St. Luke Hospital's autologous bone marrow stem cell therapy is different!

Orthopedic specialist from Samsung Medical Center Designated as a stem cell research and educational institution

Treatment satisfaction rate 93%, recommendation rate 96%

Sterile clean system to prevent secondary infections

We believe treatment can lead to a cure!



2017 Spine & Joint Korea Excellent Brand Award



Experience in over 2,000 surgeries and procedures

Yeong seok Lee M.D, Ph.D

Orthopedic specialist from Samsung Medical Center Outpatient professor of orthopedics at Samsung Medical Center Published SCI papers



TV appearances, Medical Consulting















Post-Surgery Precautions

- Allow sufficient rest and recovery time after the surgery.
- Maintain a healthy lifestyle with a nutritious diet and regular exercise.
- Avoid vigorous exercise. Indoor cycling and swimming, which
 do not put stress on the knee, are recommended.
- Avoid getting the treated area wet to manage the wound properly.
- If swelling and fever in the treated knee persist for more than
 3-4 days, please visit the hospital.
- Regular hospital visits are recommended for rehabilitation Therapy.

FAO's

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Q. Are stem cell injections safe? Any side effects?

Bone marrow is aspirated from the patient's own iliac crest. The iliac crest is not very deep and is easily accessible, making the procedure safe and straightforward. Additionally, injections into the knee are very safe, so there is no need to worry. The process is similar to receiving a hyaluronic acid injection, ensuring safety. Since the bone marrow tissue comes from the patient's own body, there is no risk of immune rejection, resulting in minimal side effects.

Q. Where can stem cells be obtained?

Stem cells can be obtained from bone marrow and adipose tissue. Bone marrow stem cells are widely used in the field of orthopedics due to their strong proliferative ability, excellent chondrogenic potential, and ease of storage and transport. Most clinical results have also been reported to be excellent. Adipose tissue has the advantage of being obtainable from various sites than bone marrow. When comparing the same volume, adipose tissue contains approximately 500 times more stem cells than bone marrow. However, it has been reported that the chondrogenic potential of adipose tissue stem cells is not as good as that of bone marrow stem cells.

Q. How is it different from traditional stem cell therapy?

Traditional stem cell therapy involves checking the cartilage through surgery and then injecting the stem cells. After treatment, you must use crutches because you cannot put weight on the knee until the cartilage regenerates. This requires a lengthy rehabilitation period after surgery. The treatment is also costly, and you need to rest for at least three months without working, making it very difficult to decide on the treatment. However, with autologous bone marrow stem cell therapy, stem cells are extracted from your own body and injected into your knee. As a result, you can walk immediately after the procedure and resume daily activities right away.

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Slow Down Osteoarthritis Progression with Autologous Bone Marrow Stem Cell Injections!

Autologous Bone Marrow Stem Cell Therapy B M A C





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Scientifically Proven
(SCI-grade Papers) Effectiveness of
Autologous Bone Marrow Aspirate
Concentrate Injection Therapy



Medical Foundation St. Luke Hospital

Autologous Bone Marrow Stem Cell Therapy (BMAC)

This treatment involves extracting bone marrow from the patient's anterior superior iliac spine centrifuging and concentrating the bone marrow aspirate, and then injecting it into the knee joint.

Delayed Osteoarthritis Progression

Rapid Pain Relief through Inflammation reduction

Cartilage Regeneration Effect

Short Hospital Stay (Walking Possible the Next Day)

Injection Treatment Using Local Anesthesia

Quick Return to Daily Activities

Autologous Bone Marrow Stem Cell

Suitable for All Ages

Cost-Effective

Improve Joint Function

• Who Benefits from This Therapy?





KL-Grades 2

KL-Grades 3

ICRS Grades 3

ICRS Grades 4

- Patients with degenerative osteoarthritis showing joint space narrowing, bone spurs, or bone deformities (KL grades 2-3)
- ✓ Patients with cartilage damage exceeding 50% or with progressing calcification (ICRS grades 3-4)

How is the Procedure Performed?





1 Bone Marrow Stem Cell Extraction

2 Transfer the extracted bone marrow into a kit





③ Centrifugation for separation

4 Removal of separated bone marrow plasma



(5) Extraction of bone marrow aspirate concentrate containing bone marrow cells



6 Injection of Bone Marrow Aspirate Concentrate (BMAC) including extracted stem cells

Scan to watch



Scientifically Proven (SCI-grade Papers) Effectiveness of **Autologous Bone Marrow Aspirate Concentrate Injection Therapy**

Heliyon



Effectiveness of a single intraarticular bone marrow aspirate concentrate (BMAC) injection in patients with grade 3 and 4

Orthobiologics has emerged as a therapeutic option with special emphasis on regen

Outcome Instrument	Pre-treatment	Post-treatment	p value
NPS	8.33 (range 5-10)	4.49 (range 1-10)	<0.00
OKS	20.20 (range 7-39)	32.29 (range 16-48)	< 0.001

Check out firsthand treatment testimonials from our patients!

Adam's testimonial





- · 38-year-old male, Stage 2 degenerative osteoarthritis, British
- · Suffered from knee pain for 20 years
- · Able to walk freely after treatment

Kang Jeom Soon's testimonial





- · 72-year-old female, Stage 3 degenerative osteoarthritis
- · Received autologous bone marrow aspiration concentrate injection treatment
- · Has experience with stem cell treatments at other hospitals

Kim Eun Sil's testimonial





- 62-year-old female, Stage 2 degenerative osteoarthritis
- · Has undergone multiple hyaluronic acid injections treatments

Jeong Do Kyun's testimonial





- · 61-year-old male, Stage 3 degenerative
- · In a brain-dead state for 3 weeks, unable to undergo knee surgery
- · Received injections and medication treatment for 4-5 years

Bang Yoon Ho's testimonial





- · 71-year-old male, Grade 3 degenerative osteoarthritis
- Advised total knee replacement surgery · Acupuncture, heat therapy,
- 9-10 injections