

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 85031

Title: Pregnancy and lactation-associated osteoporosis with pyogenic spondylitis: A case report

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06270204

Position: Peer Reviewer

Academic degree: N/A

Professional title: N/A

Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2023-04-12

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-04-12 18:09

Reviewer performed review: 2023-04-17 20:03

Review time: 5 Days and 1 Hour

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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 Grade E: Do not publish |
| Novelty of this manuscript | <input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty |
| Creativity or innovation of this manuscript | <input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation |

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| Scientific significance of the conclusion in this manuscript | <input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance |
| 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 statements | Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous |
| | Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

SPECIFIC COMMENTS TO AUTHORS

Overall, this case report is well-written and provides a clear and concise presentation of a rare clinical condition involving the co-occurrence of pregnancy and lactation-related osteoporosis with pyogenic spondylitis. The authors have adequately presented the patient's medical history, physical examination, laboratory tests, diagnostic imaging, diagnostic and therapeutic interventions, and outcome and follow-up. The authors have discussed the clinical relevance of PLO and pyogenic spondylitis and have provided a comprehensive review of the relevant literature, including the pathophysiology, clinical manifestations, and treatment options for PLO and pyogenic spondylitis. The manuscript is generally well-organized, but some minor revisions would be helpful. For instance, the authors may want to consider clarifying the primary objective of the case report in the introduction section. Additionally, the discussion section could benefit from a more focused analysis of the current case and its implications for clinical practice. Overall, this manuscript presents an interesting case that will be valuable to the medical community. The authors have provided a clear and comprehensive account of their findings and have identified several important clinical



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implications that should be considered in the diagnosis and treatment of patients with PLO and pyogenic spondylitis. I recommend this manuscript for publication with minor revisions. In addition to the factors discussed in the manuscript, such as hormonal changes, genetic predisposition, and calcium loss after lactation, it would be helpful for the authors to discuss potential environmental, metabolic, and dietary factors that may have contributed to the patient's osteoporosis. The authors could consider citing relevant studies to support their discussion. For example, a study published in the journal Biological Trace Element Research found that cadmium exposure may be associated with lower bone mineral density in US adults, with the association varying by race and gender (doi: 10.1007/s12011-022-03521-y). Another study published in the journal Medicine found a negative association between nonalcoholic fatty liver disease and bone mineral density in adolescents (doi: 10.1097/MD.00000000000031164). Furthermore, a study published in the same journal found a positive association between caffeine intake and bone mineral density in children and adolescents (doi: 10.1097/MD.00000000000031984). Discussing these factors and citing relevant studies would add to the manuscript's overall discussion of potential risk factors for osteoporosis and could provide useful insights for clinicians and researchers studying PLO and related conditions.

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Peer-review model: Single blind

Reviewer's code: 05278701

Position: Editorial Board

Academic degree: MD

Professional title: Professor, Staff Physician

Reviewer's Country/Territory: Brazil

Author's Country/Territory: China

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| | Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

SPECIFIC COMMENTS TO AUTHORS

I would like to thank you for the opportunity to review the text entitled: Pregnancy and lactation-associated osteoporosis with pyogenic spondylitis: A case report. The text is well-written and provides an overview of a rare pathology. Additional suggestions would be to include an arrow pointing out the changes in the MRI and pathology specimen to facilitate reader understanding, and to improve the quality of the histopathological photo.