

# Efek Artroplasti Distraksi pada sendi lutut dengan Osteoarthritis terhadap Kartilago Artikular : penelitian pada kambing = Effect of Distraction Arthroplasty on Osteoarthritic Knees towards the Articular Cartilage : a study on goats / Rizki Notario Haryanto Putro

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## Abstrak

### **ABSTRAK**

Osteoarthritis (OA) adalah kelainan sendi lutut degeneratif tersering. Artroplasti distraksi adalah sebuah alternatif tata laksana OA. Penelitian dilakukan pada 32 lutut kambing diinduksi secara mekanis menjadi OA dengan menisektomi lateral. Dalam penelitian 6 kambing mati. Arthroplasti distraksi dilaksanakan pada 10 lutut selama 4 minggu, dan 10 lutut kontralateral dibiarkan, kemudian diperiksa anatomi dan histopatologinya. Terdapat perburukan anatomis dan histopatologis pada lutut yang diberikan perlakuan. Perbandingan anatomis menggunakan staging ICRS berbeda bermakna ( $p < 0,002$ ) dan histopatologis menggunakan scoring OARSI berbeda bermakna ( $p < 0,002$ ). Arthroplasti distraksi masih memerlukan penelitian lebih lanjut pada hewan coba sebelum dapat diterapkan ke uji klinis kepada manusia.

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Osteoarthritis (OA) is the most common knee degenerative disease. Distraction arthroplasty is a an alternatif for OA management. On this study 32 goat stifle joints were mechanically induced to OA by lateral meniscectomy. During research 6 goats were deceased. Distraction arthroplasty was performed on 10 joints for 4 weeks, contralateral knees left untreated. Cartilage were anatomically and histopathologically examined. There was worsening on treated joints. The anatomical difference assessed using ICRS stage was significant ( $p < 0,002$ ) and the histopathological difference assessed using OARSI scoring was significant ( $p < 0,002$ ). Therefore distraction arthroplasty requires more animal research before human studies.