

## The Outcomes of Medial Mobile Bearing Oxford Unicompartmental Knee Replacement in a University Teaching Hospital in Malaysia – 10-year Follow – Up

<sup>1</sup>Tajuddin NS; <sup>2</sup>Ayob KA; <sup>3</sup>Merican AM; <sup>4</sup>Abbas AA; <sup>5</sup>Hashim MS; <sup>6</sup>Omar Z; <sup>7</sup>Selvaratnam V

<sup>1</sup>Joint Reconstruction Unit, National Orthopaedic Centre of Excellence for Research and Learning (NOCERAL), Department of Orthopaedic Surgery, Faculty of Medicine, University Malaya, Kuala Lumpur, 50603, Malaysia.

### INTRODUCTION:

Medial unicompartmental knee replacement (UKR) is performed in patients who have isolated medial compartment osteoarthritis (OA). There is no long-term follow-up data in the Malaysian population for this procedure. The aim of this study was to report the outcomes of medial UKR in a University Teaching Hospital in Malaysia.

### METHODS:

This was a retrospective study with prospectively collected data of all patients who underwent UKR between 2012-2022. Data collected were demographics, any further unplanned surgery, complications, revision, and Oxford Knee Scores (OKS).

### RESULTS AND DISCUSSIONS:

There were 75 UKRs performed in 62 patients between 2012 and 2022. There were 48 (8 bilateral) females and 14 (5 bilateral) males with a mean age of 66.5 (range, 56-87) years. Mean follow up was 65.7 (range, 131 – 8) months. Only one patient needed a revision to a Total Knee Replacement. This was due to instability. No patients had any surgical site infection, venous thromboembolism (VTE) disease or any further unplanned surgery post index UKR. The mean pre – operative OKS was 17.5 (range, 14 – 21) and the mean post – operative OKS was 44 (range, 24 – 48). At final follow-up 19 (25%) knees still had some residual pain at their final follow-up. Out of this only three knees (4%) had moderate to severe pain while the rest only had mild nonspecific symptoms.

Table 1 showing the mean pre-operative and post-operative Oxford Knee Score (OKS)

OKS	Mean
Pre-operative	17.5
Post-operative	44

### CONCLUSION:

Mobile Bearing Oxford UKR is a viable option in the Malaysian population. It has a low revision rate with high satisfaction and patient reported outcome scores.

### REFERENCES:

1. Alexiades, M. M., Boettner, F., & Pearle, A. D. (2022, March). *Partial Knee Replacement: A Treatment Option in Unicompartmental Knee Arthritis*. Hospital for Special Surgery. [https://www.hss.edu/conditions\\_partial-knee-replacement.asp](https://www.hss.edu/conditions_partial-knee-replacement.asp)
2. Luo, D. T., & Hubbard, J. B. (2022). *Arthroplasty Knee Unicompartmental*. *National Library of Medicine*. <https://www.ncbi.nlm.nih.gov/books/NBK538267/>
3. Medici Medical Practice. (n.d.). *Oxford Knee Score*. National Health Service (NHS).