



StrokeNet Training Core Update

Dawn Kleindorfer, MD





NIH StrokeNet Training Core Members



Chair



Dawn Kleindorfer, M.D.
University of Cincinnati

Co-Chair



Randolph Marshall, M.D.
Columbia University

NINDS Project Scientist



Scott Janis, PhD
National Institute of Neurological
Disorders and Stroke

Faculty



Barbara Bregman, M.D.
Georgetown University

Faculty



David Liebeskind, M.D.
University of California, Los Angeles

Faculty



David Tirschwell, M.D.
University of Washington

Coordinator



Susan Love, MA
University of Minnesota

Coordinator



Heena Olaide, RN, MSN
University of Iowa

Core Coordinator



Jeanne Sester
University of Cincinnati

Current and Former StrokeNet Trainee Members of Training Core

Fellow/Trainee



Cemal Sozener, MD
University of Michigan
Health System

Fellow/Trainee



Farhaan Vahidy, MD PhD
University of Texas, Houston

We just named two more trainees to our core committee:

Scott Mendelson, Md PhD
Northwestern

Maranatha Ayodele, MD
Miami

Trainee Requirements

- Any discipline of trainee is allowed
 - This could include neurologists/vascular neurology fellows, but also
 - Neurosurgeons
 - Epidemiologists
 - Nurses/Nurse Practitioners
 - Physical/occupational/speech therapists
 - Other disciplines I haven't listed here!
- Do not need to be a US citizen or have a green card
- Can be a junior faculty member, does not have to be fellows or residents

What kind of trainees do we want in the StrokeNet?

- Short answer: ALL trainees at StrokeNet sites interested in stroke will have access to the materials
 - And all webinars are posted online for all trainees anywhere who want to view them
- We would prioritize trainees who are extremely interested in research (ie want to be R01 funded researchers) for the RCC training spot.
 - Consider this an apprenticeship program, these are the people that will take over for you in the future

What kind of training?

- Research training ≠ a few didactic courses squeezed into a clinically heavy schedule
- Coursework is important, but protected time from clinical activity and strong mentorship even more important
 - Pre-specified goals and milestones agreed upon by trainee and mentor ideal

Logistics as per NINDS

- One trainee per RCC center
 - Avoids diluting the experience and intense mentorship required among several clinical trainees
- Exception: more than 1 trainee allowed if:
 - Each trainee has at least 50% research protected time
 - No more than one trainee per institution
- No more than one year of funding per trainee allowed

Current 2015-2016 Trainees

- 27 trainees, 40% female (last year 24%)
- 12% under-represented minority (1 hispanic, 2 black) last year was 0%
- 4/25 are faculty members
- Degrees
 - MD 14
 - MD/PhD 3
 - DO 2
 - PhD 3
 - PharmD 1
 - MD, JD 1

Disciplines of Trainees

• Vascular Neurology	12
• Vascular Intervention	1
• Rehabilitation/PM&R	2
• PT/rehab	1
• Neuroradiology	1
• Neurosurgery	2
• NSICU	1
• Neurology	2
• Emergency medicine	0
• Pharmacy	1
• Biomedical engineering	1
• Epidemiology	1

Logistics

- Minimum of \$50k/yr for training, some must support salary
- A trainee must be identified for the academic year starting July 2015
 - Education plans due May 1st, 2015

Approvals needed

- Carryover from this year to next: standard approvals needed
- If you plan to have more than one trainee per RCC center, email Joanna Vivalda with an outline of your plans



Activities of the Training Core



Didactic Webinars

- Process for selecting topics and speakers:
 - All RCC sites are surveyed and asked to name three topics and speakers they would like to hear
 - Training core members review the list and rank their preferences
 - The top scoring topics and speakers are chosen on a Training Core Call

Didactic Webinars

- We have held 2 Stroke Net webinars so far this academic year
 - Always the 4th Thursday of the month at 4pm EST
 - 9 in 2014-2015, 4 in 2013-2014
 - Average attendance = 82 in 2014-15, 75 in 2013-14
 - 94% average of attendees felt the webinar to be useful to their academic practice
 - All webinars are archived on the StrokeNet website
 - All previous SPOTRIAS webinars are also online
 - Broader audience and inclusion of career development compared to SPOTRIAS

2013-14 Didactic Webinars

	Attendance
Pathophysiological Links between Migraine and Stroke - Cenk Ayata - May 29 2014	101
Inflammatory Biomarkers in Acute Stroke and Stroke Prevention -Mitchell Elkind - Apr. 24 2014	90
Brain Susceptibility to Acute Ischemia - Natalia Rost - Mar. 27 2014	54
Targets for Neural Repair Therapies after Stroke - Tom Carmichael - Feb. 27 2014	57

2014-2015 Didactic Webinars

Date	Topic	Speaker	Institution	Moderator	Attendance
Aug28	Next Generation Drugs for Neuroprotection in Acute Ischemic Stroke	B McLaughlin	Vanderbilt	Tirschwell	66
Sept 25	Thrombolysis in pediatric stroke	R Ichord	U Penn	Tirschwell	79
Oct 30	Neuroimaging Characterization of Brain Plasticity in Aging and Stroke	V Prabhakaran	U Wisc	Liebeskind	95
Nov 20	Cell-Based Therapies for Stroke	S Savitz	UT Houston	Marshall	79
Jan 29	Gloves Off for Acute Stroke Management “New Combatants”: Fellow case presentations to 2 Stroke Experts	H Adams/G Albers and Fellows	U Iowa/ Stanford	Kleindorfer	85
Feb 26	Telemedicine in Practice and Research	L Schwamm	MGH	Marshall	131
Mar 26	Aphasia and Language Recovery	R Lazar	Columbia	Marshall	55
April 30	Post Stroke Fatigue	K Becker	UW	Kleindorfer	77
May 28	High Resolution Cerebrovascular Vessel Wall Imaging	T Hatsukami	UW	Liebeskind	67

2015-16 Didactic Webinars

Date	Topic	Speaker	Institution	Moderator
July 30	Ethics in Acute Research and Emergency Medicine	Michelle Biros	UMinn	Liebeskind
Aug 27	BP and Cognition - Impact of Blood Pressure and Hypertension on Cognitive Function	Clinton Wright	Miami	Marshall
Sept 24	Consent in Clinical Trials Remote Enrollment by Telemedicine	Jennifer Majersik Teddy Wu	Utah Texas	Liebeskind
Oct 29	Treatment of Carotid Stenosis	Seemant Chaturvedi	Miami	Marshall
Nov 19	Rehab in Acute Stroke/Neuroplasticity	Lorie Richards	Utah	Marshall
Jan 28	Imaging Selection Approaches in Endovascular Trials	David Liebeskind	UCLA	Tirschwell
Feb 25	Brain Computer Interface for Rehab	Elliott Roth	Northwestern	Liebeskind
Mar 24	Gloves Off for Acute Stroke Management; Fellow Case Presentations to two Stroke Experts	Jay P Mohr Opeolu Adeoye	Columbia Cincinnati	Kleindorfer
April 28	Neuroprotection – STAIR Criteria and the Future	Louise McCullough	Texas	Marshall
May 26	ICH Secondary Prevention	Magdy Selim	Beth Israel	Tirschwell

Professional Development Webinars

- Process: Topics and speakers suggested by members of the education core and end-of-the-year trainee survey
- Variable times and dates (by request of some RCCs)
- Topics and speakers voted upon during Training Core call

Professional Development Webinars 2015-16

Date	Topic	Speaker	Time	Institution	Moderator
July 27 Monday	Writing your CV & Biosketch (updated with new format)	Dawn Kleindorfer	4:00	Cincinnati	
Aug 20 Thursday	Approval Process for Medical Devices in Stroke	Wade Smith	2:00	UCSF	Tirschwell
Sept 30 Wednesday	How to Present your Data	Enrique Leira	3:00	Iowa	Kleindorfer
Oct 20 Tuesday	Creating a Study Budget	Joe Broderick Judy Spilker	1:30	Cincinnati	Kleindorfer
Nov 12 Thursday	Grant Writing	Steve Greenberg	1:00	MGH	Marshall

Research Presentations

- RCC Trainees submitted summary of their research
 - Assigned 2+ faculty mentors to review their work for feedback
 - Training core members reviewed the applications and scored them
- 2 presented at ISC StrokeNet General Meeting
- 4 presented at a session prior to the StrokeNet meeting, with designated mentors present
 - Very engaged group, lots of great discussions
- 8 presented webinars monthly over the remainder of the year.
- List of trainee research here presented at 2015 ISC

Date	Research Title	Trainee	Time	Instituti	Moderator
Jan 22	Surgical Treatment of Carotid Artery Atherosclerotic Disease: The Benefits Carotid Endarterectomy One Year after Surgery	Christopher Baggott	4:00 EST	Wisc	Kasner
	Blood Biomarkers of Stroke Recovery	Matthew Edwardson	4:30 EST	Georgetown	
Mar 19	Impact of AED Prophylaxis on Outcome after Spontaneous ICH	Ali Zandieh	4:00 EST	UPenn	Liebeskind
	Development and Validation of Prognostic Tools in Anterior Circulation and Basilar Artery Large Vessel Occlusion Strokes	Srikant Rangaraju	4:30 EST	Emory	
April 16	Midodrine for Ischemic Stroke with Penumbra	Adam de Havenon	4:00 EST	Utah	Marshall
	Spleen Contraction in Patients with Ischemic Stroke & Brain Hemorrhage: Validating Animal Studies	Farhaan Vahidy	4:30 EST	UT Houston	
June 4	Sex Disparity in Delivery of Stroke Care; Data from the Florida-Puerto Rico Collaboration to Reduce Stroke Disparity	Negar Asdaghi	4:00 EST	Miami	Towfighi
	Novel Neuroimaging Techniques to Understand Pathophysiology of Acute Ischemic Stroke	Nandakumar Nagaraja	4:30 EST	Iowa	

Activities of the Training Core

- Supervision of the RCC Training Programs
 - Ensure that adequate focus on stroke research
 - Education plans with milestones for progress due prior to trainee arrival
 - All approved last year, with two requiring more information for the core's review
 - Mid-year progress reports
 - Reviewed, no significant issues noted
 - Final Progress Report
 - Including information about their next position and success in research so far, contact information

Activities of the Training Core

- Serve as a resource for trainees and mentors
 - Maintain contact info for current and past trainees
 - Post training opportunities, such as NINDS Clinical Trials Workshop
 - Job postings
 - Assist with finding mentors for trainees off-site
 - Away rotations

Training Plan: DUE May 1st!

- Name of the trainee, discipline, and CV. Contact info, if you haven't submitted this already.
- Rotation schedule
 - strongly suggest that the year be 50% dedicated to research or more.
- Planned didactic coursework and other research training
- Research interests and mentor, if known.
- Any requests for off-site mentors and/or rotations.
- Email to Jeanne Sester

Cross-RCC Mentoring of Trainees

- Previous years we had 0 requests for off-site mentoring
- This year three requests
 - 2 have been confirmed
 - 1 delayed due to mentor illness

Evaluation of The Program

- End of the year survey for 2014-15 Trainees

How satisfied are you?	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
My overall experience was good, and I believe it enhanced my stroke research career.	70%	30%			

Evaluation of Webinars

How satisfied are you?	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Didactic Webinars					
The content met your needs.	45%	50%	5%		
Quality of the presentations was good.	50%	45%	5%		
Timing of the webinars worked for you.	30%	40%	15%	15%	
Professional Development Webinars					
The content met your needs.	50%	35%	15%		
The quality of the presentations was good.	65%	30%		5%	
The timing of the presentations worked for you.	25%	45%	15%	15%	

Evaluation of Communication and Website

How satisfied are you?	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Communication					
The time to network and share ideas with peers was adequate.	30%	40%	20%	10%	
The communication you received from the training core was adequate.	50%	30%	20%		
Website					
Viewing webinars after the fact was easy.	50%	45%	5%		
The information provided online is sufficient.	55%	35%	10%		

Evaluation of Local RCC Mentorship

How satisfied are you?	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Mentorship					
The time you were able to spend with your mentor met your needs.	70%	30%			
The feedback you received from your mentor was adequate & helpful.	70%	25%	5%		
Did the mentor assigned develop into a relationship	80%	15%	5%		

Open-ended comments from trainees

- “This program was outstanding and instrumental in setting up my research career. Without this opportunity, I would never have been able to achieve the progress I made over the last year and would have had marked difficulty guiding my career into one with a heavy emphasis on clinical trial design and execution like I wanted.”
- “Highly qualified and renowned professionals from the highest accredited centers in the U.S. are available to fellows, either in the form of formal mentors or just providing input on your work in the different meetings throughout the year. Wide variety of topics in the webinars. Fellows and mentors with varied backgrounds. Room for research in many different aspects of stroke.”
- “This was an outstanding experience. My sincere thanks to StrokeNet for allowing me to gain content expertise in stroke at the same time as being able to mold my research career in a protected environment.”

Suggestions for Improvement-Themes

- More time for networking amongst trainees
 - We had hoped to do this in person at strokenet meetings
 - Rooms are tight and expensive, training core does not have a budget
 - ACTION PLAN: **working on a listserve or blog** or both for trainees
 - Task force, with trainee leadership, from training core
- Requests for more information earlier from the Training Core, more interaction with our members
 - ACTION PLAN: all the trainees will have a brief time on **Training Core calls** to introduce themselves, meet the core, and describe their program and research interests
 - ACTION PLAN: a **“StrokeNet Trainee Handbook”** in development for the next year’s trainees to lay out the year in advance

Other Future Projects/Improvements

- Stroke Research Core Curriculum-huge topic
 - First approach: biostatistical core curriculum for stroke researchers
 - Using existing resources
 - Utilizing MUSC NDC, other statisticians in the network
- Further encourage cross-center mentorship and interaction
- Improve Trainee Webinar Presentation Interactions
 - Dead silence after the trainee finishes....moderator usually is the only one asking questions

Metrics for RCCs' Training Programs

RCC Educational Assessment



RCC		
		Review Period July 1, 2014 – June 30, 2015
Trainee(s) Name		PI
OBJECTIVES		
METRIC	RECEIVED ON TIME (YES / NO)	COMMENTS
Submission of Training Plan (Due June 30, 2014)		
METRIC		
METRIC	RECEIVED ON TIME (YES / NO)	COMMENTS
Mid-Year Progress Report (Due January 31, 2015)		
METRIC		
METRIC	RECEIVED ON TIME (YES / NO)	COMMENTS
Year End Progress Report (Due August 31, 2015)		
METRIC		
METRIC	% ATTENDED	COMMENTS
Attend/View Didactic Webinars		
METRIC		
METRIC	% ATTENDED	COMMENTS
Attend/View Professional Development Webinars		

(Due January 31, 2015)		
METRIC	RECEIVED ON TIME (YES / NO)	COMMENTS
Year End Progress Report (Due August 31, 2015)		
METRIC	% ATTENDED	COMMENTS
Attend/View Didactic Webinars		
METRIC	% ATTENDED	COMMENTS
Attend/View Professional Development Webinars		

EXTRA CREDITS			
TRAINEE PRESENTED THEIR RESEARCH AT A STROKENET EVENT	PI PRESENTED/MODERATED WEBINAR(S)	TRAINING CORE MEMBER	AT LEAST 1 ABSTRACT PRESENTED AT A NATIONAL MEETING DURING TRAINING YEAR

Metrics for Measuring Success of Training Core

- Webinar Attendance and Attendee Surveys
- Research Presentations by Trainees
- Final Trainee Survey
- Trainees themselves!
 - Publications (working on this, huge task...)
 - Future participation in research
 - Academic institutions
 - Participation in clinical trials/clinical research
 - 24/25 of 2014-15 trainees reported their next position was in academia and will be “significantly involved” in research
 - Writing/receiving grants
- Suggestions from Executive Committee on other metrics?

make an
observation



ask a
question



make a
hypothesis



conduct your
experiment



draw
conclusions



report your
results

