

## Press Release

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INDEPENDENCE, Ohio – Checkpoint Surgical has launched [TMRnerve.com](http://TMRnerve.com), a new website designed to educate patients and physicians about Targeted Muscle Reinnervation (TMR). TMR is a surgical technique performed to relieve nerve-related pain in amputees and other patient populations.

"This new website brings together useful and timely information about nerve pain and its successful treatment", said Gregory Dumanian, MD, a pioneer of the TMR procedure and medical director for TMRnerve.com.

The mission of TMRnerve.com is to serve as an information resource for patients seeking answers to post-amputation nerve pain. Up to 36% of the more than 2 million amputees in the US suffer from chronic nerve pain without effective treatment. Chronic post-amputation nerve pain may significantly degrade the quality of life for the sufferer and lead to depression, disability or drug dependence. As a surgical procedure, TMR is a long-term, non-drug solution, offering new hope for post-amputation nerve pain.

The TMRnerve.com website offers tools to help patients talk to their physician about TMR, as well as a directory to help them locate a TMR surgeon in their area. A healthcare portal provides access to resources for physicians who are interested in discussing TMR with patients or other physicians.

### Origins of TMR

TMR was pioneered in 2002 by Dr. Todd Kuiken and Dr. Greg Dumanian at Northwestern University. The procedure was originally developed to help amputees control their upper limb prosthetics using natural muscle movement. Throughout their research, Drs. Kuiken and Dumanian observed an additional, unexpected benefit of TMR surgery in amputees, which was reduced neuroma and phantom limb pain.<sup>1</sup>

During a TMR procedure, surgeons reroute amputated nerves by attaching them to other nerves in nearby muscles. TMR works to "heal" the end of the nerve by allowing the nerve to connect once again to nerve receptors found in the muscle. Studies<sup>2,3</sup> have demonstrated that patients who underwent TMR surgeries experienced less pain than patients who received older treatments for amputated nerves — namely, trying to surgically "hide" the cut nerve endings.

For more information about the TMR procedure, visit [TMRnerve.com](http://TMRnerve.com).

<sup>1</sup> Souza JM, Cheesborough JE, Ko JH, et al. Targeted muscle reinnervation: a novel approach to postamputation neuroma pain. Clin Orthop Relat Res. 2014;472:2984–2990.

<sup>2</sup> Dumanian GA, Potter BK, Mioton LM, et al. Targeted muscle reinnervation treats neuroma and phantom pain in major limb amputees: a randomized clinical trial. Ann Surg. 2018.

<sup>3</sup> Valerio IL, Dumanian GA, Jordan SW, et al. Targeted muscle reinnervation (TMR) at the time of major limb amputation decreases phantom and residual limb pain. J Am Coll Surg. 2019;228:217-226.

### About Checkpoint Surgical

Checkpoint Surgical is a privately held medical device company based in Cleveland, Ohio. The company works alongside surgeons to advance the science and practice of nerve care through education and innovative product development. Checkpoint Surgical's state of the art nerve stimulation devices inform intraoperative decision making to help surgeons safely and effectively protect, assess and repair motor nerves during surgeries. The Checkpoint Stimulator may be used to identify motor nerves and muscle during TMR and other surgical procedures. For more information about Checkpoint Surgical, visit [checkpointsurgical.com](http://checkpointsurgical.com).