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A contact lens wear related with a limbal stem cell deficiency

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Limbal stem cell deficiency is a loss of decreased function of limbal epithelial stem cells secondary to systemic or ocular disease, trauma, contact lens wear, or an iatrogenic or idiopathic cause. This condition manifests itself as a conjunctivalization, vascularization and chronic keratitis usually with involving the superior cornea. This article discusses a 35-year old female who presented with contact lens wear-induced limbal cell deficiency. Historically, the treatment of this condition has included allograft transplant, autograft transplant, keratoepithelioplasty and/or amniotic membrane transplant. But however, less invasive procedures, such as lubricant therapy and debridement, should first be considered, although the treatment may be longer. The initial diagnosis, education, timely specialist's controls can play a key role in subsequent co-management in limbal stem cell deficiency caused by contact lenses wear. More research and the clear determination how limbal stem cells are regulated is needed to understand the treatment required in patients with limbal stem cell deficiency.

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