

عنوان مقاله:

Evaluation of Toll-like receptor alteration in intestinal biopsies of Irritable bowel syndrome patients: a systematic review

محل انتشار:

دومین کنگره بین المللی پزشکی افصلی پور (سال: 1397)

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خلاصه مقاله:

Background: Irritable bowel syndrome (IBS) is a functional disorder with unclear etiology. Recently there have been some reports of microscopic inflammation in people with IBS. This micro-inflammation can be due to alteration of Pattern recognition receptors especially Toll-like receptors in these patients. In this systematic review we evaluated existing studies related to TLRs and their changes in patients with IBS. Material and methods: Three science citation index databases including Web of Science, Pubmed and EMBASE were searched from September 2000 to September 2018 with related keywords. There was no language restriction. Two reviewers (M.A and A.Y) independently screened and extracted data. Results: In total 178 records were retrieved from searching and 8 eligible studies (265 patients) were included for data extraction and analysis. The results show some of TLRs such as TLR2, TLR3, TLR4 and TLR5 increase significantly compared to the healthy group and some others include TLR7 and TLR8 decrease significantly. Conclusion: Alteration in TLRs in IBS patients can be due to change in microbiota and cause a micro-inflammation. This can have a potential role in pathophysiology of IBS.

کلمات کلیدی:

Irritable bowel syndrome, Toll-like receptor, Intestinal biopsy, Systematic review

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