

# Xerophthalmia

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Xerophthalmia is a medical condition in which the eye fails to produce tears. It may be caused by a deficiency in vitamin A and is sometimes used to describe that lack, although there may be other causes. Xerophthalmia is a term that usually implies a destructive dryness of the conjunctival epithelium due to dietary vitamin A deficiency. It is a rare condition in developed countries, but still causing much damage in developing countries. Other forms of dry eye are associated with aging, poor lid closure, scarring from previous injury, or autoimmune diseases such as rheumatoid arthritis, and these can all cause chronic conjunctivitis. Xerophthalmia can be associated with systemic diseases such as Sjögren's syndrome, systemic lupus erythematosus, rheumatoid arthritis, scleroderma, sarcoidosis, amyloidosis, and hypothyroidism; deficiency of vitamin A; and the use of some medications including antihistamines, nasal decongestants, tranquilizers, and anti-depressant drugs. Xerophthalmia results from inadequate function of the lacrimal glands which produce tears. When xerophthalmia is due to vitamin A deficiency, the condition begins with night blindness and conjunctival xerosis and progresses to corneal xerosis, and, in the late stages, to keratomalacia. The treatment depends on the cause. Artificial tears, which lubricate the eye, are the principal symptomatic treatment for dry eye. They are available over-the-counter as eye drops. Using humidifiers, wearing wrap-around glasses when outside, and avoiding outside windy and dry conditions may bring relief. For people with severe cases of dry eye, temporary or permanent closure of the tear drain may be helpful. Also known as conjunctivitis arida. ([From the Wikipedia article xerophthalmia](#).)

## Recent Publications on Xerophthalmia:



- [Sjogren's syndrome-onset lupus patients have distinctive clinical manifestations and benign prognosis: A case-control study.](#)  
*The objective of this study was to investigate the clinical...* 11th November, 2009  
Department of Rheumatology, Peking Union Medical College (PUMC) Hospital, - Lupus. 2009 Nov 9. ([DOI Direct Link](#))
- [Chapter 29 Historical aspects of the major neurological vitamin deficiency disorders Overview and fat-soluble vitamin A.](#)  
*The vitamine doctrine: Although diseases resulting from vitamin...* 7th November, 2009  
- Handb Clin Neurol. 2009;95:435-44. ([DOI Direct Link](#))
- [Ocular surface injuries in autoimmune dry eye. The severity of microscopical disturbances goes parallel with the severity of symptoms of dryness.](#)  
*Autoimmune dry eye (Sjogren's syndrome, SS) is a chronic systemic disease...* 5th November, 2009  
Department of Eye Histochemistry and Pharmacology, Institute of- Histol Histopathol. 2009 Oct;24(10):1357-65.
- [\[Observation on therapeutic effect of runmushu oral liquid in treating xerophthalmia in postmenopausal women\]](#)

*OBJECTIVE: To objectively evaluate the therapeutic effect and safety of...*27th October, 2009  
Xiyuan Hospital, China Academy of Chinese Medical Sciences, Beijing.- Zhongguo Zhong Xi Yi Jie He  
Za Zhi. 2009 Jul;29(7):646-9.

- [Diagnosis of vitamin A deficiency from its ocular manifestations in a British patient.](#)  
*PURPOSE:: Retrospective review describing the 40-year University of...*23rd October, 2009  
- Can J Ophthalmol. 2009 Oct;44(5):e43.
- [Discrimination between Sjogren's and non-Sjogren's sicca syndrome by sialoscintigraphy and antibodies against alpha-fodrin and Ro/La autoantigens.](#)  
*Both Sjogren's syndrome (SS) and non-Sjogren's syndrome (NSS) can present...*23rd October, 2009  
Department of Allergy, Immunology and Rheumatology, Tungs' Taichung- J Int Med Res. 2009  
Jul-Aug;37(4):1088-96.
- [Ewing Tumors of the Head and Neck.](#)  
*PURPOSE:: Retrospective review describing the 40-year University of...*21st October, 2009  
From the \*Department of Radiation Oncology, University of Florida College- Am J Clin Oncol. 2009 Oct  
16. ([DOI Direct Link](#))
- [Comparative analysis of subacute cutaneous lupus erythematosus and chronic cutaneous lupus erythematosus: clinical and immunological study of 270 patients.](#)  
*Summary Background Lupus erythematosus (LE) is a chronic, autoimmune...*30th September, 2009  
Department of Dermatology, Hospital Clinic, University of Barcelona,- Br J Dermatol. 2009 Sep 28. ([DOI Direct Link](#))
- [Acidic mammalian chitinase in dry eye conditions.](#)  
*PURPOSE: An acidic mammalian chitinase (AMCase) seems to be implicated in...*9th September, 2009  
Department of Hematology, Oncology and Molecular Medicine, Italian- Cornea. 2009 Jul;28(6):667-72.  
([DOI Direct Link](#))
- [Evaluation of a new tear osmometer for repeatability and accuracy, using 0.5-microL \(500-Nanoliter\) samples.](#)  
*PURPOSE: To evaluate the repeatability and accuracy of a new tear...*9th September, 2009  
Department of Ophthalmology, Mount Sinai School of Medicine, New York, NY- Cornea. 2009  
Jul;28(6):677-80. ([DOI Direct Link](#))
- [Periodontal Disease and Sjogren Syndrome: A Possible Correlation?](#)  
*Sjogren syndrome (SS) is a chronic autoimmune rheumatic disease...*5th September, 2009  
- Angiology. 2009 Sep 2. ([DOI Direct Link](#))
- [Stomatological approach to Sjogren's syndrome: diagnosis, management and therapeutical timing.](#)  
*Sjogren's syndrome is a chronic multisystem autoimmune disease...*28th August, 2009  
I Faculty of Medicine and Surgery, Department of Odontostomatological- Eur Rev Med Pharmacol Sci.  
2009 May-Jun;13(3):201-16.
- [\[Recurrent abscesses of the parotid gland in Sjogren's syndrome\]](#)  
*We report on a 48-year old female patient suffering from recurrent...*22nd August, 2009  
Hals-Nasen-Ohren-Klinik und Poliklinik, Klinikum rechts der Isar der- HNO. 2009 Sep;57(9):959-63. ([DOI Direct Link](#))
- [\[Applicability of sialometry and other instruments to evaluate xerostomia and xerophthalmia in a Sjogren's Syndrome outpatient clinic\]](#)  
*OBJECTIVES: To evaluate the applicability and utility of unstimulated...*14th August, 2009  
Instituto Portugues de Reumatologia, Apartado 13051, 1050-051 Lisboa.- Acta Reumatol Port. 2009  
Apr-Jun;34(2A):212-8.
- [Survey of oculoplastic surgeons regarding clinical use of tear production tests.](#)  
*PURPOSE: To determine by a survey of ophthalmic plastic surgeons with...*6th August, 2009  
Department of Ophthalmology, Saint Louis University, Saint Louis, Missouri- Ophthal Plast Reconstr  
Surg. 2009 May-Jun;25(3):197-200. ([DOI Direct Link](#))



- [What Is Dry Eye Syndrome? What Causes Dry Eye Syndrome?](#)  
*Medical News Today: Nov 12 2009 6:26PM Matching: xerophthalmia*
- [Medical News: What Is Dry Eye Syndrome? What Causes Dry Eye Syndrome?](#)  
*BioFind: Nov 12 2009 4:46PM Matching: xerophthalmia*

## Xerophthalmia Patents:



- 6339101- [N-linked sulfonamides of N-heterocyclic carboxylic acids or isosteres for vision and memory disorders](#)
- 6506377- [Interferon-alpha mediated upregulation of aquaporin expression](#)
- 6506788- [N-linked urea or carbamate of heterocyclic thioesters for vision and memory disorders](#)
- 6544764- [Isolated human dehydrogenase proteins, nucleic acid molecules encoding these human dehydrogenase proteins, and uses thereof](#)
- 6562378- [Nutritional supplement for adolescents](#)
- 6565891- [Nutritional supplement for children](#)
- 6566398- [Method for treatment of external secretion disorders](#)
- 6569903- [Ophthalmic compositions](#)
- 6641264- [Remedy for dry eye syndrome](#)
- 6656920- [Composition and method for promoting oral health](#)
- 6693077- [Keratinocyte growth factor-2](#)
- 6500833- [\(+\)-Hydroxyrisperidone compositions and methods](#)
- 6500813- [Ophthalmic composition containing active vitamin D](#)
- 6476039- [Ophthalmic composition](#)
- 6342488- [Phosphonorisperidone and sulforisperidone compositions and methods](#)
- 6376517- [Pipelicolic acid derivatives for vision and memory disorders](#)
- 6384056- [Heterocyclic thioesters or ketones for vision and memory disorders](#)
- 6395758- [Small molecule carbamates or ureas for vision and memory disorders](#)
- 6399648- [N-oxides of heterocyclic ester, amide, thioester, or ketone for vision and memory disorders](#)
- 6403598- [Ophthalmic composition](#)
- 6410006- [Composition for prophylaxis and/or treatment of dry eye syndrome comprising vitamin D](#)
- 6410289- [Isolated human dehydrogenases, nucleic acid molecules encoding these human dehydrogenases, and uses thereof](#)
- 6468737- [Identification of a novel retrovirus associated with primary biliary cirrhosis and autoimmune disorders](#)
- 6468998- [Pyrrolidine compounds and medicinal utilization thereof](#)
- 6733786- [Somatotropin composition with improved syringeability](#)
- 6787131- [Method for enhancing integrity of epithelium using retinoic acid](#)
- 7265150- [Carboxylic acids and carboxylic acid isosteres of N-heterocyclic compounds for vision and memory disorders](#)
- 7268232- [Androgen receptor modulators and method of treating disease using the same](#)
- 7338976- [Heterocyclic esters or amides for vision and memory disorders](#)
- 7348306- [Composition for promoting lacrimal secretion](#)
- 7357500- [Remedy for dry eye syndrome](#)
- 7396946- [Compound for treatment of external secretion disorders](#)

- 7410995- [N-linked sulfonamide of heterocyclic thioesters for vision and memory disorders](#)
- 7446762- [System and method for avoiding eye and bodily injury from using a display device](#)
- 7572462- [Peri-operative and peri-procedure nutritional supplementation](#)
- 7585877- [Aminophenyl derivatives as selective androgen receptor modulators](#)
- 7232667- [Keratinocyte growth factor-2 polynucleotides](#)
- 7205007- [Peri-operative and peri-procedure nutritional supplementation](#)
- 7148331- [Isolated human dehydrogenases, nucleic acid molecules encoding these human dehydrogenases, and uses thereof](#)
- 6797499- [Isolated human dehydrogenases, nucleic acid molecules encoding these human dehydrogenases, and uses thereof](#)
- 6872383- [Use of macrolide compounds for the treatment of dry eye](#)
- 6874884- [Remedy for dry eye syndrome](#)
- 6886933- [Remedy for dry eye syndrome](#)
- 6900040- [Isolated human dehydrogenaseproteins, nucleic acid molecules encoding these human dehydrogenase proteins, and uses thereof](#)
- 7036928- [Remedy for dry eye syndrome](#)
- 7056719- [Polypeptide-phosphatidic acid phosphatase 29.81 and the polynucleotide encoding said polypeptide](#)
- 7063857- [Use of macrolide compounds for the treatment of dry eye](#)
- 7083802- [Treatment of ocular disease](#)
- 7087222- [Method for enhancing integrity of epithelium using retinoic acid](#)
- 7608598- [Use of lipid conjugates in the treatment of conjunctivitis](#)

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