

Practical guide to joint and soft tissue injection techniques

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Figure 1. The authors encourage a medial approach to injection of the knee joint; a combination of 40mg triamcinolone acetonide and 4ml lidocaine is recommended

Musculoskeletal conditions account for a vast number of attendances in primary care. Treatment of these problems involves a number of therapeutic options, including intra-articular aspiration and injection.

Joint injections were first attempted in the 1920s, using substances such as lactic acid or petroleum jelly. It was not until the early 1950s that intra-articular injections of steroids was introduced and shown to be helpful.^{1,2} They are now the most frequently performed procedure in rheumatological practice.³

Indications

Joint injection

The primary indication for joint injection is inflammatory arthritis⁴ (eg rheumatoid arthritis, spondylarthropathies). Many patients will experience prolonged improve-

ment – up to six months – from a single joint injection. The longer-term benefits of intra-articular steroids have been less well defined. There is limited evidence that supports their role in reducing synovial inflammation and destruction, and no evidence suggesting that they cause adverse effects on the joint when given in appropriate doses at not more than three or four times per year.^{1,2}

Osteoarthritis (OA) is a weaker indication for steroid injection – a single trial has shown no benefit of intra-articular steroids over saline, although other studies have been more optimistic.⁵ However, in practice, many rheumatologists use intra-articular steroids for OA with apparent success.

Soft tissue injection

There are many soft tissue injections that are regularly performed

Steroid injections are a key tool in the management of musculoskeletal conditions and are now the most frequently performed procedure in rheumatological practice. Here, the authors illustrate the correct technique for administering these injections and highlight some of the points to consider.

for the treatment of localised inflammation. These include trochanteric bursitis, flexor tenosynovitis, medial or lateral epicondylitis, and carpal tunnel syndrome.

Joint aspiration

The usual indication for joint aspiration is to evaluate an acutely swollen and inflamed ('hot') joint. Synovial fluid analysis allows differentiation between crystal arthropathy and sepsis. There is also some evidence to support the routine aspiration of joints prior to steroid injection to improve efficacy.⁶

Type of agent to use (see Table 1)

Should lidocaine be mixed with the steroid?

Many rheumatologists will mix some local anaesthetic with their steroid preparation for injection.

Aspiration Guide Injection Joint Practical Soft Tissue

Stephanie Saunders, Steve Longworth



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