

SYSTEMATIC REVIEW OF ADVERSE EFFECTS BY INTRA-ARTICULAR CORTICOSTEROID TREATMENT OF ARTHRITIS

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Aim

Systematic review of adverse effects by intraarticular corticosteroid injection (IACI) in patients with arthritis, especially degradation of temporomandibular joint (TMJ) cartilage and bone tissue.

Materials and Methods

The PRISMA harms checklist was followed including a literature search in PubMed, Cochrane and Scopus. Original treatment studies including human subjects, written in English or Swedish and intervention by IACI to treat arthritis were included. The quality of harm assessment and reporting was evaluated and applied.

Results

The search identified 583 original articles of which 21 were included and underwent quality assessment.

Four of the included studies (19%) were found to have a satisfactory quality score.

Conclusion

This systematic review did not reveal convincing evidence that treatment of arthritis by intra-articular corticoid injection is associated with cartilage or bone tissue destruction of the joint, in the TMJ or elsewhere, based on studies with high quality of assessment and reporting of harms.