

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 47535

**Title:** Inflammatory bowel diseases and spondyloarthropathies: From pathogenesis to treatment

**Reviewer's code:** 03476292

**Reviewer's country:** Israel

**Science editor:** Ruo-Yu Ma

**Reviewer accepted review:** 2019-03-22 13:39

**Reviewer performed review:** 2019-03-22 13:40

**Review time:** 1 Hour

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input checked="" type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

Interesting article, I have no comments.

### INITIAL REVIEW OF THE MANUSCRIPT



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## PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 47535

**Title:** Inflammatory bowel diseases and spondyloarthropathies: From pathogenesis to treatment

**Reviewer's code:** 01587889

**Reviewer's country:** United States

**Science editor:** Ruo-Yu Ma

**Reviewer accepted review:** 2019-03-22 10:12

**Reviewer performed review:** 2019-03-28 03:22

**Review time:** 5 Days and 17 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input checked="" type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

Fragoulis et al. present an interesting discussion on the possible pathophysiology of spondylarthropathies associated with inflammatory bowel disease (IBD) involving the so-called "gut-synovial axis" hypothesis, which implicates environmental and host



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factors. Many of them act as triggers leading to initiation of inflammation in genetically predisposed individuals SpA, PsA, peripheral SpA, enteropathic arthritis, reactive arthritis, undifferentiated spondyloarthropathy and axSpA have many extra-articular manifestations the most common of which is bowel involvement. Obviously various therapeutic modalities are available with monoclonal antibodies against TNF, Interleukin-23 and Interleukin-17, being the most effective intervention. Both gastroenterologists and rheumatologists should be alerted to identify the co-existence of these conditions and ideally follow-up these patients in combined clinics. This is a fairly good review.

#### **INITIAL REVIEW OF THE MANUSCRIPT**

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## PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 47535

**Title:** Inflammatory bowel diseases and spondyloarthropathies: From pathogenesis to treatment

**Reviewer's code:** 00049331

**Reviewer's country:** Turkey

**Science editor:** Ruo-Yu Ma

**Reviewer accepted review:** 2019-03-22 07:17

**Reviewer performed review:** 2019-03-28 15:14

**Review time:** 6 Days and 7 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input checked="" type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

The Authors aimed to review the pathogenesis and treatment in the Spondyloarthropathies and inflammatory bowel disease. In this review, both clinically silent and overt IBD in Spondyloarthropathies were revealed. This is a useful paper,

however I have some comments. In the first paragraph, definition of Spondyloarthropathies should be begin with general terminology as a “Spondyloarthropathies is a type of arthritis that attacks the spine (axial) and/or the joints of the arms and legs (peripheral)”, than it can proceed with different forms of inflammatory arthritis. In the subtitle section of “Spondyloarthropathies occurring in patients with Inflammatory Bowel Diseases” I would suggest to add a paper regarding peripheral arthritis in patients with IBD (Yuksel I et al., Peripheral arthritis in the course of inflammatory bowel diseases. Dig Dis Sci. 2011;56:183-7). This review is acceptable for publication after arrangement according to recommendations.

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## PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 47535

**Title:** Inflammatory bowel diseases and spondyloarthropathies: From pathogenesis to treatment

**Reviewer's code:** 00073640

**Reviewer's country:** Slovenia

**Science editor:** Ruo-Yu Ma

**Reviewer accepted review:** 2019-03-22 16:01

**Reviewer performed review:** 2019-03-29 20:36

**Review time:** 7 Days and 4 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input checked="" type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

The title/subject is interesting and topical, the manuscript is well structured and well written. However, to improve the manuscript I suggest the following: - Abstract does not reflect the manuscript appropriately - first half of the abstract is just classification of

spondyloarthropathies, which is then repeated in the Core tip and in the Introduction section – in the abstract and Core tip this part should be properly shortened – instead more information from other sections of the review should be included in the abstract - Please explain what is the aim of this review article - In the introduction section information about the purpose of the manuscript should be provided - In the text there are many long sentences which are difficult to understand and should be properly re-form- For instance: - Page 4 “In a large population, control-matched study, including 4101 patients with AS, Stolwijk et al [6] found that at the time of AS diagnosis, the cumulative incidence was 4%, while in a French large, prospective study for early inflammatory back pain, IBD occurred in 7.2% of patients with newly diagnosed AS [9]. - In a multi-centre AS study with a long follow-up, no differences were recorded between patients who had a history of IBD at baseline and those who did not [8], while development of IBD was associated with disease activity and spinal pain scores at baseline and worse physical function and patient well-being, at the time of IBD diagnosis [8]. - Interestingly, in a sub-analysis of the GIANT cohort, it was shown that in patients with axSpA, SPARCC (Spondyloarthritis Research Consortium of Canada) scores which is a tool to measure MRI-defined sacroiliitis were higher in patients with chronic gut inflammation, as assessed by ileocolonoscopy compared to those without gut lesions [12]. - Page 6: Comparing CD patients with and without AS, in a small single centre study, Liu et al did not observe any differences between these two groups [29]. Of note, it was found that CD disease activity, measured by Crohn’s disease activity index, paralleled AS disease activity and functional disability, assessed by BASDAI and Bath AS functional index – BASFI, possibly implying a tight connection in the pathogenetic mechanisms of these conditions. There are also sentences in which there is probably something missing : Page 10: Further studies detected in the inflamed joints of these patients *Yersinia enterocolitica*, *Salmonella enteritidis* and *typhimurium*, *Yersinia* and





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Shigella related antigens which may be translocated by monocytes [25, 77, 78]. Page 11:  
The latter seems to regulate IgA induction in the lamina propria and therefore to the  
intestinal microbiota composition [91, 92].

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