





# MACULAR TELANGIECTASIA

# What is macular telangiectasia?

Macular telangiectasia (also known as *Mac-Tel*) is an uncommon disease that affects the macula and can cause loss of central vision.

### How Mac-Tel affects vision

Light enters the eye and is focused onto the **retina**, the light-sensing part of the eye. This information is transmitted through the **optic nerve** to the brain where it is interpreted as the images you see.

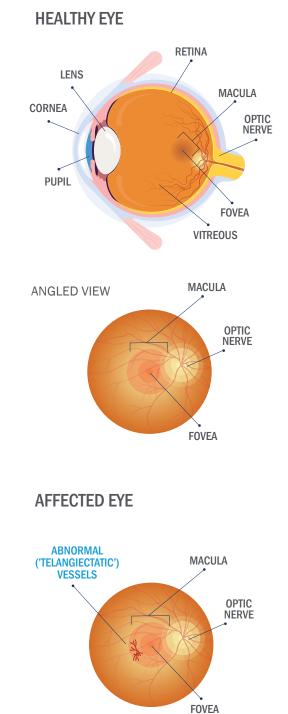
The **macula** is the part of the retina responsible for central vision. The **fovea** is the center of the macula responsible for sharp detail vision, such as that used for reading and driving.

Small blood vessels called **capillaries** supply the macula with oxygen and nutrients. These can dialate and leak, causing an accumulation of fluid called **macular edema**. Sometimes new blood vessels can form under the retina (a process called **choroidal neovascularization**) and also break or leak. Eventually, scarring over the macula can occur, severely affecting vision. In most cases MacTel usually affects both eyes, but can affect each eye differently.

# **Risk factors for Mac-Tel**

In most cases, the cause unknown, with no clear connection to other diseases. It is most common diagnosed in people in their 40s and 50s. Other risk factors can include:

- Underlying high blood pressure or diabetes
- Radiation to the head or neck as part of cancer treatment



#### **Symptoms of Mac-Tel**

The most common symptom of Mac-Tel is gradual, progressive blurred central vision in one or both eyes. Other symptoms, such as distorted vision or 'blank spots,' may occur. In some cases, Mac-Tel can cause a sudden decrease in central vision.

### **Examination and diagnostic testing**

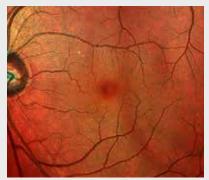
Your ophthalmologist may request diagnostic tests including **photography**, **ocular coherence tomography (OCT)** and **fluorescein angiography** to facilitate diagnosis and discuss treatment options.

### **Treating Mac-Tel**

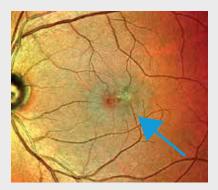
Depending on the type and stage of Mac-Tel, as well as the possible development of secondary choroidal neovascularization, treatment may include injections of medications such as **Lucentis**, **Avastin** or **Eylea**. Rarely, it may be treated with **photocoagulation**. Because Mac-Tel rarely causes severe vision loss, many cases are treated with close clinical observation.

#### WHAT YOUR DOCTOR SEES

#### With Photography

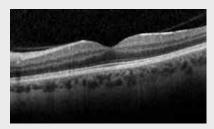


Normal macula

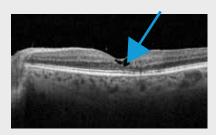


Area of abnormal vessels in the macula

#### On OCT



Normal macula, as seen on OCT



Cystic changes consistent with Mac-Tel



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