

PEER-REVIEW REPORT

Name of journal: World Journal of Orthopedics

Manuscript NO: 38639

Title: Effect of opioid dependence or abuse on opioid utilization after shoulder arthroplasty

Reviewer's code: 02629632

Reviewer's country: Japan

Science editor: Li-Jun Cui

Date sent for review: 2018-03-06

Date reviewed: 2018-03-12

Review time: 5 Days

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 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 type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The authors investigated the effect of preoperative opioid dependence or abuse on post-operative opioid consumption after shoulder arthroplasty and concluded opioid use was more prevalent among patients with pre-operatively diagnosed opioid



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dependence or abuse, and age less than 65 years old, prior diagnosis of mood disorder and chronic pain diagnosis were the significant risk factors for opioid dependence or abuse before surgery. A major comment: The orthopedic surgeons in the United States of America are among the highest prescribers of opioids and there is no guideline for appropriate managements of post-operative pain after arthroplasty. The results of the study will raise an alarm for easy use and/or overuse of opioids in this field because the substantial number of patients without pre-operative opioid dependence/abuse required opioid prescription after surgery. The reviewer thinks the design of the study is simple and results are clear. The World Journal of Orthopedics would be a proper journal for publication of this study. A minor comment: Some studies have shown that interscalen peripheral nerve block via single injection or continuous infusion which is commonly used during shoulder surgery can reduce total opioid consumption and can lower pain scores after surgery. However, anesthesiologists might avoid the procedure of peripheral nerve block or intra-operative administration of opioids in patients with pre-operatively diagnosed opioid dependence or abuse because interscalen peripheral nerve block and intra-operative opioids have an adverse effect on pulmonary functions in patients with limited pulmonary reserve such as diagnosed opioid users. Were there any differences in the choice of anesthesia methods between patients with and without a history of opioid dependence or abuse before surgery?

INITIAL REVIEW OF THE MANUSCRIPT

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