



Education and Training Core Update

October 13, 2021

Training Core

- Mission: To develop stroke-related knowledge and skills for RCC trainees through formal and informal interactive content and mentorship
- Programming –
 - Grand Rounds Webinar Series
 - Professional Development Webinar Series
 - Learning Communities
 - Mentored Trainee Research with presentations
- All trainees get **50% protected time.**

Education and Training core

- Randolph Marshall (Chair)
- Devin Brown (Co-Chair)
- Scott Janis (NINDS)
- Harold Adams
- Tatjana Rundek
- Cemal Sozener
- Shyam Prabhakaran
- Farhaan Vahidy
- Anthony Kim
- Andrea Escobar (RCC Coordinator)
- Stephanie Wilbrand (RCC Coordinator)
- Amit Sethi - Pittsburgh (Trainee)
- Lily Zhou - Stanford (Trainee)
- *Jeanne Sester (Coordinator)*

Metrics

- Attendance at Grand Rounds and Professional Development Webinars (mandatory) live or viewed later on the StrokeNet website
- Track progress of trainees during the year with surveys and progress reports, phone/Zoom interviews when needed
- Trainee research presentations
 - In person (*Zoom*) at national meeting
 - Within the Professional Development webinar
- Publications, grant submissions, and professional appointments during and post-StrokeNet training
- Database kept by Jeanne Sester (Thank you)

National Institutes of Health StrokeNet Training Core

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Maranatha Ayodele, MD; Rebekah J. Richards, MD, MPH; Richa Sharma, MD;
Stephanie M. Wilbrand, PhD; Shyam Prabhakaran, MD; Barbara S. Bregman, PT, PhD;
Harold P. Adams, Jr, MD; Lori C. Jordan, MD, PhD; David S. Liebeskind, MD;
David Tirschwell, MD, MSc; L. Scott Janis, PhD; Randolph S. Marshall, MD, MS;
Dawn Kleindorfer, MD

Background and Purpose—The National Institutes of Health (NIH) StrokeNet provides a nationwide infrastructure to advance stroke research. Capitalizing on this unique opportunity, the NIH StrokeNet Training Core (NSTC) was established with the overarching goal of enhancing the professional development of a diverse spectrum of professionals who are embedded in the stroke clinical trials network of the NIH StrokeNet.

Methods—This special report provides a descriptive account of the rationale, organization, and activities of the NSTC since its inception in 2013. Current processes and their evolution over time for facilitating training of NIH StrokeNet trainees have been highlighted. Data collected for monitoring training are summarized. Outcomes data (publications and grants) collected by NSTC was supplemented by publicly available resources.

Results—The NSTC comprises of cross-network faculty, trainees, and education coordinators. It helps in the development and monitoring of training programs and organizes educational and career development activities. Trainees are provided directed guidance towards their mandated research projects, including opportunities to present at the International Stroke Conference. The committee has focused on developing sustainable models of peer-to-peer interaction and cross-institutional mentorships. A total of 124 professionals (43.7% female, 10.5% underrepresented minorities) have completed training between 2013 and 2018, of whom 55% were clinical vascular neurologists. Of the total, 85% transitioned to a formal academic position and 95% were involved in stroke research post-training. Altogether, 1659 indexed publications have been authored or co-authored by NIH StrokeNet Trainees, of which 58% were published during or after their training years. Based on data from 109 trainees, 33% had submitted 72 grant proposals as principal or co-principal investigators of which 22.2% proposals have been funded.

Conclusions—NSTC has provided a foundation to foster nationwide training in stroke research. Our data demonstrate strong contribution of trainees towards academic scholarship. Continued innovation in educational methodologies is required to adapt to unique training opportunities such as the NIH StrokeNet.

Key Words: education ■ National Institutes of Health ■ neurologists ■ organizations ■ stroke



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Sibaji Gaj



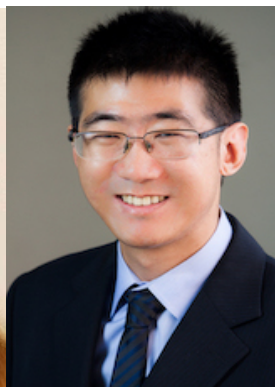
Stephanie Hage



Praveen Hariharan



Anna Huguenard



Michael Jang



Krishna Kandregula



Mohammad Kawas



Dearblha Kelly



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Nastajja Krementz



Smit Patel



Hanna Roeder



Nicole Rosendale



Kristen Sandefer



**Monica Maria
Noya Santana**



Amit Sethi



Lorena Viana



Lily Zhou

2021-2022 Trainees

Level of Trainee

Fellow	12
Junior Faculty	7
Post Doctoral Fellow	1
Trainee	2
Instructor	1
Graduate Student	1
	24

Disciplines

Neurology	9
Vascular Neurology	5
Neurosurgery	2
Nephrology	1
Neurologic Physical Therapy	1
Biomedical Engineering	1
Neurology/Neurohospitalist	1
Occupational Therapy	2
Epidemiology	1
Radiology	1
	24

Degrees

MD	12
MD, PhD	1
MD, MPH	2
MD, MA, MSc	1
PhD	1
PhD, OTR/L	1
PhD, MSCI, MSOT	1
MB, BCh, BAO, MSc, DPhil, MRCPI, MRCP(UK)	1
PT, DPT, MS-CR, NCS	1
MBBS	1
MPH	1
MBBS, MPH	1
	24

Minority/Underrepresented

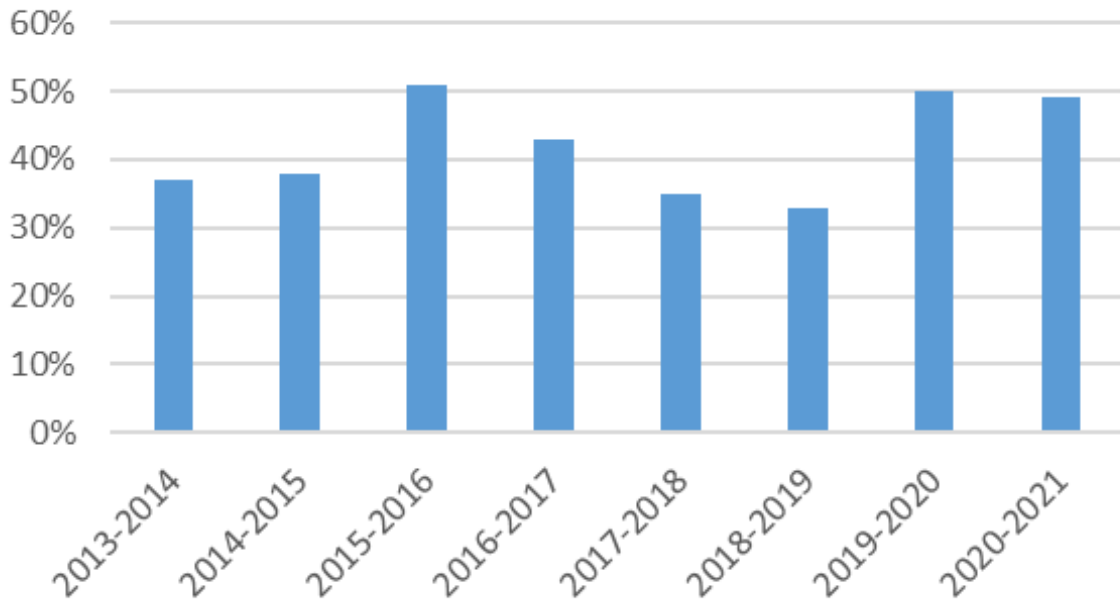
Female Hispanic	2
Female African American	1
	3

Gender

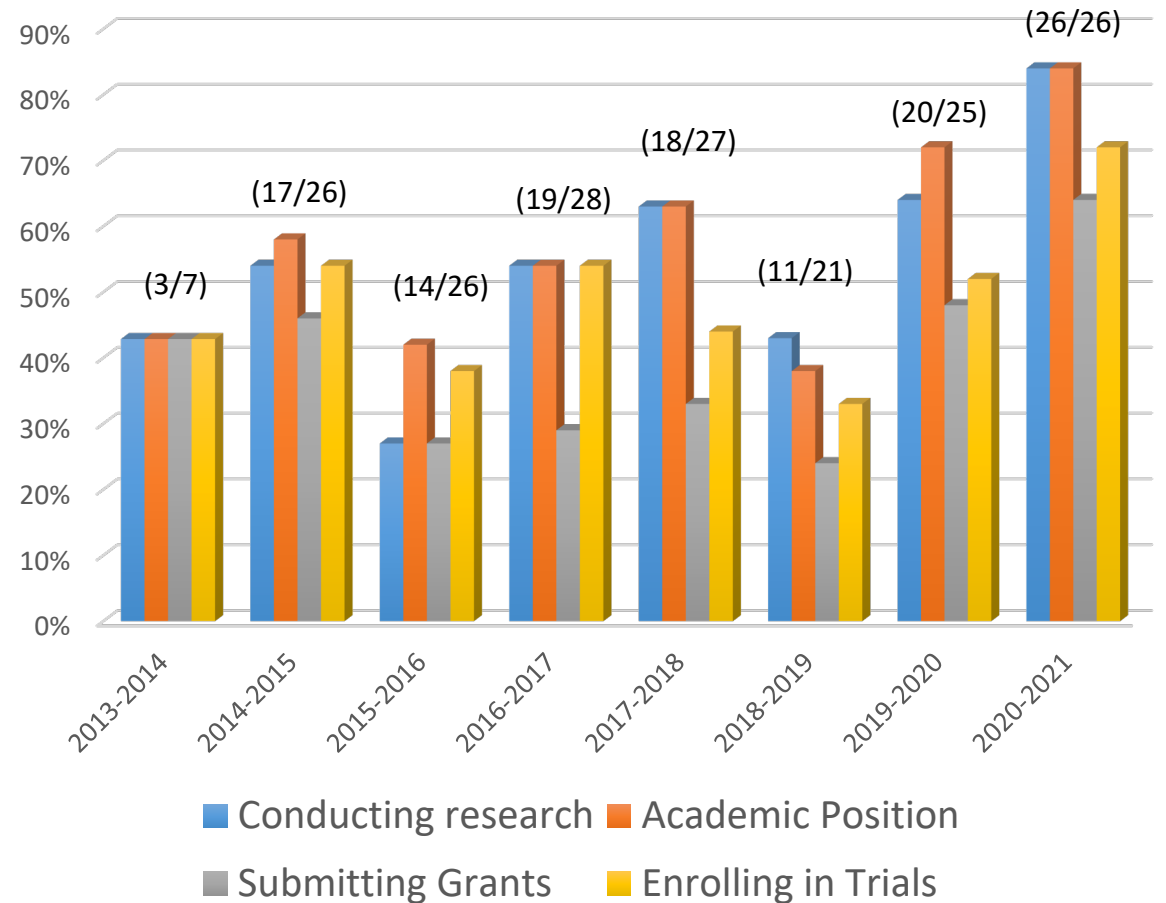
M	11
F	13
	24

Survey Results on Research

Avg. % of Time on Research

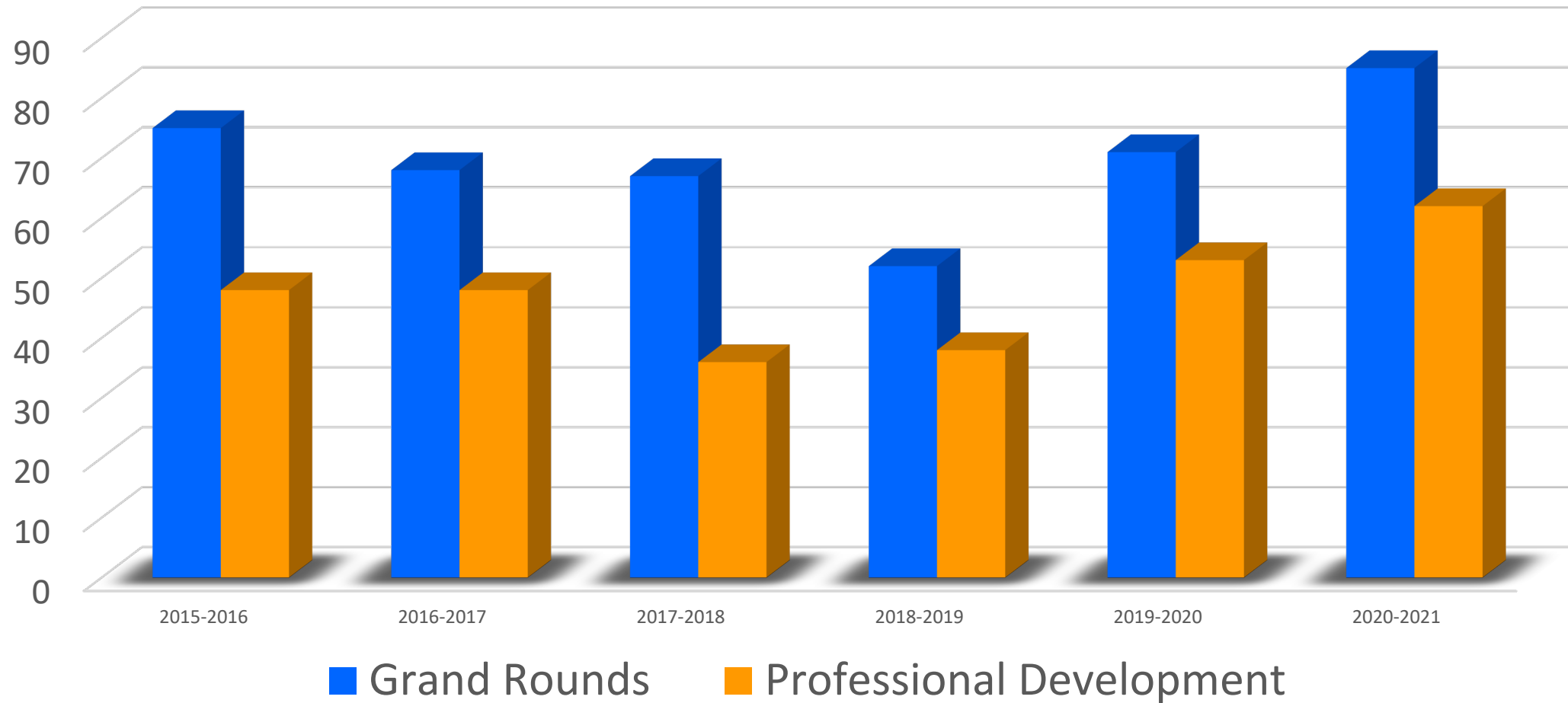


Academic Activities



Webinar Attendance

Average Yearly Attendance



Grand Rounds and Professional Webinars 2020-2021

Date	Topic	Speaker	Institution	Moderator
Aug 27	Infectious Causes of Stroke - COVID-19 & Other Known and Suspected Ones -- Multisystem Inflammatory Syndrome	Mitch Elkind, MD Shannon Agner, MD, PhD	Columbia University Washington University, St. Louis	Randy Marshall, MD
Sept 24	Management of Malignant MCA Stroke	Kevin Sheth, MD	Yale University	Cemal Sozener, MD
Oct 29	Patterns of White Matter Hyperintensities Define Underlying Causes of CSVD: An Unbiased Big Data Imaging Analytic Approach	Chia-Ling Phuah, MD, MMSc	Washington University, St. Louis	David Liebeskind, MD
Nov 19	Genomics of 6,000 Acute Ischemic Stroke Patients Reveals Genes Involved in Excitotoxicity	Jin-Moo Lee, MD	Washington University, St. Louis	Devin Brown, MD
Jan 28	Stroke Transitional Care and How it Fits into The Continuum of All Stroke Trials, Both Acute, Prevention and Rehab/Recovery	Cheryl Bushnell, MD	Wake Forest University	Shyam Prabhakaran, MD
Feb 25	Robotics & Physiology of Recovery of Function after Stroke	George Wittenberg, MD, PhD	University of Pittsburgh	Farhaan Vahidy, MD
Mar 25	Gloves Off for Acute Stroke	Lee Schwamm, MD Dawn Kleindorfer, MD	MGH Michigan	
Apr 29	Cell Based Regenerative Therapies for Stroke	Sean I. Savitz, MD	University of Texas, Houston	Randy Marshall, MD
May 27	MeVo or Medium Vessel Occlusions and Thrombectomy - include >24h, >70cc core, other frontiers	J Mocco, MD	Icahn School of Medicine, Mount Sinai	Hal Adams, MD

Abstracts and Manuscripts (2020-2021 trainees)

Abstracts 1st Author	16
Abstracts 2nd Author	15
Manuscripts 1st Author	32
Manuscripts 2nd Author	52

Reminder: Deadlines

- Request for new Trainees' training plans – May
- Trainee research synopses – November
- Solicit Grand Rounds Webinar topics and speakers – February
- Survey to Trainees – May
- Final Trainee Progress report – June
- Trainee Contact form – May
- Update from prior trainees – June

Learning Communities

Thank you to mentors!!

05 MUSC
06 Medstar
15 Iowa
19 UPENN
20 U. Pittsburgh
28 Washington U

02 Columbia
11 USC
13 UCSF
17 UMichigan
22 Utah
29 Yale

03 Emory
12 UCSD
14 UC
16 Miami
21 Texas
26 Alabama Birmingham

01 Case Western Reserve
04 Massachusetts General
08 Chicago
10 Stanford
11 UCLA
27 Wake Forest

Pam Duncan

Nishanth Kodumuri, MD
Chad Michael Aldridge, PT, DPT, MS-CR, NCS
Hannah Roeder, MD, MPH
Mohammad Hossein Abbasi, MD
Amit Sethi, PhD, OTR/L
Anna Huguenard, MD

Anthony Kim

Jakita Baldwin, MD
Michael Jang, MD
Nicole Rosendale, MD
Leanna Delhey, PhD
Ryan Bailey, PhD, MSCI, MSOT
Rachel Forman, MD

Cemal Sozener

Lorena Souza Viana, MD
Monica Maria Noya Santana, MD
Krishna Kandregula, MD
Nastajjia A Krementz, MD
Praveen Hariharan, MBBS
Kristen Sandefer, MD

Brad Worrall

Sibaji Gaj, PhD
Dearbhla Kelly MB, BCh, BAO, MSc, DPhil, MRCPI, MRCP(UK)
Stephanie F. Hage, MD, MA, MSc
Lily Zhou, MD
Smit D. Patel, MBBS, MPH
Mohammad Iyas Kawas, MD, PhD

New ideas under development

1. Coordinator education

1. Invite coordinators to GRWs PDWs
2. Will facilitate guest speakers for selected monthly coordinator meetings
3. Content to be developed further

2. Basic Science programming

1. Recommendation from Walter Koroshetz and Scott Janis
2. Generally springboards from StrokeNet RCTs, but reconsidering topics and how to deliver

3. Opportunity for trainees to attend a Working Group meeting

4. Enrollment tracking by Fellows

Self-directed learning opportunities (trainees, coordinators, mentors)

- <https://www.nihstrokenet.org/education>
 - Introduction to the Principles and Practice of Clinical Research (IPPCR)
<https://ocr.od.nih.gov/courses/ipPCR.html>
 - Ethical and Regulatory Aspects of Clinical Research
<https://bioethics.nih.gov/courses/ethical-regulatory-aspects.shtml> | <https://videocast.nih.gov/PastEvents?c=22>
 - Principles of Clinical Pharmacology
<https://ocr.od.nih.gov/courses/principles-clinical-pharmacology.html>

Questions?

