRICHINOSIS)

General

Parasite *Trichinella* enters the body by ingestion of infected meat (usually poorly cooked pork).

Ocular

Conjunctivitis; splinter hemorrhages of conjunctiva; paralysis of sixth nerve; exophthalmos; proptosis; uveitis; optic neuritis; papilledema; retinal hemorrhages; dyschromatopsia; scotoma; secondary glaucoma; encysted parasites in the extraocular muscles.

Clinical

Fever; urticaria; respiratory symptoms; muscle pain; myalgias and severe proximal muscle weakness; impaired coordination.

Laboratory

Leukocytosis and eosinophilia elevated serum levels of lactic dehydrogenase, aldolase and creatine phosphokinase (50% cases).

Treatment

Mebendazole orally is the treatment of choice. In severe cases, prednisone may be used in conjunction with anthelmintic agent.

BIBLIOGRAPHY

1. Arnold LK. (2013). Trichinellosis/Trichinosis. [online] Available from www.emedicine.com/emerg/TOPIC612.HTM. [Accessed July, 2013].

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OCULAR TREATMENT EVIDENCE BASED

My approach is to take selected differential diagnosis from Ocular Differential Diagnosis (ODDX) and combine with Ocular Syndromes and Systemic Disease. This provides evidence-based differential diagnosis with listings with each item.

Ptosis, for example, has large categories of congenital and adult-onset ptosis. These disease entities are divided into age of onset and then a descriptive list of possible causes are listed under each category.

Although drug dosages and methods of administration have been scrutinized, it is important that each physician exercise his or her own judgment in the choice or use of a drug. The physician is advised to check the product information included in the drug's package insert before drug administration. New data and individual clinical situations can change the drug regimen.



Frederick Hampton Roy MD FACS has over 140 publications, 36 books and 6 chapters. He was associated professor in pediatric ophthalmology at the University of Arkansas School of Medicine, USA, for five years and has been in a private practice since specializing in anterior segment.

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