

Ultrasound targeting accuracy for platelet-rich plasma injections

Anatomical accuracy and injectate distribution

Submission manuscript - publication status unverified

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Evidence that an injection reaches the intended location does not establish that PRP is effective for that condition, or that ultrasound guidance produces better long-term clinical outcomes.

Research question

How accurately does ultrasound guide PRP into the intended musculoskeletal tissue, and where does the injectate spread after delivery?

Purpose and approach

PRP studies differ in their target tissues and delivery techniques. A study of injection accuracy should distinguish placement of the needle, distribution of the injected material and any subsequent improvement in pain or function.

The source describes a systematic review of PRP-specific targeting and dispersion studies, with broader ultrasound-versus-landmark injection studies used as contextual evidence. Evidence from cadavers and living patients should be described separately.

Work needed before a complete paper

- Confirm the exact search date, search strategies, eligibility criteria and screening record.
- Verify each PRP-specific study and distinguish it from non-PRP injection evidence.
- Reconcile anatomical accuracy measures, injectate dispersion and clinical outcomes.
- Check references, extraction records, risk of bias and the journal decision.

Status note: The source is labelled as submitted to the Journal of Orthopaedics, Trauma and Rehabilitation; submission and the journal decision have not been independently verified.