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Evaluation of early wound healing scales/indexes in oral surgery: A literature review

Background: The quality of the healing response after oral and maxillofacial surgery (OMS) is influenced by the nature of the tissue disruption and the circumstances surrounding wound closure. The use of wound healing scales may help the surgeon anticipate and when possible, intervene so that wound repair can progress favorably.

Purpose: The purpose of the study was to evaluate the early wound healing scales/indexes in oral surgery.

Method: Studies reported in the OMS literature of the last 20 years that applied scales/indexes to monitor the wound healing process were reviewed.

Results: We identified eight scales/indexes that were developed for use in OMS, including three that are modifications of a previously reported scale. Most were applied in split-mouth trials of wound healing modifiers.

Conclusion: Wound healing scales are infrequently used in OMS. Those that are available do not allow for an association of the outcome parameters, modifiers used or effectiveness of the modifiers with the different phases of the wound healing process (inflammatory, proliferative, remodeling). Moreover, there is no consensus regarding the time frames that should be evaluated or the preferred scale. On the basis of these findings, we suggest a novel scale that distinguishes among the wound healing phases and yields three subscale scores and a total score.

Biography

Yafit Hamzani completed her BMed in 2012 from Hebrew University of Jerusalem, Israel. In 2015, she got the license to practice on Dental Medicine. In 2016, she graduated with DMD degree and got Certificate of Excellence of Faculty of Dental Medicine from Hebrew University of Jerusalem, Israel. Now, she is working at the Department of Oral and Maxillofacial Surgery, Rabin Medical Center, Israel.

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