



autologous cultured
chondrocytes
on porcine
collagen membrane

Knee cartilage repair that uses your own cells

READY TO TAKE ON KNEE PAIN?

*It's your
MOVE*



“By resolving my knee pain, MACI brought me back to doing what I love; running, biking, and just being active with my family and friends.”

—Abby, MACI Patient*

Learn more about Abby's MACI story at [MACI.com/Abby](https://www.maci.com/Abby)

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.

*Paid testimonial by a MACI patient. Individual results may vary. Always talk to your health care provider with any questions.

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



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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



STEP 1

ASK YOUR DOCTOR IF
MACI IS RIGHT FOR YOU

MACI.com

SAMPLE TAKEN

If your doctor thinks MACI may be an option for you, he or she will take a sample of your healthy knee cartilage, approximately the **size of two Tic Tacs®**.



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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](#).



STEP 2

CELLS PROCESSED

The sample is shipped to a **state-of-the-art, FDA-licensed cell-processing facility** in Cambridge, Massachusetts, where it will be stored cryogenically (frozen).



STEP 3

YOUR OWN CELLS

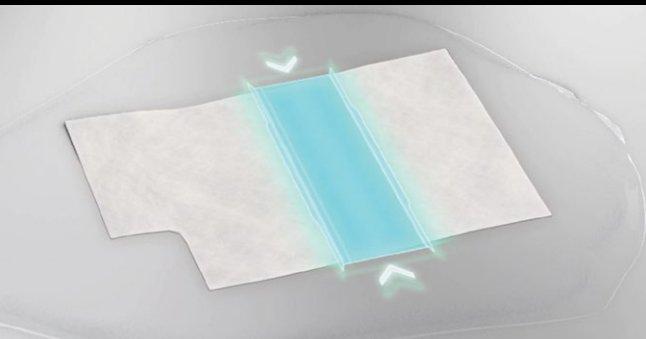
In a proprietary process, cartilage **cells are expanded** and uniformly seeded onto a resorbable collagen membrane.



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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](#).



STEP 4

MACI DELIVERED

The MACI implant is delivered to the operating room
on the day of your surgery.



STEP 5

MACI IMPLANTED

Your surgeon 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.



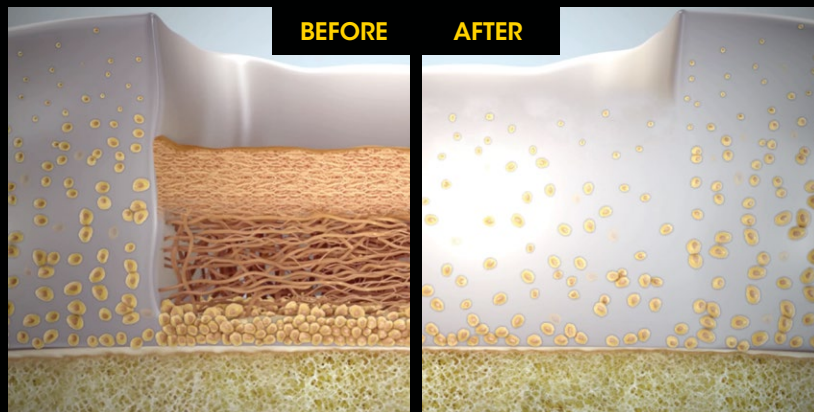
MACI CREATES A DURABLE REPAIR TISSUE, HELPING YOU RESUME AN ACTIVE LIFESTYLE.¹

The repair tissue has been shown to form as early as six months¹ following the procedure, and overall MACI can provide long-lasting pain relief and improvement in function.

Individual results may vary. Always talk to your health care provider with any questions and before starting any new exercises.

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](#).



REHABILITATION IS THE FINAL STEP

After MACI is implanted, you will begin a physician-prescribed rehabilitation program specifically designed for you. MACI should not be used in patients who cannot follow a doctor-prescribed rehabilitation program after their surgery.



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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.

Please see [Full Prescribing Information](#) for more information.

REFERENCE: 1. Saris D, Price A, Widuchowski W, et al. Matrix-applied characterized autologous cultured chondrocytes versus microfracture: Two-year follow-up of a prospective randomized trial. *Am J Sports Med.* 2014;42(6):1384-94.



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