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Name of Journal: *World Journal of Orthopedics*

Manuscript NO: 55414

Manuscript Type: MINIREVIEWS

Radiographic evaluation of vascularity in scaphoid nonunions: A review

Cheema HS *et al.* Vascularity in scaphoid nonunions

Hena S Cheema, Adnan N Cheema

Abstract

Scaphoid fractures, particularly those that occur more proximally, are unreliable in achieving union due to the retrograde blood supply of the scaphoid bone. Vascular compromise is associated with the development of nonunions and avascular necrosis of the proximal pole. Due to the tenuous blood supply of the scaphoid, it is imperative that the vascularity be assessed when creating diagnostic and treatment strategies. Early detection of vascular compromise via imaging may signal impending nonunion and



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Incorrect radiographic evaluation after vascularized bone grafting for scaphoid fracture or nonunion. Can J Plast surg 2011;19(1):e6-e9. PuRPOSE: The present study is a review of patients with scaphoid non-unions treated with a dorsal vascularized bone graft. The study highlights a subset of patients incorrectly diagnosed as graft failures.

Author: Paul Morin, Rudy Reindl, Gregory K B... Publish Year: 2011

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A retrospective review of patients who received vascularized grafts for scaphoid nonunions was performed over a four-year period; the patients were from a single surgeon's practice. A minimum two-year clinical follow-up was implemented.

Author: Paul Morin, Rudy Reindl, Gregory K B... Publish Year: 2011

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During the last few years, several types of vascularized bone grafts have been described for the treatment of scaphoid nonunions reporting rates of union often higher than 90%. The goal of this study was to evaluate the results, complications and failures of Kuhlmann's vascularized bone graft. Thirt ...

Cited by: 13 Author: M. Jessu, G. Wavreille, G. Strouk, C. Fo...

Publish Year: 2008

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A retrospective review of patients who received vascularized grafts for scaphoid nonunions was performed over a four-year period. The vascularized graft of choice for this group was the dorsal ...

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Unstable and proximal scaphoid nonunions have been associated with decreased rates of bony healing after nonvascularized bone-grafting procedures. 3, 17, 18 One of the main problems is the vascular impairment of the proximal segment of the scaphoid. 11, 19 Green 20 reported a union rate of 0% if there

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Author: Patrick Jaminet, Marilena Götz, Phillipp ... **Publish Year:** 2019

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Nov 16, 2014 · The purpose of this study was to correlate the pre-operative imaging, **vascularity** of the proximal pole, and histology of the proximal pole bone of established **scaphoid** fracture non-union. This was a prospective non-controlled experimental study. Patients were evaluated pre-operatively for necrosis of the proximal **scaphoid** fragment by radiography, computed tomography (CT) and magnetic ...

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Publish Year: 2015

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