



Home → Health Topics → Color Blindness

URL of this page: <https://medlineplus.gov/colorblindness.html>

Color Blindness

Most of us see our world in color. We enjoy looking at a lush green lawn or a red rose in full bloom. If you have a color vision defect, you may see these colors differently than most people.

There are three main kinds of color vision defects. Red-green color vision defects are the most common. This type occurs in men more than in women. The other major types are blue-yellow color vision defects and a complete absence of color vision.

Most of the time, color blindness is genetic. There is no treatment, but most people adjust and the condition doesn't limit their activities.

Start Here

- Color Blindness [<https://www.nei.nih.gov/learn-about-eye-health/eye-conditions-and-diseases/color-blindness>]  (National Eye Institute)
- What Is Color Blindness? [<https://www.aao.org/eye-health/diseases/what-is-color-blindness>] (American Academy of Ophthalmology)
Also in Spanish [<https://www.aao.org/salud-ocular/enfermedades/daltonismo>]

Specifics

- Achromatopsia [<https://www.aapos.org/glossary/achromatopsia>] (American Association for Pediatric Ophthalmology and Strabismus)

Genetics

- Achromatopsia: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/achromatopsia>]  (National Library of Medicine)
- Color vision deficiency: MedlinePlus Genetics [<https://medlineplus.gov/genetics/condition/color-vision-deficiency>]  (National Library of Medicine)

Statistics and Research

- Eye Health Data and Statistics [<https://www.nei.nih.gov/learn-about-eye-health/eye-health-data-and-statistics>]  (National Eye Institute)
Also in Spanish [<https://www.nei.nih.gov/espanol/aprenda-sobre-la-salud-ocular/datos-y-estadisticas-relacionadas-con-la-salud-ocular>]

Clinical Trials

- ClinicalTrials.gov: Color Vision Defects [<https://clinicaltrials.gov/search?cond=%22Color+Vision+Defects%22&aggFilters=status:not%20rec>]  (National Institutes of Health)

Journal Articles

References and abstracts from MEDLINE/PubMed (National Library of Medicine)

- Article: Perceived ability and influencing factors of the signage system for color... [https://www.ncbi.nlm.nih.gov/pubmed/40424876]
- Article: Discrepancies Between Autofluorescence Imaging Modalities in CNGB3-Associated Achromatopsia and Correlation With... [https://www.ncbi.nlm.nih.gov/pubmed/40423615]
- Article: Comprehensive functional splicing analysis of non-canonical CNGB3 variants using in vitro... [https://www.ncbi.nlm.nih.gov/pubmed/40304364]
- Color Blindness -- see more articles [https://pubmed.ncbi.nlm.nih.gov/?term=%22Color+Vision+Defects%22%5Bmajr%3Anoexp%5D+AND+humans%5Bmh%5D+AND+english%5Bla%5D+AND+%22last+1+Year%22%5Bdat%5D+NOT+%28letter%5Bpt%5D+OR+case+reports%5Bpt%5D+OR+editorial%5Bpt%5D+OR+comment%5Bpt%5D%29+AND+free+full+text%5Bsb%5D+]

Find an Expert

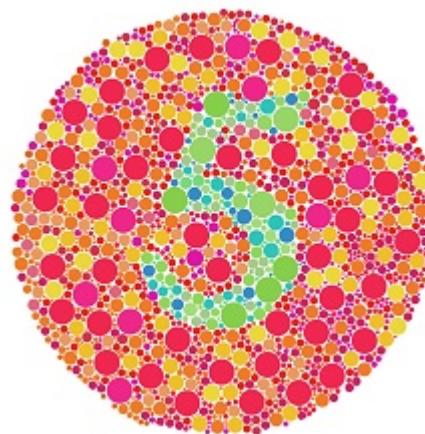
- Find an Ophthalmologist [https://secure.aao.org/aoa/find-ophthalmologist] (American Academy of Ophthalmology)
Also in Spanish [https://secure.aao.org/aoa/encontrar-oftalmologo]
- National Eye Institute [https://www.nei.nih.gov/] 

Children

- Ask a Scientist: What Is Color Blindness? [https://www.nei.nih.gov/learn-about-eye-health/nei-for-kids/ask-scientist-video-series]   (National Eye Institute)
- Color Blindness [https://aapos.org/glossary/color-blindness] (American Association for Pediatric Ophthalmology and Strabismus)

Patient Handouts

- Color blindness [https://medlineplus.gov/ency/article/001002.htm] (Medical Encyclopedia)
Also in Spanish [https://medlineplus.gov/spanish/ency/article/001002.htm]
- Color vision test [https://medlineplus.gov/ency/article/003387.htm] (Medical Encyclopedia)
Also in Spanish [https://medlineplus.gov/spanish/ency/article/003387.htm]



MEDICAL ENCYCLOPEDIA

- Color blindness [https://medlineplus.gov/ency/article/001002.htm]
- Color vision test [https://medlineplus.gov/ency/article/003387.htm]

Related Health Topics

- Eye Diseases [https://medlineplus.gov/eyediseases.html]

National Institutes of Health

The primary NIH organization for research on *Color Blindness* is the National Eye Institute [<https://nei.nih.gov/>]

MedlinePlus links to health information from the National Institutes of Health and other federal government agencies. MedlinePlus also links to health information from non-government Web sites. See our [disclaimer](https://medlineplus.gov/disclaimers.html) [<https://medlineplus.gov/disclaimers.html>] about external links and our [quality guidelines](https://medlineplus.gov/qualityguidelines.html) [<https://medlineplus.gov/qualityguidelines.html>] .

The information on this site should not be used as a substitute for professional medical care or advice. Contact a health care provider if you have questions about your health.

[Learn how to cite this page](#)

National Library of Medicine 8600 Rockville Pike, Bethesda, MD 20894 U.S. Department of Health and Human Services National Institutes of Health

Last updated March 29, 2017