

Getting A Patient Back “In The Game” with *KineMatch*® Patient-Matched Patellofemoral Replacement (PFR)

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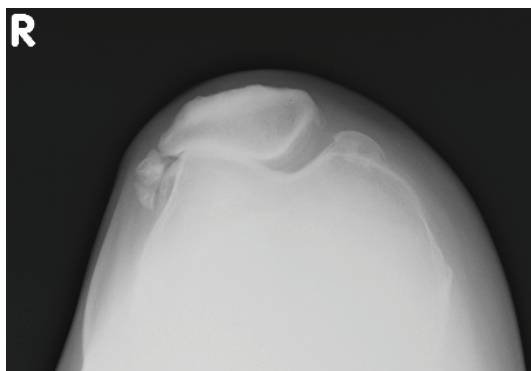


An active, athletic 67 year old male presented with bilateral anterior knee pain and grinding under his knee caps during flexion and extension. An avid golfer, he reported significant difficulties bending down to place a tee and when reading his putts. Previous conservative treatment measures (activity modification, physical therapy, NSAIDS, and bilateral knee viscosupplementation injections) had proven ineffective.

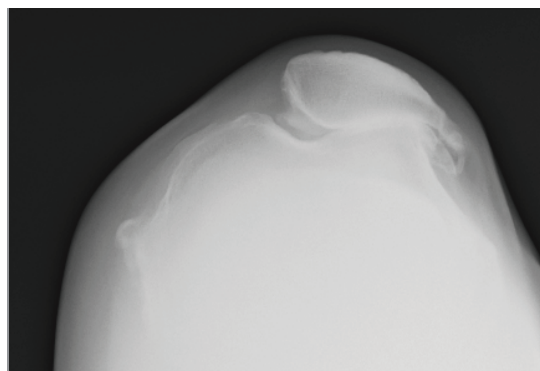
The physical exam revealed severe retropatellar crepitation with a range of motion of 0-135 degrees bilaterally and pain at terminal flexion. Patellofemoral compression tests were positive bilaterally, and his medial and lateral joint lines were nontender.

Radiographs showed advanced bilateral patellofemoral degenerative osteoarthritis with PF joint space narrowing, osteophyte formation, subchondral sclerosis, lateral patella tilt and lateral patella tracking. Joint spaces in his medial and lateral compartments were preserved.

Bilateral CT-based KineMatch patellofemoral replacements were ordered and simultaneous bilateral PFR surgery was conducted in the hospital (due to Medicare insurance) in December 2014.



Pre-operative Sunrise view of right knee



Pre-operative Sunrise view of left knee



Pre-operative AP View

(continued on back)

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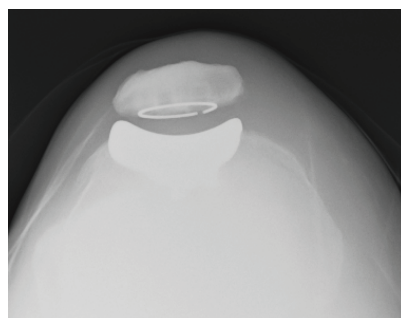
Intra-operative findings confirmed severe bilateral PF osteoarthritis with bone on bone articulation and osteophyte formation in the patellofemoral compartment. The medial and lateral compartments were well preserved. Surgery was uncomplicated and total operative time for completing both knees was 85 minutes. The patient was discharged home on POD 1. The patient was able to return to golf at 6 weeks post-op. Recovery was uneventful except for some mild right anterolateral knee pain at 16 weeks post-op that was related to quadriceps atrophy and delayed return of quadriceps strength. This pain resolved with further outpatient physical therapy.

On a recent phone interview at more than five years post-op, the patient has no knee pain and is “delighted” with his outcome. He currently works as a Marshall at a golf course and is able to play regularly. He can bend down to read putts and place his tee with no pain or grinding.

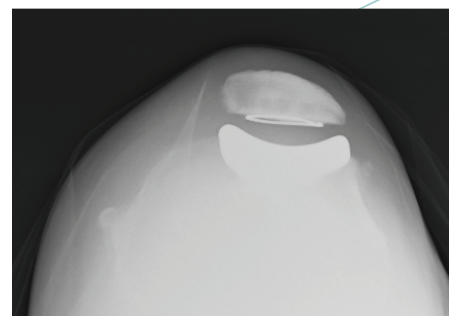
I began using the KineMatch PFR in 2011 and have performed over 90 cases to date. I have found this device to be an excellent solution for patients with isolated end-stage patello-femoral disease.



Post-Operative AP view



Right Knee Sunrise View



Left Knee Sunrise View

*Top - Left Knee Lateral View
Bottom - Right Knee Lateral View*

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