



**MISHA KNEE SYSTEM
PATIENT SELECTION**

TABLE OF CONTENTS

3	Indications for Use
4	Typical MISHA Patient
5	MISHA Patient Subgroups
6	Patient Outcomes
7	Case Examples - Typical MISHA Patient
10	Case Examples - Meniscus Tear or Prior Meniscus Surgery
14	Case Examples - Bipolar Cartilage Defects
18	Case Examples - Varus Deformity
21	Case Examples - Root Tears

This resource is for surgeons who may be considering the MOVE to MISHA. All of the examples in this document describe patients who met inclusion and exclusion criteria and were enrolled in the Calypso Study. They are representative of patients who meet the indication for treatment with the MISHA Knee System.

INDICATIONS FOR USE

The MISHA Knee System is indicated for patients with medial compartment knee osteoarthritis that have failed to find relief in surgical and/or non-surgical treatment modalities and are still experiencing pain that interferes with activities of daily living and are also unwilling to undergo or ineligible for total knee replacement due to age or absence of advanced osteoarthritis.

CONTRAINDICATIONS

The MISHA Knee System is contraindicated for use in any patient with

- large medial osteophyte(s) or considerable extruded meniscus that may interfere with the placement or function of the device
- poor bone quality e.g., osteopenia, osteoporosis
- ligamentous instability
- active or recent knee infection
- inflammatory joint disease, including sequelae of viral infections
- suspected or documented allergy or hypersensitivity to cobalt, chromium, nickel or other metals
- history of keloid, hypertrophic or contracture scarring
- propensity for restrictive scar formation or adhesions with prior procedures (may lead to stiffness and adhesions leading to removal)
- known or suspected rapidly destructive OA (RDO)
- complex regional pain syndrome or reflex sympathetic dystrophy (RSD)
- body dysmorphic disorder characterized by a preoccupation with appearance
- history of intolerance or dissatisfaction with prior orthopaedic hardware implant procedures
- any other reason the physician deems the product or procedure inappropriate for a patient

CHARACTERISTICS CONSIDERED POSITIVE FOR PATIENT SELECTION INCLUDE:

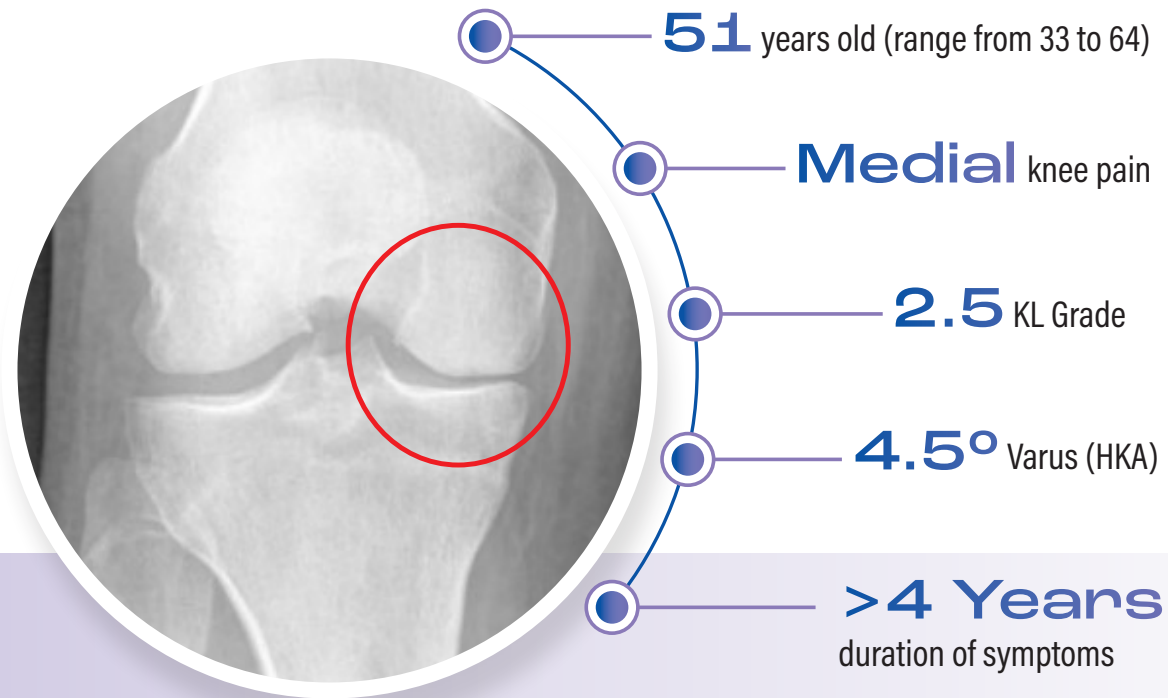
- Activity exacerbated knee pain isolated to medial compartment and not global in nature that is nonresponsive to non-surgical management options.
- An understanding of the extra-articular nature of the implant and the potential to be able to palpate the implanted device, especially in patients with minimal adipose tissue around their knee.
- Acknowledgement that some patients may not be fully satisfied with the results in which case implant removal may occur.
- Willingness to follow the surgeon's prescribed post-operative rehabilitation program. Adherence to such a program provides the best potential for success.

TYPICAL MISHA PATIENT

Patient examples on pages 7-9

The MISHA Knee System was designed for patients with medial knee osteoarthritis that have failed non-surgical treatment, are often too young or not indicated for arthroplasty, and have few treatment options. For more details on the typical MISHA patient, please see the average Calypso Study patient baseline characteristics and knee treatment history below.

BASELINE CHARACTERISTICS



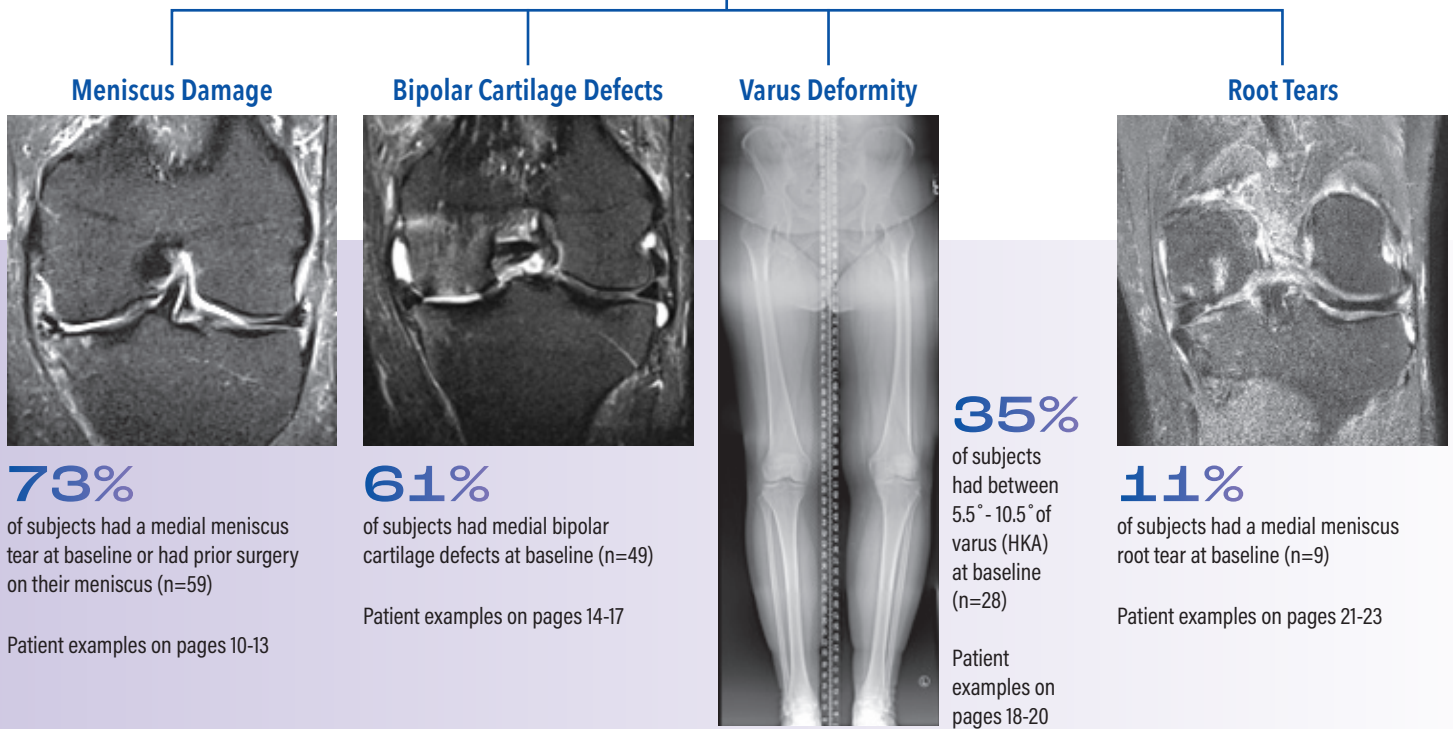
Left Knee
PA Fixed Flexed
(Weight Bearing) Pre-Op
532-015

MISHA PATIENT SUBGROUPS

Multiple factors can influence the progression of knee osteoarthritis, including joint alignment, meniscus status and cartilage integrity. All of the Calypso Study patients had medial knee OA, and many of them had additional complex issues at baseline such as root tears and varus deformity. Please find the subgroup analysis below, and case examples for each group on the following pages.



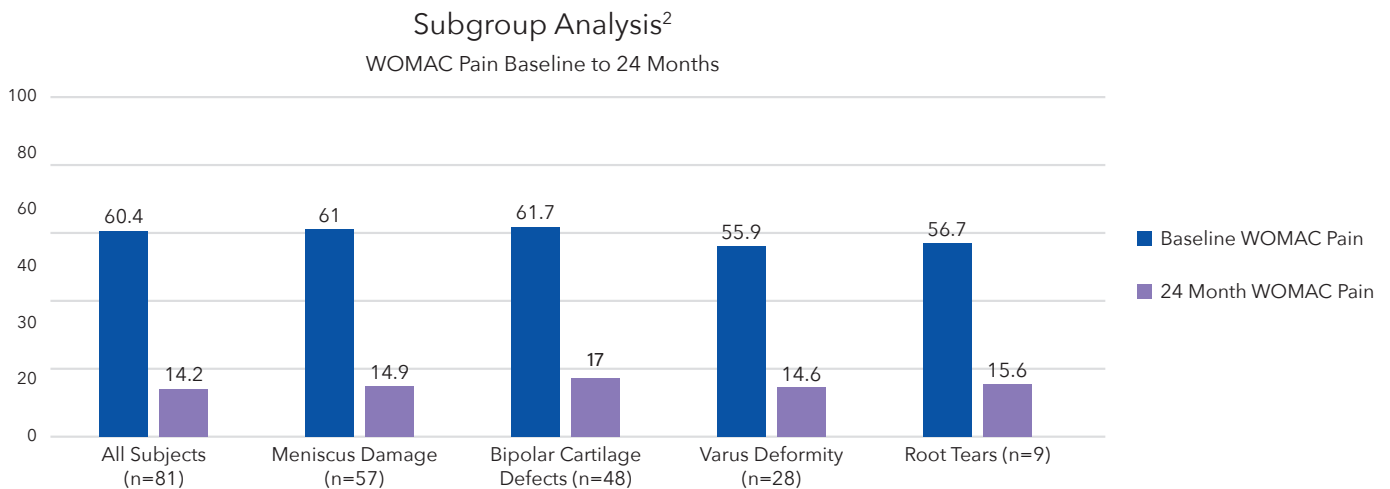
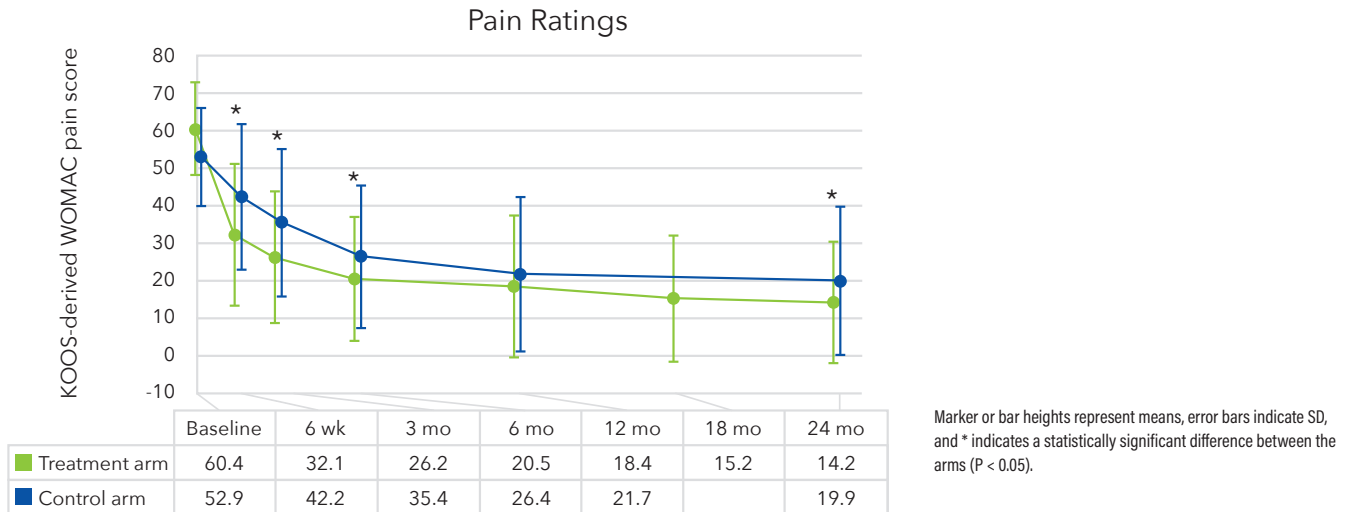
Medial OA and...



Meniscus tear or prior meniscectomy subgroup defined as Grade ≥ 2 by MMI in the medial anterior horn, medial body, or medial posterior horn. Extraction Date: 06Apr2022, Source: 574 - Deliverable - Calypso IDE Study (06-Apr-22). Data on file at Moximed. Bipolar cartilage defect subgroup defined as full thickness focal defect $< 1\text{cm}$ in greatest width to $\geq 75\%$ of the region, or full thickness loss in both the MFJ (MFC or MFP) and MTJ (MTA, MTC or MTP). (MMI Grade ≥ 2.5). Data on file at Moximed. Varus deformity subgroup defined as 5.5° to 10.5° of varus (HKA) at baseline. Medial meniscus posterior root tear subgroup defined as: complete medial meniscus posterior root avulsions or complete radial tears adjacent (within 9 mm) to the medial meniscus posterior root. Based on LaPrade, C.M., et al., Meniscal root tears: a classification system based on tear morphology. Am J Sports Med, 2015. 43(2): p. 363-9. As graded through an adjudication process by a panel of independent radiologists. Data on file at Moximed. Medial OA image from patient # 597-002. Bipolar Cartilage Defect image from patient # 536-003. Root Tear image from patient # 532-001. Varus Deformity image from patient # 522-014. Meniscus Tear or Prior Meniscectomy image from patient # 536-008.

PATIENT OUTCOMES¹

Calypso was a prospective study that evaluated the safety and effectiveness of the MISHA Knee System compared against a historical control arm, high tibial osteotomy (HTO). At two years an overwhelming majority of patients that received the MISHA Knee System experienced rapid, substantial and sustained improvements in pain and function. MISHA patients returned to full weight bearing in 13.4 days compared to 58.0 days for HTO patients.



As with any surgery, individual results may vary. Most side effects recorded in the study were mild to moderate, and included catching/pulling sensation, inability to perform certain tasks such as lifting/exercising, dissatisfaction with the procedure, cellulitis, surgical site infection, knee pain, kinesiophobia, and scar formation/adhesions. Most side effects resolved without further sequelae, and in certain instances the implant was removed.

1. Diduch DR, Crawford DC, Ranawat AS, Victor J, Flanigan DC. Implantable Shock Absorber Provides Superior Pain Relief and Functional Improvement Compared With High Tibial Osteotomy in Patients with Mild-to-Moderate Medial Knee Osteoarthritis: A 2-Year Report. *CARTILAGE*. 2023;0(0). doi:10.1177/19476035231157335 2. Data on file at Moximed. In the Meniscus Damage subgroup subject 516-021 was censored and the two-year outcomes for subject 599-039 was not collected. In the Bipolar Cartilage Defects subgroup subject 516-021 was censored.

TYPICAL MISHA PATIENT

Baseline Characteristics		Knee Treatment History	
Age	54 years	Current Non-surgical Treatment	Prior Surgery
Gender	Male	<ul style="list-style-type: none"> • Knee bracing (unhinged) • Weight loss • Lifestyle modification • Quadricep strengthening • NSAIDs • Corticosteroids 	<ul style="list-style-type: none"> • Meniscectomy – Medial Partial (2019) • Other - Synovial Biopsy (2019)
Weight	214 lb		
BMI	28 kg/m ²	Medical History	
Occupation	Risk Management	<ul style="list-style-type: none"> • Umbilical hernia without obstruction or gangrene (2019, ongoing) • Seasonal allergies (2005, ongoing) • Left knee meniscal tear (2018, resolved) • Left shoulder rotator cuff tear (2019, ongoing) • Somatic dysfunction lumbar region (low back pain) (2010, ongoing) • Left hamstring tightness (2019, resolved) • Lipoma arborescens (2019, ongoing) 	
Study Knee	Left		
HKA Mechanical Alignment	-2.5		
Study Knee KL Grade	3		

	Baseline	2-Year	4-Year
WOMAC Pain	65	0	0
WOMAC Function	65	0	0



PA Fixed Flexed
(Weight Bearing) Pre-Op



MRI
Pre-Op

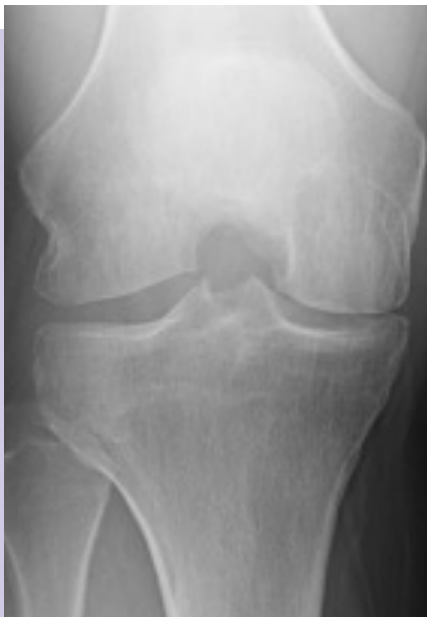


PA Fixed Flexed
(Weight Bearing) 4-Year Post-Op

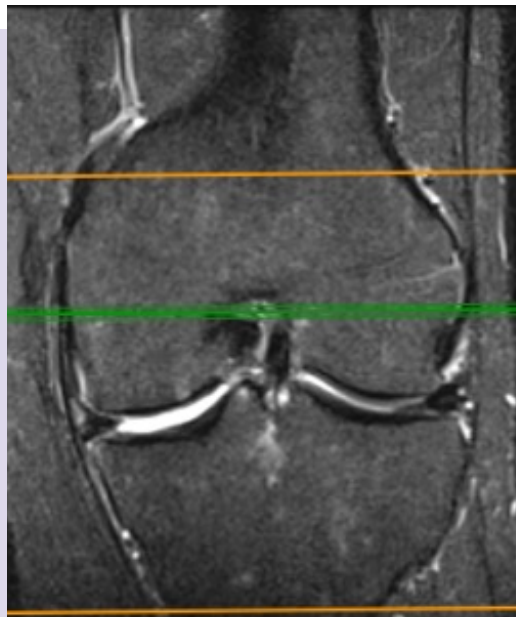
TYPICAL MISHA PATIENT

Baseline Characteristics		Knee Treatment History	
Age	52 years	Current Non-surgical Treatment	Prior Surgery
Gender	Male	<ul style="list-style-type: none"> • Knee bracing (unhinged) • Weight loss 	<ul style="list-style-type: none"> • Debridement (1989, 2018) • Meniscectomy – Medial Partial (2018)
Weight	230 lb		
BMI	34 kg/m ²	Medical History	
Occupation	Scrub Tech	<ul style="list-style-type: none"> • HTN (1998, ongoing) • Thyroidectomy (1993, resolved) • Erectile dysfunction (2010, ongoing) • Fracture right distal fibula and 5th metatarsal (2019, resolved) • Osteoarthritis of the left knee (2018, ongoing) • Left wrist ganglion cyst excision (2018, resolved) • Left heel and Achilles' tendon surgery (2018, resolved) • Left shoulder scope and carpal tunnel release (2017, resolved) 	
Study Knee	Left		
HKA Mechanical Alignment	-4.0		
Study Knee KL Grade	2		

	Baseline	2-Year	4-Year
WOMAC Pain	65	0	25
WOMAC Function	72	0	28



PA Fixed Flexed
(Weight Bearing) Pre-Op



MRI
Pre-Op



PA Fixed Flexed
(Weight Bearing) 4-Year Post-Op

TYPICAL MISHA PATIENT

Baseline Characteristics		Knee Treatment History	
Age	54 years	Current Non-surgical Treatment	Prior Surgery
Gender	Male	• NSAIDs	• None
Weight	214 lb		
BMI	28 kg/m ²	Medical History	
Occupation	Businessman	<ul style="list-style-type: none"> • Atrial fibrillation (2016, ongoing) • Hashimoto disease (2016, ongoing) • Allergy: pollen (1990, ongoing) • Hypertension (1990, ongoing) 	
Study Knee	Left		
HKA Mechanical Alignment	-5.6		
Study Knee KL Grade	3		

	Baseline	2-Year	4-Year
WOMAC Pain	55	25	25
WOMAC Function	59	25	22



PA Fixed Flexed
(Weight Bearing) Pre-Op



MRI
Pre-Op



PA Fixed Flexed
(Weight Bearing) 4-Year Post-Op

MENISCUS TEAR OR PRIOR MENISCUS SURGERY

Baseline Characteristics		Knee Treatment History	
Age	33 years	Current Non-surgical Treatment	Prior Surgery
Gender	Male	<ul style="list-style-type: none"> • Knee bracing (hinged) • Lifestyle modification 	<ul style="list-style-type: none"> • Meniscectomy - Medial Partial (2005, 2016) • Other- removal Osgood Schletter fragment (2017)
Weight	249 lb		
BMI	33 kg/m ²	Medical History	
Occupation	Groundworker	<ul style="list-style-type: none"> • Hypertension (2016, resolved) 	
Study Knee	Left		
HKA Mechanical Alignment	-7.2		
Study Knee KL Grade	3		

	Baseline	2-Year	4-Year
WOMAC Pain	65	20	15
WOMAC Function	79	10	7



PA Fixed Flexed
(Weight Bearing) Pre-Op



MRI
Pre-Op



PA Fixed Flexed
(Weight Bearing) 4-Year Post-Op

MENISCUS TEAR OR PRIOR MENISCUS SURGERY

Baseline Characteristics		Knee Treatment History	
Age	44 years	Current Non-surgical Treatment	Prior Surgery
Gender	Male	<ul style="list-style-type: none"> • NSAIDs • Corticosteroids 	<ul style="list-style-type: none"> • None
Weight	168 lb		
BMI	24 kg/m ²	Medical History	
Occupation	Project Manager (office)	<ul style="list-style-type: none"> • Asthma (1981, ongoing) • Increased ocular pressure (2018, ongoing) 	
Study Knee	Left		
HKA Mechanical Alignment	-3.9		
Study Knee KL Grade	3		

	Baseline	2-Year	4-Year
WOMAC Pain	70	5	5
WOMAC Function	62	1	1



PA Fixed Flexed
(Weight Bearing) Pre-Op



MRI
Pre-Op



PA Fixed Flexed
(Weight Bearing) 4-Year Post-Op

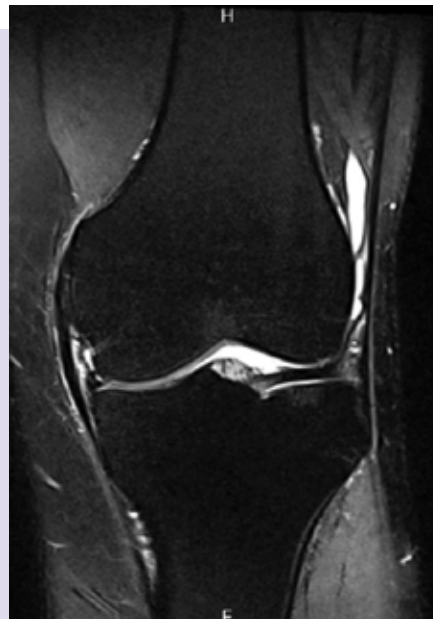
MENISCUS TEAR OR PRIOR MENISCUS SURGERY

Baseline Characteristics		Knee Treatment History	
Age	52 years	Current Non-surgical Treatment	Prior Surgery
Gender	Male	<ul style="list-style-type: none"> Opiate and oxycodone drugs 	<ul style="list-style-type: none"> Meniscectomy – Medial Partial (2010, 2018)
Weight	212 lb		
BMI	28 kg/m ²	Medical History	
Occupation	Sales manager	<ul style="list-style-type: none"> Cardiovascular VES (2019, resolved) Cervical fusion C5-C6 (2010, resolved) Hypertension (2019, resolved) 	
Study Knee	Left		
HKA Mechanical Alignment	-5.8		
Study Knee KL Grade	3		

	Baseline	2-Year	4-Year
WOMAC Pain	60	0	0
WOMAC Function	72	0	0



PA Fixed Flexed
(Weight Bearing) Pre-Op



MRI
Pre-Op



PA Fixed Flexed
(Weight Bearing) 4-Year Post-Op

MENISCUS TEAR OR PRIOR MENISCUS SURGERY

Baseline Characteristics		Knee Treatment History	
Age	53 years	Current Non-surgical Treatment	Prior Surgery
Gender	Male	<ul style="list-style-type: none"> • Knee bracing (unhinged) • Weight loss • Lifestyle modification • Low impact aerobic exercise • Simple analgesics (acetaminophen, ASA) • NSAIDs • Corticosteroids 	<ul style="list-style-type: none"> • None
Weight	218 lb		
BMI	30 kg/m ²	Medical History	
Occupation	PAS Scheduling Supervisor	<ul style="list-style-type: none"> • Allergy: Red wine extract (2009, ongoing) • Gastrointestinal (diverticular) bleed (2017, resolved) • Right leg contusion (2011, resolved) • Vitiligo (2009, ongoing) • Allergy: Lisinopril (2019, ongoing) • Right foot pain (2016, ongoing) 	<ul style="list-style-type: none"> • Hypertension (2010, ongoing) • Abdominal wall contusion postlateral, above pelvis (2011, resolved) • Allergy: Sulfite (2009, ongoing) • Allergy: Seasonal allergies (2010, ongoing) • Rib fracture 9 and 10 (left) (2011, resolved) • Lumbosacral strain (2011, resolved)
Study Knee	Right		
HKA Mechanical Alignment	-2.4		
Study Knee KL Grade	4		

	Baseline	2-Year	4-Year
WOMAC Pain	90	25	20
WOMAC Function	79	19	21



PA Fixed Flexed
(Weight Bearing) Pre-Op



MRI
Pre-Op

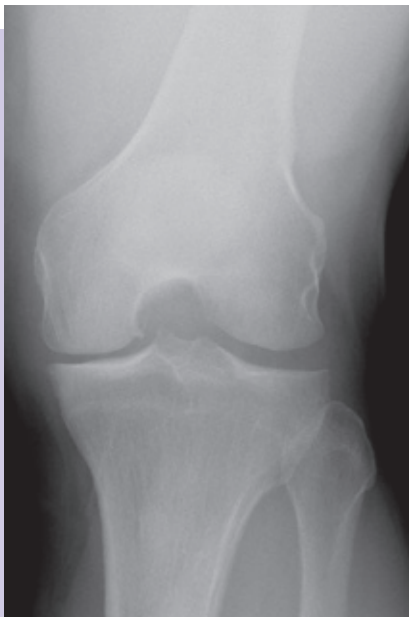


PA Fixed Flexed
(Weight Bearing) 4-Year Post-Op

BIPOLAR CARTILAGE DEFECT

Baseline Characteristics		Knee Treatment History	
Age	54 years	Current Non-surgical Treatment	Prior Surgery
Gender	Male	<ul style="list-style-type: none"> • Knee bracing (hinged) • Lifestyle modification • NSAIDs 	<ul style="list-style-type: none"> • None
Weight	198 lb		
BMI	32 kg/m ²	Medical History	
Occupation	Office services specialist	<ul style="list-style-type: none"> • C4-C5 cervical disc herniation (2016, resolved) • Lower back pain (1985, ongoing) • Inguinal hernia (2007, resolved) • Mild sleep apnea (2017, ongoing) • Latex allergy (1992, ongoing) 	
Study Knee	Right		
HKA Mechanical Alignment	-5.2		
Study Knee KL Grade	3		

	Baseline	2-Year	4-Year
WOMAC Pain	70	0	0
WOMAC Function	57	0	0



PA Fixed Flexed
(Weight Bearing) Pre-Op



MRI
Pre-Op



PA Fixed Flexed
(Weight Bearing) 4-Year Post-Op

BIPOLAR CARTILAGE DEFECT

Baseline Characteristics		Knee Treatment History	
Age	58 years	Current Non-surgical Treatment	Prior Surgery
Gender	Male	<ul style="list-style-type: none"> • Knee bracing (unhinged) • Weight loss • Lifestyle modification • NSAIDs 	<ul style="list-style-type: none"> • Meniscectomy – Medial Partial - 2018
Weight	196 lb		
BMI	27 kg/m ²	Medical History	
Occupation	Consultant	<ul style="list-style-type: none"> • Left knee osteoarthritis (2019, ongoing) 	
Study Knee	Left		
HKA Mechanical Alignment	-3.8		
Study Knee KL Grade	3		

	Baseline	2-Year	4-Year
WOMAC Pain	70	25	15
WOMAC Function	78	38	16



PA Fixed Flexed
(Weight Bearing) Pre-Op



MRI
Pre-Op

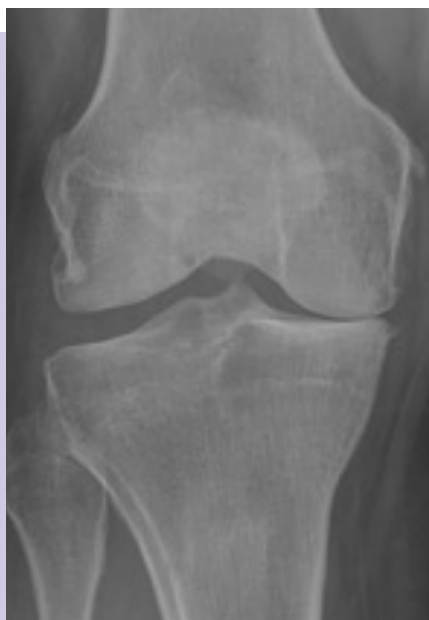


PA Fixed Flexed
(Weight Bearing) 4-Year Post-Op

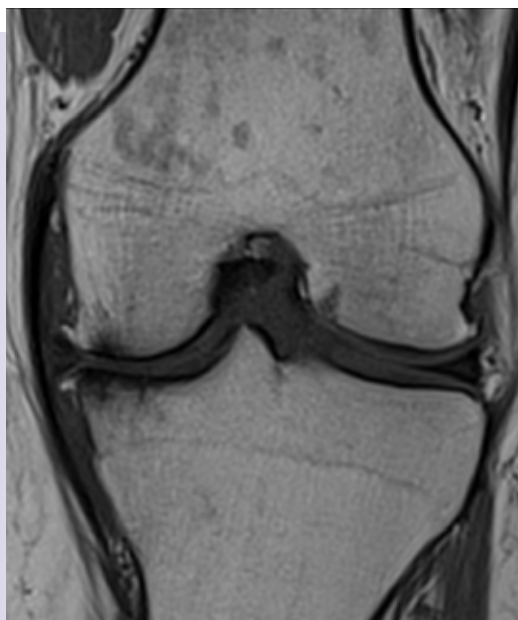
BIPOLAR CARTILAGE DEFECT

Baseline Characteristics		Knee Treatment History	
Age	49 years	Current Non-surgical Treatment	Prior Surgery
Gender	Female	• NSAIDs	• None
Weight	187 lb		
BMI	29 kg/m ²	Medical History	
Occupation	Physician	<ul style="list-style-type: none"> • Hypertension (2010, ongoing) • Hormone replacement therapy (2018, ongoing) • Diabetes type II (2013, ongoing) 	
Study Knee	Left		
HKA Mechanical Alignment	-4.4		
Study Knee KL Grade	3		

	Baseline	2-Year	4-Year
WOMAC Pain	55	0	5
WOMAC Function	38	6	4



PA Fixed Flexed
(Weight Bearing) Pre-Op



MRI
Pre-Op

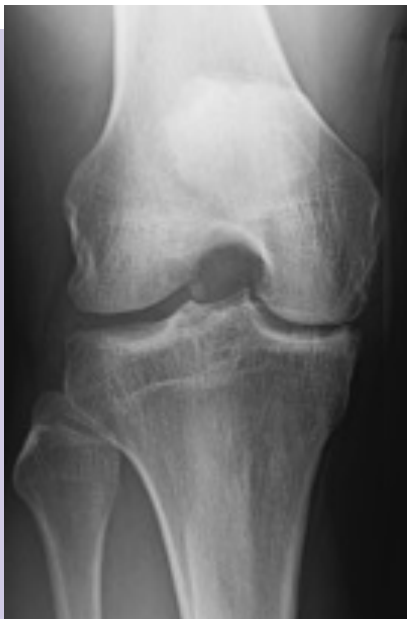


PA Fixed Flexed
(Weight Bearing) 4-Year Post-Op

BIPOLAR CARTILAGE DEFECT

Baseline Characteristics		Knee Treatment History	
Age	45 years	Current Non-surgical Treatment	Prior Surgery
Gender	Male	<ul style="list-style-type: none"> • Weight loss • Lifestyle modification • Simple analgesics (acetaminophen) • Low impact aerobic exercise • Quadriceps strengthening 	<ul style="list-style-type: none"> • Removal of chondral flap or fragment (2017) • Meniscectomy – Medial Partial (2017)
Weight	211 lb		
BMI	34 kg/m ²	Medical History	
Occupation	Manager/ scientist	<ul style="list-style-type: none"> • Asthma (1980, ongoing) • Right kidney donation (2016, resolved) • Left knee osteoarthritis (2016, ongoing) • Allergy: seasonal (1980, ongoing) 	
Study Knee	Left		
HKA Mechanical Alignment	-4.6		
Study Knee KL Grade	3		

	Baseline	2-Year	4-Year
WOMAC Pain	60	25	0
WOMAC Function	75	35	4



PA Fixed Flexed
(Weight Bearing) Pre-Op



MRI
Pre-Op



PA Fixed Flexed
(Weight Bearing) 4-Year Post-Op

VARUS DEFORMITY

Baseline Characteristics		Knee Treatment History	
Age	60 years	Current Non-surgical Treatment	Prior Surgery
Gender	Female	<ul style="list-style-type: none"> • Weight loss • Lifestyle modification • Low impact aerobic exercise • NSAIDs • Corticosteroids 	<ul style="list-style-type: none"> • None
Weight	228 lb		
BMI	35 kg/m ²	Medical History	
Occupation	N/A Retired	<ul style="list-style-type: none"> • Allergy: Seasonal (1986, ongoing) • Essential Hypertension, benign (2016, ongoing) • Allergy: Hazelnut and brazil nut (1970, ongoing) • Asthma (1986, resolved) 	<ul style="list-style-type: none"> • Allergy: Codeine (1989, ongoing) • Low back pain (2004, ongoing) • Eczema (1958, ongoing) • Allergy: Egg (1958, ongoing) • Malignant melanoma (2016, resolved) • Allergy: Penicillin (1958, ongoing)
Study Knee	Left		
HKA Mechanical Alignment	-9.4		
Study Knee KL Grade	3		

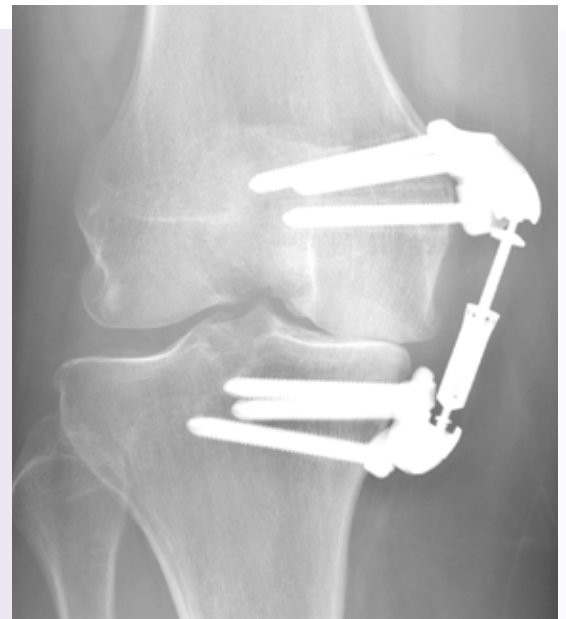
	Baseline	2-Year	4-Year
WOMAC Pain	40	5	0
WOMAC Function	37	6	3



Long Neutral AP
Pre-Op



MRI
Pre-Op

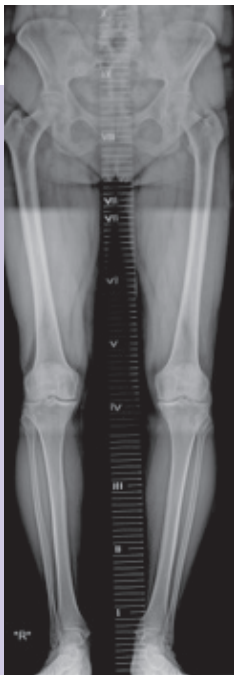


PA Fixed Flexed
(Weight Bearing) 4-Year Post-Op

VARUS DEFORMITY

Baseline Characteristics		Knee Treatment History	
Age	64 years	Current Non-surgical Treatment	Prior Surgery
Gender	Female	• NSAIDs	• None
Weight	172 lb		
BMI	28 kg/m ²	Medical History	
Occupation	N / A Retired	<ul style="list-style-type: none"> • Hypothyroidism (2015, ongoing) • Irritable bowel syndrome (2018, ongoing) • Insulin resistance (2019, ongoing) • Depression (2019, ongoing) • Cholecystectomy (2012, resolved) 	
Study Knee	Left		
HKA Mechanical Alignment	-8.6		
Study Knee KL Grade	4		

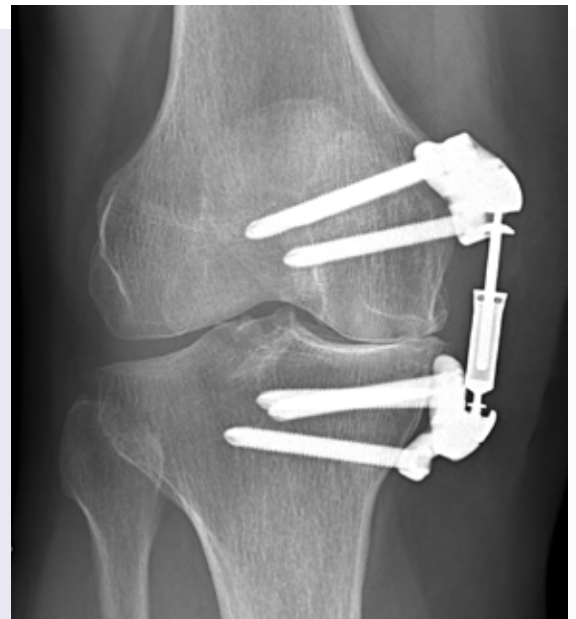
	Baseline	2-Year	4-Year
WOMAC Pain	50	0	0
WOMAC Function	37	6	0



Long Neutral AP
(Weight Bearing) Pre-Op



MRI
Pre-Op



PA Fixed Flexed
(Weight Bearing) 4-Year Post-Op

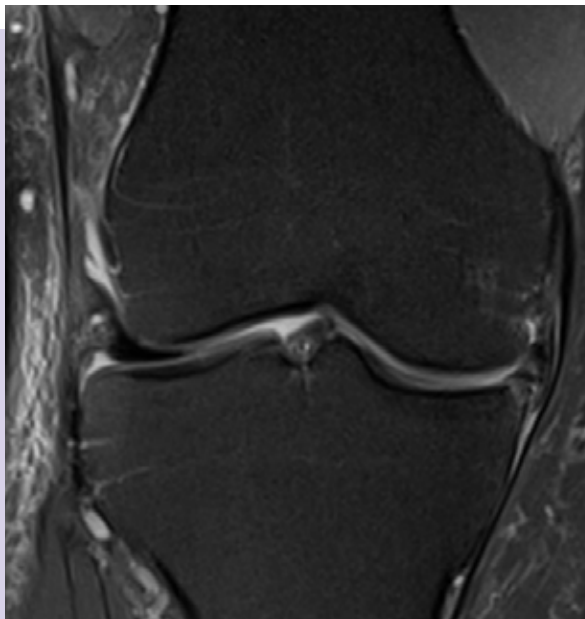
VARUS DEFORMITY

Baseline Characteristics		Knee Treatment History	
Age	47 years	Current Non-surgical Treatment	Prior Surgery
Gender	Male	<ul style="list-style-type: none"> • Lifestyle modification • Low impact aerobic exercise • Quadriceps strengthening 	<ul style="list-style-type: none"> • None
Weight	205 lb		
BMI	30 kg/m ²	Medical History	
Occupation	Rope access technician	<ul style="list-style-type: none"> • None 	
Study Knee	Right		
HKA Mechanical Alignment	-8.5		
Study Knee KL Grade	3		

	Baseline	2-Year	4-Year
WOMAC Pain	40	15	20
WOMAC Function	32	18	18



Long Neutral AP
(Weight Bearing) Pre-Op



MRI
Pre-Op



PA Fixed Flexed
(Weight Bearing) 4-Year Post-Op

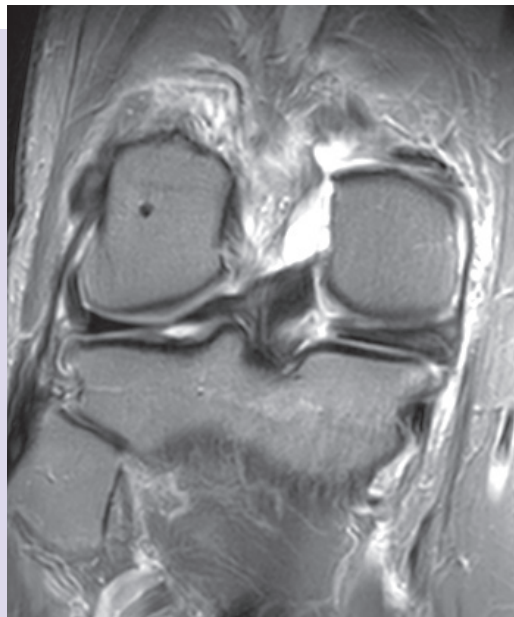
ROOT TEAR

Baseline Characteristics		Knee Treatment History	
Age	58 years	Current Non-surgical Treatment	Prior Surgery
Gender	Male	• None	• None
Weight	201 lb		
BMI	30 kg/m ²	Medical History	
Occupation	Auctioneer	<ul style="list-style-type: none"> • High blood pressure (1990, ongoing) • Gout (1999, ongoing) • Left shoulder neuropathy (2012, ongoing) • Bilateral elbow pain (2012, ongoing) • Left shoulder torn labrum (2010, resolved) • Right shoulder shattered humerus (2010, resolved) • Cervical radiculopathy (2015, ongoing) • Seasonal allergies (1999, ongoing) • Obstructive sleep apnea (2013, ongoing) 	
Study Knee	Right		
HKA Mechanical Alignment	-4.8		
Study Knee KL Grade	2		

	Baseline	2-Year	5-Year
WOMAC Pain	55	0	0
WOMAC Function	50	1	7



PA Fixed Flexed
(Weight Bearing) Pre-Op



MRI
Pre-Op



PA Fixed Flexed
(Weight Bearing) 5-Year Post-Op

ROOT TEAR

Baseline Characteristics		Knee Treatment History	
Age	60 years	Current Non-surgical Treatment	Prior Surgery
Gender	Male	<ul style="list-style-type: none"> • Knee bracing (unhinged) • Physical therapy • Orthotics • Quadriceps strengthening • Low impact aerobic exercise • NSAIDs 	<ul style="list-style-type: none"> • Ligament reconstruction ACL (1985)
Weight	179 lb		
BMI	25 kg/m ²	Medical History	
Occupation	N / A Retired	<ul style="list-style-type: none"> • Spinal fusion (2017, resolved) • ACL reconstruction (1985, resolved) • Left foot plantar plate injury and pain (2018, ongoing) • Coronary artery disease (2007, ongoing) • DM type II (2018, ongoing) • Inflamed skin tag (2018, resolved) 	
Study Knee	Left		
HKA Mechanical Alignment	-5.8		
Study Knee KL Grade	3		

	Baseline	2-Year	4-Year
WOMAC Pain	40	10	0
WOMAC Function	38	6	3



PA Fixed Flexed
(Weight Bearing) Pre-Op



MRI
Pre-Op



PA Fixed Flexed
(Weight Bearing) 4-Year Post-Op

ROOT TEAR

Baseline Characteristics		Knee Treatment History	
Age	55 years	Current Non-surgical Treatment	Prior Surgery
Gender	Female	<ul style="list-style-type: none"> • Knee bracing (unhinged) • Lifestyle modification 	<ul style="list-style-type: none"> • Meniscectomy - Medial Partial (1982)
Weight	145 lb		
BMI	21 kg/m ²	Medical History	
Occupation	N / A Unemployed	<ul style="list-style-type: none"> • Depression (2014, resolved) • Supraventricular tachycardia (2010, ongoing) • Perioral dermatitis (2017, resolved) • Right Freiberg's disease (2018, ongoing) • Seasonal asthma (1989, ongoing) 	
Study Knee	Right		
HKA Mechanical Alignment	-4.0		
Study Knee KL Grade	4		

	Baseline	2-Year	4-Year
WOMAC Pain	55	20	30
WOMAC Function	47	12	25



PA Fixed Flexed
(Weight Bearing) Pre-Op



MRI
Pre-Op



PA Fixed Flexed
(Weight Bearing) 4-Year Post-Op

