

BMAC for subchondral bone and osteochondral healing

Delivery to subchondral bone and osteochondral repair

Working manuscript - publication status unverified

Source byline: Mr Peyman Bakhshayesh, MD, PhD, MBA.

This working review has conflicting study descriptions and citations. Its draft results are not reproduced here. It does not establish that BMAC regenerates cartilage or reliably prevents joint replacement.

Research question

What evidence supports bone marrow aspirate concentrate delivered to subchondral bone for osteochondral repair, and how does it differ from intra-articular injection?

Purpose and approach

The tissue below joint cartilage is a potential research target. Studies of BMAC use different indications, preparations and delivery routes, which should be considered before combining their findings.

The source describes a review spanning human clinical studies, technique reports and translational evidence. Its intended outcomes include symptoms, function, imaging and later surgery. Protocols without results should remain separate from completed studies.

Work needed before a complete paper

- Reconcile reference years, study designs and delivery routes with the original papers.
- Separate subchondral or intraosseous delivery from intra-articular treatment.
- Distinguish completed clinical studies, protocols, technical reports and animal work.
- Verify eligibility, study counts, extraction tables and search records before drawing conclusions.

Status note: A draft cover letter is present. Submission, acceptance and publication have not been verified.