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Platelet-rich plasma for muscle injuries: A systematic review of the basic science literature

Kunze KN *et al.* PRP muscle basic science

Kyle N Kunze, Charles P Hannon, Jared D Fialkoff, Rachel M Frank, Brian J Cole

Abstract

BACKGROUND

Platelet-rich plasma (PRP) is an increasingly used biologic adjunct for muscle injuries as it is thought to expedite healing. Despite its widespread use, little is known regarding the mechanisms by which PRP produces its efficacious effects in some patients.

AIM

To clarify the effects of PRP on muscular pathologies at the cellular and tissue levels by

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To perform a **systematic review** of the **basic science** literature on the use of platelet-rich plasma (PRP) in tendon models. Methods We searched the PubMed/Medline and Embase databases in June 2012 using the following parameters: ((tenocytes OR tendon OR tendinitis OR tendinosis OR tendinopathy) AND (platelet rich plasma OR PRP OR autologous conditioned plasma OR ACP)).

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Platelet-rich plasma in tendon models: a **systematic review** of **basic science** literature. Three in vivo studies found increased vascularity, and 4 found increased tensile strength with **PRP treatment**.

CONCLUSIONS: In the **basic science** studies evaluated, it appears that PRP confers several potential effects on tendon models compared with a control.

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