

PEER-REVIEW REPORT

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Title: Current concepts in the management of bisphosphonate associated atypical femoral fractures

Reviewer's code: 01213075

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Professor

Reviewer's Country/Territory: Taiwan

Author's Country/Territory: United Kingdom

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Reviewer chosen by: AI Technique

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Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input 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 Grade E: Do not publish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 checked="" type="checkbox"/> Accept (General priority) <input 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 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

Summary: This manuscript reported a review about the current concepts in the management of bisphosphates associated atypical femoral fractures. This review covered well the important clinical points of such a clinical complication. Basic information of bisphosphonates, atypical femoral fractures, pathogenesis and biomechanics of atypical femoral fractures (biological, biochemical, genetics, biomechanical, the role of imaging), as well as management of atypical femoral fractures were well presented and discussed. The authors concluded that a growing evidence base to suggesting a higher incidence to atypical femoral fractures in patients who take bisphosphonates. As we encounter a growing co-morbid elderly population, the prevalence of this fracture type will likely increase. Therefore, they suggested that it is imperative clinicians continue to be attentive of atypical femoral fractures and treat them effectively. **Comments:** This review well addressed and discussed the current status of etiology, epidemiology, diagnosis and management of bisphosphates associated atypical femoral fractures. This review may provide many important information for the clinical practice. However, some more issues may be needed to be added before considering for publication in World Journal of Orthopedics. 1. The risk factors of bisphosphates associated atypical femoral fractures needed more emphasis because it is important for clinical screening practice. 2. The role of bone scintigraphy is important, especially for detecting bilateral or multiple lesions. For those locations without obvious symptoms, bone scintigraphy can be helpful and also needs discussion. 3. Regarding operation, adequate bone grafting also promoted fracture healing. This point was missed. 4. The authors may provide a clinical check-up suggestion for those patients with high risk of bisphosphates associated atypical femoral fractures. 5. Bone turnover markers status was not discussed. Did those with bisphosphates associated atypical femoral fractures have a different

turnover status as compared with controls?