

Cardiovascular Sciences Center (CVSC) & AH Heart and Vascular (H&V) Service Line

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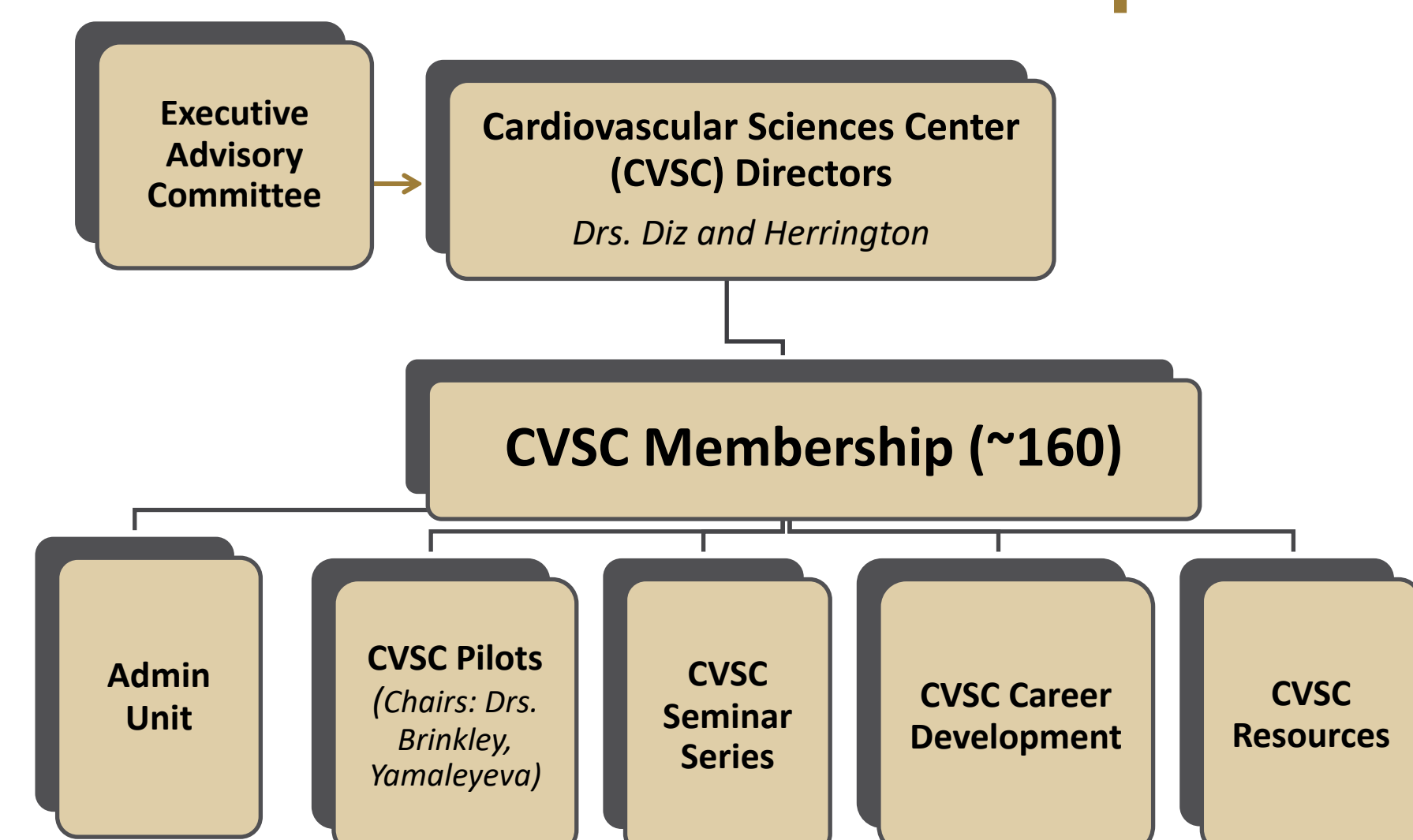
Purpose/Mission

Provide key coordination and support for investigators engaged in CV research across the AHWF Enterprise to foster innovation and discovery concerning prediction, treatment, and prevention of cardiovascular diseases.

Three strategic priorities:

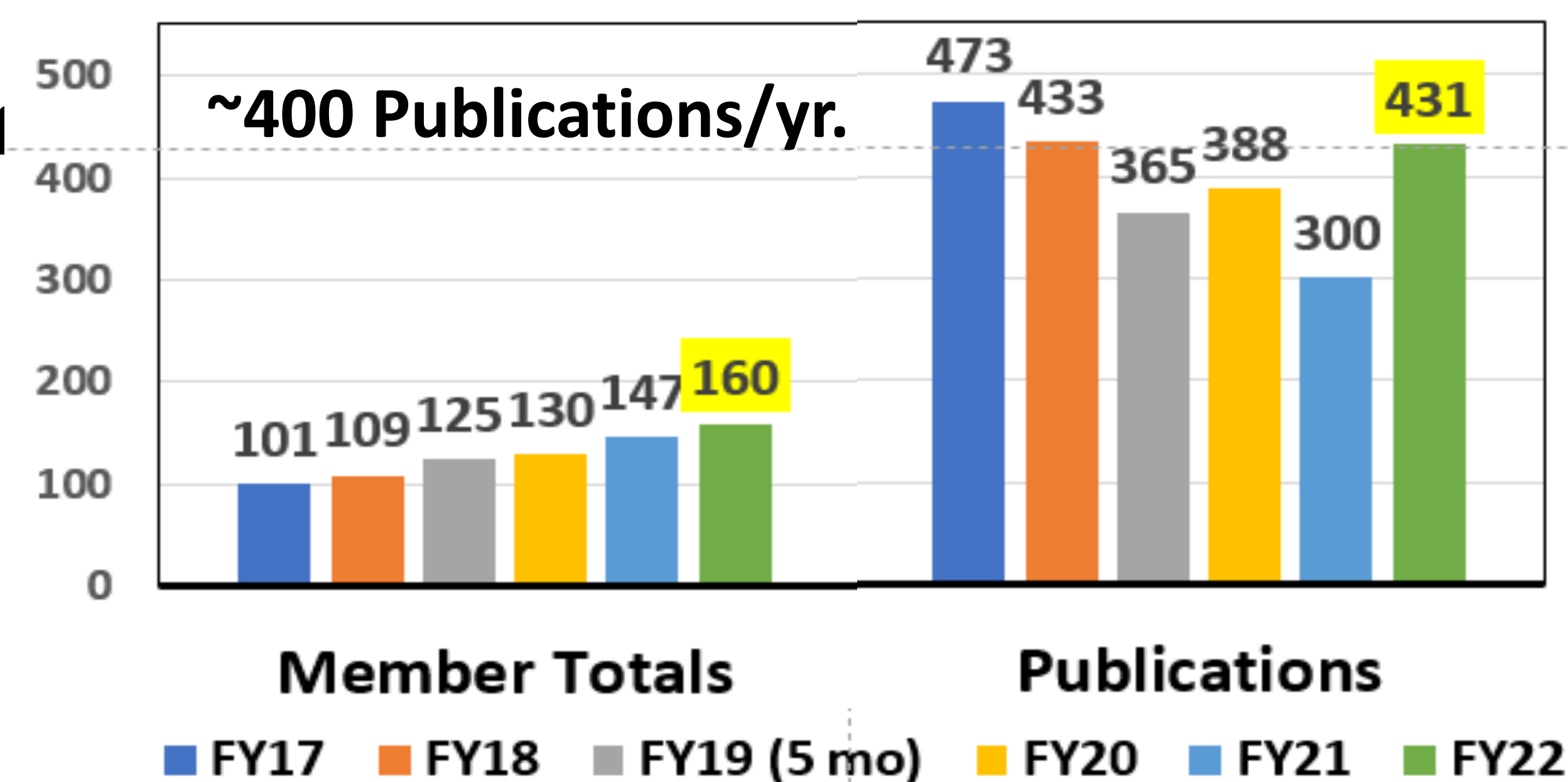
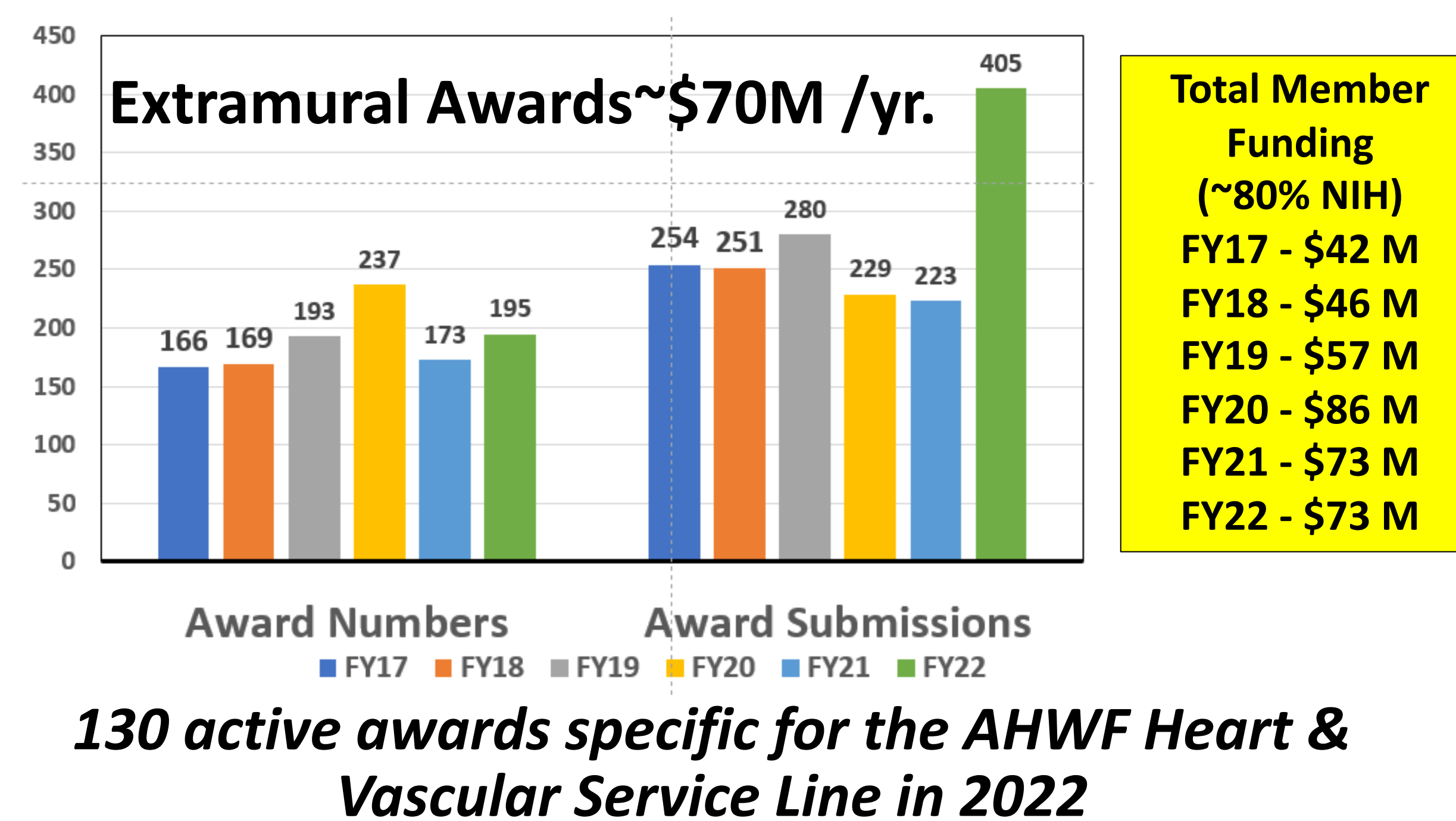
- Enhance communication across the cardiovascular research community.
- Facilitate ongoing and new research.
- Support early career development of cardiovascular investigators.

CVSC Leadership

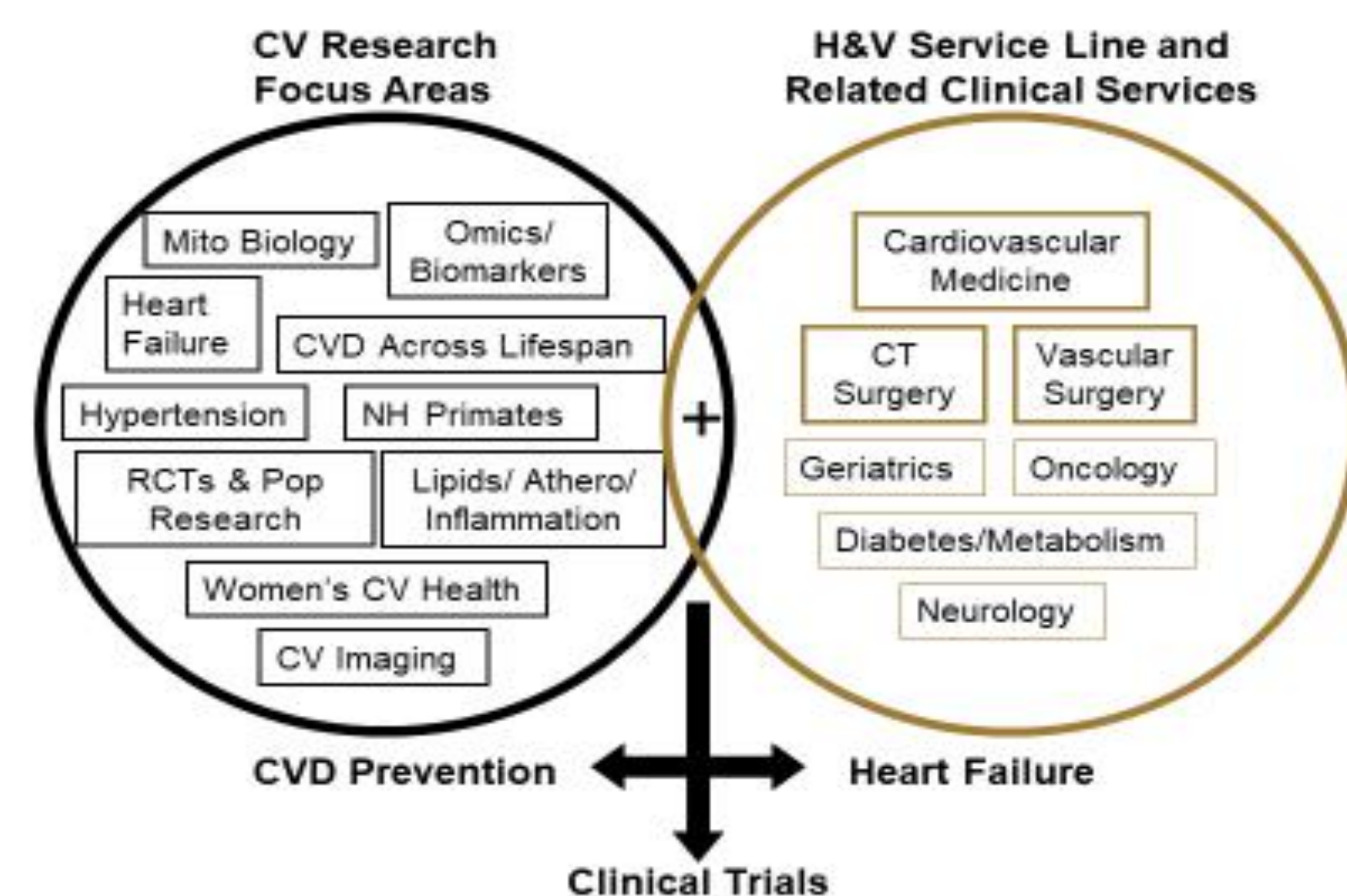


Organizational chart above illustrates the CVSC leadership groups promoting diverse, multi-disciplinary teams working on topics well-aligned with the Institutional Research Strategic Plan and Heart & Vascular Service Line priorities. We engage member input through 6 committees/12 committee leaders/~62 members involved.

Metrics and Members

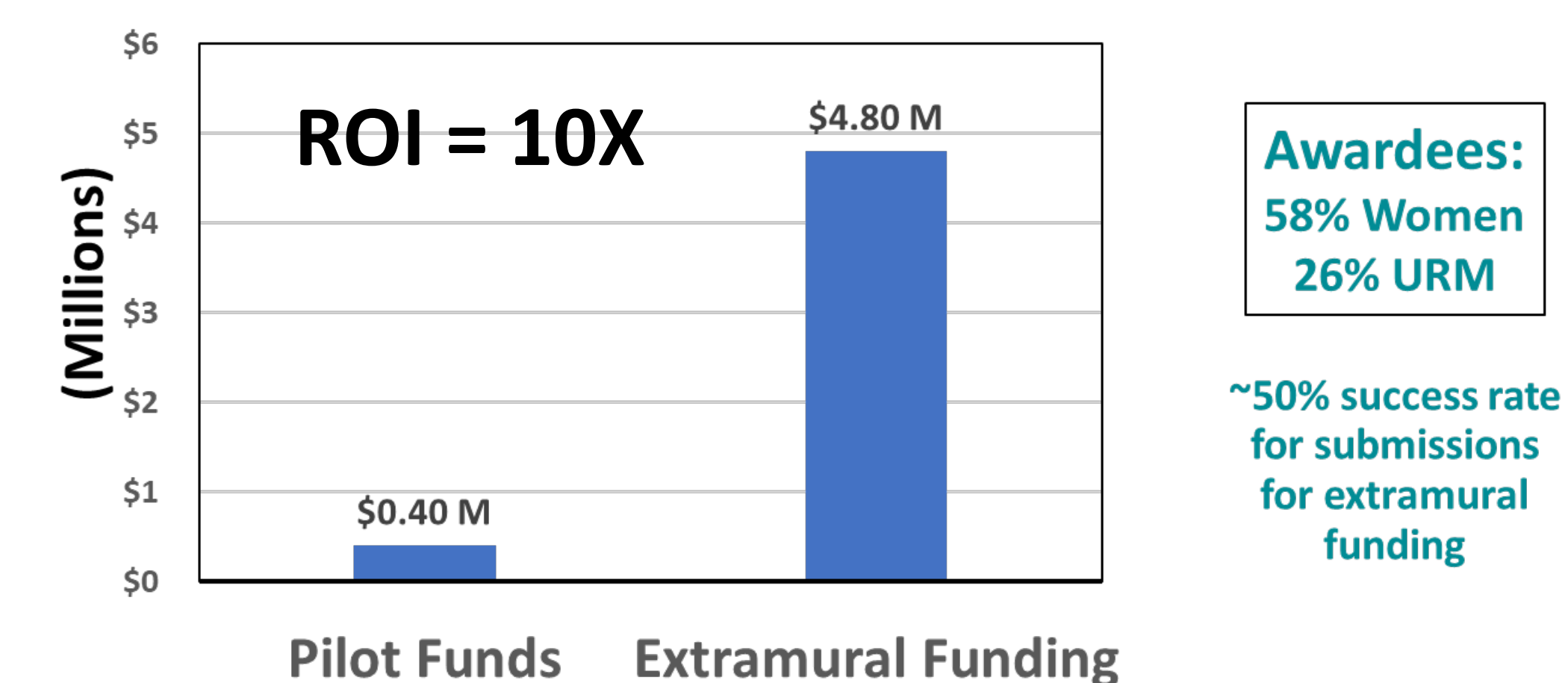


Research Resources Aligned with Heart & Vascular (and Other) Service Lines



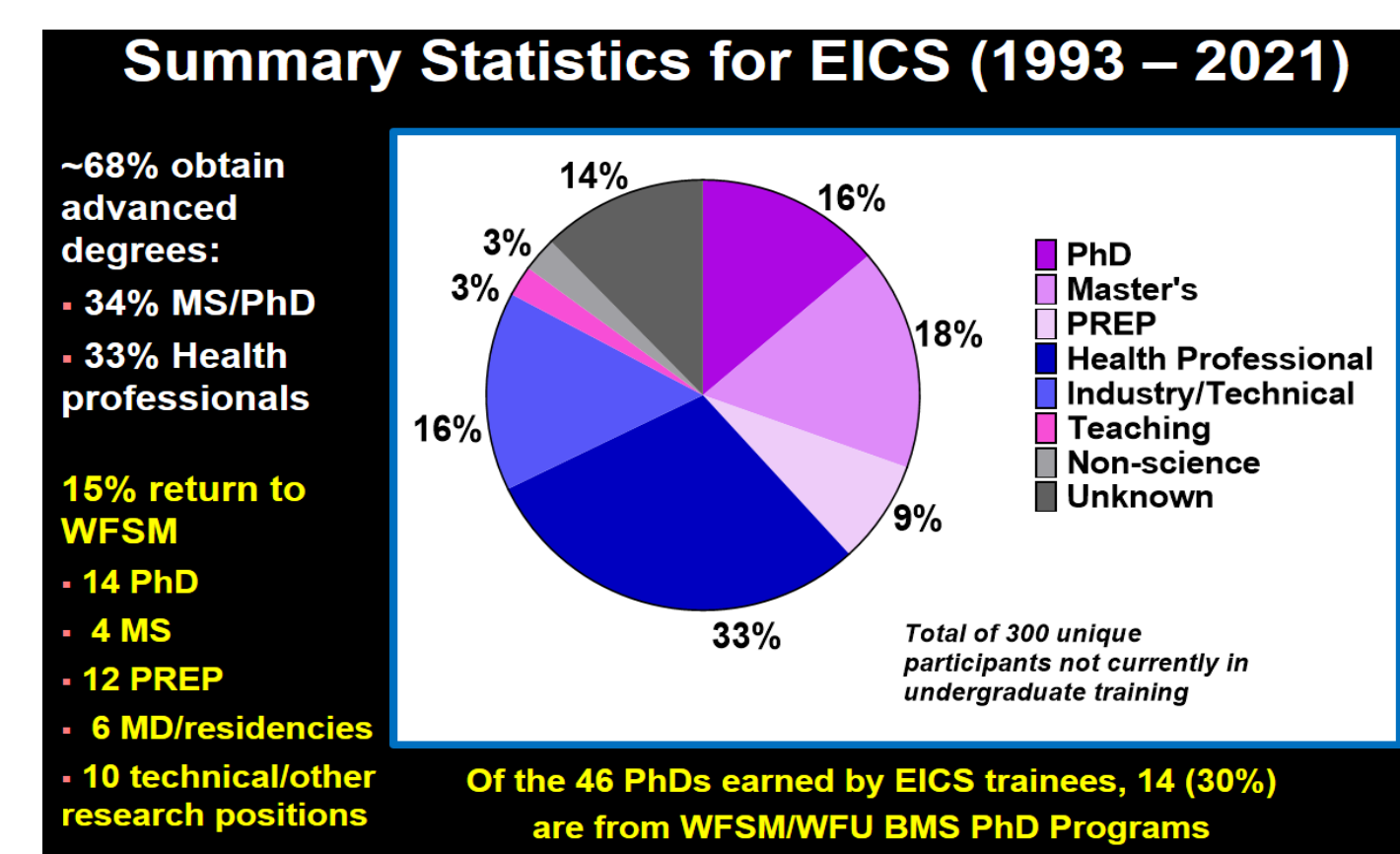
Pilot Grants, Training Programs, Core Resources Provide Pathways for Research Careers

Pilot Funding Return on Investment



Training Programs Return on Investment

- T32 post-doctoral training (faculty recruitment – 4 recent hires).
- CVSC faculty lead CTSI, WIMS, Office of Faculty Affairs, WFU Graduate School program for research mentoring.
- Undergraduate research training focused on diversity with WFU, WSSU, NC A&T (Figure shows Excellence in Cardiovascular Sciences (EICS) summer program outcomes).



Member led funding includes 9 Training grants (T32, T35, R25; 3 diversity focused) and 4 K's totaling \$2.3M in ADC

Value of Training is priceless!

Enterprise-Wide Heart & Vascular Research Collaboration Spotlight



Nicole Superville, MD



Dalane Kitzman, MD

Rehab-HFpEF Clinical Trial

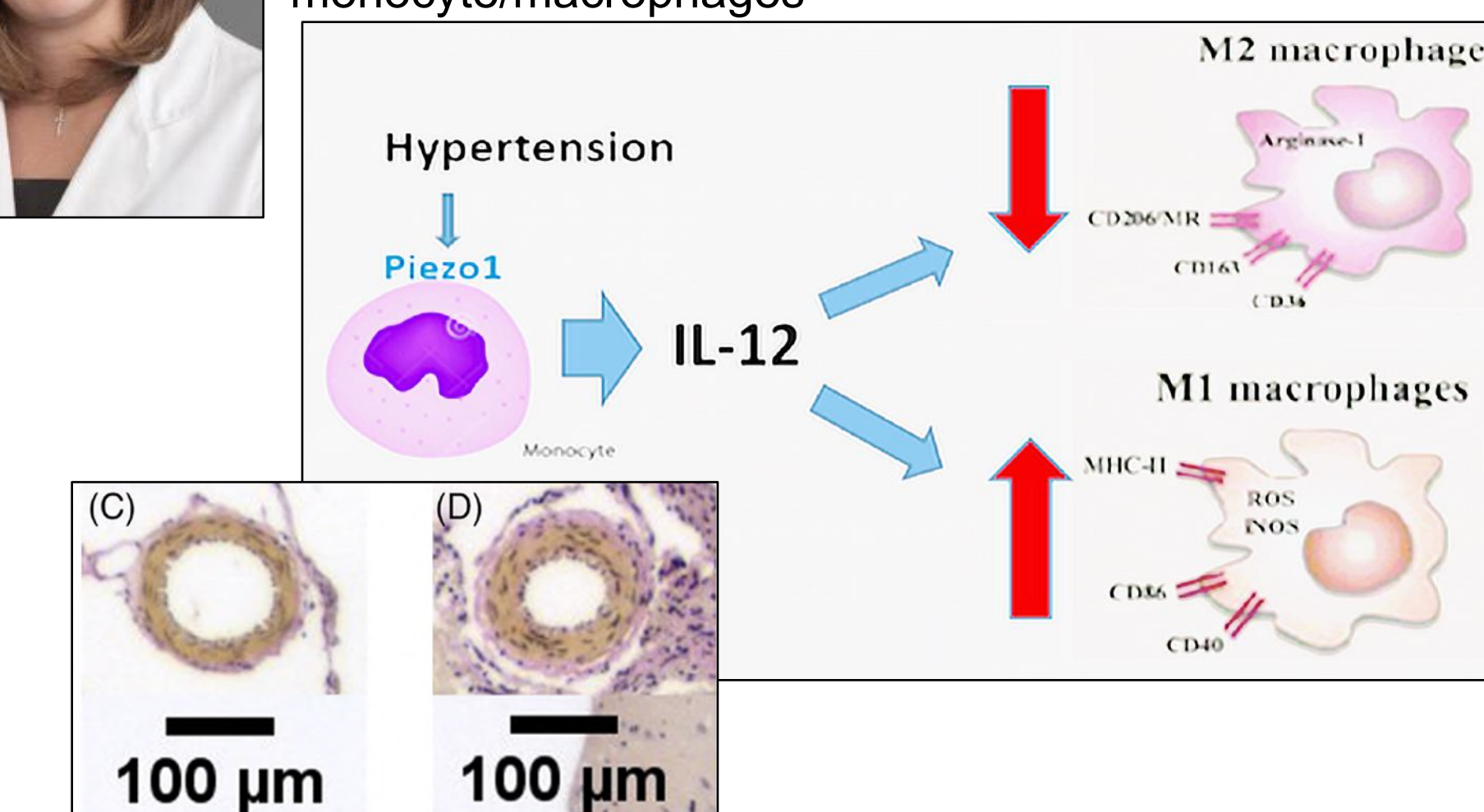
- \$30M NIH-funded trial in pts with HF
- Study-wide PI (Kitzman - WF)
- Charlotte PI (Superville – SHVI)
- 18 other sites across the country

Pilot Grant Awardees Research Spotlight



Stacey Wolfe, MD, Professor – Neurosurgery

Hypertension worsens secondary brain injury after ICH by Piezo1 mechanoreceptor-induced IL-12 release from monocyte/macrophages



CVSC Core Resource: Data Scientists

Specific CV-focused Expertise:

- Analytics, Informatics, Statistics
- Epic Clinical Data retrieval and analysis
- Database creation, interface with RedCap

Productivity:

- Projects = 11
- Manuscripts = 10
- Grants = 2 submitted; support for initial data management set-up and analysis for additional 4+

Assistance is primarily to early career faculty and includes specialized expertise extended to others where needed



Andrew South, MD, Assoc. Prof – Peds.

Maternal cardiovascular health and offspring programmed hypertension in Vervet monkeys: role of the renin-angiotensin system

