

# Xeromammography

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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 Xeromammography:



- [Advances in biotechnology: radiology.](#)  
*Breast and ovarian cancers increased in the last decades. Except rare...* 29th June, 2005  
- Del Med J. 2005 Feb;77(2):65-72.
- [Temporal performance of amorphous selenium mammography detectors.](#)  
*We investigated temporal performance of amorphous selenium (a-Se)...* 7th June, 2005  
Department of Radiology, State University of New York at Stony Brook, L-4- Med Phys. 2005 Jan;32(1):128-36.
- [Cassette-based digital mammography.](#)  
*Over the past several years, digital mammography systems have been...* 8th March, 2005  
Department of Radiology, UC Davis Medical Center, Imaging Research Center,- Technol Cancer Res Treat. 2004 Oct;3(5):413-27.
- [\[Re "Phantom study for the detection of simulated lesions in five different digital and one conventional mammography system"\]](#)  
*We investigated temporal performance of amorphous selenium (a-Se)...* 16th December, 2004  
- Rofo. 2004 Nov;176(11):1702; author reply 1702.
- [\[Phantom study for the detection of simulated lesions in five different digital and one conventional](#)

## [mammography system\]](#)

*PURPOSE: Experimental phantom study for the detection of simulated lesions...* 24th September, 2004  
Radiologisches Institut, Universitat Erlangen-Nurnberg.- Rofo. 2004 Aug;176(8):1127-32. ([DOI Direct Link](#))



### Xeromammography Patents:

- 5999836- [Enhanced high resolution breast imaging device and method utilizing non-ionizing radiation of narrow spectral bandwidth](#)
- 3981727- [Signal amplification by charging and illuminating a partially developed latent electrostatic image](#)
- 4033292- [Apparatus for developing latent electrostatic images](#)
- 4038943- [Signal amplification by charging and illuminating a partially developed latent electrostatic image](#)
- 4039831- [Two color xeroradiography development](#)
- 4316666- [Apparatus for transferring a toner image](#)
- 4346983- [Xeroradiographic intraoral dental system](#)
- 4398818- [Liquid toner fountain for the development of electrostatic images](#)
- 4764948- [Data marking system for medical x-rays, particularly mammograms](#)
- 4770964- [Magnetic imaging member and fabrication process therefor](#)
- 4770965- [Selenium alloy imaging member](#)
- 5213740- [Processes for the preparation of toner compositions](#)
- 5276726- [Method of and apparatus for standardizing and monitoring image quality in mammography](#)
- 5300784- [Selenium alloy x-ray imaging member on transparent substrate](#)
- 5320927- [Process for manufacturing an improved selenium alloy x-ray imaging member on transparent substrate](#)
- 5406612- [Method of and apparatus for standardizing and monitoring image quality in mammography](#)
- 5544238- [Method of and apparatus for standardizing and monitoring beam quality in mammography](#)
- 5844965- [Method and apparatus for using film density measurements of a radiograph to monitor the reproducibility of X-ray exposure parameters of a mammography unit](#)
- 3974796- [Dual mode apparatus for developing latent electrostatic images](#)

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