

# 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.

## Recent Publications on Xerophthalmia:



- [\[Sjogren's syndrome\]](#)  
*The leading symptoms of this autoimmune disease are xerostomia and...* 24th September, 2008  
Klinik für Rheumatologie, Klinische Immunologie und Allergologie,- Ther Umsch. 2008  
May;65(5):279-82. ([DOI Direct Link](#))
- [\[Vitamin a deficiency and clinical disease: an historical overview.\]](#)  
*Vitamin A deficiency has a plethora of clinical manifestations, ranging...* 23rd September, 2008  
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD 21205, USA.- J Nutr. 2008  
Oct;138(10):1835-9.
- [\[Observation on therapeutic effect of moxibustion with thunder-fire herbal moxa stick on xerophthalmia of oligodacrya\]](#)  
*OBJECTIVE: To observe clinical therapeutic effect of moxibustion with...* 17th September, 2008  
Department of Acupuncture and Moxibustion, Beijing Tongren Hospital- Zhongguo Zhen Jiu. 2008  
Aug;28(8):585-8.
- [\[Vitamin a deficiency.\]](#)  
*OBJECTIVE: To observe clinical therapeutic effect of moxibustion with...* 3rd September, 2008  
- Cornea. 2008 Sep;27(8):973; author reply 973. ([DOI Direct Link](#))

- [Proposal for a new clinical entity, IgG4-positive multi-organ lymphoproliferative syndrome: Analysis of 64 cases of IgG4-related disorders.](#)  
*BACKGROUND: Mikulicz's disease (MD) has been considered as one...*15th August, 2008  
Hematology and Immunology, Kanazawa Medical University.- *Ann Rheum Dis.* 2008 Aug 13. ([DOI Direct Link](#))
- [Primary Sjogren syndrome in Spain: clinical and immunologic expression in 1010 patients.](#)  
*We conducted the current study to characterize the clinical presentation...*14th August, 2008  
Department of Autoimmune Diseases, IDIBAPS, Hospital Clinic, Barcelona,- *Medicine (Baltimore).* 2008 Jul;87(4):210-9. ([DOI Direct Link](#))
- [\[Nursing the ventilated patient: a large measure of meticulous care needed\]](#)  
*Severe hyperhidrosis is a disabling disorder whose management is...*12th August, 2008  
Klinikum Ludwigshafen, Medizinische Intensivstation.- *Pflege Z.* 2008 Jun;61(6):310-2.
- [Bilateral infusion pump implants as therapy for refractory corneal ulcers in a patient with CREST syndrome: an interdisciplinary approach.](#)  
*Internal infusion pumps are implantable and programmable systems that have...*25th July, 2008  
Departments of Anesthesia, Critical Care, and PainManagement, University- *Arch Ophthalmol.* 2008 Jul;126(7):964-7. ([DOI Direct Link](#))
- [Superiority of Thoracoscopic Sympathectomy over Medical Management for the Palmoplantar Subset of Severe Hyperhidrosis.](#)  
*Severe hyperhidrosis is a disabling disorder whose management is...*16th July, 2008  
Center for the Cure of Sweaty Palms, Fountain Valley, CA.- *Ann Vasc Surg.* 2008 Jul 10. ([DOI Direct Link](#))
- [\[Painful palate and xerostomia after using paroxetine\]](#)  
*This article presents the case of a 58-year-old woman with diabetes...*9th July, 2008  
*Academisch- Ned Tijdschr Tandheelkd.* 2008 May;115(5):271-3.
- [Atypical Autoimmune Polyglandular Syndrome Type 3 Overlapped by Chronic HCV Infection Resulting in Carcinogenesis and Fatal Infection.](#)  
*The case of a woman with insulin-dependent diabetes mellitus, autoimmune...*27th June, 2008  
From the Department of Internal Medicine, "Hippokration" General Hospital,- *South Med J.* 2008 Jun 14. ([DOI Direct Link](#))
- [Antecedent risk factors of xerophthalmia among Indian rural preschool children.](#)  
*PURPOSE: To determine the risk factors of xerophthalmia among preschool...*5th June, 2008  
Department of Community Medicine, Sikkim-Manipal Institute of Medical- *Eye Contact Lens.* 2008 Mar;34(2):106-8. ([DOI Direct Link](#))
- [Celiac disease presenting as a xerophthalmic fundus.](#)  
*BACKGROUND: Vitamin A deficiency (VAD) is one of the three major...*14th May, 2008  
Department of Ophthalmology, Casey Eye Institute, Portland, Oregon- *Retina.* 2008 Mar;28(3):525-6. ([DOI Direct Link](#))
- [Vitamin A deficiency and child feeding in Beijing and Guizhou, China.](#)  
*BACKGROUND: Vitamin A deficiency (VAD) is one of the three major...*9th May, 2008  
National Center for Women's and Children's Health, Beijing, China.- *World J Pediatr.* 2008 Feb;4(1):20-5.
- [Coexistence of five autoimmune diseases: diagnostic and therapeutic difficulties.](#)  
*We report the case of coexistence of five autoimmune diseases in a...*6th March, 2008  
Department of Rheumatology and Connective Tissue Diseases, Medical- *Rheumatol Int.* 2008 Jul;28(9):919-23. Epub 2008 Mar 5. ([DOI Direct Link](#))

## Xerophthalmia Clinical Trials:



- [Safety and Efficacy of Pimecrolimus Ophthalmic Suspension in Patients With Moderate to Severe Keratoconjunctivitis Sicca](#)  
*Keratoconjunctivitis Sicca*

## Xerophthalmia Patents:



- 6326362- [\(-\)-phosphonorisperidone and \(-\)-sulforisperidone compositions and methods](#)
- 6468998- [Pyrrolidine compounds and medicinal utilization thereof](#)
- 6476039- [Ophthalmic composition](#)
- 6500813- [Ophthalmic composition containing active vitamin D](#)
- 6500833- [\(+\)-Hydroxyrisperidone compositions and methods](#)
- 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](#)
- 6468737- [Identification of a novel retrovirus associated with primary biliary cirrhosis and autoimmune disorders](#)
- 6410289- [Isolated human dehydrogenases, nucleic acid molecules encoding these human dehydrogenases, and uses thereof](#)
- 6410006- [Composition for prophylaxis and/or treatment of dry eye syndrome comprising vitamin D](#)
- 6333340- [Small molecule sulfonamides for vision and memory disorders](#)
- 6335348- [Nitrogen-containing linear and azepinyl/ compositions and uses for vision and memory disorders](#)
- 6337340- [Carboxylic acids and isosteres of heterocyclic ring compounds having multiple heteroatoms for vision and memory disorders](#)
- 6339101- [N-linked sulfonamides of N-heterocyclic carboxylic acids or isosteres for vision and memory disorders](#)
- 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](#)
- 6569903- [Ophthalmic compositions](#)
- 6641264- [Remedy for dry eye syndrome](#)

- 7087222- [Method for enhancing integrity of epithelium using retinoic acid](#)
- 7148331- [Isolated human dehydrogenases, nucleic acid molecules encoding these human dehydrogenases, and uses thereof](#)
- 7205007- [Peri-operative and peri-procedure nutritional supplementation](#)
- 7232667- [Keratinocyte growth factor-2 polynucleotides](#)
- 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](#)
- 7083802- [Treatment of ocular disease](#)
- 7063857- [Use of macrolide compounds for the treatment of dry eye](#)
- 7056719- [Polypeptide-phosphatidic acid phosphatase 29.81 and the polynucleotide encoding said polypeptide](#)
- 6656920- [Composition and method for promoting oral health](#)
- 6693077- [Keratinocyte growth factor-2](#)
- 6733786- [Somatotropin composition with improved syringeability](#)
- 6787131- [Method for enhancing integrity of epithelium using retinoic acid](#)
- 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](#)
- 7410995- [N-linked sulfonamide of heterocyclic thioesters for vision and memory disorders](#)

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