Many individuals who are affected with LHON vision loss also experience Charles Bonnet Syndrome.

What is Charles Bonnet Syndrome?

Charles Bonnet Syndrome (CBS) is the experience of phantom images or hallucinations in people living with some form of acquired vision loss such as LHON. These images co-exist with one’s regular visual experience. CBS is similar to “phantom limb syndrome” – when someone’s lost a limb yet has sensations as if their missing arm or leg were still there.

While the cause is not truly known, CBS is considered the brain’s response to the deterioration of vision. Phantom images or hallucinations can take many shapes and forms. They may be simple or complex, static or moving, color or black and white. Sometimes they manifest as unusual visual perceptions, such as flashes of light. Other times they can be clearer than what one’s vision currently allows, or clear enough to look real.

Many medical providers are unaware of this condition, or do not discuss it with their patients with vision loss. And many people refrain from telling anyone about seeing these phantom images for fear of being labelled a certain way or diagnosed with a mental health disorder.

What does the research say?

There is research documenting the experiences of those with various eye diseases who also experience CBS, in addition to research specifically on CBS and those with eye diseases that cause central vision loss. While some research documents cases of people affected with both LHON vision loss and CBS, more data is needed, especially since it is underreported in clinical settings. Recent, unpublished data suggests that CBS is quite common among people affected with LHON vision. For most people experiencing both LHON vision loss and CBS, symptoms endure for many years. However, few people with LHON have been advised on what CBS is, that it can be associated with LHON, and that both simple or complex images or flashes of light are normal symptoms.

What treatments are available?

There are no specific treatments for CBS, but there are a range of options and techniques available to help people with CBS manage this condition. Seeking low vision services and experimenting with behavioral changes may be helpful for managing CBS symptoms. Ask about all available options when meeting with medical care providers.

Learn about some treatment options to explore here: https://www.charlesbonnetsyndrome.org/index.php/cbs/treatments

What types of supports are available?

Just knowing that experiencing CBS is a normal, common side effect of any form of vision loss and that it is not associated with any form of mental decline can be reassuring on its own! It’s always beneficial to talk to others in the LHON Community who experience CBS. In addition, there are organizations that can assist with managing CBS symptoms, including:

- **The Charles Bonnet Syndrome Foundation**
  Based in Australia, this organization’s mission is to: "assist people affected by Charles Bonnet Syndrome (including significant others); educate the general public about this condition; educate health care practitioners of its clinical profile; and research the cause/s, prevention, and treatment of Charles Bonnet Syndrome."12
  → Visit their website for more information: [https://www.charlesbonnetsyndrome.org](https://www.charlesbonnetsyndrome.org)

- **Esme’s Umbrella**
  Based in the UK, this organization aims to: "raise awareness of Charles Bonnet Syndrome, among healthcare professionals and out into the community; give information about CBS and create ways to offer comfort, reassurance, and practical advice to those who have developed the condition – and their families; and source funding for vital CBS research.”13
  → Visit their website for more information: [https://charlesbonnetsyndrome.uk](https://charlesbonnetsyndrome.uk)

*“Charles Bonnet Syndrome can be different for everyone. It can happen at certain times of the day or night, or present differently whether your eyes are open or closed. You can see a bunch of dots and spots, or fully formed imagery like trees or faces. This is normal and there are things you can do to manage it.”*

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**Resources**

- VisionAware: Charles Bonnet Syndrome:
- The Charles Bonnet Syndrome Foundation: [https://www.charlesbonnetsyndrome.org](https://www.charlesbonnetsyndrome.org)
- Esme’s Umbrella: [https://charlesbonnetsyndrome.uk](https://charlesbonnetsyndrome.uk)

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13Esme’s Umbrella: What We Do [Home page]. Esme’s Umbrella. [https://charlesbonnetsyndrome.uk](https://charlesbonnetsyndrome.uk)