

Treatment of Isolated Patellofemoral Osteoarthritis with Patellofemoral Arthroplasty: A Case Series

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INTRODUCTION:

The indications for patellofemoral arthroplasty (PFA) are specific. It is uncommonly done as many surgeons prefer to perform total knee replacements in such cases. We report the outcome of patients who underwent this procedure at our centre.

METHODS:

Patients who had undergone PFA for isolated patellofemoral arthritis at our centre were identified and interviewed. Assessment was performed using the Oxford Knee Score (OKS) and Hospital for Special Surgery Score (HSS).

RESULTS:

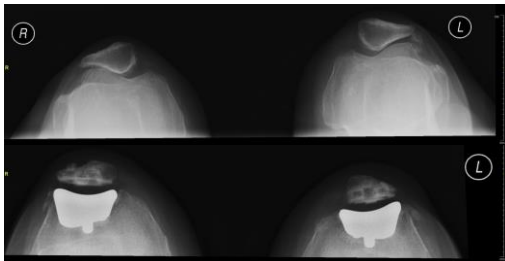


Figure 1 showing the skyline radiograph of a patient with PFA with the top showing before and lower showing post-surgery



Figure 2 showing the anterior posterior x-ray of a patient with PFA with the left showing before and right showing post-surgery

Table 1 summarizes patient demographics and outcome scoring.

DISCUSSIONS:

PFA five-year survival rate is 95.8%¹. The literature shows that 20% of arthroplasty converted to total knee replacement but only after mean years of 15.6 years. Nonetheless, these results vary with different implants and centers.

In our case series, all patients were satisfied with the surgery. Although residual symptoms were present post-operatively, these patients were able to improve their function. However, long term follow-up is essential for further evaluation.

CONCLUSION:

Specific patient selection and surgical expertise of PFA is required for successful outcome.

REFERENCES:

- Ackroyd, C. E., Newman, J. H., Evans, R., Eldridge, J. D. J., & Joslin, C. C. (2007). The Avon patellofemoral arthroplasty: five-year survivorship and functional results. *Bone & Joint Journal*, 89(3), 310-315.

Patient	Age	Gender	Knee Involved	Duration from Surgery	Oxford Knee Score	Hospital for Special Surgery score	Residual symptoms
A	60	Female	Right	12 months	30 (moderate)	50 (Fair)	Present
B	54	Female	Right	10 months	32 (moderate)	65 (Fair)	Present
C	54	Female	Right Left	9 months	40 (Mild) 40 (Mild)	65 (Fair) 65 (Fair)	Present

Table 1. Demographic data and outcome scores