

23
Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 53169

Manuscript Type: META-ANALYSIS

Role of *IL-17* gene polymorphisms on osteoarthritis: A meta-analysis based on observational studies

Yang HY *et al.* Role of *IL-17* gene polymorphisms on osteoarthritis

Hao-Yu Yang, Yu-Zhou Liu, Xin-Die Zhou, Yong Huang, Nan-Wei Xu

Abstract

BACKGROUND

Osteoarthritis (OA) is a chronic complex multifactorial joint disease, and a major degenerative form of arthritis. Existing studies on the association between polymorphisms of the *IL-17* gene and the risk of OA in different populations have yielded conflicting findings.

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9 days ago - Keywords: IL-17, Polymorphisms, Knee, Osteoarthritis, Meta-analysis Background
Knee osteoarthritis (OA) is a common joint disease which is characterized by degeneration of articular cartilage and subsequent subchondral bone changes [1]. The incidence of knee OA is high, with an estimated 14 million symptomatic patients in the USA [2]. Therefore, it

Association between IL-17 gene polymorphisms and ...

<https://link.springer.com/article/10.1007/s00393-019-00720-2>

We performed a meta-analysis of the associations between the IL-17A rs2275913 and IL-17F rs763780 polymorphisms and risk for OA and serum/plasma IL-17 levels in OA patients and controls. Results Eight studies including 2214 OA patients and 2474 controls were included.

Author: Y. H. Lee, G. G. Song Publish Year: 2019

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Jan 18, 2019 - Interleukin-17 (IL-17), a pleiotropic cytokine, plays a significant role in the inflammatory diseases. By a pilot study with small population, IL-17 polymorphisms (IL-17A rs2275913 and IL-17F rs763780) showed a more potential risk factor in knee osteoarthritis (OA) in our recruited subjects.

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The existing studies on the association between polymorphisms of Calmodulin 1 (CALM1) gene and the risk of osteoarthritis (OA, a complex multifactorial disease and a major degenerative form of arthritis) in different populations have yielded conflicting findings. Therefore, we conducted a meta-analysis by systematically searching PubMed, Embase, Medline, Cochrane Library...

Cited by: 1 Author: Haoyu Yang, Zhiyong Hu, Chao Zhuang, ...

Publish Year: 2018

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Background Interleukin-17 (IL-17), a pleiotropic cytokine, plays a significant role in the inflammatory diseases. By a pilot study with small population, IL-17 polymorphisms (IL-17A rs2275913 and...



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Single **nucleotide polymorphisms** (SNPs) in the **interleukin-17 (IL-17) gene** have been shown to be correlated with susceptibility to cancer. However, various studies report different results of this association. The aim of the present **work** was to clarify the effects of **IL-17A G197A** (rs2275913) and **IL-17F T7488C** (rs763780) **polymorphisms** on cancer risk.

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Author: Feifan Lu, Pei Liu, Qidong Zhang, ...

Publish Year: 2019

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<https://www.sciencedirect.com/science/article/pii/S1521661619305273>

Therefore, the **role of IL-17 gene** in the pathogenesis of **inflammatory arthritis** is unclear. With this **meta-analysis** we aimed to determine the overall association of **IL-17A gene rs2275913 polymorphism** and **IL-17F gene rs763780 polymorphism** with disease (AS, RA and OA) risk, and to assess whether the association varies by ethnicity. 2.

Author: Ming Shao, Shanshan Xu, Hui Yang...

Publish Year: 2020

Correlation between Interleukin-17 gene polymorphism and ...

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Oct 29, 2019 · Association between **IL-17 gene polymorphisms** and circulating **IL-17** levels in **osteoarthritis**: a meta-analysis. ... OA site-based stratification identified an association between the AA genotype of the IL-17A rs2275913 **polymorphism** and the CC genotype of the IL-17F rs763780 **polymorphism** and knee OA, but not hip OA. Furthermore, the same patterns ...

Author: Y. H. Lee, G. G. Song **Publish Year:** 2019

[Association between the polymorphism of IL-17A and IL-17F ...](#)

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