

Peer Review

Review of: "The Theory of Early Prosthetic Loosening — A Concise Overview"

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1. Definition of Early Prosthetic Loosening

The manuscript would benefit from providing a clear operational definition of “early loosening,” including time thresholds and diagnostic criteria. This would improve clarity and comparability with other studies.

2. Limited Discussion of Alternative Theories

Although the early loosening theory is well presented, the manuscript would benefit from briefly contrasting it with competing hypotheses such as particle-induced osteolysis or late biomechanical failure models.

3. Role of Infection and Host Factors

Periprosthetic joint infection, systemic bone quality, and patient-related risk factors are mentioned but not explored in detail. Expanding this discussion would improve clinical applicability.

4. Limited Quantitative Evidence Summary

While RSA findings are referenced, summarizing key data (e.g., migration thresholds predicting failure) would strengthen the translational value of the review.

5. Clinical Implications and Preventive Strategies

The manuscript would benefit from further elaboration on how this theory could influence:

Surgical technique optimization

Prosthetic design selection

Postoperative rehabilitation protocols

Early diagnostic monitoring strategies

Declarations

Potential competing interests: No potential competing interests to declare.