

Cystinosis

Category(ies): Cornea

Contributor: [Christopher A Kirkpatrick, MD](#)

Photographer: Stefani Karakas, CRA



Cystinosis is an autosomal recessive metabolic disorder caused by the CTNS gene that results in the accumulation of the amino acid cystine within lysosomes. In addition to the other systemic pathology, ocular findings include deposition of fine polychromatic cystine crystals in the conjunctiva, anterior corneal stroma (shown here) and trabecular meshwork. The crystals typically do not affect visual acuity, but can cause significant photophobia.

These photographs show diffuse, refractile crystal deposition throughout the corneal stroma in a patient with a confirmed CTNS mutation.



Refractile crystal deposition throughout the corneal stroma in a patient with a confirmed CTNS mutation

[Enlarge](#) [Download](#)





Refractile crystal deposition throughout the corneal stroma in a patient with a confirmed CTNS mutation

[Enlarge](#) [Download](#)



Slit Lamp of refractile crystal deposition throughout the corneal stroma in a patient with a confirmed CTNS mutation

[Enlarge](#) [Download](#)

Image Permissions:



Ophthalmic Atlas Images by EyeRounds.org, The University of Iowa are licensed under a [Creative Commons Attribution-NonCommercial-NoDerivs 3.0 Unported License](https://creativecommons.org/licenses/by-nc-nd/3.0/).

Address

University of Iowa
Roy J. and Lucille A. Carver College
of Medicine
Department of Ophthalmology and
Visual Sciences

Legal

Copyright © 2019 The University of
Iowa. All Rights Reserved
Report an issue with this page
Web Privacy Policy |
Nondiscrimination Statement

Related Links

Cataract Surgery for Greenhorns
EyeTransillumination
Gonioscopy.org
Iowa Glaucoma Curriculum
Iowa Wet Lab

EyeRounds Social Media

Follow



200 Hawkins Drive
Iowa City, IA 52242

[Support Us](#)

[Patient Information](#)
[Stone Rounds](#)
[The Best Hits Bookshelf](#)

[Receive notification of new cases,
sign up here](#)
[Contact Us](#)
[Submit a Suggestion](#)