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Influence of Displaced Clavicle Fracture toward Scapular Motion

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Abstract

Displaced clavicle fracture can result in varying degrees of scapular motion and potentially to be winged scapula, which in the end of its journey will cause axioscapular dull-ache pain, which is often undiagnosed. The purpose of this study was to analyze the influence of clavicle fracture in different locations and its impact on the motion of scapula horizontally and vertically by measuring axioscapular distance. The inclusion criteria were patients suffering from closed displaced clavicle fracture. Motion of the scapula was observed radiologically. Statistical analysis using Chi-square test was performed. We may conclude that the lateral fracture of clavicle may have superior migration of the scapula and greater distance horizontally.

Subject Areas

Orthopedics

Keywords

Axioscapular Muscle, Dull-Ache Pain, Displaced Clavicle Fracture

1. Introduction

Stability of the scapulothoracic joint depends on coordinated activity of the surrounding musculature. When weakness or dysfunction of the scapular musculature is present, normal scapular positioning and mechanics may become altered [1] [2]. Abnormal motion of the scapula has variety of etiologies, and there are a number of case reports describing this condition following the non-operative treatment of displaced diaphysis fractures of the clavicle [3]. Clavicle fracture is one of the fractures which frequently occurs around 10% - 15% of all fractures and generally in active younger individual, the incidence rate of diaphysis fractures is 80% of all fracture [4] [5] [6].