

Shoulder Impingement and Rotator Cuff Tears page 667



685 Testicular Masses 699 Acute Pericarditis 711 Evaluation of Dyspnea 719 Occupational Lead Poisoning 735 Conjunctivitis

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- 749 Isoniazid Overdose
- 755 Peripheral Neuropathy
- 765 Cutaneous Vascular Lesions
- 776 Subclinical Hypothyroidism



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Cover

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American Family Physician

Articles

667 Management of Shoulder Impingement Syndrome and Rotator Cuff Tears

685

ALLEN E. FONGEMIE, M.D., DANIEL D. BUSS, M.D., and SHARON J. ROLNICK, PH.D. Rotator cuff impingement and tears are shoulder problems frequently encountered by family physicians. Learning to conduct a thorough, concise examination of the shoulder will help family physicians diagnose and treat these problems.

C Patient information: "Four Exercises to Strengthen the Muscles of Your Rotator Cuff," p. 680

685 **Testicular Masses**

JENNIFER JUNNILA, CPT, MC, USA, and PATRICK LASSEN, MAJ, USAF, MC

A knowledge of normal male genital anatomy and the pathophysiology of major emergency and benign processes causing testicular masses allows family physicians to appropriately manage patients and refer them to a urologist when indicated.

699 **Electrocardiographic Manifestations and Differential Diagnosis** of Acute Pericarditis

MARK A. MARINELLA, M.D.

EEI Acute pericarditis has a variety of etiologies and produces characteristic findings on ECG, including diffuse ST-segment elevation that, at times, may be difficult to distinguish from changes of acute myocardial infarction or other conditions.

711 Diagnostic Evaluation of Dyspnea

WALTER C. MORGAN, M.D., and HEIDI L. HODGE, M.D.

Dyspnea, like other undifferentiated general symptoms, can best be diagnosed with the help of a careful history and physical examination. Selective diagnostic testing can be helpful in difficult cases.

PROBLEM-ORIENTED DIAGNOSIS

719 **Occupational Lead Poisoning**

KEVIN C. STAUDINGER, M.D., M.P.H., and VICTOR S. ROTH, M.D., M.P.H. Despite our increased awareness of the adverse health effects of lead, occupational lead poisoning continues to be a major problem, requiring a high index of suspicion for accurate diagnosis. Prompt removal of the worker from the source of exposure remains the mainstay of treatment.

Patient information: "Lead and Your Health," p. 731

This article exemplifies the AAFP 1997-98 Annual Clinical Focus on cardiovascular medicine.

FEBRUARY 15, 1998 / VOLUME 57, NUMBER 4

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American Family Physician 597



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Conjunctivitis

GARY L. MORROW, M.D., Toronto East General and Orthopedic Hospital, Toronto, Ontario, Canada RICHARD L. ABBOTT, M.D., University of California, San Francisco, and Francis I. Proctor Foundation, San Francisco, California

Conjunctivitis refers to any inflammatory condition of the membrane that lines the eyelids and covers the exposed surface of the sclera. It is the most common cause of "red eye." The etiology can usually be determined by a careful history and an ocular examination, but culture is occasionally necessary to establish the diagnosis or to guide therapy. Conjunctivitis is commonly caused by bacteria and viruses. Neisseria infection should be suspected when severe, bilateral, purulent conjunctivitis is present in a sexually active adult or in a neonate three to five days postpartum. Conjunctivitis caused by Chlamydia trachomatis or Neisseria gonorrhoeae requires aggressive antibiotic therapy, but conjunctivitis due to other bacteria is usually self-limited. Chronic conjunctivitis is usually associated with blepharitis, recurrent styes or meibomianitis. Treatment requires good eyelid hygiene and the application of topical antibiotics as determined by culture. Allergic conjunctivitis is distinguished by severe itching and allergen exposure. This condition is generally treated with topical antibistamines, mast-cell stabilizers or anti-inflammatory agents.

> he conjunctiva is a thin, translucent, relatively elastic tissue layer with both bulbar and palpebral portions. The bulbar portion of the conjunctiva lines the outer aspect of the globe, while the palpebral portion covers the inside of the eyelids.

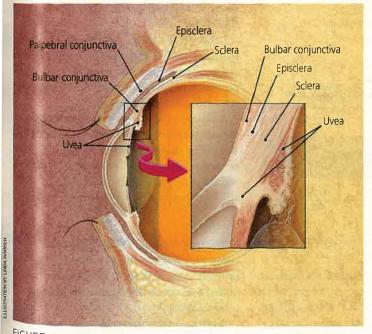


FIGURE 1. Anatomy of the eye and eyelids.

Underneath the conjunctiva lie the episclera, the sclera and the uveal tissue layers (*Figure 1*).

The clinical term "red eye" is applied to a variety of distinct infectious or inflammatory ocular disease processes that involve one or more tissue layers of the eye (*Table 1*). Red eye is the most common ocular problem seen by primary care physicians.

The term "conjunctivitis" encompasses a broad group of conditions presenting as inflammation of the conjunctiva. The inflammation can be hyperacute, acute or chronic in presentation and infectious or noninfectious in origin. Conjunctivitis is the most common cause of red eye.

Most frequently, conjunctivitis (and thus red eye) is caused by a bacterial or viral infection. Sexually transmitted diseases such as chlamydial infection and gonorrhea are less common causes of conjunctivitis. However, these infections are becoming more prevalent and are important to recognize because of their significant associated systemic, ocular and social implications.

Ocular allergy in its many forms is one of the major causes of chronic conjunctivitis. Blepharitis (inflammation of the eyelid margin), dry eye and the prolonged use of ophthalmic medications, contact lenses, and ophthalmic solutions are also relatively

Conjunctivitis

TABLE 1 Differential Diagnosis of a Red Eye

Conjunctivitis Infectious Viral Bacterial (e.g., staphylococcus and Chlamydia species) Noninfectious Allergic Dry eye Toxic or chemical reaction Contact lens use Occult conjunctival neoplasm Foreign body Factitious Idiopathic Keratitis Infectious **Bacterial** Viral Fungal Acanthamoeba Noninfectious Recurrent epithelial erosion Foreign body Uveitis Episcleritis/scleritis Acute glaucoma Eyelid abnormalities Entropion Lagophthalmos with globe exposure Trichiasis Molluscum contagiosum Orbital disorders Preseptal and orbital cellulitis Idiopathic orbital inflammation (pseudotumor)

TABLE 2 Discharge Associated with Conjunctivitis

Etiology	Serous	Mucoid	Mucopurulent	Purulent
Viral	+			- :0
Chlamydial		+	+	2 - 7 - 7
Bacterial	-		+	+
Allergic	+	+		-
Toxic	+	+	+	- *

+ = Present; - = absent.

Adapted with permission from Jackson WB. Differentiating conjunctivitis of diverse origins. Surv Ophthalmol 1993;38(Suppl):91-104.

736 American Family Physician

frequent causes of chronic conjunctival inflammation.

This article highlights key features in the clinical history and ocular examination that can help family physicians to formulate a differential diagnosis and a management plan for patients with conjunctivitis or red eye of uncertain etiology (*Figure 2*). The diagnosis and treatment of the most common forms of conjunctivitis are also reviewed.

Historical Clues to the Etiology of Conjunctivitis

The history of a patient with conjunctivitis should include a thorough ocular, medical and medication history. This should establish whether the condition is acute, subacute, chronic or recurrent, whether it is unilateral or bilateral, and whether it is associated with any specific environmental or work-related exposure.

Many symptoms of conjunctivitis, such as tearing, irritation, stinging and burning are nonspecific. However, certain symptoms may strongly suggest a particular diagnosis.

Itching

Itching is the hallmark of allergic conjunctivitis, as well as other forms of allergic eye disease. The itching may be mild to severe. In general, a red eye in the absence of itching is not caused by ocular allergy.

A history of recurrent itching or a personal or family history of hay fever, allergic rhinitis asthma or atopic dermatitis is also suggestive of ocular allergy. Mild itching can also be a feature of blepharitis, dry eyes and, occasionally, bacterial or viral conjunctivitis.

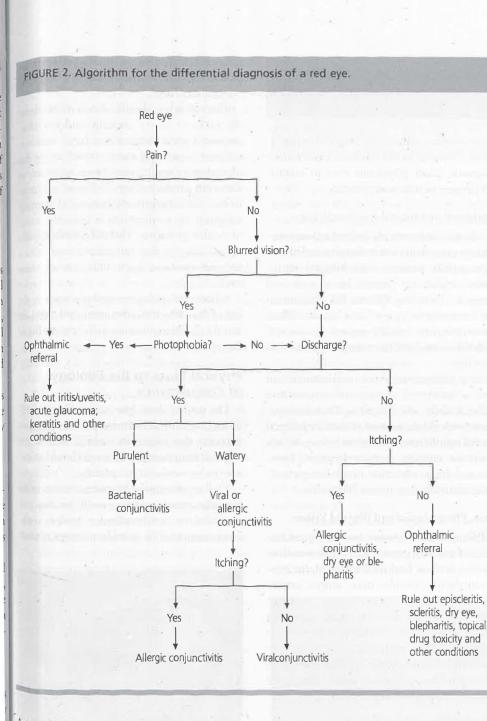
Discharge

The type of ocular discharge, such as serous (watery), mucoid, mucopurulent or grossly purulent, can be helpful in determining the underlying cause of conjunctival inflammation¹ (*Table 2*).²

A serous discharge is most commonly associated with viral or allergic ocular conditions.

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^A mucoid (stringy or ropy) discharge is highly characteristic of allergy or dry eyes. A mucopurulent or purulent discharge, often associated with morning crusting and difficulty ^{opening the eyelids, strongly suggests a bacte-}

Δ

rial infection. The possibility of *Neisseria gonorrhoeae* infection should be considered when the discharge is copiously purulent.

The preceding generalizations about ocular discharges can be helpful in distinguishing

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