Cone Degeneration, (CD) or Achromatopsia

In brief
Cone degeneration (CD), also called “day-blindness” is an inherited eye disorder causing photophobia and an inability to see in bright light. The disease is inherited through an autosomal recessive pattern of inheritance.

Clinical overview
Clinical signs of CD occur at the age of 8-12 weeks. Affected pups show signs of day-blindness and photophobia due to the degeneration of cone cells in the retina. Cone cells are completely absent in an adult dog affected with CD. The degeneration does not affect rod cells, therefore vision in dim light remains normal; cone degeneration does not result in blindness.

References

Online database
Online Mendelian Inheritance in Animals, OMIA (http://omia.angis.org.au/), Faculty of Veterinary Science, University of Sydney, March 2013.

Scientific articles