

# JPNII

Advancing the knowledge  
and practice of medicine  
for neurological disorders  
through clinical research



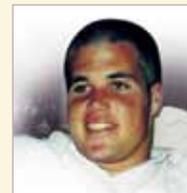
JUSTIN PARKER  
NEUROLOGICAL  
INSTITUTE

[www.jpni.org](http://www.jpni.org) | 303.938.5700

The mission of JPNI is to advance scientific discoveries and innovative medical technologies into clinical practice by conducting clinical trials in order to implement best practices and disseminate that knowledge to the medical community.

## Tragedy Leads to Improving Lives Through Research and Education

On July 20, 2003, 22-year-old college student, Justin Parker, sustained a severe traumatic brain injury due to an unfortunate accident. Justin's family immediately came to Colorado to be by his side. Local hospital staff, nurses and chaplain helped the Parker family cope with several days of anguish and uncertainty until his death on July 31, 2003. While they lost a son and brother, Justin's family gained a community of friends in Northern Colorado.



Justin Parker

Shortly after Justin's death, the **Justin Parker Neurological Institute (JPNI) was founded in 2003 by Boulder Neurosurgical & Spine Associates (BNA) surgeons, Justin's father, Dr. John Parker, and his family in memory of their son and brother.**

The Parker family wished to extend their appreciation to all the individuals involved in Justin's care during his last days, while also leaving a legacy wherein Justin's name would be synonymous with improving the lives of other individuals with neurosurgical conditions through clinical research.

**JPNI is an accredited 501(c)(3) nonprofit scientific research organization** primarily focusing on brain and spine conditions including traumatic brain injury, tumors, degenerative spinal disorders and pain syndromes. JPNI also provides fellowship and internship opportunities to neurosurgical and orthopedic spine surgeons and students who are pursuing careers in medicine. Continued medical education events are presented annually on the latest advancements in the treatment of cranial and spinal disorders to promote evidence-based medicine to health care providers.



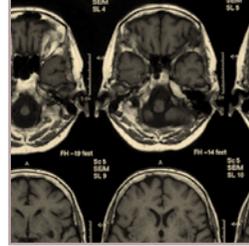
## The Need for Clinical Research and Your Support

Innovations in medical technology, surgical techniques and pharmaceuticals are driving forces in advancing the medical industry. Medical device and pharmaceutical companies have traditionally sponsored prospective clinical trials that led to the approval of new products. Unfortunately, there is now a lack of independent research organizations and clinical studies to evaluate emerging technologies and clinical outcomes in many brain and spinal disorders. Maintaining the highest standards of integrity and ethics, JPNI was in part created to conduct clinical trials and objectively assess the safety and efficacy of novel therapies for those impacted by neurological conditions.



## The Benefits of JPNI Research

JPNI has initiated and conducted numerous prospective clinical trials that have been extensively published, presented and recognized at national and international meetings. The physicians of JPNI were granted the BrainLAB Community Neurosurgery Award by the American Association of Neurological Surgeons (AANS) for our work that studied survival of malignant brain tumor patients treated with stereotactic radiosurgery. We also received the Best Paper Award from the North American Spine Society (NASS) for a study that analyzed how sagittal alignment can improve clinical outcomes in patients undergoing cervical spine surgery. These are just a few examples how clinical research enables us to provide the best possible clinical outcomes to patients and promote evidence-based medicine that reaches far beyond our community.



Dr. E. Lee Nelson discussing a spinal condition and treatment options



# RESEARCH

The majority of JPNI's funding is derived from grants, collaborative industrial partnerships and private donors. As traditional research funds are becoming less available, we must seek more diverse funding streams. A donation to JPNI will allow our researchers to continue their work more efficiently and identify superior methodologies to diagnose, treat and manage neurological conditions. Your support to JPNI is a commitment to a better quality of life for all individuals with neurological conditions, as well as those who may be impacted by a neurological condition in the future.



Community health needs assessments help us to rapidly implement emerging translational and clinical opportunities. JPNI's involvement in FDA-controlled and industry-sponsored clinical trials has allowed us to treat patients with the most technically advanced and novel technologies, which would not otherwise have been available. This experience has enabled us to drive forward technological innovations and new treatments such as targeted neuroprotective pharmacological therapies in traumatic brain injury patients, utilization of amniotic membrane for scarring prevention in spine surgeries, CO<sub>2</sub> laser-assisted and minimally invasive spine surgeries, stem cell therapy, and dynamic stabilization and motion preservation devices as alternatives to fusion surgeries.

## Beyond our Community

We also believe that our responsibility for patients reaches beyond our local community. Our humanitarian missions to locations such as Inner Mongolia not only help patients with severe spinal deformities, but also provide a unique hands-on training and experience for the local physicians.



Dr. Alan Villavicencio, far left, consulting with scoliosis patient in Mongolia.

## I would like to support JPNI.

### Donation Form

You may give a gift by calling 303.938.5700, visiting [www.jpni.org](http://www.jpni.org), or using a check or credit card.

- Enclosed is a check payable to JPNI
- Please accept my credit card donation:
- Visa    MasterCard    American Express    Discover

CREDIT CARD NUMBER \_\_\_\_\_

EXP. DATE \_\_\_\_\_ SECURITY CODE \_\_\_\_\_

SIGNATURE \_\_\_\_\_

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY, STATE, ZIP \_\_\_\_\_

PHONE \_\_\_\_\_ EMAIL \_\_\_\_\_

I/we wish to pledge the amount of \_\_\_\_\_ dollars,  
(or) \_\_\_\_\_ shares of \_\_\_\_\_ securities,  
(or) other \_\_\_\_\_

My employer will match my gift. Please contact me for more information.  
Phone: \_\_\_\_\_

### Recognition Options

I would like to have this gift publicly acknowledged  Yes  No  
I/we would like my/our name(s) to appear in the following manner:

\_\_\_\_\_

I/we wish to have my/our gift made in memory of: \_\_\_\_\_

\_\_\_\_\_

I/we wish to have my/our gift made in honor of: \_\_\_\_\_

\_\_\_\_\_

All gifts are tax deductible in accordance with the law.

# A patient experience

“In 2007 I started to experience chronic back pain and, having exhausted all non-surgical options, decided the only remedy was to have surgery. Given the nature of any back surgery, I knew it was important to find the right and preferably long-term solution for my problems. It was encouraging to learn the physicians at JPNI were involved in several large clinical trials, one of which investigated a novel treatment already available in Europe and Australia and was, at the time, being trialed in the USA. My chronic pain stemmed from disc degeneration between the L4 and L5 vertebrae and this procedure was minimally invasive and was not trying to remove or replace anything. Instead, it was designed to support and allow normal motion of the back.



# I found my surgeon

“Following the 45-minute successful procedure in January of 2008, I remained in the outpatient ward for a few hours before being released later that day. Physical therapy and a daily regime of core strengthening ensured that over time my back recovered completely. These days I’m doing things that I thought I would never do again, I am able to swim and bicycle ‘pain free’ and enjoy the occasional run while keeping up with my core exercises to strengthen my back as I age.”



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