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Are gap and cast indices predictors of efficacy of reduction in fractures of both bones of the leg? A cohort study

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Non-operative management has successfully been practiced for long in diaphyseal fractures of both bones of the leg. This study attempts to establish acceptability criteria for plaster cast in order to predict future loss of reduction and its adequacy.

Clinical Practice:

A total of forty subjects were included as per inclusion-exclusion criteria. Gap and cast indices were calculated in the immediate post reduction phase and at third week follow-up visit. The mean values of gap and cast indices in the immediate post-reduction phase were 0.35 ± 0.220 and 0.99 ± 0.08 respectively and at the third week follow-up the mean value for both the parameters in those without loss of reduction were 1.11 ± 0.50 and 1.03 ± 0.09 respectively and in those with loss of reduction were 0.84 ± 0.44 and 1.01 ± 0.06 respectively.

Conclusion:

Gap and cast indices are not informative in assessing adequacy of reduction in diaphyseal fractures of both bones of the leg.

Biography

Vineet Kumar is faculty in [Orthopedic Surgery](#) at Dr. RML Institute of Medical Sciences, Lucknow, India. He has an MS in Orthopedic Surgery from King Georges Medical University. He is a member of National Academy of Medical Sciences, AO Trauma and AO Spine society. He has special interest in spine and trauma and has been a part of organization in young surgeon's forum of Asia Pacific Orthopedic Association-India Chapter.

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