

Assessing literature of Vitamin D and diabetic retinopathy

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Background: Vitamin D plays an important role in a variety of biological functions.¹ Numerous studies demonstrating that adequate vitamin D levels are important in eye homeostasis.² There is increasing evidence of the association between eye diseases and vitamin D in literature.

Aim: To evaluate scientometric data of Vitamin D and diabetic retinopathy.

Methods: We analyzed the number of publications of Vitamin D and diabetic retinopathy as key words at Web of Sciences with advanced search using TS=(Vitamin D and diabetic retinopathy) from 1955 to 2019.

Hypotheses: There is still a lack of important clinical studies on the role of vitamin D in diabetic retinopathy.

Results: We retrieved a total of 114 articles published in the Clinical Medicine and Life Sciences section. The h-index of these publications was 25, an average citation per item was 20.46, the sum of times cited was 2.332. There were 1.864 citing articles. The number of citations significantly increased from 2002 to 2018, with the highest rate in 2017 (308 articles). The article with the highest number of citations had a total of 296 citations. The highest number of articles 48 (42.105%) was published in the field of endocrinology metabolism. Out of 114 articles, 91 were original scientific articles (79.825%), there were 13 reviews (11.404%), 10 meeting abstract (8.772%) and one book chapter (0.877%).

Conclusions: Although the number of articles on Vitamin D and diabetic retinopathy is increasing every year, it is still insufficient to establish the role of vitamin D in diabetic retinopathy.

Key words: vitamin D, diabetic retinopathy, retina

Bibliography

1. Reins RY et al. Vitamin D: Implications for Ocular Disease and Therapeutic Potential. *Exp Eye Res.* 2015;134:101-10.
2. Aksoy H et al. Serum 1,25 dihydroxy vitamin D (1,25(OH)₂D₃), 25 hydroxy vitamin D (25(OH)D) and parathormone levels in diabetic retinopathy. *Clin. Biochem.* 2000;33:47-51.