

Ophthalmic Covid-19's Complications

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After two and more years of the Covid illness and use of different vaccines, many ocular unexpected or unused problems had been recorded all over the world:

- A. Local eye disorders
- B. Systemic complications affecting the eye
- C. Vaccines disorders.

Local ocular affections

1. Conjunctivitis which appears as papillary redness with watery discharge affecting both Balbur and Palpebral parts with patches of superficial hemorrhages similar to the known Adenovirus conjunctivitis but without draining lymph nodes enlarged. Usually, it is bilateral but can begin unilaterally.

This sign was the first diagnosis of this crisis in China late 2019 by an ophthalmologist who died after by this deadly infection.

2. Iritis: Unilateral iridocyclitis appear later through the course of the disease. It is usually severe painful with muddy iris and rubiosis vessels on the anterior surface of the iris. Imaging of the anterior segment of the eye shows peripheral anterior adhesions between the iris and cornea at the angle with also posterior synechia. Intra ocular pressure may increase with minimal response to hypotensive drugs.
3. Retina: a: Retinal Vasculitis with retinal wet exudates, oedema and patchy hemorrhages are also observed in severe cases which can be mistaken as Eale's disease or nephrotic syndromes. b: Retinal vein thrombosis, this can be branche or central vein. All patients recovering from Covid illness have to be fungus examined monthly with imaging on suspicion.
4. Optic nerve: Papillitis is a common manifestation and may be the first symptom of the virus infection , It is characterized by being bilateral and can be fused by papilledema. It is differentiated by marked loss of vision with negative scanning of the brain.

Ischemic affection of the optic nerve especially in young otherwise healthy patients recovering from Covid infection raise suspicion of minor clots in the feeding vessels of optic nerve.

5. Ocular muscles affection appear as unilateral acquired ptosis or even unexplained ophthalmoplegia are recorded late in the course of the disease.

Vaccines disorders

The problem of the different types of vaccines is the carrying media of the effective vaccine. The most recorded problems are due to the Adenovirus carrier but most of the vaccines produce activation of autoimmune syndromes which can affect the eye like Herpes Zoster or vascular thromboses.

We need more time to elicit the remote effects of the virus and its treating vaccines.

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