

FAQ

About EXOGEN

Will EXOGEN help heal my fracture?

Clinical studies show that EXOGEN speeds up healing of fresh fractures^{3,4} and heals breaks not healing on their own.²

Is EXOGEN treatment painful?

Most patients don't feel anything at the treatment site, while some patients report experiencing a tingling sensation.

How will I know if the EXOGEN unit is working?

Your device is working properly when you see the display screen counting down from 20 minutes during treatment. Your physician will update you on your healing status at follow-up appointments.

How long will I need to use EXOGEN?

Different fractures heal at different rates. Your physician will determine the length of your treatment during follow-up appointments.

What if I don't place the EXOGEN transducer in exactly the right spot?

Best results are achieved when the EXOGEN transducer is placed at the location marked by your physician.

Will having two or more treatments per day result in better or faster healing?

Clinical studies have evaluated the effectiveness of EXOGEN with one 20-minute treatment per day. Multiple or longer duration daily treatments have not been studied.



What if I miss a treatment?

Try to get back on schedule as soon as possible. To stay consistent with your treatments, check the treatment tracking calendar on your device and identify a convenient time to use EXOGEN each day. You can also download EXOGEN CONNECTS, a free smartphone app that sends automated treatment reminders.

Am I renting the EXOGEN unit?

No. EXOGEN is for single patient use only and is prescribed by your doctor for your treatment only. No one else has used your unit and you actually own the EXOGEN unit.

What should I do with my EXOGEN unit once I've completed treatment?

You own the unit, so you can keep it or dispose of it per your local waste disposal laws. Please contact Bioventus Customer Service at 1800 428 220 if you need guidance on disposal.

Who do I contact if I have questions about EXOGEN?

Please contact Customer Service at 1800 428 220.

FAQ (cont)

About the EXOGEN Performance Guarantee

What is the EXOGEN Performance Guarantee?

The EXOGEN Performance Guarantee is designed to encourage your compliance with EXOGEN treatment and provide you added confidence that EXOGEN will help your fracture progress towards healing. Eligible program participants are guaranteed radiographic healing progression will be shown in non-union fractures or your out of pocket costs paid for the EXOGEN device will be refunded to you.

Who is eligible to participate in the EXOGEN Performance Guarantee?

All EXOGEN patients who have been diagnosed by a health care professional as having a non-union fracture (skull and spine fractures are excluded). A non-union fracture is considered to be established when the fracture site shows no visibly progressive signs of healing.

What is required to participate in the EXOGEN Performance Guarantee?

You must utilize your EXOGEN device for 20 minutes a day and complete at least 90% of treatments during your treatment period.

When does the EXOGEN Performance Guarantee start?

The treatment period starts from your first EXOGEN treatment and until your fracture assessment is made by your physician at least 120 days there after (or beyond) of first use. The program is subject to cancellation at any time.

What if my fracture does not show any improvement?

The absence of fracture healing (progression to bony union) must be measured and confirmed by your physician in writing and sent to Bioventus. In addition, you need to send Bioventus your EXOGEN unit to confirm your actual use of the device. Once we receive and confirm the criteria, a refund will be issued for your direct EXOGEN device purchase.



EXOGEN® Patient Resource Guide

The EXOGEN Ultrasound Bone Healing System uses ultrasound waves to stimulate the body's natural healing process.¹

***Summary of Indications for Use:** EXOGEN is indicated for the non-invasive treatment of osseous defects (excluding vertebra and skull) that includes the treatment of delayed unions, non-unions¹, stress fractures and joint fusion. EXOGEN is also indicated for the acceleration of fresh fracture heal time, repair following osteotomy, repair in bone transport procedures and repair in distraction osteogenesis procedures.

There are no known contraindications for the EXOGEN device. Safety and effectiveness have not been established for individuals lacking skeletal maturity, pregnant or nursing women, patients with cardiac pacemakers, on fractures due to bone cancer, or on patients with poor blood circulation or clotting problems. Some patients may be sensitive to the ultrasound gel. Full prescribing information can be found in product labeling, at www.exogen.com, or by calling customer service at 1-800-836-4080.

¹A non-union is considered to be established when the fracture site shows no visibly progressive signs of healing.

References: 1. Azuma Y, Ito M, Harada Y, et al. Low-intensity pulsed ultrasound accelerates rat femoral fracture healing by acting on the various cellular reactions in the fracture callus. *J Bone Miner Res.* 2001;16(4):671-680. 2. Nolte PA, van der Krans A, Patka P, et al. Low-intensity pulsed ultrasound in the treatment of nonunions. *J Trauma.* 2001;51(4):693-703. 3. Kristiansen TK, Ryaby JP, McCabe J, et al. Accelerated healing of distal radial fractures with the use of specific, low-intensity ultrasound. *J Bone Joint Surg [Am].* 1997;79(7):961-973. 4. Heckman JD, Ryaby JP, McCabe J, et al. Acceleration of tibial fracture-healing by non-invasive low-intensity pulsed ultrasound. *J Bone Joint Surg [Am].* 1994;76(1):26-34. 5. Leung KS, Cheung WH, Zhang C, et al. Low intensity pulsed ultrasound stimulates osteogenic activity of human periosteal cells. *Clin Orthop Rel Res.* 2004;418:253-259. 6. Naruse K, et al. Prolonged endochondral bone healing in senescence is shortened by low-intensity pulsed ultrasound in a manner dependent on COX-2. *Ultrasound Med Biol.* 2010;36(7):1098-1108. 7. Sant'Anna EF, Leven RM, Viridi AS, et al. Effect of low intensity pulsed ultrasound and BMP-2 on rat bone marrow stromal cell gene expression. *J Orthop Res.* 2005;23(3):646-652.

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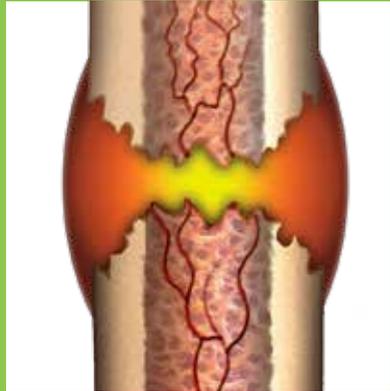
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exogen[®]
ultrasound bone healing system

 bioventus[™]

How EXOGEN Works

Inside the body's natural bone healing process



Inflammation

When a bone breaks, white blood cells move in to clean up debris created by the break. This creates inflammation, which triggers the growth of new blood cells — the first stage of healing.



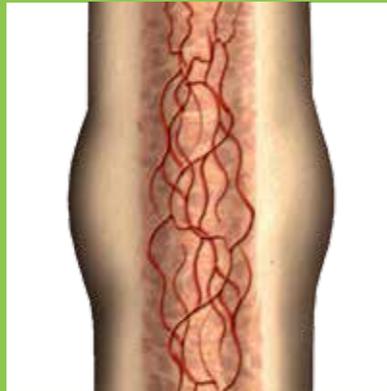
Soft Callus

Blood cells divide and multiply near the break and new blood vessels develop to fuel the repair process. The body also begins to create fibrous tissue to bridge the break in the bone. This material is called the soft callus.



Hard Callus

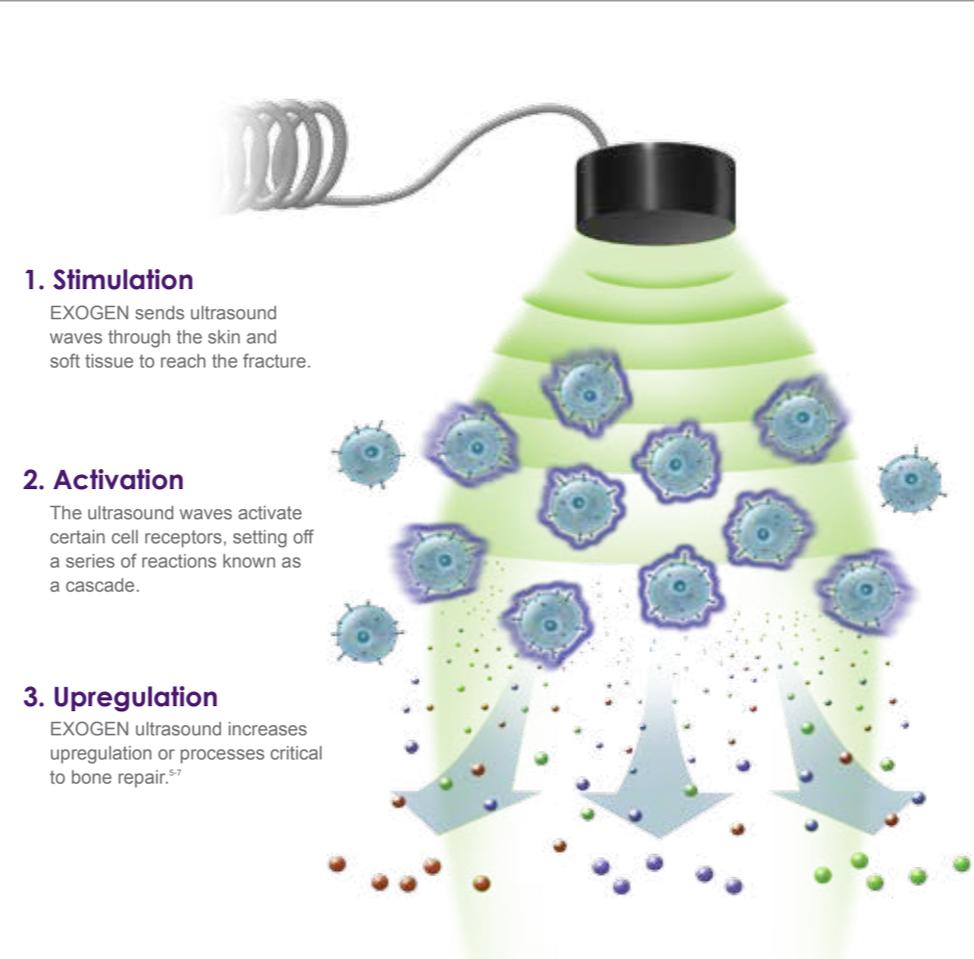
The body gradually replaces the soft callus with a hard callus, connecting the bone fragments more solidly. This stronger callus, which creates a bulge at the site of the fracture, can generally be seen in X-rays just a few weeks after the fracture occurs.



Bone Remodeling

In the final stage of bone fracture healing, the body replaces old bone with new in a process called remodeling. Remodeling makes bones stronger and more compact and blood circulation in the bone improves.

How EXOGEN ultrasound enhances the healing process



Patient Support Tools



EXOGEN Performance Guarantee

Guarantees that if your non-union¹ fracture has not shown progression of healing, and you have met the requirements of the program, Bioventus will refund all out-of-pocket costs.

Treatment Tracking Calendar

EXOGEN's built-in treatment tracking calendar helps you stay consistent with your daily treatments by indicating completed and missed treatments on the monthly calendar.

20-Minute Treatment

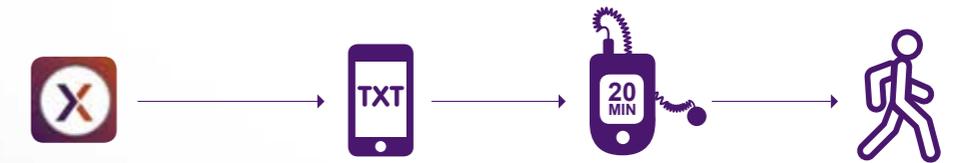
With treatments lasting just 20 minutes, EXOGEN can fit conveniently into your day.

Customer Support

EXOGEN Customer Support is available to answer questions and help maintain continuity of treatment at 1800 428 220.

Smartphone App with Treatment Reminder

EXOGEN CONNECTS is a free smartphone app that sends automated treatment reminders and provides helpful healing information.



1. Download

The EXOGEN CONNECTS app, available on the App Store, is easy to download and activate.

2. Receive

Patients receive daily treatment reminders on their smartphone.

3. Treat

Automated reminders encourage patients to complete their daily 20-minute treatment.

4. Heal

Using EXOGEN as prescribed can help put patients on the road to faster healing.