

## Early Results of Lateral Unicompartmental Knee Replacements: A Comparison of Fixed and Mobile Bearing Prosthesis

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### Summary:

Clinical outcome of lateral unicompartmental knee replacement using a fixed bearing implant and a mobile bearing implant.

### Abstract:

#### Objectives:

To evaluate the clinical outcome and complication rates between the use of fixed bearing (Zimmer) and domed (Phase III Oxford (Biomet)) lateral unicompartmental knee replacements

#### Patients and Methods:

All lateral unicompartmental knee replacements were evaluated with a minimum follow up period of 12 months. Patients completed a subjective score from 0-10 and an Oxford knee score

#### Results:

27 lateral unicompartmental knee replacements were performed from October 2007-August 2011. Mean follow up is 34 (SD 18) months. Oxford Knee Scores and satisfaction scores were collected from 22 patients (82%). Of the 12 domed procedures, 2 required a further procedure (1 patient dislocated the bearing requiring a revision and 1 patient required a manipulation under anaesthetic). In the 15 fixed bearing procedures, 1 patient, who is on warfarin required aspiration for a haemarthrosis. 1 patient is been currently investigated for unexplained pain. The average Oxford Knee Score was 37 (SD 11) for the patients receiving a domed knee with a mean satisfaction score of 7.8 (SD 2.3). The average Oxford Knee Score was 29 (SD 15) for the fixed bearing knees with a mean satisfaction score of 7.0 (SD 4.3).

#### Discussion:

The domed prosthesis showed marginally better functional results however this was not statistically significant ( $P>0.05$ ). The domed design is known to predispose to dislocation; in our series we had one dislocation and which is sufficient to suggest exercising caution. Overstuffing the replacing tibio-femoral compartment is another problem which should be watched for in any unicompartment knee replacement surgery.