



autologous cultured
chondrocytes
on porcine
collagen membrane

MACI WELCOME GUIDE



Sidelined by knee pain from cartilage damage?

Wondering what's next for you?

Talk to your doctor about how MACI could help you address knee pain. Individual results may vary.

**Click here to provide
authorization!**



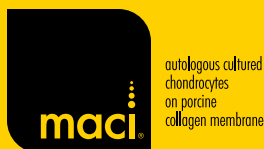
A sample of your cartilage has been taken for MACI treatment. Complete your cell storage authorization now at the above link.

MACI.COM

Indication: MACI is used for the repair of symptomatic cartilage damage of the adult knee.

Important Safety Information: Common side effects include joint pain, tendonitis, back pain, joint swelling, and joint effusion. More serious side effects include joint pain, cartilage or meniscus injury, treatment failure, and osteoarthritis.

Please see [Important Safety Information](#) and [Full Prescribing Information](#).



*It's your
move*

Indication

MACI® (autologous cultured chondrocytes on porcine collagen membrane) is made up of your own (autologous) cells that are expanded and placed onto a film that is implanted into the area of the cartilage damage and absorbed back into your own tissue.

MACI is used for the repair of symptomatic cartilage damage of the adult knee.

The amount of MACI applied depends on the size of the cartilage damage. The MACI film is trimmed by your surgeon to match the size and shape of the damage, to ensure the damaged area is completely covered.

Limitations of Use

It is not known whether MACI is effective in joints other than the knee.

It is not known whether MACI is safe or effective in patients over the age of 55 years.

Important Safety Information

MACI should not be used if you:

- are allergic to antibiotics such as gentamicin, or materials that come from cow, pig, or ox;
- have severe osteoarthritis of the knee, other severe inflammatory conditions, infections or inflammation in the bone joint and other surrounding tissue, or blood clotting conditions;
- have had knee surgery in the past 6 months, not including surgery for obtaining a cartilage biopsy or a surgical procedure to prepare your knee for a MACI implant;
- or cannot follow a doctor-prescribed rehabilitation program after your surgery

Consult your doctor if you have cancer in the area of the cartilage biopsy or implant as the safety of MACI is not known in those cases.

Conditions that existed before your surgery, including meniscus tears, joint or ligament instability, or alignment problems should be evaluated and treated before or at the same time as the MACI implant.

MACI is not recommended if you are pregnant.

MACI has not been studied in patients younger than 18 or over 55 years of age.

Common side effects include joint pain, tendonitis, back pain, joint swelling, and joint effusion.

More serious side effects include joint pain, cartilage or meniscus injury, treatment failure, and osteoarthritis.

For more information, please see [Full Prescribing Information](#).

References 1. Pettit RJ, Everhart JS, DiBartola AC, Blackwell RE, Flanigan DC. Time Matters: Knee Cartilage Defect Expansion and High-Grade Lesion Formation while Awaiting Autologous Chondrocyte Implantation. *Cartilage*. 2021 Dec;13(2_suppl):1802S-1808S. 2. Saris D, Price A, Widuchowski W, et al. for the SUMMIT study group. Matrix-applied characterized autologous cultured chondrocytes versus microfracture: two-year follow-up of a prospective randomized trial. *Am J Sports Med*. 2014;42:1384-1394. 3. Edwards PK, Ebert JR, Janes GC, Wood D, Fallon M, Ackland T. Arthroscopic versus open matrix-induced autologous chondrocyte implantation: results and implications for rehabilitation. *J Sport Rehabil*. 2014;23(3):203-215. doi:10.1123/jsr.2013-0042. 4. Brittberg M, Recker D, Ilgenfritz J, Saris D. SUMMIT Extension Study Group. Matrix-applied characterized autologous cultured chondrocytes versus microfracture: Five-year follow-up of a prospective randomized trial. *Am J Sports Med*. 2018;46(6):1343-1351.



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Your cartilage treatment journey begins here

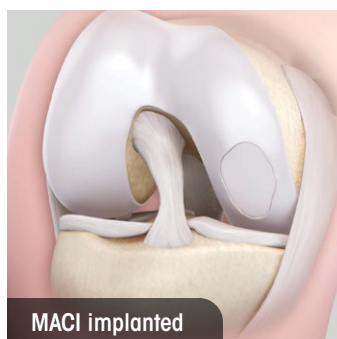
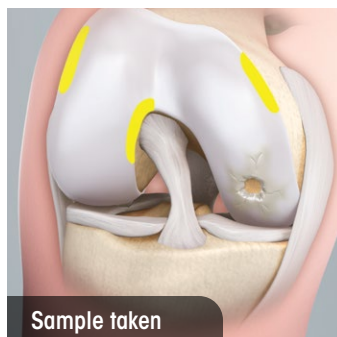
Your doctor has taken a sample of your cartilage cells during a knee arthroscopy

Your doctor has identified you as a candidate for a procedure to implant MACI (autologous cultured chondrocytes on porcine collagen membrane). MACI is used for the repair of symptomatic cartilage damage of the adult knee.

The small sample of your cartilage is being stored at a state-of-the-art FDA-licensed facility in Massachusetts.

Talk to your doctor about proceeding with MACI for your treatment

From the sample, your own cartilage cells or “chondrocytes” will be manufactured into a MACI implant. Your surgeon will place the implant into your knee to repair the damaged area of cartilage.



Ready to move forward? Call your doctor.
Still have questions? Call [1-877-872-4643](tel:1-877-872-4643)
or email info@MyCartilageCare.com.



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Watch Jo's journey with MACI >

Wondering what's next for you?

Cartilage damage doesn't heal on its own. In fact, it can get worse over time.¹ See for yourself how MACI could help with your knee pain. The sooner you and your doctor decide to move forward with MACI, the sooner your cells can start building durable repair tissue to help you get back to an active lifestyle. Individual results may vary. Talk to your doctor with questions and to see what treatment option may be right for you.

Important Safety Information: MACI should not be used if you are allergic to antibiotics such as gentamicin, or materials that come from cow, pig, or ox. Please see [Important Safety Information](#) and [Full Prescribing Information](#).

Sidelined by knee pain from cartilage damage?



Is your **knee cartilage damage** keeping you from the activities you're used to?

Have you spoken with your doctor about any concerns or limited activity?



Rehab is a commitment, but you've experienced difficult training challenges before.

What's holding you back from the **active lifestyle** you love?



[Click here to watch Jo's journey](#)

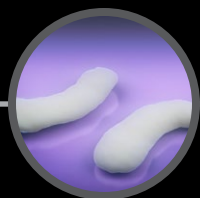


Reference: 1. Pettit RJ, Everhart JS, DiBartola AC, Blackwell RE, Flanigan DC. Time Matters: Knee Cartilage Defect Expansion and High-Grade Lesion Formation while Awaiting Autologous Chondrocyte Implantation. *Cartilage*. 2021 Dec;13(2_suppl):1802S-1808S.

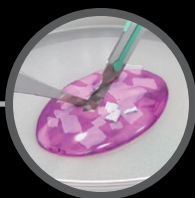


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Cell sample taken

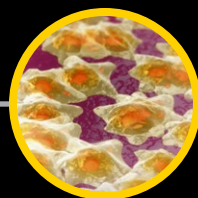


Cell processing
& storage



YOU ARE HERE!

Decision to move
forward with MACI



Cell expansion

During your diagnostic arthroscopy, your doctor took a sample of your healthy cartilage cells, approximately the size of two Tic Tacs®.

Tic Tac is a registered trademark of Ferrero S.p.A

Your cells were shipped to Vericel's state-of-the-art, FDA-licensed facility where they will be stored cryogenically (frozen) until you schedule the MACI implant procedure.

Cartilage damage doesn't heal on its own, so don't wait to make a plan with your doctor!¹ Schedule a follow up appointment to discuss what treatment option may be right for you.

If and when you and your doctor decide to move forward with MACI, your cells are pulled out of storage, expanded, and uniformly seeded on a resorbable collagen membrane.

Important Safety Information: MACI should not be used if you have severe osteoarthritis of the knee, other severe inflammatory conditions, infections or inflammation in the bone joint and other surrounding tissue, or blood clotting conditions.

Please see [Important Safety Information](#) and [Full Prescribing Information](#).

From your cells to MACI— an amazing journey



Special delivery
(your MACI implant)



MACI implant
procedure



Cell expansion &
rehabilitation

On the day of your procedure, your MACI implant is delivered directly to your operating room.

On the day of your procedure, your doctor will shape the MACI implant to the size of your cartilage defect(s) and then place it into your knee, affixing it to the damaged area.

After your procedure, you will begin a rehabilitation program specifically designed for you. Your cells will continue to expand, helping your body build durable repair tissue and filling your defect to regenerate the damaged cartilage.²

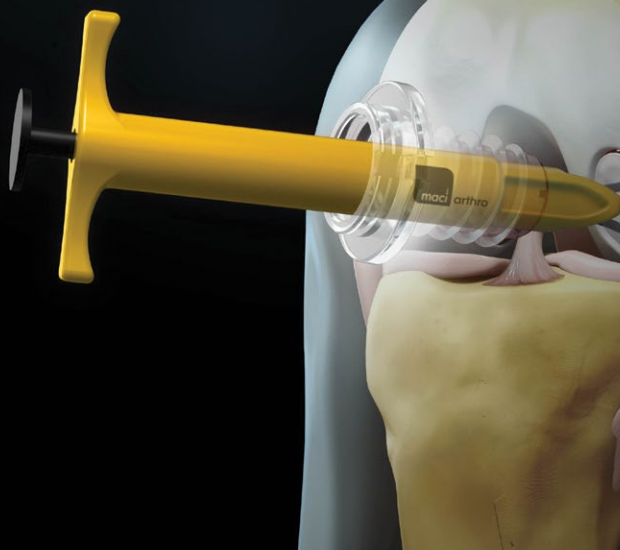
Watch an animation about how MACI works





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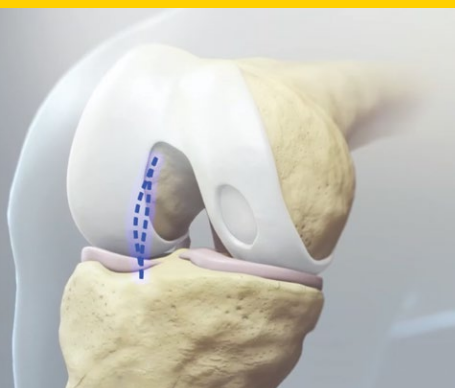
**Talk to your doctor to see if you are a
candidate for arthroscopic delivery of MACI.**

Arthroscopic delivery of MACI is approved for accessible lesions up to 4cm². Depending on your defect location and size, your doctor has options for MACI implant delivery.

Important Safety Information: MACI should not be used if you have had knee surgery in the past 6 months, not including surgery for obtaining a cartilage biopsy or a surgical procedure to prepare your knee for a MACI implant.

Please see [Important Safety Information](#) and [Full Prescribing Information](#).

Are you a candidate for the arthroscopic delivery of MACI?



MINI ARTHROTOMY DELIVERY



ARTHROSCOPIC DELIVERY

Arthroscopic Delivery of MACI

Your doctor may deliver MACI through a mini arthrotomy or through an arthroscopy. If you are a candidate for the minimally invasive arthroscopic delivery of MACI, your doctor will:

- Use a camera through an incision to **examine** your knee
- Make appropriate incision(s) as needed to **deliver** the MACI implant

Arthroscopic delivery of MACI incorporates the advantages of an arthroscopic approach with the long-term durability and established results of MACI. When delivered arthroscopically, MACI knee cartilage repair offers a less invasive surgical incision than knee cartilage treatment performed via standard arthrotomy.³

Learn more about MACI Arthro®



Talk to your doctor to see if the minimally invasive arthroscopic delivery of MACI is right for you.



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MyCartilageCare is a support program for MACI patients providing insurance coordination and treatment information.*

MyCartilageCare offers support including:



**INSURANCE
SUPPORT**



**CELL
STORAGE**



**COPAY
PROGRAM**



**TREATMENT
EDUCATION**



A dedicated MyCartilageCare Patient Coordinator is committed to offering comprehensive support tailored to your individual insurance requirements and treatment goals.

1-877-872-4643

info@MyCartilageCare.com

Please note: a MyCartilageCare representative may contact you directly by email or phone during the process.

Please see [Important Safety Information](#) and [Full Prescribing Information](#).

Considering MACI?

See if you qualify for assistance.* *



877-872-4643



CoPay Program

MyCartilageCare Assist CoPay Program is a copay assistance program that provides financial assistance for eligible adult patients who are undergoing surgery with MACI to repair their knee cartilage damage. Eligible patients may pay as little as \$0 in copay for the MACI implant.

MyCartilageCare Patient Care Representatives are available to guide you through the **MyCartilageCare Assist CoPay Program** application process. Program applications can be initiated over the phone. Speak with your doctor to see if MACI is right for you.

Click here to complete your
MACI cell storage authorization



*Nothing contained herein is intended, nor should it be construed, to suggest a guarantee of coverage or reimbursement for any product or service. Check with the individual insurance provider regarding coverage.

**See <https://mycartilagecare.com/assist> for Terms and Conditions and Eligibility Requirements. Restrictions apply. Call 877-872-4643 to speak with a Patient Care Representative who can guide you through the application process. The MCC Assist CoPay Program is for eligible patients 18 years or older with commercial/private insurance. The program is not valid for patients enrolled in or covered under any government healthcare insurance programs. The program provides assistance with the out-of-pocket costs for the MACI implant only.

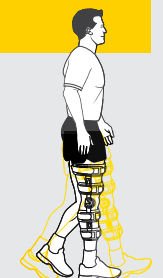


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Achieve routine

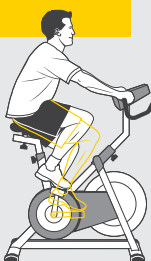
0-3 months



- Return to light recreational exercise, including walking
- Perform daily routine and activities of daily living (navigating stairs, showering, etc.) with the assistance of crutches
- Start driving again and return to office or seated work

Build strength

3-6 months



- Return to low-impact recreational activities, including cycling, golf, yoga & pilates, rowing & kayaking, swimming, dancing, elliptical & treadmill
- Return to more physically active jobs, such as nursing or construction
- Return to daily activities that require strength and endurance

Be active

6-9 months



- Return to pre-injury sports-based recreational activities including, running distances, skiing & snowboarding, weight training, tennis
- Return to work for those in heavy labor fields, such as military deployment or firefighting
- Over time, heavy impact activities such as cutting or pivoting can be reintroduced

Individual results for rehab may vary. Talk to your health care provider with any questions and before starting any new exercises.

Important Safety Information: MACI should not be used if you cannot follow a doctor-prescribed rehabilitation program after your surgery.

Please see [Important Safety Information](#) and [Full Prescribing Information](#).

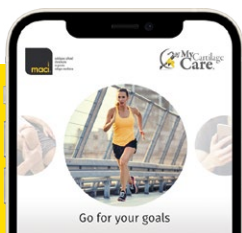
The MACI rehab program— no challenge, no change

**Rehabilitation is an integral part of helping to
make your cartilage repair procedure a success.**

If you're passionate about exercise, you're likely not afraid to take on a challenge. After the procedure to implant MACI, your orthopedic surgeon and physical therapist will customize a program that's right for you and the My MACI App is available so you can set and track milestones during your rehab journey.

**Your rehabilitation program is tailored specifically
to your individual goals and objectives.**

Everyone heals at their own rate, and cartilage will continue to mature over time. Always follow the advice of your doctor when introducing new exercises, including heavy impact activities such as cutting or pivoting.



Download the My MACI App



**Click here to find a MACI-trained
physical therapist in your area**





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Do you have questions about moving forward with MACI to treat your knee cartilage damage? Hear about real personal experiences with knee cartilage damage and MACI. The MACI Mentor Program gives patients considering MACI an opportunity to connect one-on-one with real MACI patients by phone.

"Before I had my MACI procedure, I wish there was someone I could have spoken to who was going through the same challenges I was with knee cartilage damage."

—Chris, MACI Patient*

***Paid testimonial by a MACI patient.
Individual results may vary.**

Important Safety Information: Consult your doctor if you have cancer in the area of the cartilage biopsy or implant as the safety of MACI is not known in those cases.

Please see [Important Safety Information](#) and [Full Prescribing Information](#).

Talk with real patients about
their experience with MACI

MACI.COM



Click here to speak with
one of our MACI Mentors



or call 1-888-237-5493



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Have you given up (or severely limited) sports or everyday activities due to knee symptoms or pain from cartilage damage?

☐ YES ☐ NO

Are knee symptoms or pain limiting your ability to do your job, take care of household duties, or attend social/family events?

☐ YES ☐ NO

Do you experience symptoms in your knee such as weakness, clicking, locking, buckling, or catching?

☐ YES ☐ NO

Have you found yourself switching to activities you prefer less to avoid knee symptoms or pain?

☐ YES ☐ NO

Do you find yourself attending events with friends less frequently due to the effects knee symptoms or pain may have on your activity level?

☐ YES ☐ NO

Important Safety Information: Conditions that existed before your surgery, including meniscus tears, joint or ligament instability, or alignment problems should be evaluated and treated before or at the same time as the MACI implant.

Please see [Important Safety Information](#) and [Full Prescribing Information](#).

Knee symptom/pain self-assessment

Do you find yourself traveling less due to knee symptoms or pain?

☐ YES ☐ NO

Do you find yourself avoiding stairs due to knee symptoms or pain?

☐ YES ☐ NO

Have you scaled back activities you used to enjoy?

☐ YES ☐ NO

Do you take medication to help manage your knee symptoms or pain?

☐ YES ☐ NO

Are you dissatisfied with the results of a previous surgery or treatment for your knee symptoms or pain (if applicable)?

☐ YES ☐ NO

**If you answer yes to any of these questions,
talk to your doctor about how MACI might be able
to help restore your active lifestyle.**



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Where are my cells? Is there a cost for Vericel to store them?

After your knee arthroscopy, your surgeon shipped your cells to Vericel. Once received, Vericel processes and stores cells cryogenically (frozen) up to 5 years for when you and your doctor decide to move forward with MACI. If you don't proceed with MACI within 5 years, your cells will be disposed of by a vendor licensed in the handling of biohazardous materials. There is no cost to you for Vericel to store your cells.

When are my cells turned into a MACI implant?

When you and your doctor decide you are ready to move forward with MACI, your cartilage cells will be expanded and placed onto a special membrane then delivered to your surgeon for your procedure. Until then, your cells will remain cryogenically frozen at Vericel.

Will my cartilage damage get worse if I don't move forward with MACI?

While everyone's case is unique, cartilage damage doesn't heal on its own. In fact, it can get worse over time.¹ The sooner you and your doctor decide to move forward with MACI, the sooner your cells can start building durable repair tissue to help you get back to an active lifestyle.

Will my insurance cover MACI?

While every insurance policy is different and each MACI case is unique, 90% of all MACI cases were approved on the first try. Of the remaining cases, an additional 6% were approved on appeal, 3% were not appealed, and only 1% were denied after appeal. A MyCartilageCare Case Manager will work with your insurance company on your behalf. Eligible patients may pay as little as \$0 in copay for the MACI implant.*

Important Safety Information: MACI is not recommended if you are pregnant. MACI has not been studied in patients younger than 18 or over 55 years of age.

Please see [Important Safety Information](#) and [Full Prescribing Information](#).

Frequently Asked Questions

What are the success rates of MACI?

A significantly greater proportion of patients treated with MACI experienced clinically meaningful improvements in both pain and function at 2 years when compared to microfracture.² In a follow-up extension study, improvements in pain and function at Year 2 were maintained with MACI at Year 5.^{2,4}

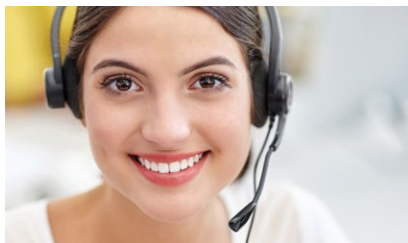
In a clinical study of 144 patients treated, 87.5% of MACI patients vs 68.1% of microfracture patients reported a ≥ 10 -point improvement in both pain and function at 2 years.²

Who do I contact with questions?



Contact your doctor:

- with medical questions
- if you are experiencing symptoms
- to schedule your procedure



Contact MyCartilageCare:

- with questions about your cells
- for help coordinating the insurance process

Scan the QR code on the front cover to be contacted by MyCartilageCare

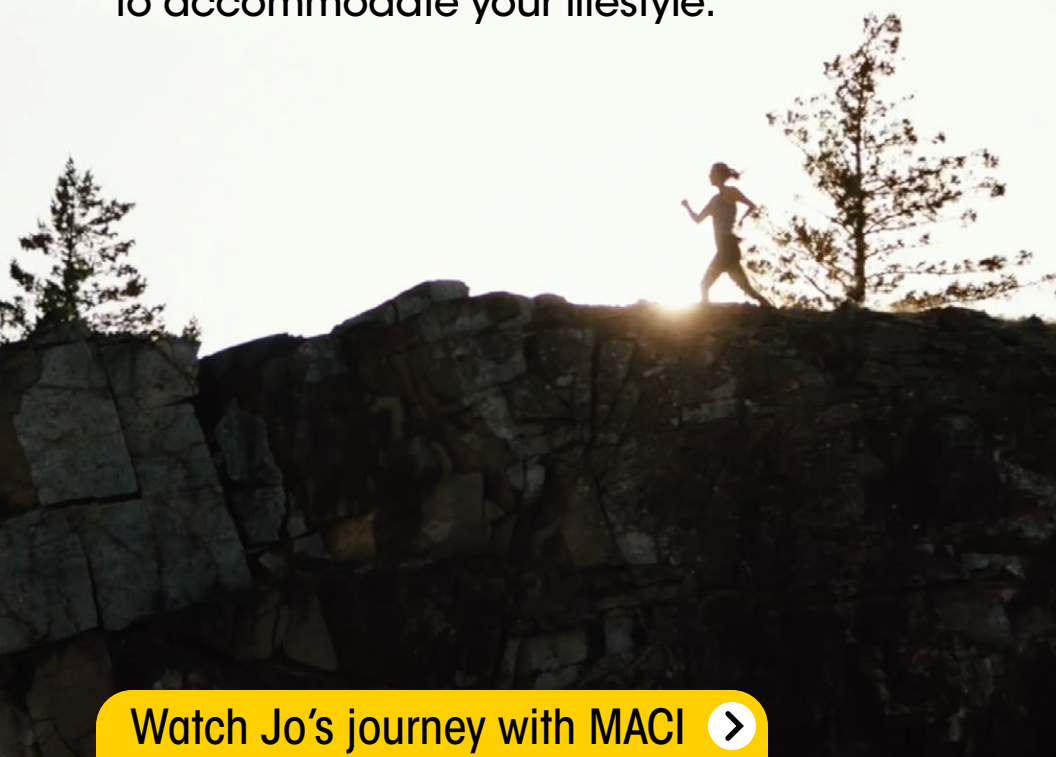
*MACI cases activated between January 2024 and December 2024. Data on file. This information is not intended to guarantee coverage or reimbursement. Check with your insurance provider regarding coverage or your health care provider with any questions.



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"You can change your lifestyle
to accommodate your injury,
or you can repair your injury
to accommodate your lifestyle."



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