










## Review Article

# Progress of Bulbar Conjunctival Microcirculation Alterations in the Diagnosis of Ocular Diseases

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Received 10 July 2022; Accepted 20 August 2022; Published 28 August 2022

Academic Editor: Yang Qi-Chen

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Bulbar conjunctival microcirculation is a microvascular system distributed in the translucent bulbar conjunctiva near the corneal limbus. Multiple ocular diseases lead to bulbar conjunctival microcirculation alterations, which means that bulbar conjunctival microcirculation alterations would be potential screening and diagnostic indicators for these ocular diseases. In recent years, with the emergence and application of a variety of noninvasive observation devices for bulbar conjunctiva microcirculation and new image processing technologies, studies that explored the potential of bulbar conjunctival microcirculation alterations in the diagnosis of ocular diseases have been emerging. However, the potential of bulbar conjunctival microcirculation alterations as indicators for ocular diseases has not been exploited to full advantage. The observation devices, image processing methods, and algorithms are not unified. And large-scale research is needed to concrete bulbar conjunctival microcirculation alterations as indicators for ocular diseases. In this paper, we provide an update on the progress of bulbar conjunctival microcirculation alterations in the diagnosis of ocular diseases in recent five years (from January 2017 to March 2022). Relevant ocular diseases include contact lens wearing, dry eye, conjunctival malignant melanoma, conjunctival nevus, and diabetic retinopathy.

## 1. Introduction

The bulbar conjunctiva is a microvascular-rich translucent membrane that covers the sclera. Microcirculation refers to the microvessels between arterioles and venules, which is the basic functional unit of blood circulation. The bulbar conjunctival microcirculation is an uneven reticulated system adjacent to the corneal limbus, supplied primarily by the anterior ciliary artery and the palpebral artery arch. The anterior ciliary artery separates a small upper branch of the sclera 3 to 5 mm outside the corneal limbus to form a blood vessel network and is distributed in the bulbar conjunctiva. The palpebral artery arch crosses the tarsal plate and is distributed in the palpebral conjunctiva, conjunctival

fornix, and bulbar conjunctiva 4 mm or more from the corneal limbus. The bulbar conjunctival microcirculation is rich in branches and anastomosis, the ratio of arterioles to venules is about 1 : 2, the diameter of microvessels is between 5 and 70  $\mu\text{m}$ , and the blood flow velocity is between 0.52 and 3.26 mm/s [1, 2]. A variety of ocular diseases affect the bulbar conjunctival microcirculation, and due to the translucent nature of the bulbar conjunctiva, noninvasive observations of the bulbar conjunctival microcirculation can be made.

The observation of the bulbar conjunctival microcirculation initially adopted the invasive method represented by fluorescein angiography and indocyanine green contrast and could only be made qualitatively or semiquantitatively. In 2004, minimally invasive confocal fluorescence microscopy

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