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PEER-REVIEW REPORT

Name of journal: *World Journal of Orthopedics*

Manuscript NO: 80416

Title: Polydactyly: Clinical and molecular manifestations

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03199608
Position: Editorial Board
Academic degree: MD, PhD
Professional title: Chief Physician, Director, Professor
Reviewer's Country/Territory: China
Author's Country/Territory: Greece

Manuscript submission date: 2022-09-26

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-09-27 11:34

Reviewer performed review: 2022-09-29 13:42

Review time: 2 Days and 2 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No
Peer-reviewer	Peer-Review: [Y] Anonymous [ ] Onymous

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

SPECIFIC COMMENTS TO AUTHORS

Genetic mechanisms which combine epigenetic and environmental factors play a significant role in foot and hand polydactyly manifestations[37]. Proper genotype-phenotype correlations might help in future genetic testing and enhance our knowledge about identified diseases and their associated genes. Recent genetic analysis techniques of extra foot or hand digit formation highlight the existence of nongradual transitions in phenotypes, suggesting a distinction between continuous and discontinuous variation in evolution. Genome sequencing, will probably lead to the discovery of a number of new gene mutations responsible for non-syndromic or syndromic polydactyly. Clinical manifestation and genetic profile correlation of polydactyly types will be further established by use of bioinformatics analysis of gene mutations. Progress of prenatal diagnosis-which is still mostly postnatal, prenatal operative treatment planning and potential future gene modification treatment will be enhanced and unknown molecular background of diseases which is -to date- unclear, will be elucidated .

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Reviewer's code: 06380707
Position: Peer Reviewer
Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: United States

Author's Country/Territory: Greece

Manuscript submission date: 2022-09-26

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-10-04 02:24

Reviewer performed review: 2022-10-17 02:02

Review time: 12 Days and 23 Hours

Scientific quality	[Y] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No
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SPECIFIC COMMENTS TO AUTHORS

Postaxial Polydactyly A3 is related to mycobacterium TB but it is not said how. Is it maternal infection prior to pregnancy or during? Intra-uterine infection in the individual? The last sentence of that section should read "There is not AN identified gene responsible for the disorder." The study is limited mostly in that there are no images representative of the different types of polydactyly.