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### Local cytokine profiles in knee osteoarthritis: elevated ...

<https://www.sciencedirect.com/science/article/pii/S1063458409000570>

TNF- $\alpha$ , IL-6 and IL-21 were also detectable in the SF of the majority of patients, and IL-15 levels were associated with IL-6 levels. Conclusion IL-15 is elevated in early knee OA, suggesting activation of an innate immune response in the SM.

Cited by: 176

Author: C.R. Scanzello, E. Umoh, F. Pessler, C. ...

Publish Year: 2009

### Interleukin-6 is elevated in synovial fluid of patients ...

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) › ... › Arthritis Res Ther › v. 14(6); 2012

This study aimed to determine whether, as in osteoarthritis, **increased levels of interleukin-6 (IL-6)** are present in the synovial fluid of patients with symptomatic **cartilage** defects and whether this **IL-6** affects **cartilage** regeneration as well as the cartilage in the degenerated knee.

Cited by: 56

Author: Anika I. Tsuchida, Michiel Beekhuizen, M...

Publish Year: 2012

### Increased levels of IL-6, IL-1 $\beta$ , and TNF- $\alpha$ in Kashin–Beck ...

<https://link.springer.com/article/10.1007/s00296-013-2862-5> ▾

Increased levels of these cytokines have been detected in synovial fluids and cartilage tissues from patients with RA and OA, and serum levels of IL-6 and TNF- $\alpha$  are associated with knee cartilage loss in aged population [10, 11].

Cited by: 23

Author: Xiaorong Zhou, Zhilun Wang, Jinghong Ch..

Publish Year: 2014

### (PDF) Increased levels of IL-6, IL-1 $\beta$ , and TNF- $\alpha$ in Kashin ...

[https://www.researchgate.net/publication/256611504\\_Increased...](https://www.researchgate.net/publication/256611504_Increased...)

T-2 toxin under a selenium-deficient nutritional status induces increased levels of IL-6, IL-1 $\beta$ , and TNF- $\alpha$

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

**Manuscript NO:** 46752

**Manuscript Type:** ORIGINAL ARTICLE

### *Basic Study*

**Elevated levels of IL-1 $\beta$ , IL-6, TNF- $\alpha$  and vascular endothelial growth factor in patients with knee articular cartilage injury**

Zhen-Wei Wang, Le Chen, Xiao-Rui Hao, Zhen-An Qu, Shi-Bo Huang, Xiao-Jun Ma, Jian-Chuan Wang, Wei-Ming Wang

### **Abstract**

### **BACKGROUND**

#### Match Overview

1	<b>Crossref</b> 16 words Ming Dai, Xiao-yan Fang, Hui-yi Chen, Yan-hong Wang, Yi-wen Wu 戴明达, 方晓彦, 陈慧怡, 王彦红, 吴艺文	1%
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## Cytokines as biochemical markers for knee osteoarthritis

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) > ... > [World J Orthop](#) > v.6(1); 2015 Jan 18

Jan 18, 2015 · Currently, the diagnostic power of interleukin (IL)-6 and the relationship to disease burden of IL-1 $\beta$ , IL-15, tumor necrosis factor- $\alpha$ , and vascular endothelial growth factor make these the best candidates for assessment.

Cited by: 75

Author: Thomas Mabey, Sittisak Honsawek

Publish Year: 2015

## [PDF] Synovial Fluid and Serum Levels of sE-Selectin, IL-1 $\beta$ and ...

[www.kau.edu.sa/files/320/researches/52112\\_22244.pdf](http://www.kau.edu.sa/files/320/researches/52112_22244.pdf)

association between IL-1 $\beta$ , disease activity and negative association between TNF- $\alpha$ , grip strength indicated that serial estimation of these cytokines may be used to monitor disease progression. Elevated TNF- $\alpha$  in synovial fluid than in serum of rheumatoid arthritis, osteoarthritis patients indicates its local formation in the synovium.

Published in: [Journal of King Abdulaziz University-medical Sciences](#) · 2007

Authors: Enas A Hamed · Eman A Hamed · Sherifa A Hamed · Hebatallah A Gamal

Affiliation: Assiut University

About: Tumor necrosis factor alpha · Endothelium · SE-selectin · C-reactive protein · Osteoa...

## Cytokine profile in the synovial fluid of patients with ...

<https://www.sciencedirect.com/science/article/pii/S1043466615300934>

Raised levels of IL-6, TNF- $\alpha$ , IL-1 $\beta$ , IL-8, and IFN- $\gamma$  in the SF have been associated with inflammation in patients with TMJD. Cytokines IL-10, osteoclastogenesis inhibitory factor/osteoprotegerin (OCIF/OPG), and VEGF found in the SF of TMJs could have an anti-inflammatory effect.

Cited by: 20

Author: Sergio Varela Kellesarian, Abdulaziz A. A...

Publish Year: 2016

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Elevated levels of interleukin-1 $\beta$ , interleukin-6, tumor necrosis factor- $\alpha$  and vascular endothelial growth factor (VEGF) in patients with rheumatoid arthritis (RA) and age-matched control subjects and to study how these correlate with serum levels of hyaluronan (HA) and antigenic keratan sulfate (KS) and other biochemical as well as clinical indicators of disease activity.

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### Levels of circulating tumor necrosis factor $\alpha$ and ...

<https://onlinelibrary.wiley.com/doi/abs/10.1002/art.1780360409>

To measure serum levels of tumor necrosis factor  $\alpha$  (TNF  $\alpha$ ) and interleukin-6 (IL-6) in patients with rheumatoid arthritis (RA) and age-matched control subjects and to study how these correlate with serum levels of hyaluronan (HA) and antigenic keratan sulfate (KS) and other biochemical as well as clinical indicators of disease activity.

Cited by: [139](#)

Author: Daniel Manicourt, R Triki, K Fukuda, Jean...

Publish Year: 1993

### Serum inflammatory cytokines IL-1 $\beta$ , IL-6, TNF- $\alpha$ and VEGF ...

[https://www.researchgate.net/publication/51528559\\_Serum...](https://www.researchgate.net/publication/51528559_Serum...)

Vascular endothelial growth factor ... and soluble glycoprotein 130 (sgp130) levels are elevated in patients with DKD. ... tumor necrosis factor- $\alpha$  and interleukin-1 $\beta$  in the anterior chamber ...

### Cytokines as biochemical markers for knee osteoarthritis

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) > ... > World J Orthop > v.6(1); 2015 Jan 18

Jan 18, 2015 · Currently, the diagnostic power of interleukin (IL)-6 and the relationship to disease burden of IL-1 $\beta$ , IL-15, tumor necrosis factor- $\alpha$ , and vascular endothelial growth factor make these the best candidates for assessment.

Cited by: [87](#)

Author: Thomas Mabey, Sittisak Honsawek

Publish Year: 2015

### The demonstration of serum interleukin 6–8, tumor necrosis ...

[https://www.researchgate.net/publication/246308848\\_The...](https://www.researchgate.net/publication/246308848_The...)

Serum levels of interleukin (IL)-6, IL-8, tumor necrosis factor alpha (TNF-alpha), vascular endothelial growth factor (VEGF), and malondialdehyde (MDA) were measured by sandwich enzyme-linked ...

### Tumor necrosis factor $\alpha$ - and interleukin-1 $\beta$ -dependent ...

<https://onlinelibrary.wiley.com/doi/full/10.1002/art.37819>