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Incidence of knee arthroscopy in patients over 60 years of age in Scotland[☆]

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ARTICLE INFO

Article history:

Received 30 November 2009

Accepted 30 November 2009

Keywords:

Knee arthroplasty

Knee arthroscopy

Osteoarthritis

Epidemiology

ABSTRACT

Arthroscopy has been utilised in the management of knee osteoarthritis for over 70 years but in recent years there has been growing debate about the efficacy of such treatment. We reviewed data from a national register, the Scottish Arthroplasty Project. We analysed 8897 knee arthroscopies performed in patients aged over 60 in Scotland between 1997 and 2006. Marked regional differences were noted for the rate of arthroscopy, with an upper rate of 230 arthroscopies per 100,000 age corrected population and a low of 80 per 100,000. No apparent reasons could be identified for this disparity. Regions with the highest rate of arthroscopy also had the highest rate of conversion to knee arthroplasty within 2 years, indicating a high level of ineffective and inappropriate arthroscopic surgery being performed in many areas of Scotland.

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Introduction

Although arthroscopy has been used therapeutically in osteoarthritis for over seventy years, the evidence for its utility is lacking. The sole level one trial investigating its use¹ found that there was no benefit above placebo at any point up to two years postoperatively. It is likely, however, that there is a small subset of patients with knee osteoarthritis who may obtain lasting benefit from arthroscopy and recommendations have been made to allow identification of these patients preoperatively. Such patients tend to be younger,⁸ have mechanical symptoms⁹ and short duration of symptoms,¹⁰ with preserved joint space¹¹ and no mechanical axis malalignment¹² (Table 3). Patients not matching these criteria are unlikely to obtain

lasting benefit from the procedure. If these recommendations were being followed nationally, then there should be little variation in the rate of arthroscopy in the over 60 age group across the various regions of Scotland and, moreover, there should be a uniformly low rate of progression to arthroplasty.

The Scottish Arthroplasty Project (SAP)² is a national register which was set up in 1999 under the auspices of the Scottish Committee for Orthopaedics and Trauma (SCOT). It was set up in order improve quality of care in arthroplasty by improving feedback to surgeons by use of accurate data and by providing analysis of national trends in arthroplasty. It records the incidence of arthroplasty and its complications in Scotland. The register acquires data by the submission of SMR 01 (Scottish Morbidity Record) forms by the trusts within three

[☆] No financial support has been received for the preparation of this paper.

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doi:10.1016/j.surge.2009.11.010

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