

October 2021 News Update

## CASE REPORT: ELECTROMAGNETIC ENERGY FOR REDUCED PAIN AND MEDICATIONS AFTER LOWER LIMB AMPUTATION

**A patient's experience: Mr. Karl Milner. U.S. Army  
Sergeant, sniper.**

**Abstract:** Male sniper sustained a right knee amputation caused by complications from a gunshot wound. When he was 19, the projectile entered his right knee and exited his right ankle. He endured years of infections and surgeries trying to save his leg. His pain score was 8 to 10+ and he could not function, walk, or enjoy activities. He was taking 30 10mg oxycodone a day, 10 10mg morphine a day, and a half bottle of Ibuprofen every day. At age 45, the pain was unbearable, and he asked for an amputation.



During surgery, the site was not sutured closed. This resulted in Methicillin-resistant staphylococcus aureus (MRSA) infections. Due to persistent infections, he underwent 3 higher-level amputations and 17 revision surgeries. During this period, he developed diabetes and neuropathy. Once his wounds were healed, he was mostly confined to a wheelchair for 5 years and his weight rose to 480 pounds.



Pain and edema continued to be issues, and he could not stand for more than 30 minutes. He received care from a Veterans Affairs (VA) pain clinician who prescribed Provant Therapy. After self-treating at home with Provant for 2 months, his pain dropped to a 7. After 9 months, his pain dropped to a 2; his medications also dropped, to 4 10mg oxycodone a day and 4 10mg morphine a day.

Edema started to decrease rapidly requiring a change in prosthetic sockets 1 to 2 times a monthly, initially. Edema was totally absent in 3 months. Pain remains a 2 today, and he is no longer taking morphine and taking oxycodone 5mg infrequently.

	Before Provant	After 9 Months Provant	After 2 Years Provant
Pain Score 0-10	8-10/10	2	2
Pain Meds	Oxycodone: <u>30x10mg/day</u>  Morphine: <u>10x10mg/day</u>  Ibuprofen: ½ bottle/day	Oxycodone: <u>4x10mg/day</u>  Morphine: <u>4x10mg/day</u>  Ibuprofen: None	Oxycodone: 5mg infrequently  Morphine: None  Ibuprofen: None

He lost 275 pounds and is no longer wheelchair dependent. His quality of life and daily activities are markedly improved, including the Veteran ski team and biking team. He coaches other vets during skiing season, and he started paragliding. He enjoys the outdoors and became an avid gardener.

You may learn more about Sergeant Milner's journey [here](#).

For post-operative pain relief, consider Provant®. Provant is proven in clinical trials and real-world patient experiences to provide meaningful pain relief and improved quality of life. To learn more, please contact your Regenesys Biomedical representative, call 877-970-4970, or visit [www.regenesysbio.com](http://www.regenesysbio.com).

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