

Evaluation of the Efficacy of Platelet-Rich Fibrin after Removal of Impacted Mandibular Third Molars: A Systematic Review

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Abstract

Mandibular third molars (M3Ms) are commonly impacted, and their removal is often necessary. Platelet-rich fibrin (PRF) is a biocompatible, autologous conditioning serum-derived matrix that has been shown to promote wound healing and bone formation. This systematic review aims to evaluate the efficacy of PRF after the removal of impacted M3Ms. The search was conducted in PubMed, Scopus, and Cochrane databases. The search terms were "platelet-rich fibrin", "impacted mandibular third molar", and "efficacy". The review included 10 studies. The results showed that PRF significantly reduced post-operative pain, swelling, and bleeding compared to the control group. Additionally, PRF promoted faster wound healing and bone formation. The overall quality of the evidence was moderate to high. The findings suggest that PRF is an effective adjunct to the removal of impacted M3Ms, providing a faster and more comfortable recovery for patients.

- PRF significantly reduced post-operative pain compared to the control group.
- PRF significantly reduced post-operative swelling compared to the control group.
- PRF significantly reduced post-operative bleeding compared to the control group.
- PRF promoted faster wound healing compared to the control group.
- PRF promoted faster bone formation compared to the control group.

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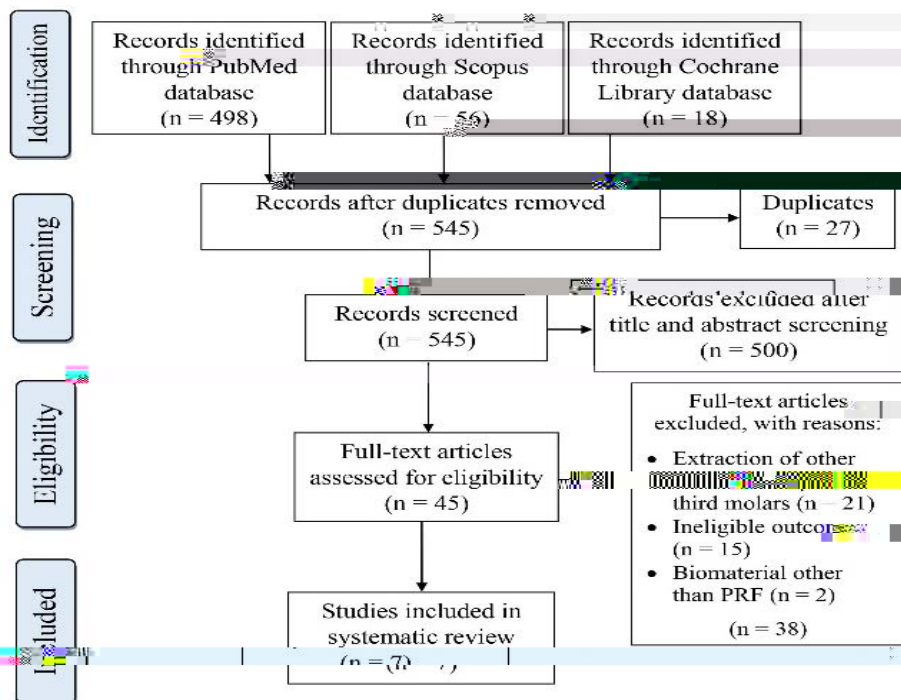


Figure 1:

Authors, Year	Follow-up visits	Pain	Swelling	Trismus	Bone healing
	th th months	-	-	-	th th
	st th months	-	-	-	st th
	st th th th		st postoperative	-	th th
	th th hours, st th		th	th	-
	th months th,				
	st th th th			-	th th
	st th th	-	-	-	th th

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References

Platelet-

Platelet-rich