

Understanding Tennis Elbow: Causes, Symptoms, and Effective Treatments

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Abstract

Tennis elbow (lateral epicondylitis) is a common condition characterized by pain and inflammation on the outer part of the elbow, typically caused by repetitive motion or overuse of the forearm muscles. While often associated with tennis players, the condition can affect anyone who engages in activities requiring repetitive arm motion. This article explores the causes, symptoms, and available treatment options for tennis elbow, focusing on both conservative and surgical methods. Through a review of recent

Tennis elbow, or lateral epicondylitis, is a common musculoskeletal disorder that affects the tendons on the outside of the elbow [1]. It occurs due to the overuse or repetitive strain of the forearm muscles, particularly the extensor tendons that attach to the lateral epicondyle of the humerus. Although tennis elbow is most frequently seen in athletes, particularly tennis players, it can also affect people involved in a wide variety of manual labor or repetitive activities. The condition causes significant pain, reduced mobility, and loss of function in the affected arm, which can be debilitating for both professional athletes and non-athletes alike [2]. This paper will review the pathophysiology [3], risk factors, clinical symptoms, and treatment strategies for tennis elbow, with the goal of offering a comprehensive understanding for those dealing with this common injury.

Materials and Methods

A systematic review of recent literature was conducted to assess the causes, symptoms, and treatment options for tennis elbow [4-6]. Peer-reviewed journals, clinical studies, and expert opinions published between 2010 and 2023 were included in the analysis. Data were obtained from online databases, including PubMed, Google Scholar, and Cochrane Library. The following criteria were used to select articles for review: Studies that focused on the pathophysiology, clinical diagnosis, or treatment of tennis elbow. Clinical trials or observational studies that reported outcomes for conservative or surgical treatments. Case studies and reviews involving rehabilitation strategies or preventive measures for tennis elbow. The data from these studies were then analyzed to identify common trends in treatment efficacy, recovery times, and the most effective management strategies [7].

Results and Discussion

Tennis elbow primarily results from overuse and repetitive strain on the forearm muscles, particularly the extensor carpi radialis brevis tendon. Activities such as tennis, weightlifting, painting, plumbing, and any repetitive gripping actions can increase the risk of developing the condition [8]. Age, gender, and occupation also play significant roles in susceptibility. Studies show that individuals aged 30–50 are more likely to develop tennis elbow, with men and women affected equally. The hallmark symptom of tennis elbow is pain and tenderness on the lateral side of the elbow, which may radiate down the forearm. The pain is

Conclusion

Tennis elbow is a prevalent condition that affects individuals from various backgrounds, causing pain, discomfort, and functional impairment. Early diagnosis and appropriate treatment are crucial for

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in reducing the risk of recurrence. Continued research is essential to better understand the underlying mechanisms of the condition and to refine treatment protocols.

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Interest of Conflict

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