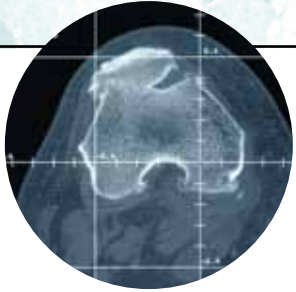


KineMatch® PFR

Custom-Fit Patello-Femoral Replacement

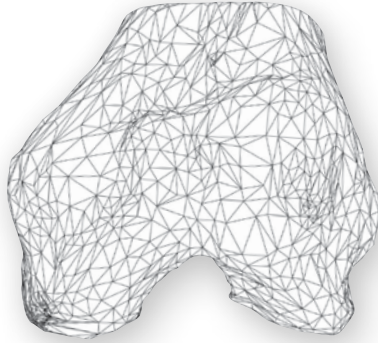


Simple Solution. Proven Results.

As Easy As...

1. CT Scan

2. Virtual Model of Patient Anatomy



3. Implant & Drill-Guide custom-made for patient anatomy

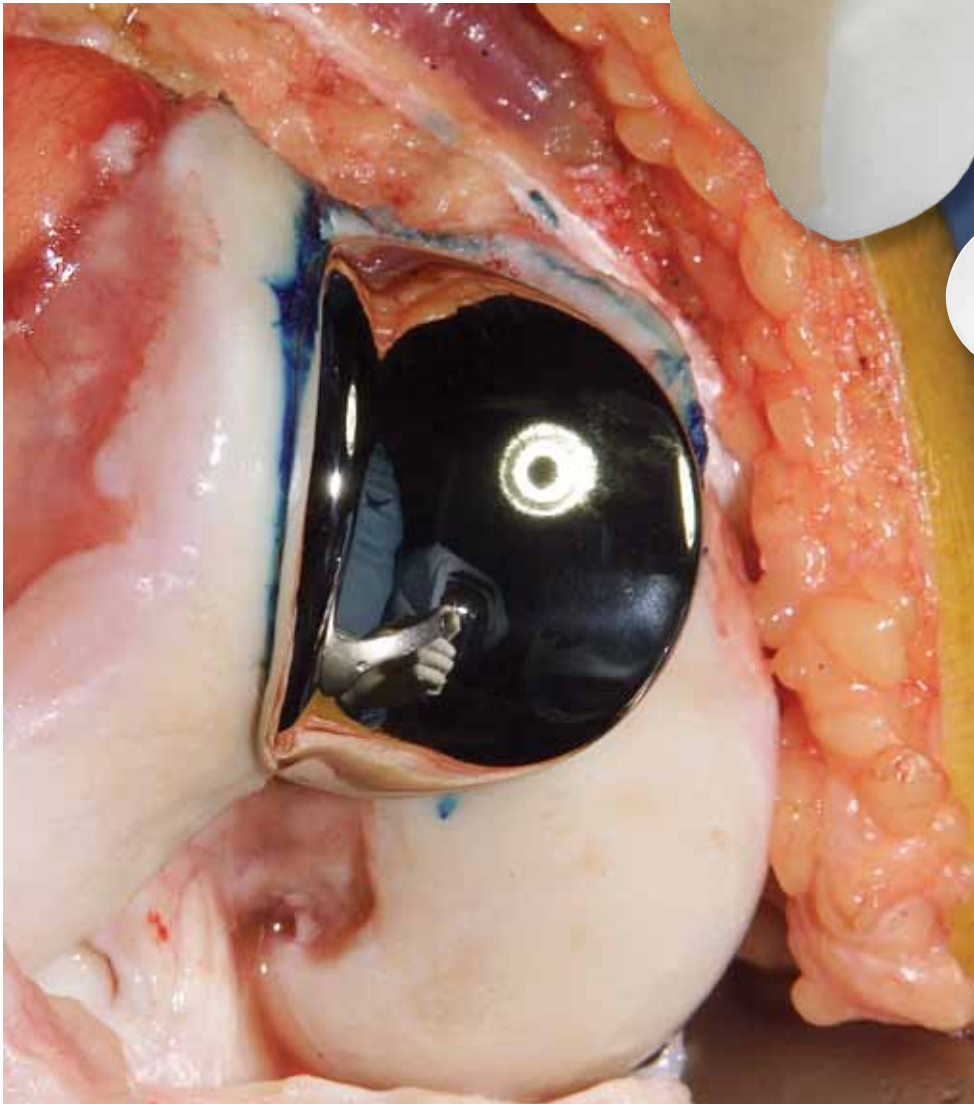
Superb Clinical Results^{4,7,8}

No Resection of Femoral Bone

Simple and Fast Surgical Technique⁵

Reduced Post-Operative Morbidity³

CT-Based to Match Patient Anatomy



KINAMED
INCORPORATED

Expect Innovation.

A technology you and your patients will appreciate



Custom CT-based drill template

In addition to the CT-based implant and drill template, a CT bone model is provided for each case to confirm the design and plan for osteophyte removal when required.

KineMatch® Custom-Fit Patello-Femoral Replacement (PFR)

Designed specifically for the small but challenging group of patients with isolated, end-stage patello-femoral disease, the **KineMatch** PFR offers a uniquely effective and conservative resurfacing solution. Because the device is precisely manufactured to fit the patient's anatomy using CT data, no resection of femoral bone is required, thus preserving bone stock for the future. The design of the front (articulating) and back (bone fitting) sides of the implant are "decoupled" so that optimization of an intimate, bone-sparing fit, as well as proper kinematics and control of patella tracking, can be achieved. Overstuffing is avoided¹ with a deep groove that accommodates the patella, while thicker medial and lateral margins provide stability.² The patellar groove can be rebuilt, even in a patient with a relatively "flat" trochlea.¹ The **KineMatch** all poly patella is used in conjunction with the Custom-Fit **KineMatch** femoral component.

The **KineMatch** device is implanted in a simple and reliable surgical procedure with minimal joint disruption.⁵ A custom-fit drill template, having the same exact femoral trochlea fit and perimeter shape as the actual implant, is provided for each case. The custom template is used to mark the implant margin for cartilage removal and then to guide drilling of the femoral component peg holes. The CoCr femoral and UHMWPe patella implants are fixed using bone cement.

Because the **KineMatch** surgery involves very little bone resection and avoids violation of the intramedullary space, this device is particularly well suited to an "episode of care" reimbursement model because post-operative pain, morbidity and rehab are often significantly reduced as compared to treatment with either standard PFR devices or TKA.³

Benefits of KineMatch Custom-Fit PFR

- Addresses intractable patello-femoral disease when other treatment options have failed.
- Accurate, fast and reliable femoral component placement.
- Replicates normal kinematics by re-establishing the patient's trochlear groove alignment and depth, which in turn maintains proper patella offset for efficient quadriceps function.
- Eliminates femoral bone resection by utilizing CT modeling technology to achieve a custom fit to the patient's femoral anatomy for both the drill guide and implant.
- Reduces problems of soft tissue impingement often seen with "off-the-shelf" patello-femoral implant designs due to their improper fit.
- May reduce post-operative pain, morbidity and physical therapy requirements as compared to alternate treatment options.

Clinically Proven Results

The *KineMatch* device has achieved unparalleled clinical results. In 25 consecutive implantations in 22 patients (3 bilateral), with a mean 73 month (32-119 mo.) follow-up, all implants were in place and functioning well. Using the Knee Society scoring system, there were 18 excellent and 7 good results with a mean functional score of 89 points and mean objective score of 91 points. No patients required additional surgery.⁴ At an average of 11.3 years, all 25 implants were still in place and all patients reported being 'Very Satisfied'.⁸

1. Grelsamer R, Cavallaro BS (2014) Does the Kinematch Prosthesis Impair Knee Flexion in Patients with Trochlear Dysplasia? *Reconstructive Review* 4: 42-45.
2. Lombardi AV (2011) Patellofemoral Arthroplasty: Custom Inlay Technique Offers A Patient Specific Approach. Presented at the Annual Meeting of the AAOS.
3. Arendt EA et al (2011) Patellofemoral Arthritis. Presented at the ISAKOS Biennial Meeting. Brazil.
4. Sisto DJ, Sarin VK (2006) Custom Patellofemoral Arthroplasty of the Knee. *J Bone Joint Surg.* 88-A: 1475-1480.
5. Sisto DJ, Sarin VK (2007) Custom Patellofemoral Arthroplasty of the Knee: surgical technique. *J Bone Joint Surg.* 89 (Suppl 2, Part 2): 214-25.
6. Sisto DJ, Sarin VK (2008) Patellofemoral Arthroplasty with a Customized Trochlear Prosthesis. *Orthop Clin N Am.* 39: 355-36.
7. Sisto DJ, Grelsamer RP, Sarin VK (2012) Patient-Specific Patellofemoral Arthroplasty. In: *Recent Advances in Hip and Knee Arthroplasty*, Edited by S.K. Fokter. InTech Publishing. Rijeka, Croatia.
8. Sisto DJ, Sarin VK (2011) Custom Patello-femoral Arthroplasty of the Knee: An Eleven Year Follow-Up. Presented at the Orthopaedic Research Society Annual Meeting. Long Beach, CA.

Endorsed by Leading Surgeons

"I have been performing KineMatch custom-fit patello-femoral arthroplasty since 2007. I am very pleased with the rapid pain relief, quick return of range of motion and function, as well as the short operative time and learning curve."

*Ronald P. Grelsamer, M.D.
Chief of Patello-Femoral Reconstruction
Mount Sinai Medical Center, New York, NY*

Dr. Grelsamer has not received compensation from Kinamed.

"This patient specific design and manufacturing technique ensures accurate and precise anatomic fit while simultaneously providing proper patellofemoral alignment and medial lateral constraint."²

*Adolph V. Lombardi, Jr., MD, FACS
Joint Implant Surgeons, Inc
New Albany, Ohio*

Dr. Lombardi has not received compensation from Kinamed.

"The KineMatch device has offered a remarkable benefit and return to function for a number of my patients with intractable patello-femoral disease who were otherwise facing the prospect of TKR."

*Domenick J. Sisto, MD
Sherman Oaks, California*

Dr. Sisto has not received compensation from Kinamed.

KineMatch® Custom-Fit Patello-Femoral Replacement (PFR) System

Description

Catalog No.

Custom-Fit PFR Implants

KineMatch PFR Femoral Implant, Left	22-100-1001
KineMatch PFR Femoral Implant, Right	22-100-1002

Patella Implants (Dome, Tri-Peg)

	Diameter (mm)	Thickness (mm)	
Patella Implant, Size 1	30	8	20-420-0101
Patella Implant, Size 2	33	9	20-420-0102
Patella Implant, Size 3	36	10	20-420-0103
Patella Implant, Size 4	39	11	20-420-0104

KineMatch Patient-Matched Instrumentation

KineMatch Custom PFR Drill Guide, Left	22-800-2004
KineMatch Custom PFR Drill Guide, Right	22-800-2005

Optional KineMatch Patient-Matched Instrumentation

KineMatch Custom Autoclavable Bone Model, Right	CUSTOM 260
KineMatch Custom Autoclavable Bone Model, Left	CUSTOM 261

Trochlea Stop Drill, 8mm	22-800-2001
Trochlea Drill Guide Stabilization Pin	22-800-2002
Trochlea Impactor	22-800-2003
Trochlea Fixation Nail Pilot Drill	22-800-2007
Trochlea Drill Guide Fixation Nail	22-800-2008
Trochlea Pin Puller	22-800-2009
Trochlea Ring Curette, 8mm	22-800-2010
Trochlea Ring Curette, 12mm	22-800-2012
Trochlea Nail Extractor	22-800-2011
Patella Stop Drill, 6mm	22-800-3003
Patella Sizer and Drill Guide, 30/33mm	22-800-3017
Patella Sizer and Drill Guide, 36/39mm	22-800-3018
Patella Resection Guide	22-800-3019
Patella Parallel Action Clamp	22-800-3020
Patella Drill Guide for Parallel Action Clamp	22-800-3021
Patella Sizing Rings (3): 33mm, 36mm, 39mm	22-800-3022, -3, -4
Patella Cushion Collar for Parallel Action Clamp	22-800-3025
Patella Cushion for Parallel Action Clamp	22-800-3026
Patella Caliper, Pinch	22-800-3027
Patella Trials (4): 30mm, 33mm, 36mm, 39mm	22-800-4001, -2, -3, -4
Instrument Tray (Autoclave Case)	22-800-1020



Expect Innovation.

For more information:

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