

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 65004

Title: Occurrence of human leukocyte antigen B51-related ankylosing spondylitis in a family: Two case reports

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03477174

Position: Peer Reviewer

Academic degree: MD

Professional title: Associate Professor

Reviewer's Country/Territory: Turkey

Author's Country/Territory: South Korea

Manuscript submission date: 2021-02-26

Reviewer chosen by: Ze-Mao Gong

Reviewer accepted review: 2021-09-04 10:48

Reviewer performed review: 2021-09-07 06:44

Review time: 2 Days and 19 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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Peer-reviewer statements	Peer-Review: [<input checked="" type="checkbox"/>] Anonymous [<input type="checkbox"/>] Onymous Conflicts-of-Interest: [<input type="checkbox"/>] Yes [<input checked="" type="checkbox"/>] No
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SPECIFIC COMMENTS TO AUTHORS

The authors identified and presented an HLAB51 positive family without Behcet disease. The English of the article should be reviewed by a native speaker. Ages of family members should be added to the pedigree. Genital and eye examination results of the family should be mentioned. Have family members been tested for pathergy?

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Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02673241

Position: Peer Reviewer

Academic degree: MD

Professional title: PhD

Reviewer's Country/Territory: Japan

Author's Country/Territory: South Korea

Manuscript submission date: 2021-02-26

Reviewer chosen by: Ze-Mao Gong

Reviewer accepted review: 2021-09-18 11:19

Reviewer performed review: 2021-09-22 16:08

Review time: 4 Days and 4 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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SPECIFIC COMMENTS TO AUTHORS

This is a case presentation of HLA B51-related ankylosing spondylitis in a family. It is very interesting, but I am skeptical of the contents of the conclusion and core tip. Please consider reviewing the contents, including responses to a comment made to the abstract. I will also describe other points that need to be modified. Abstract DNA-typing of HLA-B is common in Japan. Is it common in the Republic of Korea to measure only certain HLAs, such as HLA B51 and HLA B27? If comprehensive HLA-B DNA-typing is performed instead of measuring certain HLAs, the conclusion here does not hold. Introduction Please present the proportion of HLA B27-positive patients among those with ankylosing spondylitis. Case report The style of presentation of such items as chief complaints and history of present illness of Case 1 and Case 2 in an alternating manner makes it difficult to identify individual cases. Please change the order of presentation: For Case 1, chief complaints, history of present illness, ...; then, please follow the same order for Case 2. Please specify the blood pressure, pulse rate, and respiratory rate at the time of presentation. Please specify any physical findings suggestive of or ruling out arthritic symptoms at sites other than the spine, Achilles enthesitis, iridocyclitis, inflammatory bowel disease, aortic valve insufficiency, and mitral valve insufficiency. Please present test results of blood specimens for WBC, CRP, sedimentation rate, antinuclear antibodies, and rheumatoid factors. In "Fig. 3. In the pedigree of the family," please identify the persons who correspond to Case 1 and Case 2. Please also provide a diagnosis for each person whose HLAs are shown (such as a person with ankylosing spondylitis and a person only with sacroiliitis). Discussion Please emphasize that the proportions of HLA B51-positive individuals in literature 11 is



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a statistic for Korea. The proportion varies depending on race. I cannot understand the flow of logic in the sentence, "Thus, the strong association between AS and HLA B27 suggests that significance of HLA B51 testing in SpA could be restricted to the cases without HLA B27 haplotype." A more detailed explanation is needed for the reader to understand this better. Has Case 1's wife been tested for HLA? Are HLA 40:01 (B60) and HLAB51:01 shown for the fourth daughter who developed Grade 1 sacroiliitis correct? If correct, Case 1's wife has HLA 40:01 (B60) or HLAB51:01. Please mention this. DNA-typing of HLA-B is common in Japan. Is it common in the Republic of Korea to measure only certain HLAs, such as HLA B51 and HLA B27? If comprehensive HLA-B DNA-typing is performed instead of measuring certain HLAs, the conclusion, "it is advisable to check for HLA B51 positivity in patients with HLA B27-negative AS or SpA, even in the absence of clinical signs of Behcet's disease," is skeptical. On the other hand, the conclusion is understandable if HLA is measured in clinical practice when SpA is suspected. Core Tip An argument in the core tip, "Thus, it is advised to perform HLA B51 testing as a genetic marker for HLA B27 negative AS/Spondyloarthropathy regardless of clinical symptoms of Behcet's disease" also does not hold if comprehensive HLA-B DNA typing is performed.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02673241

Position: Peer Reviewer

Academic degree: MD

Professional title: PhD

Reviewer's Country/Territory: Japan

Author's Country/Territory: South Korea

Manuscript submission date: 2021-02-26

Reviewer chosen by: Jing-Jie Wang (Online Science Editor)

Reviewer accepted review: 2021-11-11 13:04

Reviewer performed review: 2021-11-11 13:16

Review time: 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous



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statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

I'm satisfied with responses to my original recommendations and accept the revisions.