



PACIFIC NEUROSCIENCE INSTITUTESM

A LOOK BACK AT 2017 &
LOOKING AHEAD TO 2018



The past year at Pacific Neuroscience Institute (PNI) was one of amazing growth and transformational milestones. The year ahead is shaping up to be even more momentous. Herein we provide HIGHLIGHTS of our accomplishments in 2017 and what's on the horizon for 2018.

OUR PNI MISSION

- Provide personalized, precision multidisciplinary patient care
- Advance the neurosciences and promote brain health through novel research and innovative clinical trials
- Train the next generation of clinician and research neuroscientists
- Educate patients and the community at large on vital neuroscience issues



NEUROSCIENCE CLINICAL CARE

2017 was a year of expansion and alignment as PNI Medical Group and its 17 physicians officially joined with Providence Health & Services in September. In our partnership with Providence Saint John's Health Center, we continued providing and expanding our services for treating patients with benign and malignant brain tumors, pituitary tumors and related hormonal disorders, stroke and other neurovascular diseases, adult hydrocephalus syndromes, vision and hearing disorders, facial pain syndromes, movement disorders such as Parkinson's disease and essential tremor, as well as dementia and autoimmune syndromes. Beginning in February, PNI neurosurgeons and interventional neuro-radiologists began delivering care at Providence Little Company of Mary Medical Center Torrance and San Pedro Hospitals. In November, our PNI Outpatient Clinic opened at Providence Little Company of Mary and in December, PNI Medical Group aligned with Facey Medical Group to offer neuroscience care to their patients. New initiatives included the Autoimmune Disorders Program and Family Caregiver Program.

2018 promises further expansion. Our PNI Outpatient Clinic, at 2125 Arizona Boulevard, across from the Saint John's Emergency Room will open for patients in early Spring. The PNI Medical Group will add more neurosurgical, neuro-oncological, neuro-interventional, neuro-ophthalmology and

ENT faculty. In addition, we will be helping Providence achieve Thrombectomy-Capable Stroke Center status at Saint John's and Comprehensive Stroke Center status at Little Company of Mary and Providence Saint Joseph's Medical Center in Burbank.

CLINICAL TRIALS & RESEARCH

2017 was a year of amazing progress and productivity in opening novel clinical trials and peer-reviewed publications in the realm of benign and malignant brain tumors, pituitary tumors and stroke. In total, PNI and the John Wayne Cancer Institute had over 20 neuro-oncology clinical trials open for enrollment, including two surgical clinical trials related to glioblastoma (GBM) and stroke. PNI/JWCI led the nation in enrollment for the Medicenna Convection-Enhanced Delivery trial of MDNA55 for recurrent or progressive GBM (of which our very own, Saint John's Health Center Foundation trustee, Rusty Doms was the first patient on the west coast to participate). We were also one of the lead enrolling centers for the Sunovion Phase 2 study of modified stem cells in patients with chronic motor deficit from ischemic stroke. PNI faculty also published over 30 peer-reviewed neuroscience papers.

2018 will see numerous new PNI clinical trials opening for our patients with primary brain cancers, metastatic brain tumors, pituitary tumors, and neurodegenerative diseases. We are poised to publish multiple manuscripts that are currently works in progress. Several new grant applications will also be submitted.



TRAINING & CONTINUING MEDICAL EDUCATION

2017 was exciting on the training and education front with a total of four PNI neurosurgical fellows, including one clinical fellow and three visiting international fellows from China and Chile learning under the direction of PNI faculty. We established the PNI Neuroscience Internship Program with Pomona College for undergraduates interested in a career path in the neurosciences and/or medicine. The Neuroanatomical Surgical Skills Laboratory has continued to be a platform for innovation and fellowship training in minimally invasive skull base surgery, neuroanatomical dissections, and technology and approach advancements in keyhole surgery. Finally, in the fall of 2017, PNI hosted the first annual Pacific Neuroscience Symposium, a 2-day continuing medical education event for doctors, as well as the 9th Annual Neuroscience Nursing Symposium. Throughout the year, PNI professors presented at multiple national and international conferences across the neurosciences including Colombia, Australia, China, India, and many cities throughout the United States.

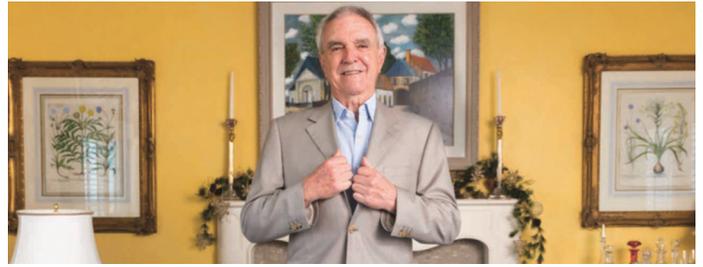
2018 will see us expanding our PNI fellowships into neuro-oncology and ENT/otolaryngology, and continuing our PNI Neuroscience Internship Program with Pomona College. We will be the local host for the upcoming International Society of Pituitary Surgeons meeting in San Diego in February, 2nd Pacific Neuroscience Symposium, and 10th Neuroscience Nursing Symposium. Finally, the new and expanded PNI multidisciplinary Neuroanatomical Surgical Skills Laboratory is under construction at the John Wayne Cancer Institute and scheduled to open in the spring.



PATIENT & COMMUNITY EDUCATION

2017 was a year of continued support for our patients both in person through our support groups and on the web with numerous educational and informative PNI blogs. Our pituitary patient support group continued its bi-annual meetings at Saint John's Health Center. Our movement disorders and stroke teams also had multiple patient and community events at Saint John's and Little Company of Mary Torrance.

2018 will be a year with ongoing focus on patient support and education for those with brain tumors, pituitary tumors, stroke, and movement disorders. We will also begin a brain health initiative exploring and recommending ways for people to maximize their brain fitness in both sickness and in health.



FOUNDATIONS SUPPORT PROGRESS & INNOVATION

2017 was the year that PNI Foundation formally aligned with Saint John's Health Center Foundation. Through a philanthropic partnership between the two foundations, Saint John's Health Center Foundation has assumed primary responsibility for fundraising in partnership with the PNI physicians to support and ensure critical funding needs are met to propel PNI forward. This alignment was kicked off by the PNI Launch Event in January at Creative Artists Agency (CAA). Our PNIF mission is to fundamentally advance neuroscience clinical care through novel treatments that optimize brain health and quality of life, to train the next generation of neuroscientists and clinicians, and to educate patients and the community at large on vital neuroscience issues. We are fortunate to have Jae Goodman, Carole Schwartz and Donna Tuttle on our PNIF Board of Directors, as well as Rusty Doms, Mary Flaherty, Bob Klein and Donna Schweers who serve as PNIF Special Advisors (all of whom are also Saint John's Health Center Foundation trustees).



2018 will be a year focused on fundraising to meet our mission and expand the availability of innovative life-altering and life-sustaining treatments for our current and future patients with neurological disorders. This will be a truly collaborative effort with SJHC Foundation and the John Wayne Cancer Institute aimed at fueling innovative, translational and clinical research projects, clinical trials support, peer-reviewed publications, database infrastructure, neuroanatomical skills laboratory, fellowship training, faculty recruitment, patient education and community outreach. Our first big event of 2018 will be the PNI Clinic Opening in Spring 2018.



PNI Founders (left to right) Santosh Kesari MD, PhD, Chester Griffiths, MD, Daniel Kelly, MD, and Howard Krauss, MD

2017 BY THE NUMBERS

NEUROSCIENCE CLINICAL CARE



- 8 Centers of Excellence
- 17 Medical Group Faculty
- 15 Associate Medical Group Faculty
- 8 Nurse Practitioners and Physician Assistants
- 3 Medical Group Outpatient Clinics
- 5 Providence Hospitals Affiliated with PNI Medical Group Physicians
- 2205 Medical Group Surgical Procedures (Neurosurgical 435 / Neurointerventional (Stroke) 554 / ENT & Ophtho 1216)

RESEARCH & CLINICAL TRIALS



- 32 Peer-Reviewed Publications and In Press
- 8 Grants
- 23 Clinical Trials & Expanded Patient Protocols
- 71 Clinical Trial Patients Enrolled

TRAINING & CONTINUING MEDICAL EDUCATION



- 63 CME Conferences (Weekly, Monthly and Annual)
- 2 Neuroscience Symposia
- 3 Neuro-Anatomy Brain-Cutting Sessions
- 11 Neuro-Anatomy Formal Dissections
- 4 Neurosurgical Fellows in Training (Clinical and International)
- 4 Neuroscience Interns (Undergraduate and Graduate)

PATIENT & COMMUNITY EDUCATION



- 4 Patient Support Groups
- 12 Community Events
- 61 Blogs

FOUNDATIONS SUPPORT NEUROSCIENCE PROGRESS & INNOVATION



- 7 PNIF Board Members
- 9 Fundraising Events
- \$1,286,493 Funds Raised in Partnership with Saint John's Foundation



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