

CardioNerds Clinical Trials Network

Pairing Equitable Enrollment with Trainee Development

Amit Goyal, MD MAS

Cleveland Clinic

PGY8, Interventional/Structural Cardiology

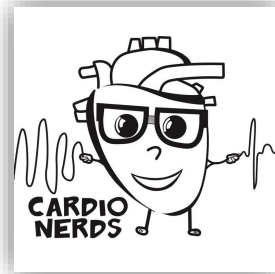
11/04/22

Disclosures

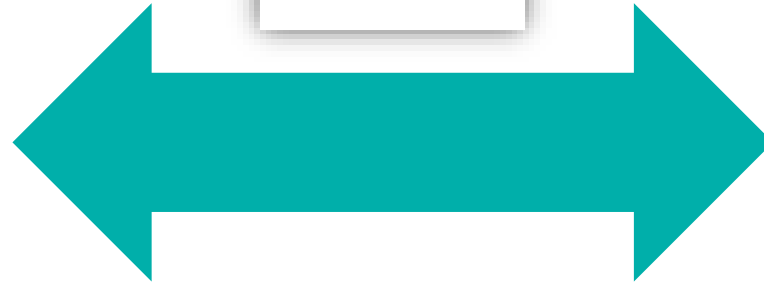
- CardioNerds, Cofounder and equity



MISSION

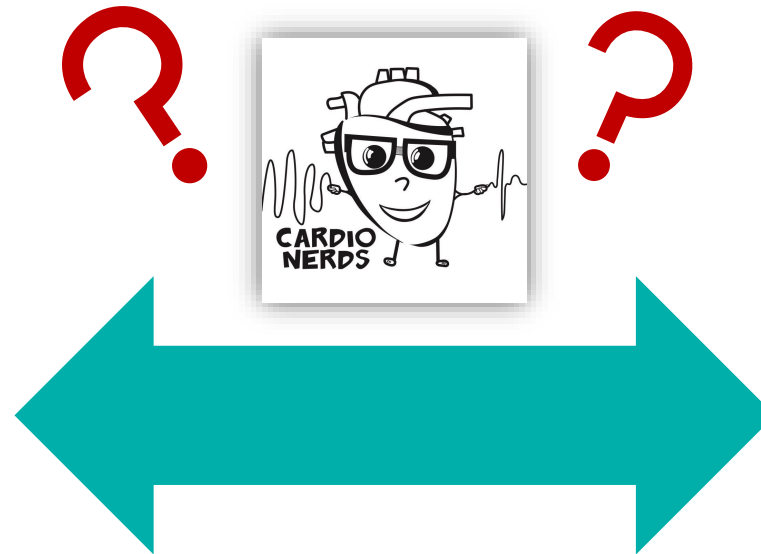


Equitable
Enrollment



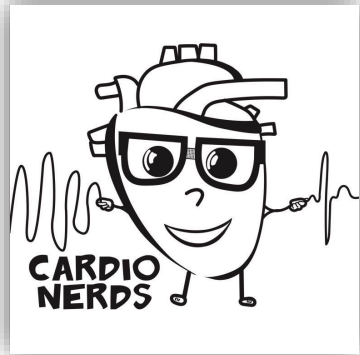
Trainee
Development

MISSION



Equitable
Enrollment

Trainee
Development



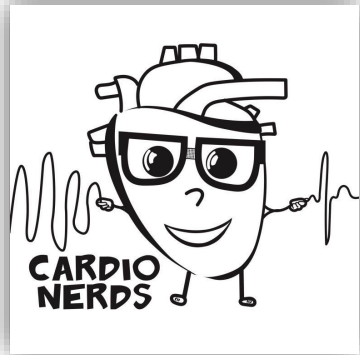
CardioNerds



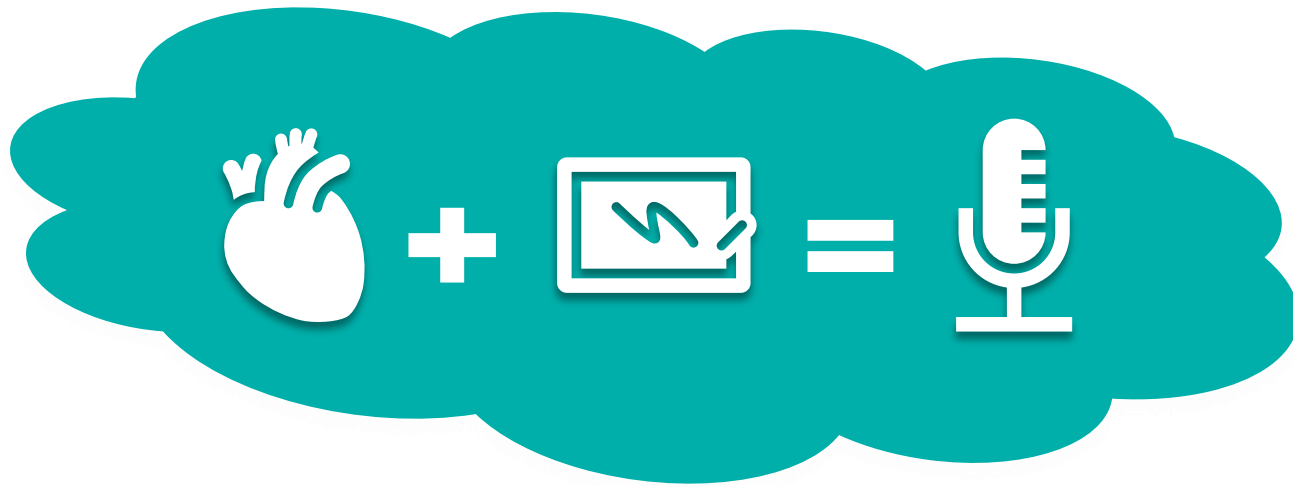
PILOT



Future



CardioNerds



Fall 2019



Rounds
(n = 5)



Noon
Conf
(n = 20-40)



Pod?
(n = 500?)



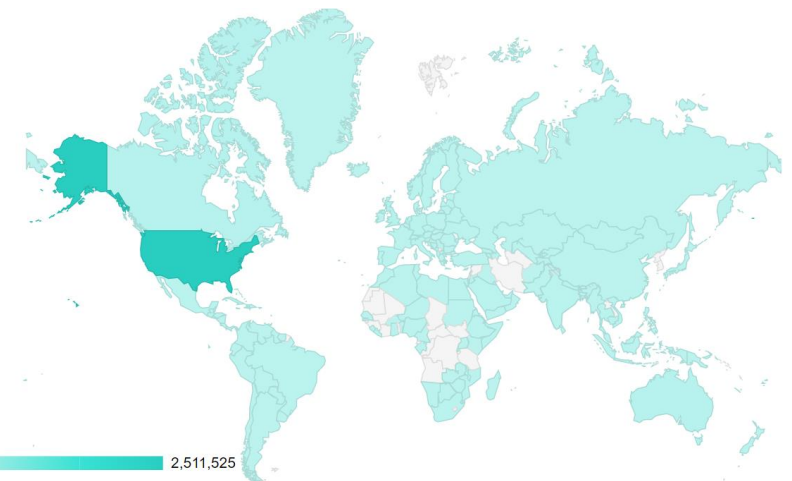
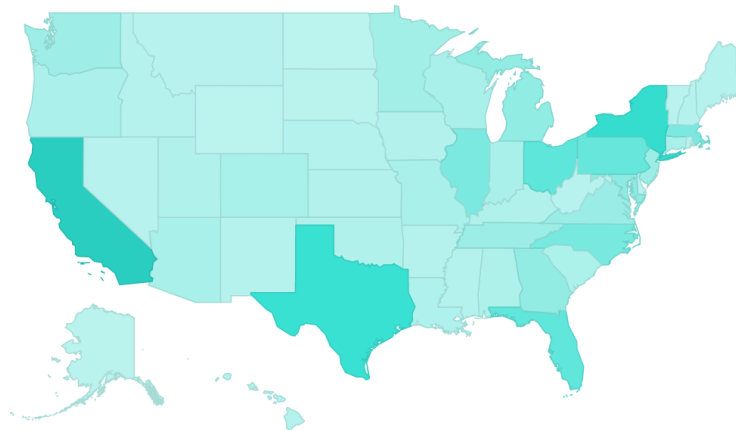
Cardio
Nerds
(n = ???)

 = 500

1st month 5,000



>3M Downloads
51 Ss & Ts
>192 Countries





Faculty
242



Trainees
276



Programs
>50



Societies
12



>3M Downloads
51 Ss & Ts
>192 Countries



American
Heart
Association®



SCAI
Society for Cardiovascular
Angiography & Interventions



CRF



HFSA

HEART FAILURE SOCIETY OF AMERICA



ASPC
The American Society for Preventive Cardiology



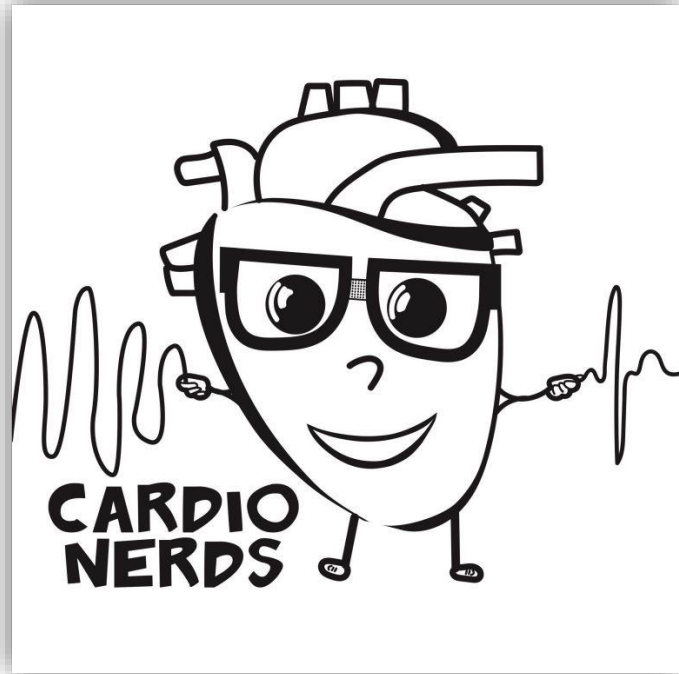
AMERICAN
COLLEGE of
CARDIOLOGY®



NATIONAL LIPID
ASSOCIATION



Adult
Congenital Heart
Association



MISSION



PEOPLE



MISSION

Democratize CV Education

Create &
Disseminate
Education

Foster
Wellness &
Humanism

Promote
Diversity,
Equity, &
Inclusion

Provide
Mentorship &
Sponsorship

Invigorate a
Love of CV
Science



MISSION

Democratize CV Education

Create & Disseminate Education

Foster Wellness & Humanism

Promote Diversity, Equity, & Inclusion

Provide Mentorship & Sponsorship

Invigorate a Love of CV Science

PROGRAMS

Academy

Clinical Trials Network

Healy Honor Roll

Medical Journalism Program

Narratives in Cardiology

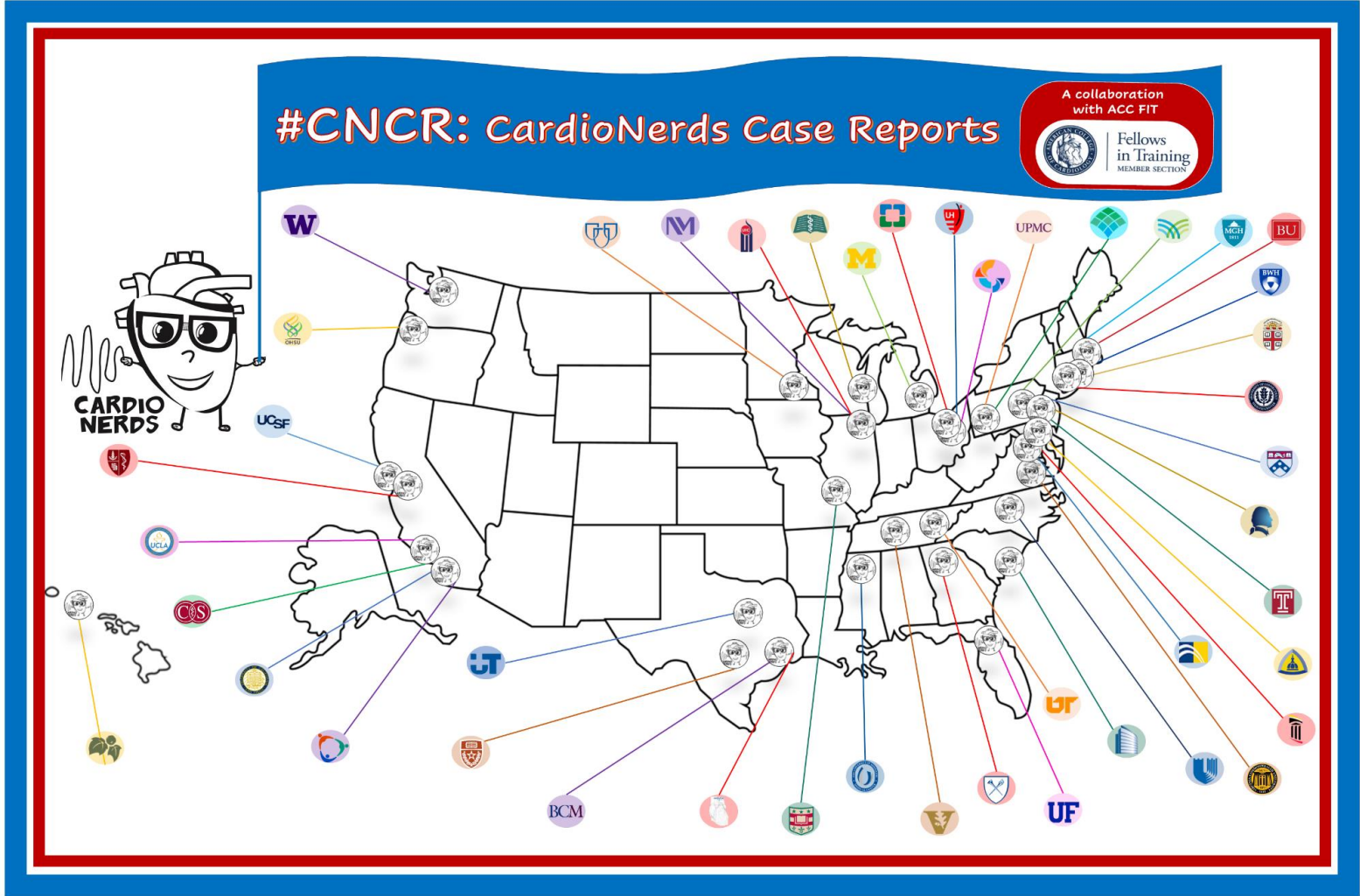
Podcast

Scholarships

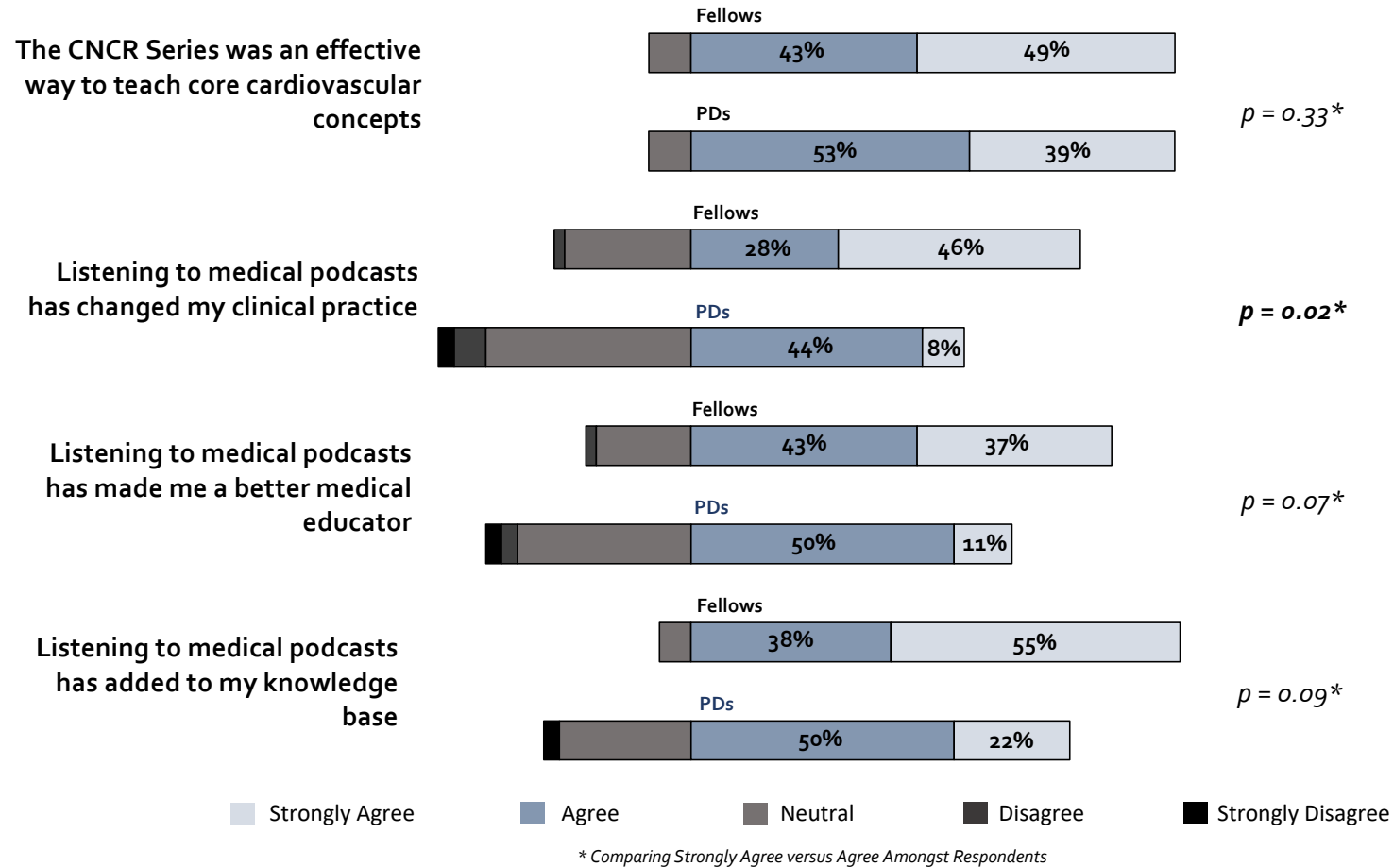
MISSION



PEOPLE



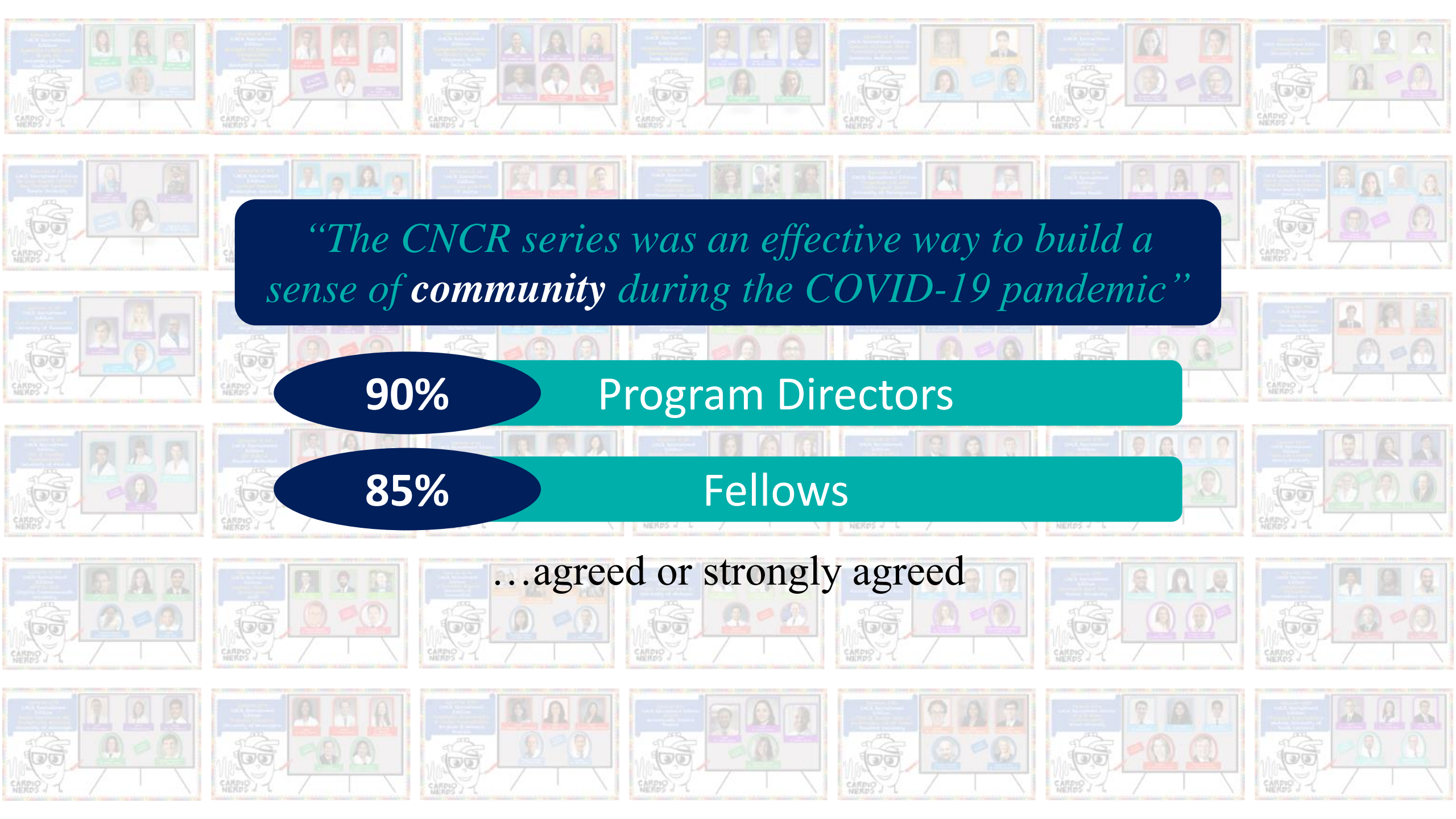
Program Director and Fellow Perspectives on Asynchronous Medical Education



Dr. Karan Desai
Johns Hopkins

Response Rate: 77% of fellows [n=137] and 69% of program leaders [n=59]



The background of the entire slide is a repeating pattern of presentation boards from the 'Cardio Nerds' series. Each board features a cartoon character on the left and several small portrait photos of people on the right, arranged in a grid-like fashion. The boards are colorful and have a consistent design.

“The CNCR series was an effective way to build a sense of community during the COVID-19 pandemic”

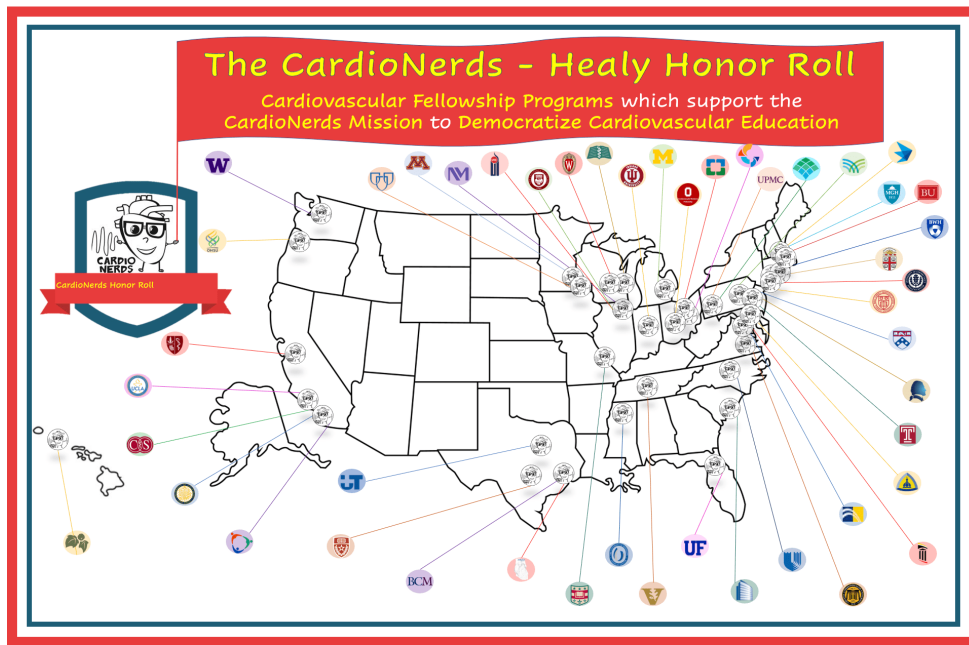
90%

Program Directors

85%

Fellows

...agreed or strongly agreed



CardioNerds Healy Honor Roll

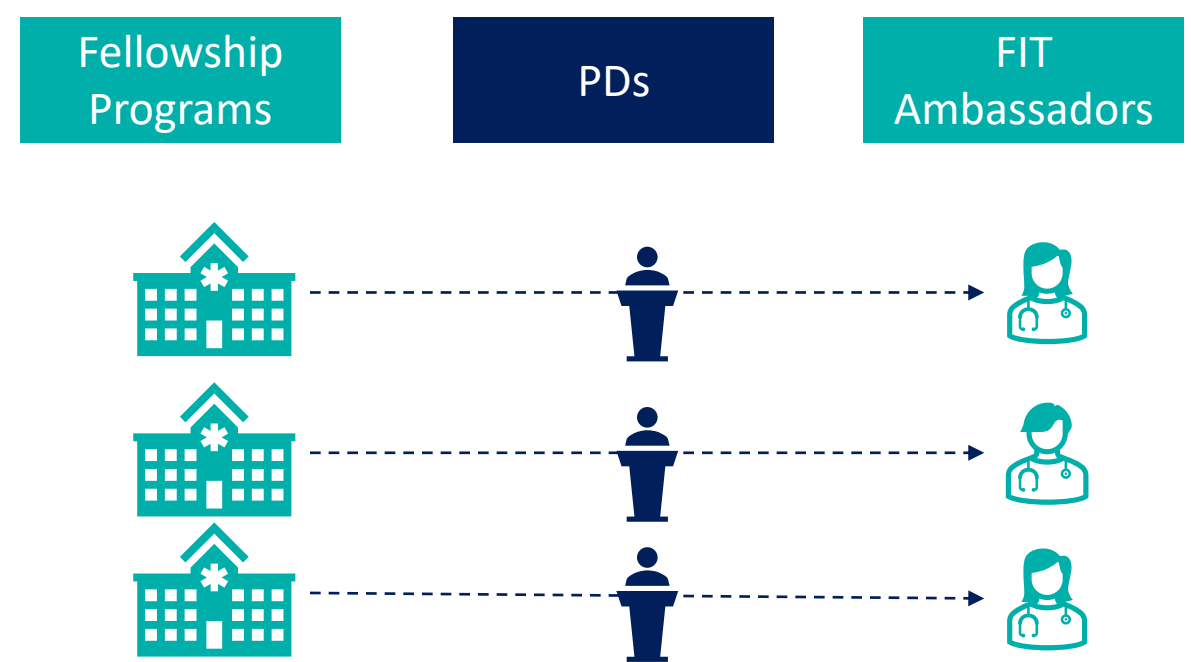


1. Allegheny General Hosp
2. Baylor College of Medicine
3. Boston University
4. Brigham & Women's
5. Brown University
6. Cedars Sinai
7. Cleveland Clinic
8. Duke University
9. Houston Methodist
10. Johns Hopkins Univ
11. Lahey Hospital
12. Lankenau Medical Center
13. Mayo Clinic
14. Medical College of Wisconsin
15. Georgetown Univ
16. Massachusetts General Hosp
17. Medical Univ of So Carolina
18. Northwestern Univ
19. OHSU – Knight CV Institute
20. Ohio State University
21. Scripps Clinic
22. Stanford Univ
23. Summa Health
24. Temple University



25. Thomas Jefferson University
26. Univ of Michigan
27. Univ of Mississippi
28. Univ of Connecticut
29. Univ of Illinois
30. Univ of Florida
31. Univ of Maryland
32. Univ of Pennsylvania
33. UC Los Angeles
34. UC San Diego
35. Univ of Chicago
36. Univ of Hawaii
37. Univ of Indiana
38. Univ of Minnesota
39. Univ of Pittsburgh
40. Univ of Washington
41. UT Austin
42. UT Southwestern
43. Univ of Wisconsin
44. Vanderbilt University
45. VCU Health
46. Washington University
47. Weill Cornell Medicine

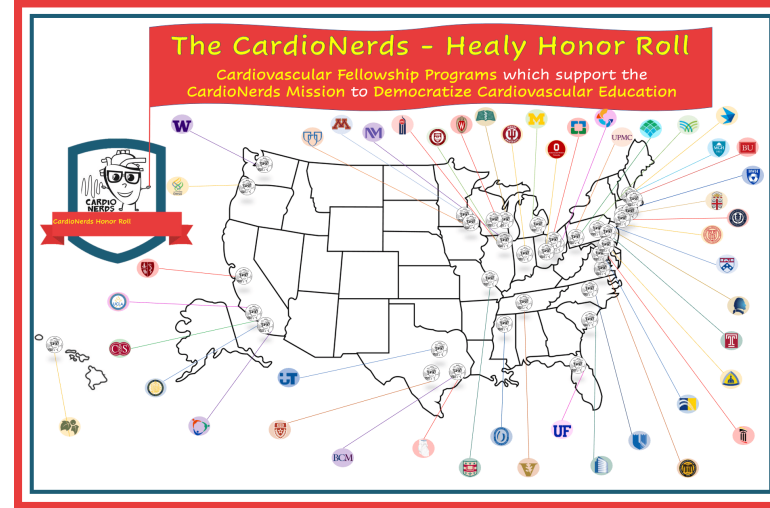
Cardiovascular Fellowship Programs which support the CardioNerds Mission to Democratize Cardiovascular Education



CardioNerds Goal

Pair Content Creation w/ Professional Development

FIT Ambassadors



CardioNerds Healy Honor Roll



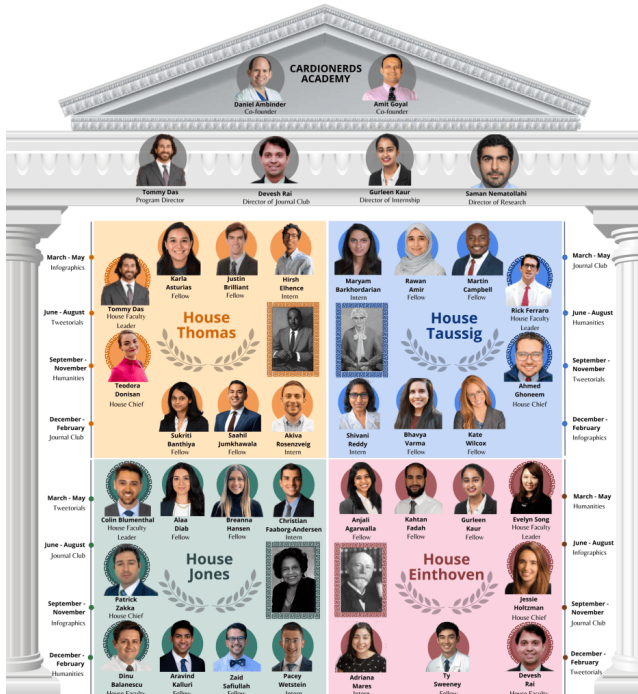
1. Allegheny General Hosp
2. Baylor College of Medicine
3. Boston University
4. Brigham & Women's
5. Brown University
6. Cedars Sinai
7. Cleveland Clinic
8. Duke University
9. Houston Methodist
10. Johns Hopkins Univ
11. Lahey Hospital
12. Lankenau Medical Center
13. Mayo Clinic
14. Medical College of Wisconsin
15. Georgetown Univ
16. Massachusetts General Hosp
17. Medical Univ of So Carolina
18. Northwestern Univ
19. OHSU - Knight CV Institute
20. Ohio State University
21. Scripps Clinic
22. Stanford Univ
23. Summa Health
24. Temple University



Cardiovascular Fellowship Programs which support the CardioNerds Mission to Democratize Cardiovascular Education

25. Thomas Jefferson University
26. Univ of Michigan
27. Univ of Mississippi
28. Univ of Connecticut
29. Univ of Illinois
30. Univ of Florida
31. Univ of Maryland
32. Univ of Pennsylvania
33. UC Los Angeles
34. UC San Diego
35. Univ of Chicago
36. Univ of Hawaii
37. Univ of Indiana
38. Univ of Minnesota
39. Univ of Pittsburgh
40. Univ of Washington
41. UT Austin
42. UT Southwestern
43. Univ of Wisconsin
44. Vanderbilt University
45. VCU Health
46. Washington University
47. Weill Cornell Medicine

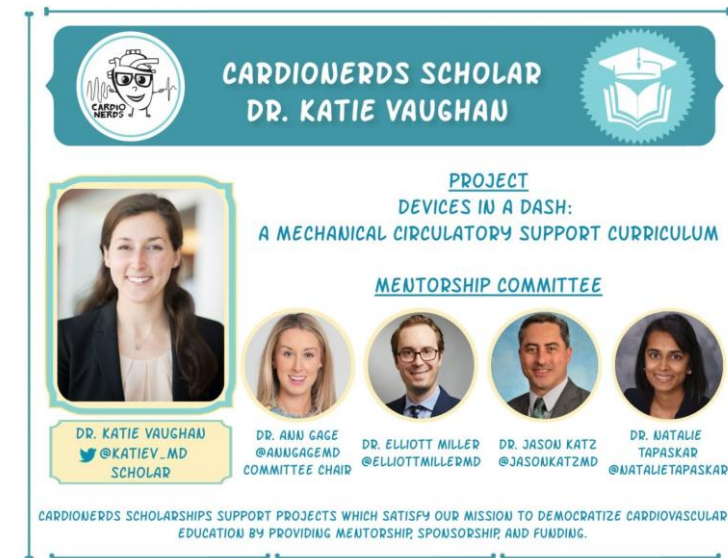
Academy Fellows



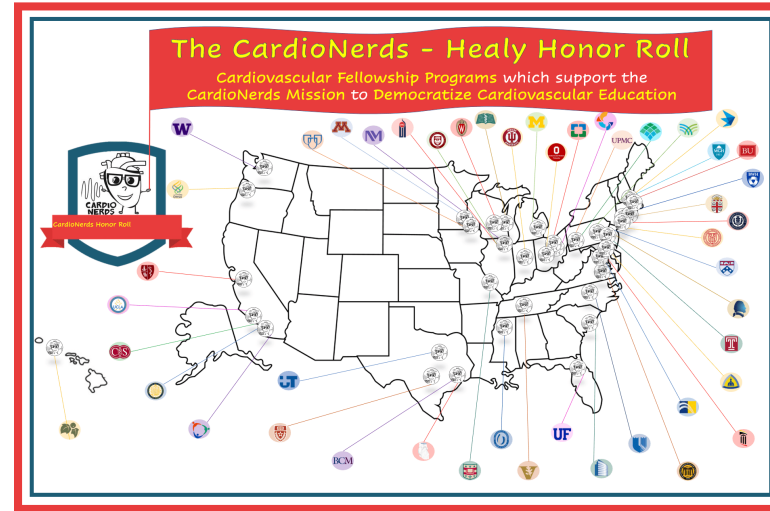
Correspondents



Scholars



FIT Ambassadors



CardioNerds Healy Honor Roll



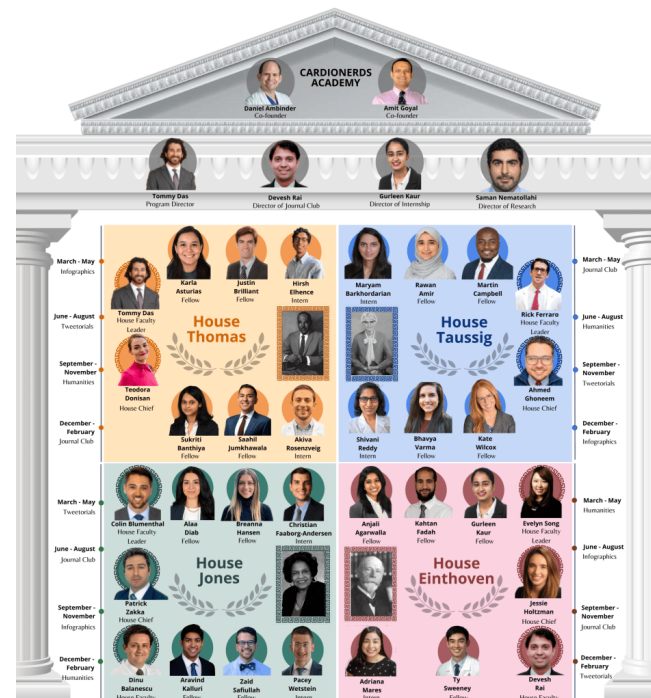
1. Allegheny General Hosp
2. Baylor College of Medicine
3. Boston University
4. Brigham & Women's
5. Brown University
6. Cedars Sinai
7. Cleveland Clinic
8. Duke University
9. Houston Methodist
10. Johns Hopkins Univ
11. Lahey Hospital
12. Lankenau Medical Center
13. Mayo Clinic
14. Medical College of Wisconsin
15. Georgetown Univ
16. Massachusetts General Hosp
17. Medical Univ of So Carolina
18. Northwestern Univ
19. OHSU - Knight CV Institute
20. Ohio State University
21. Scripps Clinic
22. Stanford Univ
23. Summa Health
24. Temple University



Cardiovascular Fellowship Programs which support the CardioNerds Mission to Democratize Cardiovascular Education

25. Thomas Jefferson University
26. Univ of Michigan
27. Univ of Mississippi
28. Univ of Connecticut
29. Univ of Illinois
30. Univ of Florida
31. Univ of Maryland
32. Univ of Pennsylvania
33. UC Los Angeles
34. UC San Diego
35. Univ of Chicago
36. Univ of Hawaii
37. Univ of Indiana
38. Univ of Minnesota
39. Univ of Pittsburgh
40. Univ of Washington
41. UT Austin
42. UT Southwestern
43. Univ of Wisconsin
44. Vanderbilt University
45. VCU Health
46. Washington University
47. Weill Cornell Medicine

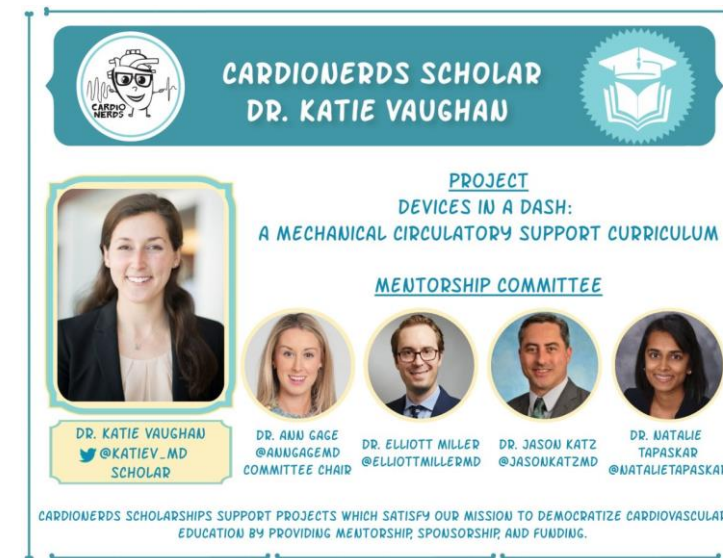
Academy Fellows



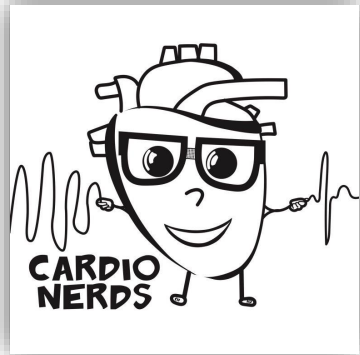
Correspondents



Scholars



CardioNerds Trialists



CardioNerds



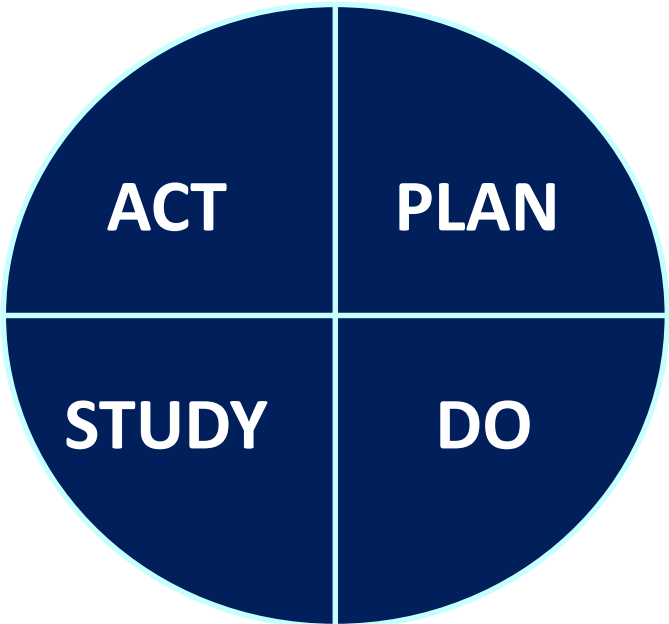
PILOT



Future



PILOT



PILOT



? NEED ?



PARAGLIDE-HF

A multicenter, randomized, double-blind, double-dummy, parallel group, active controlled study to evaluate the effect of **sacubitril/valsartan (LCZ696) versus valsartan** on **changes in NT-proBNP, safety, and tolerability** in HFpEF patients with a **WHF event (HFpEF decompensation)** who have been stabilized and initiated at the time of or within 30 days post-decompensation.

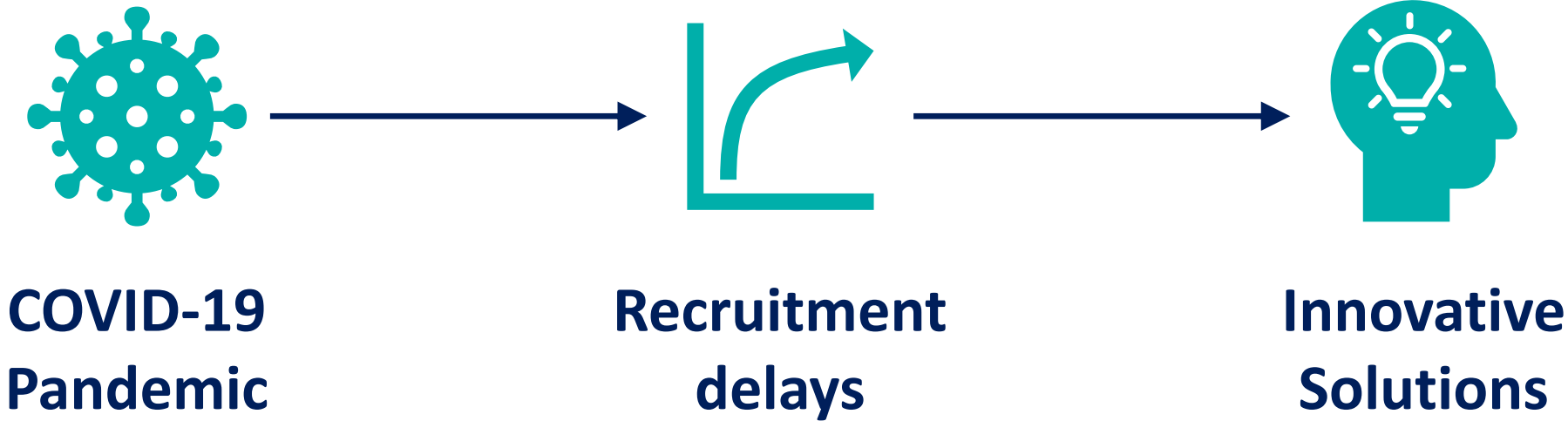


PARAGLIDE-HF

CHALLENGES



Dr. Randall Starling
Cleveland Clinic





Site-Based Research

CHALLENGES



Bureaucracy

Enrollment



Workload

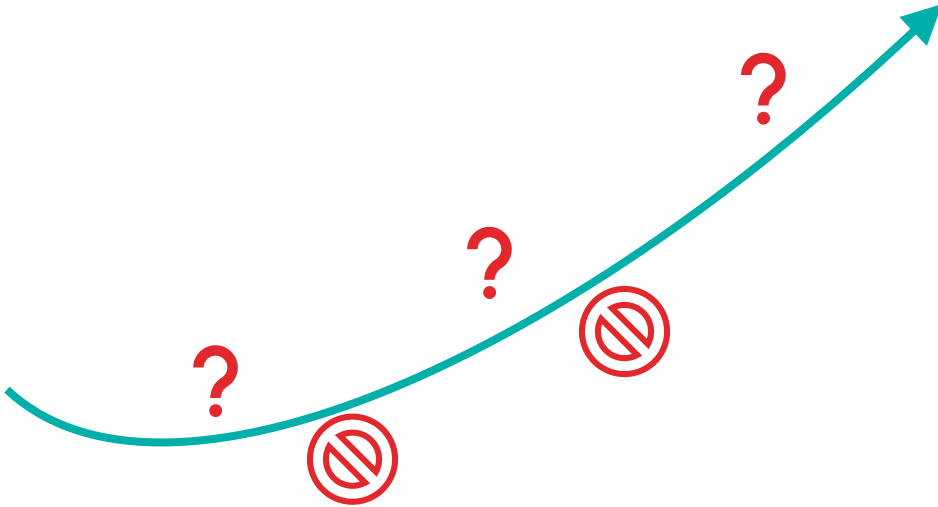
Retention



Expenses

Diversity





JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY
© 2018 BY THE AMERICAN COLLEGE OF CARDIOLOGY FOUNDATION
PUBLISHED BY ELSEVIER

VOL. 72, NO. 22, 2018

FELLOWS-IN-TRAINING & EARLY CAREER PAGE

Time to Get Going on Involving FITs in Clinical Trials

Parag Goyal, MD, MSc,^a Craig Alpert, MD,^b Ariela R. Orkaby, MD, MPH^{c,d}



JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY
© 2015 BY THE AMERICAN COLLEGE OF CARDIOLOGY FOUNDATION
PUBLISHED BY ELSEVIER INC.

VOL. 65, NO. 21, 2015
ISSN 0735-1097/\$36.00
<http://dx.doi.org/10.1016/j.jacc.2015.04.016>

FELLOWS-IN-TRAINING & EARLY CAREER PAGE

A Call for Collaboration The Evolving Heart Failure Apprenticeship Network

Anuradha Lala, MD,^{*} Robert J. Mentz, MD[†]



JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY
© 2015 BY THE AMERICAN COLLEGE OF CARDIOLOGY FOUNDATION
PUBLISHED BY ELSEVIER INC.

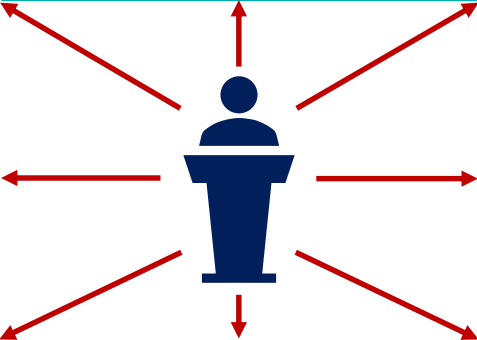
VOL. 66, NO. 3, 2015
ISSN 0735-1097/\$36.00
<http://dx.doi.org/10.1016/j.jacc.2015.06.002>

FELLOWS-IN-TRAINING & EARLY CAREER PAGE

Fellow-Initiated Clinical Trials Opportunities, Challenges, and Strategies

Yan Liu, MD, PhD, Xuming Dai, MD, PhD



Site PI Responsibilities		
Conduct study in accordance with protocol	Supervise conduct including those delegated with trial activities	Satisfy and maintain adherence to local regulatory requirements
Maintain adequate training of site personnel		Protect the rights, safety, and welfare of patients
Permit and participate in FDA inspections		Submit study documents: adverse events, progress reports, deviations from investigational plan
	Ensure integrity of study data	

Opportunities to ↑ Engagement
Involvement on study manuscripts (as appropriate) with use of scoring system based on study contributions
Letters of support to supervisors and/or institutional leadership for inclusion in promotion process
Social media recognition
Discounted access to annual scientific session activities
Discounted continuing medical education opportunities
Trial activities constituting CME and/or MOC requirements

PLAN

Scientific Goal

Improve trial
enrollment

CardioNerds Goal

Pair
Content Creation w/
Professional
Development

PLAN

OUR Goal

Pair
Trial Enrollment w/
Professional Development

CardioNerds Clinical Trials Network

- ✓ Identify **CardioNerds FIT Trialists** at participating sites
- ✓ ↑ Equitable trial enrollment
- ✓ Professional development

PLAN

National Leaders



Dr. Kavita Sharma
USA

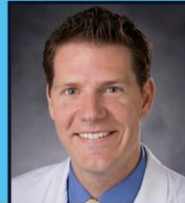


Dr. Serge Lepage
Canada



Jon Ward
PARAGLIDE-HF
Medical Lead

Steering Committee



Dr. Robert Mentz
Lead PI



Dr. Eric Velazquez



Dr. David Morrow



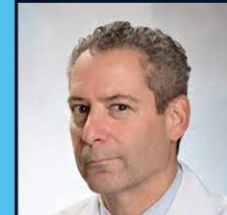
Dr. Randall Starling



Dr. Eugene Braunwald



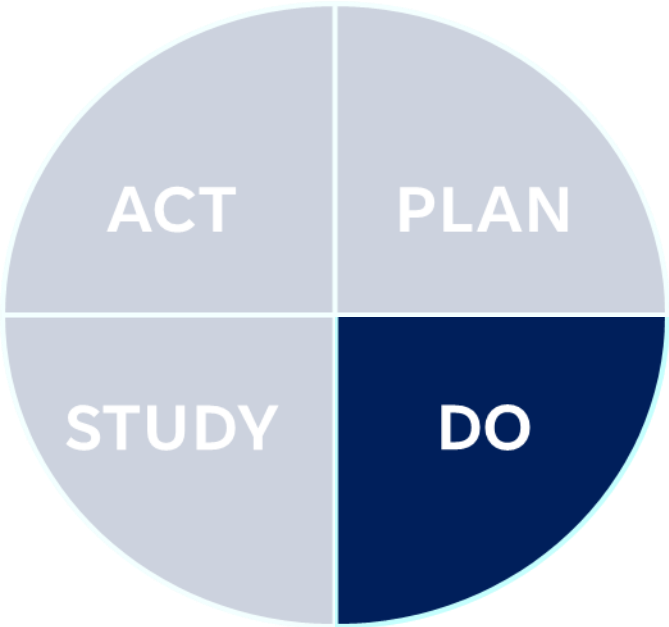
Dr. Shelley Zieroth



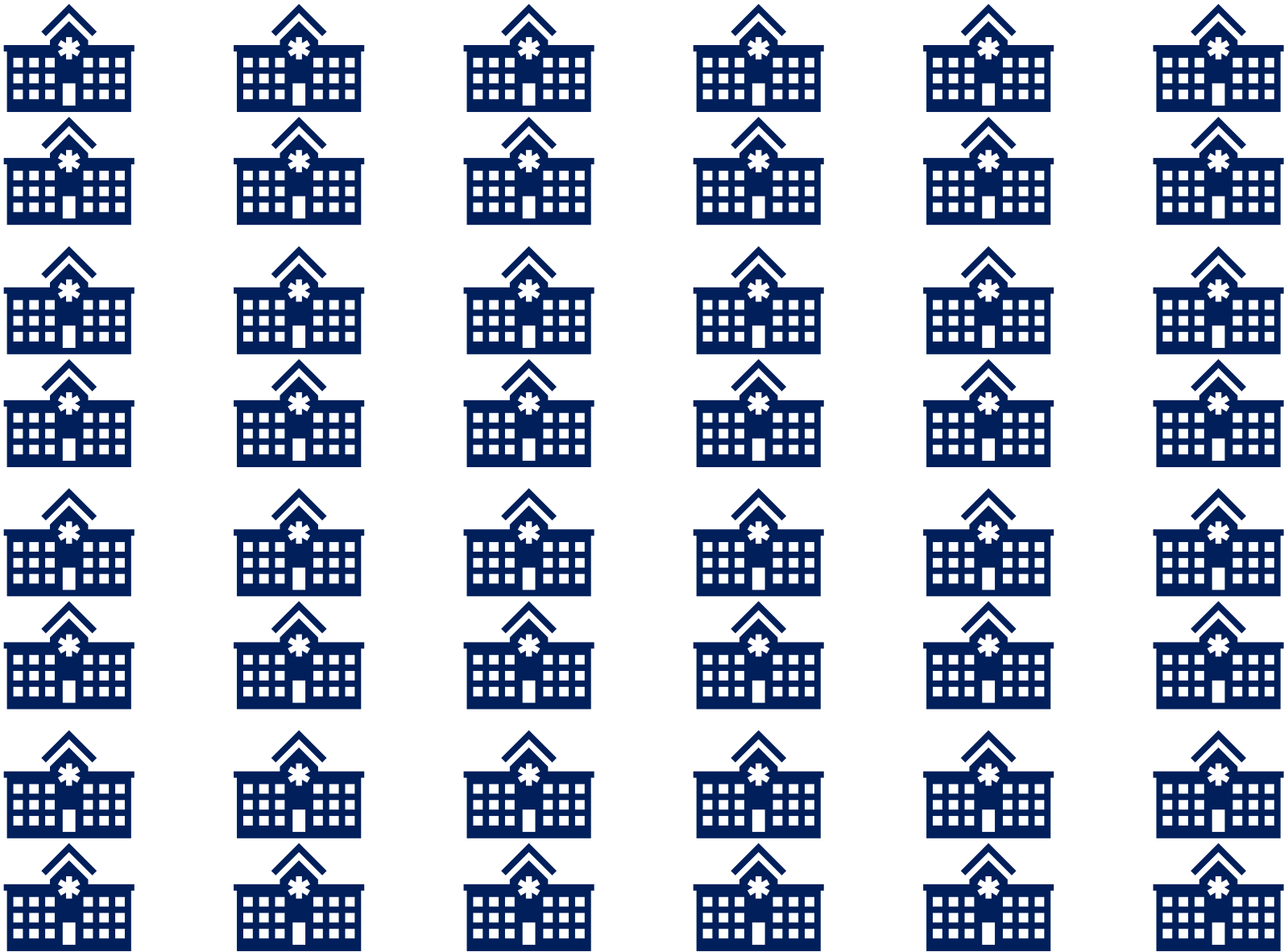
Dr. Scott Solomon



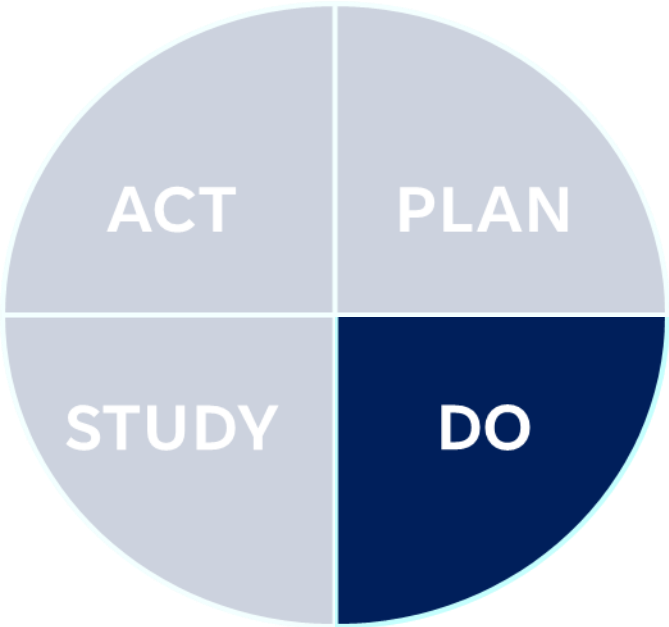
Dr. Adrian Hernandez



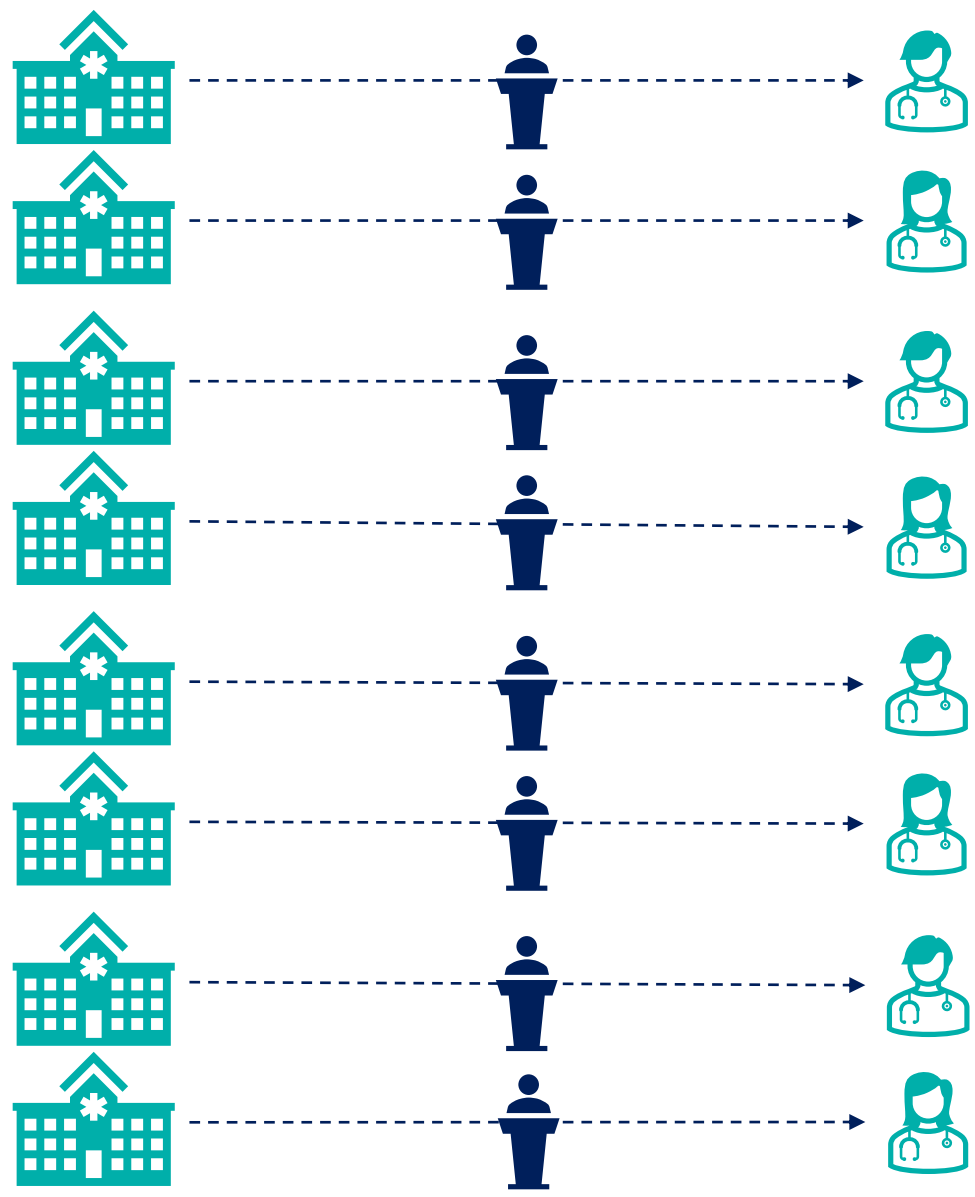
1. Reviewed sites

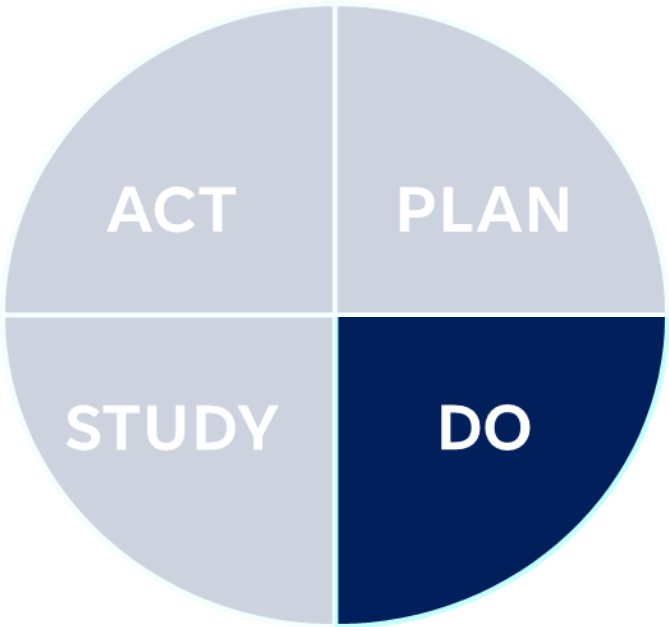




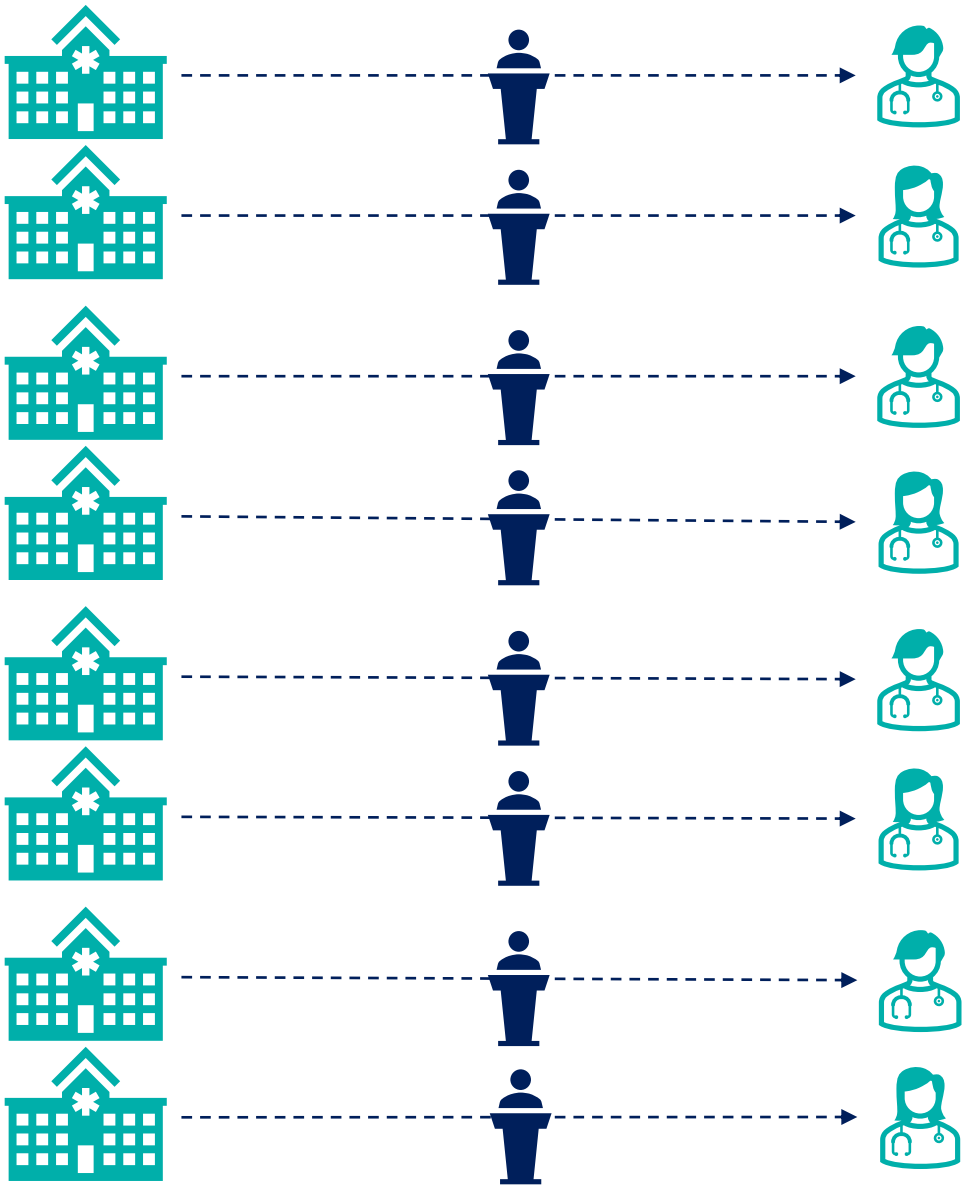


- 1. Reviewed sites
- 2. ID'ed training programs
- 3. Invited PIs to nominate FITTs





- 1. Reviewed sites
- 2. ID'ed training programs
- 3. Invited PIs to participate FITTs
- 4. Engaged the FITTs



Research Team



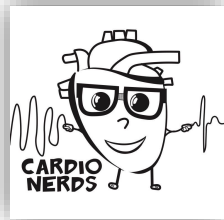
Lecture Series



Mentorship



Networking



CardioNerds

Curriculum

Becoming a Trial PI

- Dr. Robert Mentz

Equitable Enrollment

- Dr. Melvin Echols

Clinical Trial Design

- Dr. David Morrow

Women in CV Research

- Drs. Anu Lala, Alanna Morris, Shelley Zieroth

Introduction to Numeracy

- Dr. Burton Lee

Career Development, Trials, and Mentorship

- Dr. Randall Starling

The History of ARNI

- Dr. Scott Solomon

Community-Based Leadership in Clinical Trials

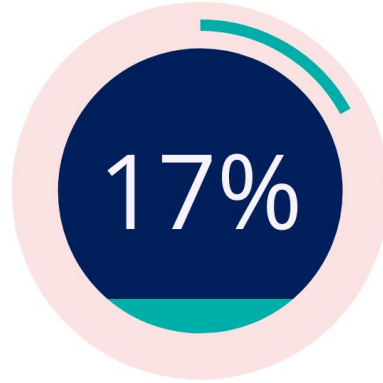
- Drs. Clay Hays, David Hinchman, Rita Jermyn,
Vijay Rao



? IMPACT ?

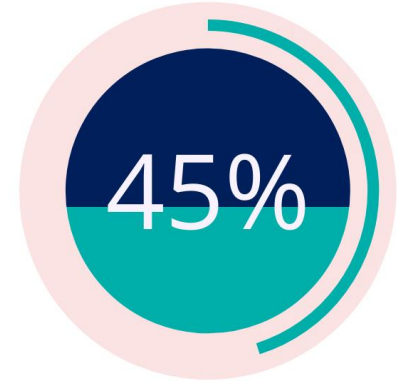


Recruitment

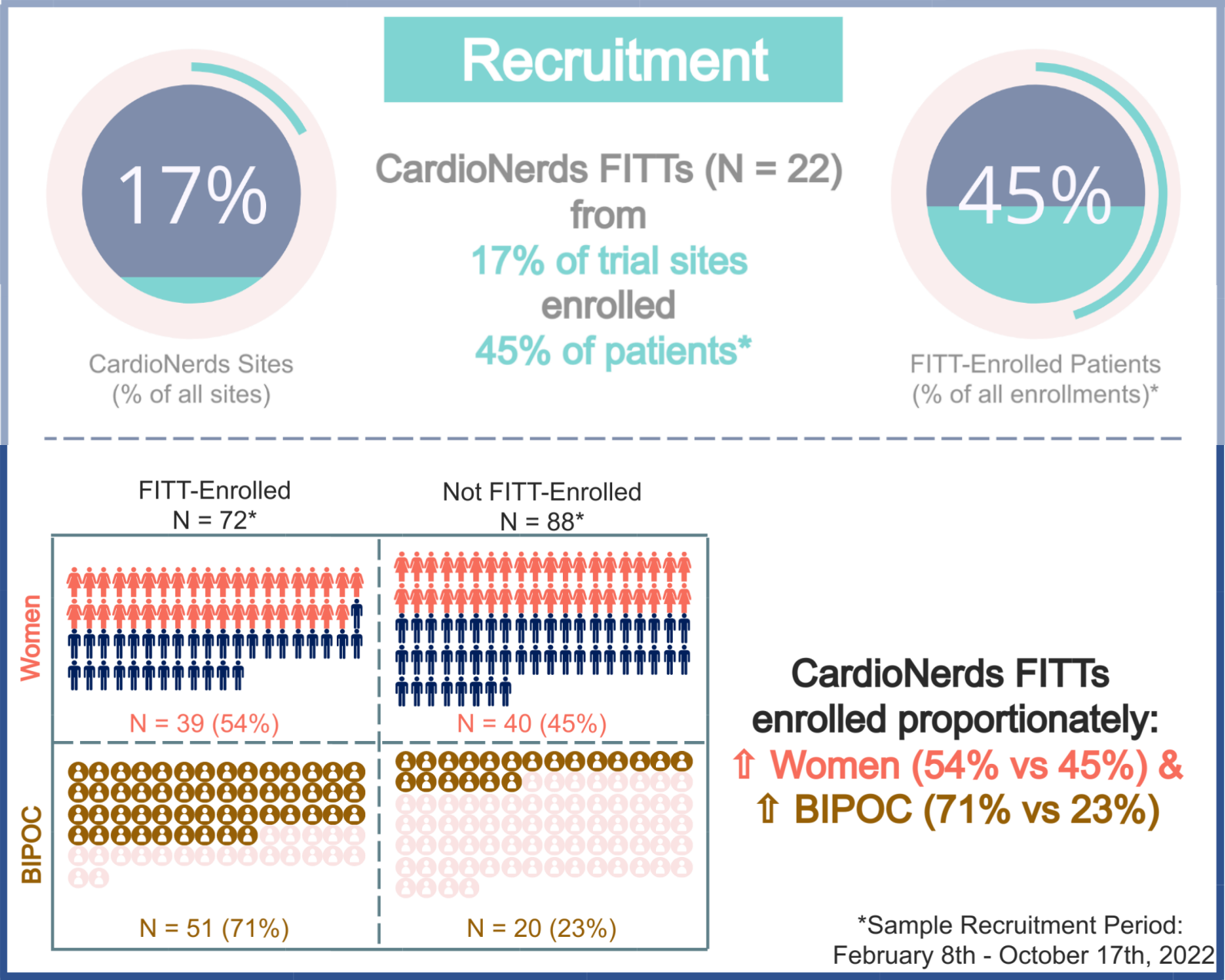
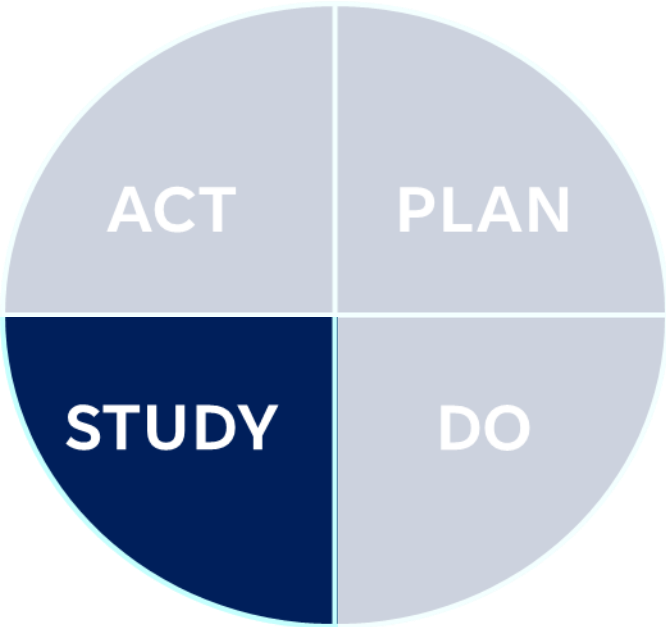


CardioNerds Sites
(% of all sites)

CardioNerds FITTs (N = 22)
from
17% of trial sites
enrolled
45% of patients*



FITT-Enrolled Patients
(% of all enrollments)*





The @CardioNerds Clinical Trials Network - Update #2

What happens when you empower FITs in the conduct of a clinical trial!?

This 🙌

@CardioNerds FIT Trialist - enrolled patients:

55% Women

82% Racially Underrepresented

🙏 Thanks to mentorship from Lead PI @robmentz



Silia DeFilippis, MD, FACC @ersied727 · May 4

Wow this is awesome 🌟

@CardioNerds FITs enrolled 55% 🧑 and 72% from other underrepresented populations! @AmitGoyalMD @robmentz

CardioNerds @CardioNerds · May 4

The @CardioNerds Clinical Trials Network aims to pair:

- ✓ Equitable Enrollment with
- ✓ FIT Development

...and it's working! ❤️ 🧐



Anu Lala-Trindade
@dranulala

Replying to @CardioNerds @robmentz and 13 others

Love this program! And grateful for the opportunity to work with #FunctionNotFailure bound CardioNerd 🩺
@jjfein @IcahnMountSinai @SinaiCards
@MountSinaiNYC 🙌



Robert Mentz, MD and 6 others



Robert Mentz, MD
@robmentz

Thrilled to have the chance to work with and learn from this amazing crew!

PARAGLIDE-HF + @CardioNerds

@AmitGoyalMD @Dr_DanMD @dranulala
@MelvinEchols9 @RxPDX @rcstarling @scottsolomon
@texhern @ShelleyZieroth @KSharmaMD

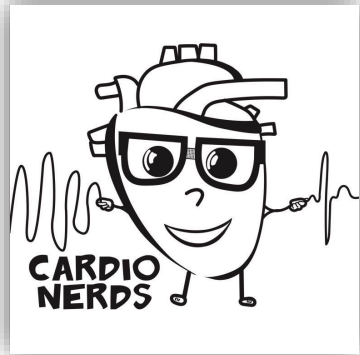
CardioNerds @CardioNerds · Dec 16, 2021

We @CardioNerds are beyond excited to kick off the Clinical Trials Network...the energy & excitement are palpable.

@CardioDrNyange @J_Brooksbank @aepetersMD @CarrieMahurinMD
@JLoveIMD @jjfein & Dr. Dhillon!

@robmentz @dranulala @KSharmaMD @MelvinEchols9 @RxPDX @rcstarling
twitter.com/AmitGoyalMD/st...





CardioNerds



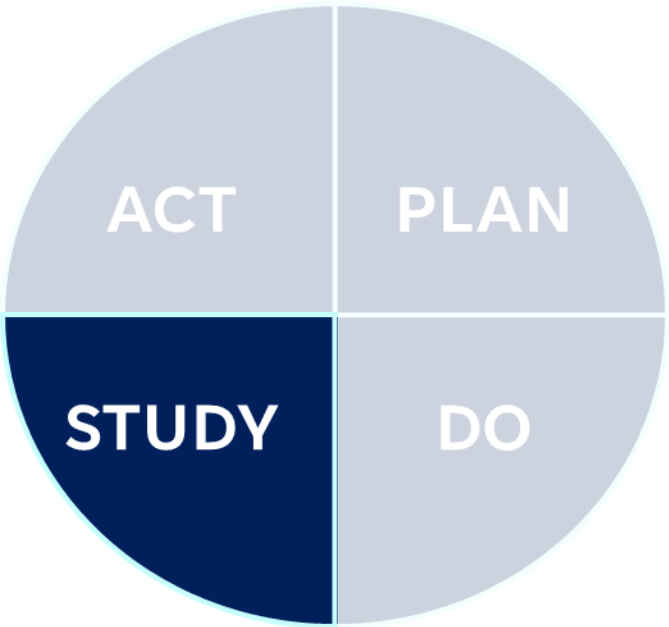
PILOT



Future



Future



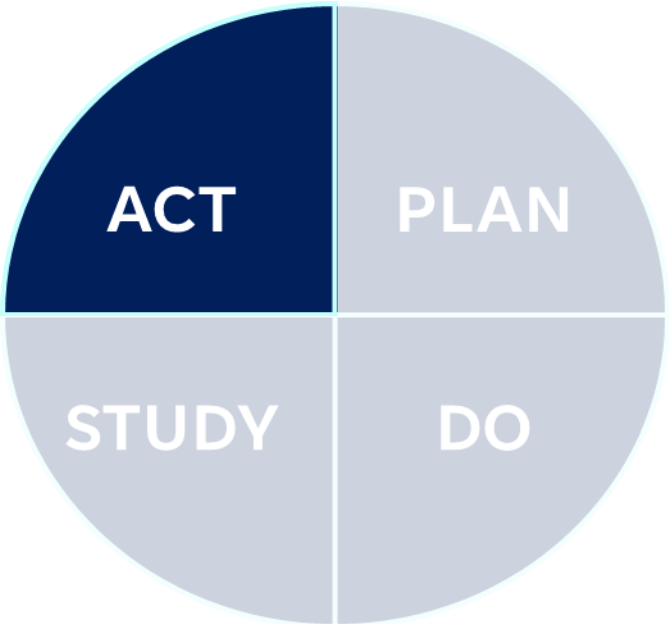
Enrollment Data



Qualitative Study



Career Impact



Iterate For The
Next Trial(s)...



Describe The
CTN Experience



Duplicate Across
Disciplines

Whether in an RCT or at Home...



...it's the PEOPLE who make it special.

