Washington State Department of Labor and Industries

Review criteria for knee surgery

Procedure	Conservative care		Clinical findings	
Troccaure	Oonservative care	Subjective	Objective	Care
Anterior cruciate ligament (ACL) repair.	(Not required for acute injury with hemarthrosis). Physical therapy. OR Brace. AND	Pain alone is not an indication for surgery. Instability of the knee, described as "buckling or give way." OR Significant effusion at the time of injury. OR Description of injury indicates rotary twisting or hyperextension incident.	Positive Lachman's sign. OR Positive pivot shift. OR Positive anterior drawer. OR Positive KT 1000: >3-5 mm = + 1. >5-7 mm = + 2. >7 mm = + 3.	(Not required if acute effusion, hemarthrosis, and instability; or documented history of effusion, hemarthrosis, and instability). ACL disruption on: MRI. OR Arthroscopy. OR Arthrogram.
Lateral retinacular release. OR patellar tendon realignment. OR maquet procedure.	Physical therapy (not required for acute patellar dislocation with associated intra- articular fracture). OR Medications. AND	Knee pain with sitting. OR Pain with patellar/femoral movement. OR Recurrent dislocations. AND	Lateral tracking of the patella. OR Recurrent effusion. OR Patellar apprehension. OR Synovitis with or without crepitus. OR Increased Q angle > 15 degrees. AND	Abnormal patellar tilt on: X-ray, CT, or MRI.

Reference: Provider Bulletin 03-16; Date Introduced: December 2003.

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Procedure	Conservative care	Clinical findings		
riocedule	Conservative care	Subjective	Objective	Imaging
Knee joint				
replacement.	Medications.	Limited range of	Over 50 years of	Osteoarthritis on:
	OR	motion.	age.	
If only 1	Visco	OR	AND	Standing x-ray.
compartment is	supplementation	Night time joint	Body Mass Index	OR
affected, a	injections.	pain.	of less than 35.	Arthroscopy.
unicompartmental	OR	OR		
or partial	Steroid injection.	No pain relief	AND	
replacement is		with		
indicated.	AND	conservative		
		care.		
If 2 of the 3				
compartments are		AND		
affected, a total				
joint replacement				
is indicated.				

Procedure	Conservative care	Subjective	Objective	Imaging
Diagnostic arthroscopy.	Medications. OR Physical therapy. AND	Pain and functional limitations continue despite conservative care.	AND	Imaging is inconclusive.
Meniscectomy or meniscus repair.	(Not required for locked/blocked knee). Physical therapy. OR Medication. OR Activity modification. AND	Joint pain. OR Swelling. OR Feeling of give way. OR Locking, clicking, or popping. AND	Positive Mc Murray's sign. OR Joint line tenderness. OR Effusion. OR Limited range of motion. OR Locking, clicking, or popping. OR Crepitus.	(Not required for locked/blocked knee). Meniscal tear on MRI.

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Procedure	Conservative care	Subjective	Objective	lmaging
Chondroplasty (Shaving or debridement of an articular surface).	Medication. OR Physical therapy. AND	Joint pain. AND Swelling. AND	Effusion. OR Crepitus. OR Limited ROM.	
Subchondral drilling or microfracture.	Medication. OR Physical therapy.	Joint pain. AND Swelling.	Small full thickness chondral defect on the weight bearing portion of the medial or lateral femoral condyle. AND Knee is stable with intact, fully functional menisci and ligaments. AND Normal knee alignment. AND Normal joint space. AND Ideal age 45 or younger.	Chondral defect on the weight bearing portion of the medial or lateral femoral condyle on: MRI. OR Arthroscopy.

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Procedure	Conservative care	Subjective	Objective	Imaging
Osteochondral autograft (mosaicplasty or oats procedure)	Medication OR Physical therapy. AND	Joint pain AND Swelling. AND	Failure of previous subchondral drilling or microfracture. Large full thickness chondral defect that measures less than 3 cm in diameter and 1 cm in bone depth on the weight bearing portion of the medial or lateral femoral condyle. AND Knee is stable with intact, fully functional menisci and ligaments. AND Normal knee alignment. AND Normal joint space. AND Body mass index of less than 35.	Chondral defect on the weight bearing portion of the medial or lateral femoral condyle on: MRI OR Arthroscopy.

Body mass index

The equation for calculating the body mass index (BMI) = (Weight in pounds \div Height in inches \div Height in inches) x 703. For example, a person weighing 210 pounds and 6 feet tall would have a BMI of (210 pounds \div 72 inches \div 72 inches) x 703 = 28.5.

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Procedure	Conservative care	Subjective	Objective	Imaging
Autologous chondrocyte implantation (ACI).	Physical therapy for a minimum of 2 months.	IW is capable and willing to follow the rehabilitation protocol. AND	Failure of traditional surgical interventions (i.e., microfracture, drilling, abrasion, osteochondral graft). Debridement alone does not constitute a traditional surgical intervention for ACI. AND Single, clinically significant, lesion that measures between 1 to 10 sq.cm in area that affects a weightbearing surface of the medial femoral condyle or the lateral femoral condyle. AND Full-thickness lesion (Modified Outerbridge Grade III-IV) that involves only cartilage. AND Knee is stable with intact, fully functional menisci and ligaments. AND Normal knee alignment. AND Normal joint space. AND IW is less than 60 years old. AND Body Mass Index of less than 35.	Chondral defect on the weight bearing surface of the medial or lateral femoral condyle on: MRI. OR Arthroscopy.

ACI EXCLUSION CRITERIA

ACI is not a covered procedure in **any** of the following circumstances:

- Lesion that involves any portion of the patellofemoral articular cartilage, bone, or is due to osteochondritis dissecans.
- A "kissing lesion" or Modified Outerbridge Grade II, III, or IV exists on the **opposite** tibial surface.
- Mild to severe localized or diffuse arthritic condition that appears on standing x-ray as joint space narrowing, osteophytes, or changes in the underlying bone.
- Unhealthy cartilage border; the synovial membrane in the joint may be used as a substitute border for up to ¼ of the total circumference.
- Prior total meniscectomy of either compartment in the affected knee. Must have at least 1/3 of the posterior meniscal rim.
- History of anaphylaxis to gentamycin or sensitivity to materials of bovine origin.
- Chondrocalcinosis is diagnosed during the cell culture process.

Modified outerbridge classification

I	Articular cartilage softening.
II	Chondral fissures or fibrillation < 1.25 cm in diameter.
III	Chondral fibrillation > 1.25 cm in diameter, ("crabmeat
	changes").
IV	Exposed subchondral bone.

Please refer to <u>Provider Bulletin 03-02</u> for additional coverage information. Surgeon should have performed or assisted in 5 or more ACI procedures; or will be performing the ACI under the direct supervision and control of a surgeon who has experience with 5 ACI procedures.

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Inclusion criteria

Procedure	Conservative care	Subjective	Objective	Imaging
Meniscal allograft transplantation.	Physical therapy. OR NSAID. OR Activity modification. AND	Capable and willing to follow the rehabilitation protocol. AND Knee pain that has not responded to conservative treatment. AND	Previous meniscectomy with at least two-thirds of the meniscus removed. AND If Modified Outerbridge Scale Grade III then debridement must first produce an articular surface sufficiently free of irregularities to maintain the integrity of the transplanted meniscus. AND Stable knee with intact ligaments, normal alignment, and normal joint space. AND Ideal age 20-45 years (too young for total knee). AND Body Mass Index of less than 35.	Articular cartilage in the affected compartment demonstrates a chondrosis classified by the Modified Outerbridge Scale as Grade I, Grade II, or Grade III.

MENISCAL ALLOGRAFT TRANSPLANTATION EXCLUSION CRITERIA

Meniscal Allograft Transplantation is not a covered procedure in **any** of the following circumstances:

- Mild to severe localized or diffuse arthritic condition that appears on standing x-ray as joint space narrowing, osteophytes, or changes in the underlying bone.
- Articular cartilage in the affected compartment demonstrates a chondrosis classified by the Modified Outerbridge Scale as Grade III that has not undergone debridement; Grade III with debridement that has not produced an articular surface that can maintain the integrity of the transplanted meniscus; or Grade IV.

Please refer to <u>Provider Bulletin 03-02</u> **for additional coverage information**. Surgeon should have performed or assisted in 5 or more meniscal allograft transplantation procedures; or will be performing the meniscal allograft transplantation under the direct supervision and control of a surgeon who has experience with 5 procedures.

Modified outerbridge classification

I	Articular cartilage softening.
II	Chondral fissures or fibrillation < 1.25 cm in diameter.
III	Chondral fibrillation > 1.25 cm in diameter, ("crabmeat changes").
IV	Exposed subchondral bone.

Body mass index

The equation for calculating the body mass index (BMI) = (Weight in pounds \div Height in inches \div Height in inches) x 703. For example, a person weighing 210 pounds and 6 feet tall would have a BMI of (210 pounds \div 72 inches \div 72 inches) x 703 = 28.5.