

Title:

C1-2 fusion for facet arthritis

Background:

A collection of studies has been published regarding patients with AAOA who have undergone surgical management. However, a large proportion of older papers published usually involved much smaller sample sizes of patients receiving surgery for AAOA. It has been previously noted that the current research on AAOA is limited, especially focusing on functional outcomes. This study intends to supplement the existing literature and compare its outcomes to current data.

Research Question:

Is C1-2 fusion surgery as an effective treatment for reducing pain and disability in atlantoaxial osteoarthritis (AAOA) patients?

Methods:

Data was prospectively collected from a consecutive series of patients, operated between 2007 and 2022 by a single surgeon. Patients were required to fill out a Neck Disability Index (NDI), Visual Analogue Scale (VAS) for pain, and Roland-Morris Neck Pain & Disability Score (RMNPDS) prior to their surgery. CT was also performed pre-operatively as well as 6 months after surgery.

Outcomes and follow-up were retrospectively collected with the patient filling out a post-surgery NDI, VAS and RMNPDS over the phone. 2 patients had returned for unrelated issues and completed follow-up prior to data collection. Data was analysed by an independent statistician.

22 patients were identified as eligible for the study. 2 were lost to follow-up.

Results:

The data demonstrates a significant improvement in pain and disability. The full results will be presented at the conference.

Discussion:

The full discussion will be shown at the oral presentation, should the abstract be accepted.