Thank you for giving so generously to the Neurosurgery Research & Education Foundation (NREF). Since its inception, the NREF has made significant strides in advancing the specialty and improving patient care through the investment of more than $28 million in neurosurgery, including $1,783,062 in Fiscal Year 2019 (7/1/18-6/30/19).

None of this is possible without the support of generous donors like you. Together, we will advance neurosurgery and improve lives.

RESEARCH – GRANTS, FELLOWSHIPS AND AWARDS

- The NREF awarded the following grants and fellowships in 2019:
  - 25 Medical Student Summer Research Fellowships, including five supported by a generous contribution from Aaron A. Cohen-Gadol, MD, MBA, FAANS
  - 12 NREF Research Fellowship Grants and Young Clinician Investigator Awards in cerebrovascular, pain, pediatrics, spine, stereotactic and functional, trauma and tumor were awarded to neurosurgical residents and junior faculty
  - 13 Clinical Fellowship Grants for the 2019-20 academic year, supported by industry partners, including DePuy Synthes, Globus Medical, Medtronic and NuVasive
  - 2 Cerebrovascular Section Traveling Fellowships were awarded to practicing, CAST-certified neurointerventionalists
  - 1 William P. Van Wagenen Fellowship was awarded to Ezequiel D. Goldschmidt, MD, PhD, a resident at University of Pittsburgh
- The JNS published “Characteristics and career outcomes of Neurosurgery Research and Education Foundation research fellowship recipients”, co-authored by NREF grant recipient Analiz Rodriguez, MD, PhD

EDUCATION – COURSES AND SPECIAL PROGRAMS

- The NREF sponsored five courses in 2019 for neurosurgical residents and fellows to receive advanced educational training.
- The AANS and the NREF are collaborating with the European Association of Neurosurgical Societies (EANS) to provide residents an opportunity to further their neurosurgical knowledge and forge friendships with their European counterparts.

OUTCOMES

The NREF Board of Directors gratefully acknowledges Medtronic and DePuy for their continued support of Effectiveness of Fusion for Grade I Spondylolisthesis, a NeuroPoint Alliance (NPA) QOD study.

CUSHING CIRCLE OF GIVING

The Cushing Circle of Giving, a cumulative lifetime giving society for donors committed to advancing neurosurgery with a contribution or pledge of $25,000 or more, welcomed the following new and elevated members in the past year:

**Individual Donors**
- Ronald I. Apfelbaum, MD, FAANS(L)
- Peter W. Carmel, MD, FAANS
- John R. Caruso, MD, FAANS
- William L. Caton, III, MD, FAANS
- Jefferson W. Chen, MD, PhD, FAANS
- Kevin M. Cockroft, MD, FAANS
- M. Sean Grady, MD, FAANS
- Adam S. Kanter, MD, FAANS
- Adrian W. Laxton, MD, FAANS
- James J. Lynch, MD, FAANS
- Jacques J. Morcos, MD, FAANS
- Christopher J. Neal, MD, FAANS
- Michael Schuler, MD, FAANS
- Walavan Sivakumar, MD
- Gary K. Steinberg, MD, PhD, FAANS
- Marjorie C. Wang, MD, MPH, FAANS
- Stacey C. Wolfe, MD, FAANS

**Institutional Donors**
- American Society for Stereotactic and Functional Neurosurgery (ASSFN)
- Barrow Neurological Institute
- Robert Watson Society
- University of North Carolina Department of Neurosurgery

www.NREF.org/Donate
Elevated Donors

**Platinum**
- Dr. and Mrs. Russel H. Patterson Jr.

**Gold**
- John L. D. Atkinson, MD, FAANS
- Hans C. Coester, MD, FAANS

**Silver**
- Aaron A. Cohen-Gadol, MD, FAANS
- Kai-Ming Fu, MD, PhD, FAANS
- Theodore R. Jacobs, MD, FAANS
- Benjamin B. LeCompte III, MD, FAANS(L)
- Drs. Shelly D. Timmons and Russel A. Carter
- Michael Y. Wang, MD, FAANS

**YOUNG NEUROSURGEONS CIRCLE OF GIVING**
This giving society, recognizing residents who have made a commitment early in their careers to advance the specialty through support of neurosurgical research and education, includes the following members:

**Gold**
- Nitin Agarwal, MD, Univ. of Pittsburgh
- Nathaniel R. Ellens, MD, Univ. of Rochester
- Redi Rahmani, MD, Univ. of Rochester

**Silver**
- Ezequiel D. Goldschmidt, MD, PhD, Univ. of Pittsburgh
- Stephen T. Magill, MD, PhD, Univ. of California/San Francisco
- Michael M. McDowell, MD, Univ. of Pittsburgh

**Bronze**
- Joel Beckett, MD, Univ. of California/Los Angeles
- Allen L. Ho, MD, Stanford University
- Ibrahim Hussain, MD, New York Presbyterian/Cornell
- Neil Majmundar, MD, Rutgers New Jersey Medical School
- Visish M. Srinivasan, MD, Baylor College of Medicine
- Steven Tenny, MD, MPH, MBA, Univ. of Nebraska

**PINNACLE PARTNERS IN NEUROSURGERY**
The NREF gratefully acknowledges the following corporate supporters for their commitment to advance neurosurgery:

**Principal Partner**
Medtronic

**Major Partner**
DePuy Synthes

**Supporting Partners**
Brainlab, Globus Medical, Leica Microsystems, Varian Medical Systems and ZEISS

**PARTNERSHIPS**

- **B*CURED** – The NREF awarded the fourth $50,000 B*CURED-NREF Research Grant, funded by B*CURED, a non-profit organization whose mission is to end brain cancer, to Christina Jackson, MD, of Johns Hopkins University.

- **AANS Young Neurosurgeons Committee (YNC)** – The NREF has partnered with the YNC to present the NREF-YNC Social Media Lab, whose mission is to promote social media engagement and education among neurosurgeons.

- **The Chuck Noll Foundation** – The inaugural Chuck Noll Lecture on Neurotrauma was delivered by Joseph Charles Maroon, MD, FAANS(L), at the 2019 AANS Annual Scientific Meeting.
HONOR YOUR MENTOR FUNDS

Honor Your Mentor (HYM) Funds recognize neurosurgical luminaries, both past and present. There are now 56 HYM Funds, with pledges totaling $5,814,658 from 1,711 donors. HYM Fund honorees include:

A. Leland Albright
Albert L. Rhoton, Jr.
Allan H. Friedman
Andrew T. Parsa
Anthony Marmarou
Charles B. Wilson
Charles G. Drake
Charles Kuntz IV
Charles L. Branch, Sr.
Charles H. Tator
Christopher I. Shaffrey
David L. Kelly, Jr.
David Kline
Donald O. Quest
Ed Benzel
Edward H. Oldfield
Edward R. Laws
Edward S. Connolly
Henry G. Schwartz
Hoi Sang U
Howard J. Silberstein
Jack P. Rock
James T. Rutka
John C. Oakley
Joseph S. Cheng
Karin M. Muraszko
Katie O. Orrico
Kent C. New
Kim J. Burchiel
L. Dade Lunsford
Lyal G. Leibrock
Martin H. Weiss
Michael T. Lawton
Peter J. Jannetta
Philip E. Stieg
R. Michael Scott
Ralph G. Dacey
Regis W. Haid, Jr.
Richard G. Fessler
Robert E. Habbaugh
Robert F. Heary
Robertson Brothers
Roy A. E. Bakay
Sanford J. Larson
Sanjiv Bhatia
Shelby D. Timmons
Stewart B. Dunsker
Thoralf M. Sundt, Jr.
Ulrich Batzdorf
Volker K.H. Sonntag
Warren C. Boop, Jr.
Warren R. Selman
Global Humanitarian
Military Heroes
NSA Neurosurgical Founders

To date, the following HYM Funds have provided over $300,000 in funding for projects and awards:

Albert L. Rhoton Fund
Rhoton Young Clinician Investigator Award for Neuroanatomical Research
2018 Maria Peris-Celda, MD, PhD, Albany Medical College

Rhoton Medical Student Summer Research Fellowship
2018 Sricharan Gopakumar, Baylor College of Medicine
Brian F. Jimenez, University of Tennessee

Andrew T. Parsa Fund
Andrew T. Parsa Research Fellowship Grant
2017 Darryl Lau, MD, University of California-San Francisco
2018 Teddy Kim, MD, Wake Forest School of Medicine
2019 Benjamin T. Himes, MD, Mayo Clinic

Charles Drake Fund
The fund provides support to the AANS/CNS Cerebrovascular Section for ongoing educational and research programs.

Charles Kuntz IV Fund
The fund supports awards for residents and fellows to present research at the Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves.


www.NREF.org/Donate
The Neurosurgery Research & Education Foundation (NREF) is a not-for-profit, 501(c)(3) organization created in 1980 by the American Association of Neurological Surgeons (AANS) to support research and education efforts that enhance and confirm the critical role neurosurgeons play in improving lives. For more information about the NREF, visit www.nref.org.