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Medication-Related Osteonecrosis of the Jaw (MRONJ): Current Practice, New Tools and Future Trends

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Message from the Collection Editors

Medication-related osteonecrosis of the Jaw (MRONJ) is an adverse drug reaction described as the progressive destruction and death of bone that affects the mandible and maxilla of patients exposed to the treatment with medications known to increase the risk of disease, in the absence of a previous radiation treatment. What we know is that MRONJ may lead to a reduced quality of life due to jaw bone infections, chronic pain, tooth loss, impaired function, and disfigurement. However, despite significant advancement in our comprehension of the disease, there remain several controversial issues.

Indeed, one of the most recurrent question is “Which is the correct treatment strategy for patients affected by MRONJ?”

Simultaneously, surgical techniques have advanced considerably and several new tools have been proposed, such as lasers or piezoelectric devices. Additionally, team-based multidisciplinary patient management has been applied in MRONJ prevention and treatment, improving patient outcomes beyond traditional operative strategies.

This Special Issue is focused on, but not limited to, advances and innovations in MRONJ treatment highlighting novel surgical approaches or devices and outcomes of clinical management protocols. We invite you to submit high-quality original research articles or reviews that provide new findings on MRONJ extending the current state of knowledge.



Topical Collection