

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 74398

Title: Advances in the clinical application of oxycodone in the perioperative period

Provenance and peer review: Unsolicited manuscript; externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02480177

Position: Peer Reviewer

Academic degree: MD

Professional title: Full Professor, Professor

Reviewer's Country/Territory: Italy

Author's Country/Territory: China

Manuscript submission date: 2021-12-22

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-12-29 08:26

Reviewer performed review: 2022-01-02 19:14

Review time: 4 Days and 10 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 Grade E: Do not publish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 checked="" 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 checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

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

SPECIFIC COMMENTS TO AUTHORS

The title of this review clearly explain the potential role of oxycodone in clinical application. The abstract is too concise and does not adequately define the role played by oxycodone in analgesia and anesthesia. The abstract should be expanded. The keywords are precise and appropriate. The review is relevant for the precise selection of topics concerning the use of oxycodone and morphine in all the aspects of pain relief. The paper completely explain that all the literature regarding the clinical use of oxycodone and morphine was reviewed based on relevant publications.

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Peer-review model: Single blind

Reviewer's code: 05077753

Position: Peer Reviewer

Academic degree: MSc, PhD

Professional title: Postdoc

Reviewer's Country/Territory: Denmark

Author's Country/Territory: China

Manuscript submission date: 2021-12-22

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-03 08:11

Reviewer performed review: 2022-01-04 10:01

Review time: 1 Day and 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
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SPECIFIC COMMENTS TO AUTHORS

This is a short but detailed review of the current literature on the important subject of the clinical application of oxycodone. The authors present an easily understandable walk-through of the subject. However, the manuscript still needs some editing before it is suitable for publication. The text needs to be read and corrected concerning the English language. The title clearly explains the topic of the review paper. The abstract is not detailed enough to get a complete understanding of the review's aim, results, and conclusions. It needs to be prolonged. The manuscript writing needs to be improved in some places. Here are some specific comments: Page 4: "It is an opioid μ and κ receptor agonist, a class of potent opioid analgesics". The sentence is unclear. Page 7: "Oxycodone reduced opioid-induced constipation and prevented gastrointestinal adverse effects in chronic pain management, but had little effect on analgesic efficacy" – it is unclear what is meant with analgesic efficacy. And it might be easier to read, if you started the sentence with "The study by... showed that..." Page 11: "The analgesic strength is better than that of each single drug" – which drugs? it is easier to understand if you write the specific drugs again. Page 13: "The analgesic effect of morphine is mainly mediated by μ -receptors, and the analgesic effect of oxycodone is mainly mediated by κ -receptors". It would help if you had a reference to this statement. Some references state that oxycodone's analgesic effect is mediated mainly by μ -receptors, e.g. see the review "Kinnunen, M., Piirainen, P., Kokki, H. et al. Updated Clinical Pharmacokinetics and Pharmacodynamics of Oxycodone. Clin Pharmacokinet 58, 705–725 (2019). <https://doi.org/10.1007/s40262-018-00731-3>" Page 13: "The results showed that. The analgesic effect of morphine in combination with an oxycodone controlled-release formulation was also significantly enhanced in patients with cancer pain, and patient



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subjective satisfaction and quality of life were significantly improved.” – Typo with an extra “.” Page 15: “Some literature reports[52], that fentanyl doses greater than 5 µg/kg to completely block the sympathetic response .” – unclear writing