

Genzyme Biosurgery

The very latest advance in the emerging field of biosurgical technology, Genzyme Biosurgery allows patients to harvest their own cells, then use them to repair their damaged or defective knee cartilage.

Overview

Cartilage Repair Using CARTICEL® CELL THERAPY

FIRST, a small biopsy of healthy cartilage is taken. The tissue is then sent to an FDA-licensed and certified facility, where new cells are grown.

SECOND, Dr. Longobardi performs surgery. He removes all damaged cartilage tissue, covers the area with a patch, then implants the new cells, Carticel. The new cells attach to the bone, multiply and, with time, mature to form a healthy cartilage repair.

THIRD, after surgery patients are required to follow a prescribed rehabilitation program individually tailored by Dr. Longobardi and crucial to optimum healing and the success of the procedure.

pioneering . . .

Genzyme Biosurgery

Breakthrough Technology
To Repair Damaged Or Defective
Knee Cartilage

“Through Genzyme Biosurgery patients are getting the chance to return to their normal activities, especially those who have had poor response to other procedures.”

ORTHOPAEDIC SURGEON DR. RAPHAEL LONGOBARDI

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Genzyme Biosurgery



Repairing
Damaged Knee Cartilage
By Regenerating The
Patient's Own Healthy Cartilage

CARTICEL® CELL THERAPY



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In New Jersey 201-343-1717
In New York 212-263-6542

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“The most current and optimal means of treatment available. We can now replace the damaged cartilage within the knee using an individual’s own tissue.”

ORTHOPAEDIC SURGEON DR. RAPHAEL LONGOBARDI

Genzyme Biosurgery

New Treatment Option

Knee pain discouraging and preventing you from doing what you did before?

Mobility restricted?

Still hurting despite prior knee surgery?

Or, recently diagnosed with cartilage damage?

Timely intervention is critical. Cartilage damage left untreated could spread to surrounding healthy cartilage, causing further deterioration of joint surface.

Explore The Benefits

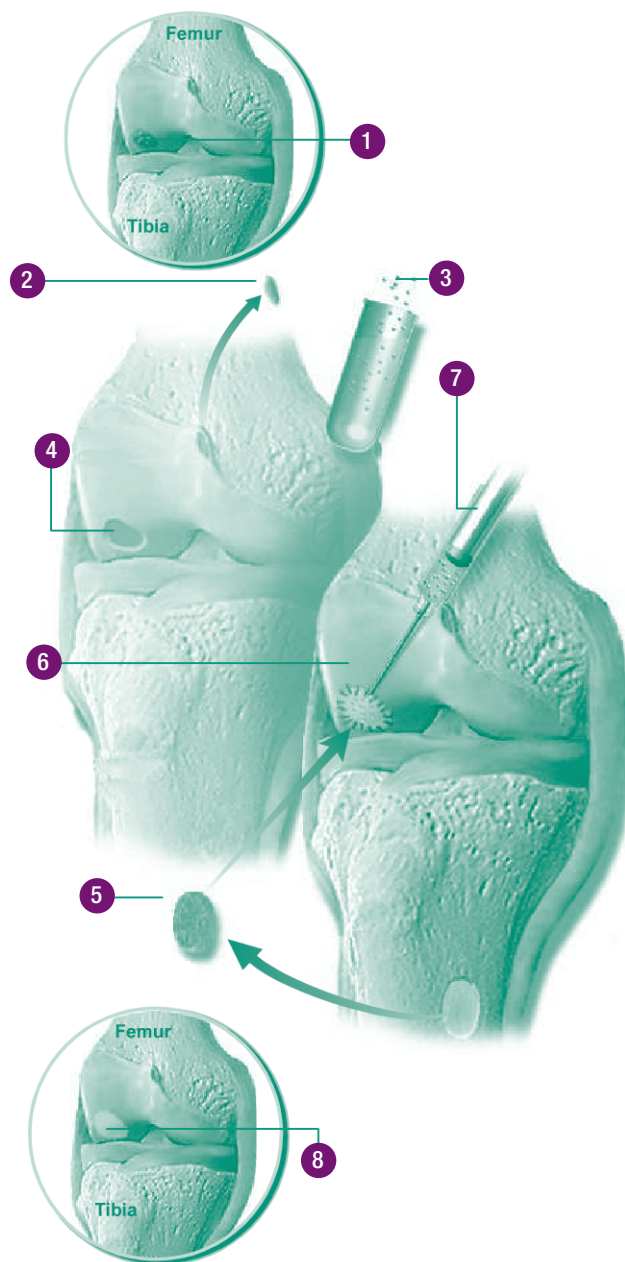
The first to bring Genzyme Biosurgery to Bergen County, Dr. Raphael Longobardi is one of only two doctors performing the Carticel procedure in New Jersey.

Dr. Longobardi can tell you if you are a good candidate for this revolutionary, biotherapeutic treatment.

If an old injury hasn’t responded to prior arthroscopic or another surgical repair, or if the injury is new, Carticel cell therapy could be the key to your return to form.

innovative . . .

Cartilage Repair...A Closer Look



ILLUSTRATIONS COURTESY OF SWARM INTERACTIVE, INC.

- 1 Dr. Longobardi examines the entire knee joint surfaces through an arthroscope.
- 2 If a defect is found, he removes a small sample of healthy cartilage tissue.
- 3 The tissue is then sent to a laboratory where it will be stimulated to produce millions of similar cells. The process, called “culturing,” takes four to five weeks.
- 4 When these new cells, Carticel, are ready, surgery is performed. First, the doctor removes the knee’s damaged or diseased cartilage and any loose tissue.
- 5 Second, from the surface of the shin bone, he removes a small patch of thin tissue.
- 6 Next, Dr. Longobardi sews the patch over the area where he removed the damaged tissue.
- 7 Finally, through a thin needle, the doctor implants the new cultured cells beneath the patch.
- 8 The cultured cells continue to multiply and integrate with surrounding cartilage. Over time, the cells mature to form a weight-bearing cartilage repair.

more information: www.carticel.com