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PEER-REVIEW REPORT

Name of journal: World Journal of Orthopedics

Manuscript NO: 42879

Title: Investigational Growth Factors Utilized in Animal Models of Spinal Fusion: Systematic Review

Reviewer's code: 03069301

Reviewer's country: Spain

Science editor: Ying Dou

Date sent for review: 2018-10-23

Date reviewed: 2018-11-03

Review time: 11 Days

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[ ] Grade E: Do not publish		[ ] Rejection	[Y] Advanced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

SPECIFIC COMMENTS TO AUTHORS

The authors present a systematic review on the factors used in animal models of spinal arthrodesis. The study is well designed but obviates studying the BMP-7 (OP-1). The BMP-7 has been much used in animals as well as in humans, and although it is currently

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temporarily suspended its commercialization, its inclusion in a paper on animal experimentation is necessary. The clinical use of other proteins such as BMP-2 has also been subjected to other clinical problems.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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[Y] No

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PEER-REVIEW REPORT

Name of journal: World Journal of Orthopedics

Manuscript NO: 42879

Title: Investigational Growth Factors Utilized in Animal Models of Spinal Fusion: Systematic Review

Reviewer's code: 03708308

Reviewer's country: Italy

Science editor: Ying Dou

Date sent for review: 2018-10-23

Date reviewed: 2018-11-03

Review time: 11 Days

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[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection	[ ] Accept (High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

SPECIFIC COMMENTS TO AUTHORS

The manuscript is an interesting systematic review of the all non-human, preclinical animal models of spinal fusion reported in the literature and the growth factors role growth factors in spinal fusion. After a 4806 articles research on the four principles

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science databases (PubMed, Embase, Cochrane Library, and Web of Science), only 26 articles were considerate eligible by the authors. Main growth factors investigated were: AB204; angiopoietin; calcitonin; erythropoietin; basic fibroblast growth factor; growth differentiation factor, combined insulinlike growth factor 1 + transforming growth factor beta; insulin; NELL-1; noggin; P-15; peptide B2A; and secreted phosphoprotein 24. The authors concluded that many of the investigated growth factors could inform the development of efficacious, clinically translatable materials for spinal fusion. Comment 1: The authors should implement the discussion, add their opinion on the future prospective of the main growth factors, which of the should be further investigated and their possible clinical use.

INITIAL REVIEW OF THE MANUSCRIPT

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[Y] No

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PEER-REVIEW REPORT

Name of journal: World Journal of Orthopedics

Manuscript NO: 42879

Title: Investigational Growth Factors Utilized in Animal Models of Spinal Fusion: Systematic Review

Reviewer's code: 03069318

Reviewer's country: United States

Science editor: Ying Dou

Date sent for review: 2018-10-23

Date reviewed: 2018-11-09

Review time: 16 Days

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

SPECIFIC COMMENTS TO AUTHORS

Abstract In the results, preferably include a range in fusion rates Introduction Please do not use trademarks in the introduction, use the name of the factor itself. Methods Well described Results Be consistent in reporting data. For example, state % of fusion

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rate for calcitonin. Also for BFGF report specific values. Similarly for IGF/TGFb Were there any complictions reported in these animal studies? Discussion Well presented. As described, the applicability of these factors to clinical practice is not only related to translation of the findings to humans, but also potential complications.

INITIAL REVIEW OF THE MANUSCRIPT

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