

AAIM PSTP & RiR Survey

April 2019

Survey Sub-Committee Members:

Olujimi Ajijola (UCLA)

Rebecca Baron (BWH)

Skip Brass (UPenn)

Nacide Ercan-Fang (UMinn)

Michael Kisielewski (AAIM)

Valerie O (AAIM)

Chris Williams (Vanderbilt)



Internal medicine programs (43)

**Case Western Reserve University School of Medicine
Geffen School of Medicine at UCLA
Drexel University College of Medicine
Duke University School of Medicine
Emory University School of Medicine
Harvard Medical School Beth Israel Deaconess
Harvard Medical School Brigham and Women's Hospital
Harvard Medical School Massachusetts General Hospital
Icahn School of Medicine at Mount Sinai
Indiana University School of Medicine
Lozano Long School of Medicine-University of Texas
Johns Hopkins University School of Medicine
Medical College of Georgia at Augusta University
Medical College of Wisconsin
Medical University of South Carolina College of Medicine
New York University
Northwestern University Feinberg School of Medicine
Ohio State University College of Medicine
Perelman School of Medicine at the Univ of Pennsylvania
Rutgers New Jersey Medical School
Scripps Clinic/Scripps Green Hospital
Stanford University School of Medicine**

**Stony Brook University School of Medicine
University of Alabama School of Medicine
University of California, San Diego School of Medicine
University of Chicago Pritzker School of Medicine
University of Cincinnati College of Medicine
University of Colorado School of Medicine
University of Iowa Carver College of Medicine
University of Kentucky
University of Massachusetts Medical School
University of Michigan Medical School
University of Minnesota Medical School
University of North Carolina School of Medicine
University of Rochester School of Medicine and Dentistry
University of Texas Southwestern
University of Utah School of Medicine
University of Virginia School of Medicine
University of Wisconsin School of Medicine and Public Health
Vanderbilt University School of Medicine
Washington University in St. Louis School of Medicine
Weill Cornell Medicine
West Virginia University School of Medicine**

Pediatrics programs (9)

Baylor College of Medicine

Children's Hospital of Philadelphia (CHOP)

Cincinnati Children's Hospital

Duke University School of Medicine

Northwestern University Feinberg School of Medicine

Stanford University School of Medicine

Vanderbilt University School of Medicine

Washington University in St. Louis School of Medicine

Yale School of Medicine

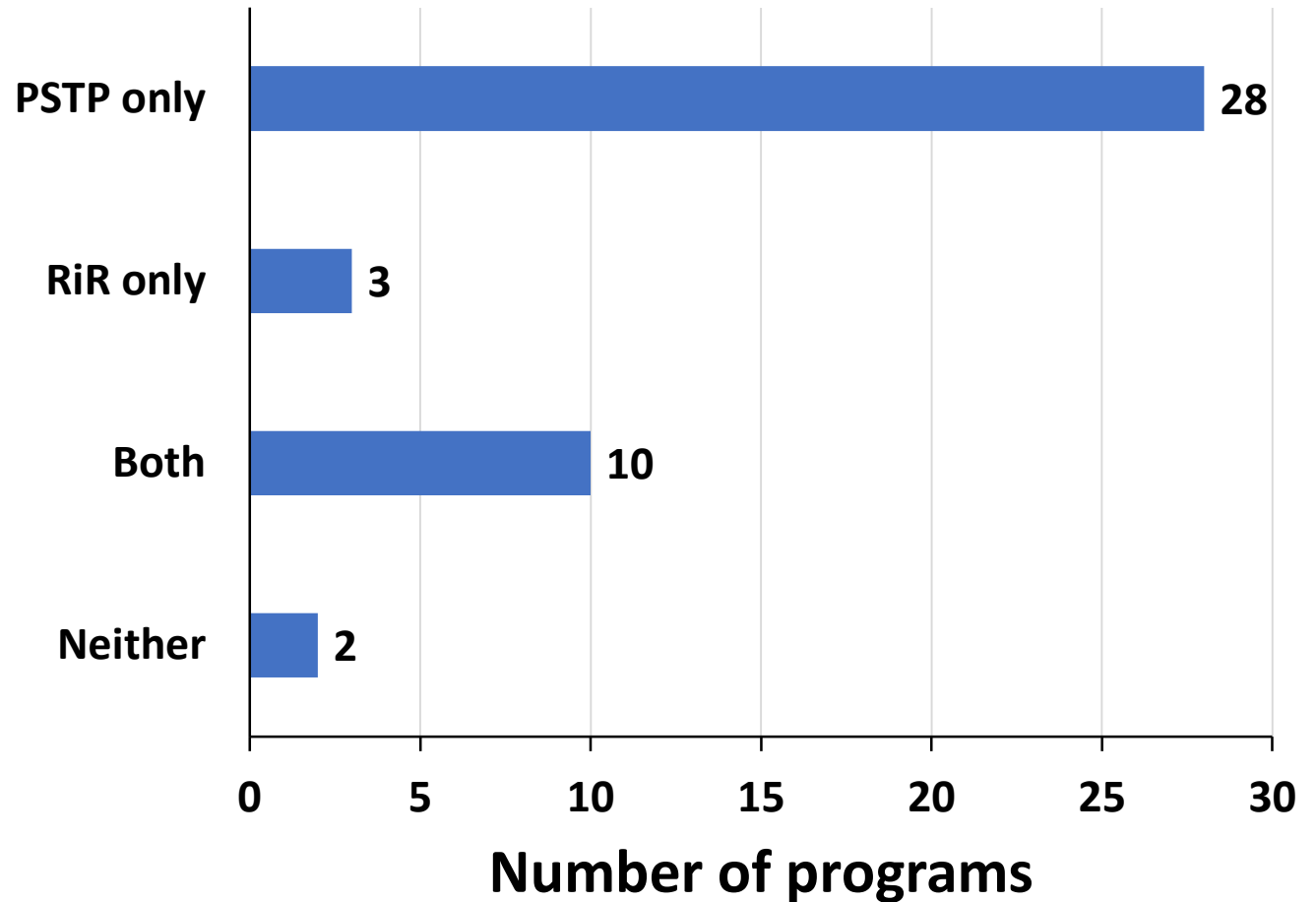
What is the nature of your internal medicine program for training physician-scientists?

N=43 internal medicine programs

The definitions provided in the survey:

Physician-Scientist Training Program (PSTP): Program might include both residency and fellowship support, might have a separate match number, and/or might permit "short-tracking" for residents to enter fellowship after two years rather than three

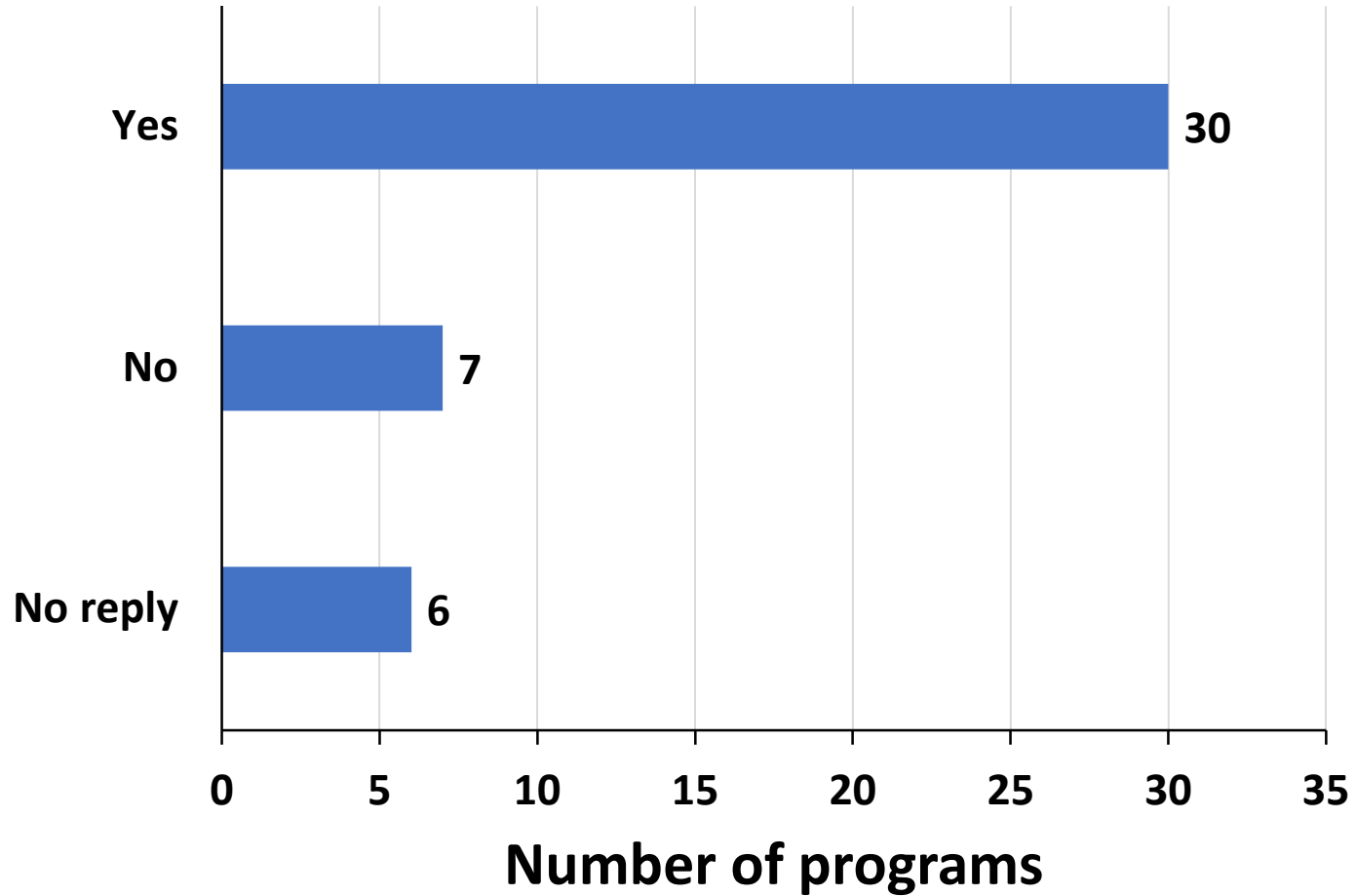
Research in Residency (RiR): Programs that provide protected time or have established research curriculum



*3 Respondents had R38s, 2 had BWF, 2 had BWF/R38

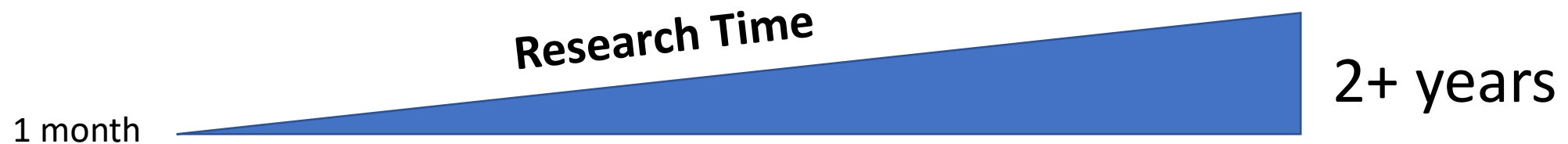
Is residency linked to fellowship according to program's website?

N=43 internal medicine programs



Program notes

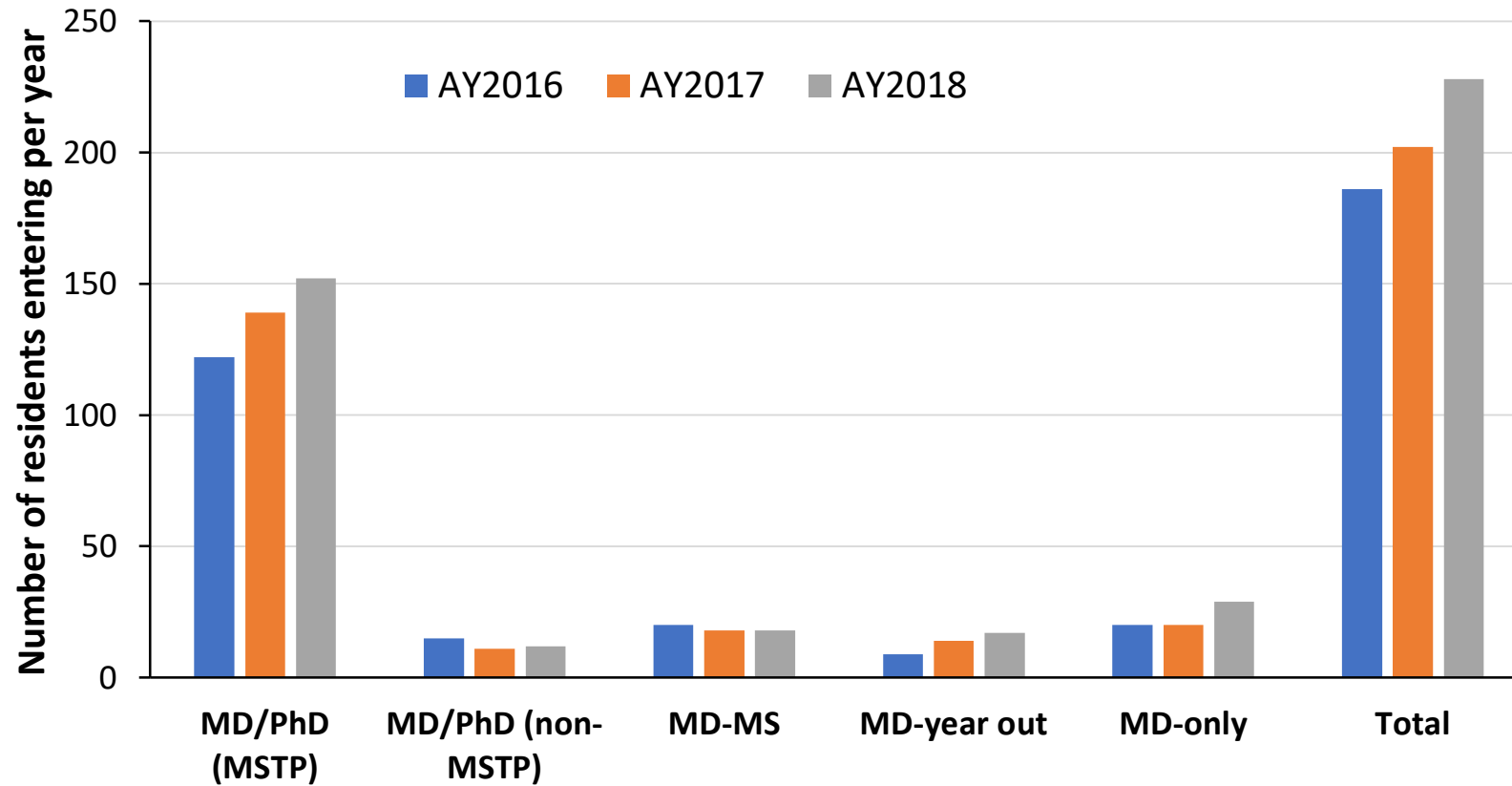
- No separate match, but permit short-tracking and have a curriculum and protected research time available*
- All residents in program have opportunity to use 2 months (1 in PGY2 year and 1 in PGY3 year) for research*
- **5 year IM research residency 2+ years research 2+ years clinical**
- All residents have the opportunity for 3 months of research during their residency*
- **Residents do not have a protected time for research but can elect to use one or more 4 week electives/year for research. Residents also have some time to do their research during less-busy rotations such as ambulatory week. Residents have ambulatory week every 5th week in their 4+1 schedules*.**



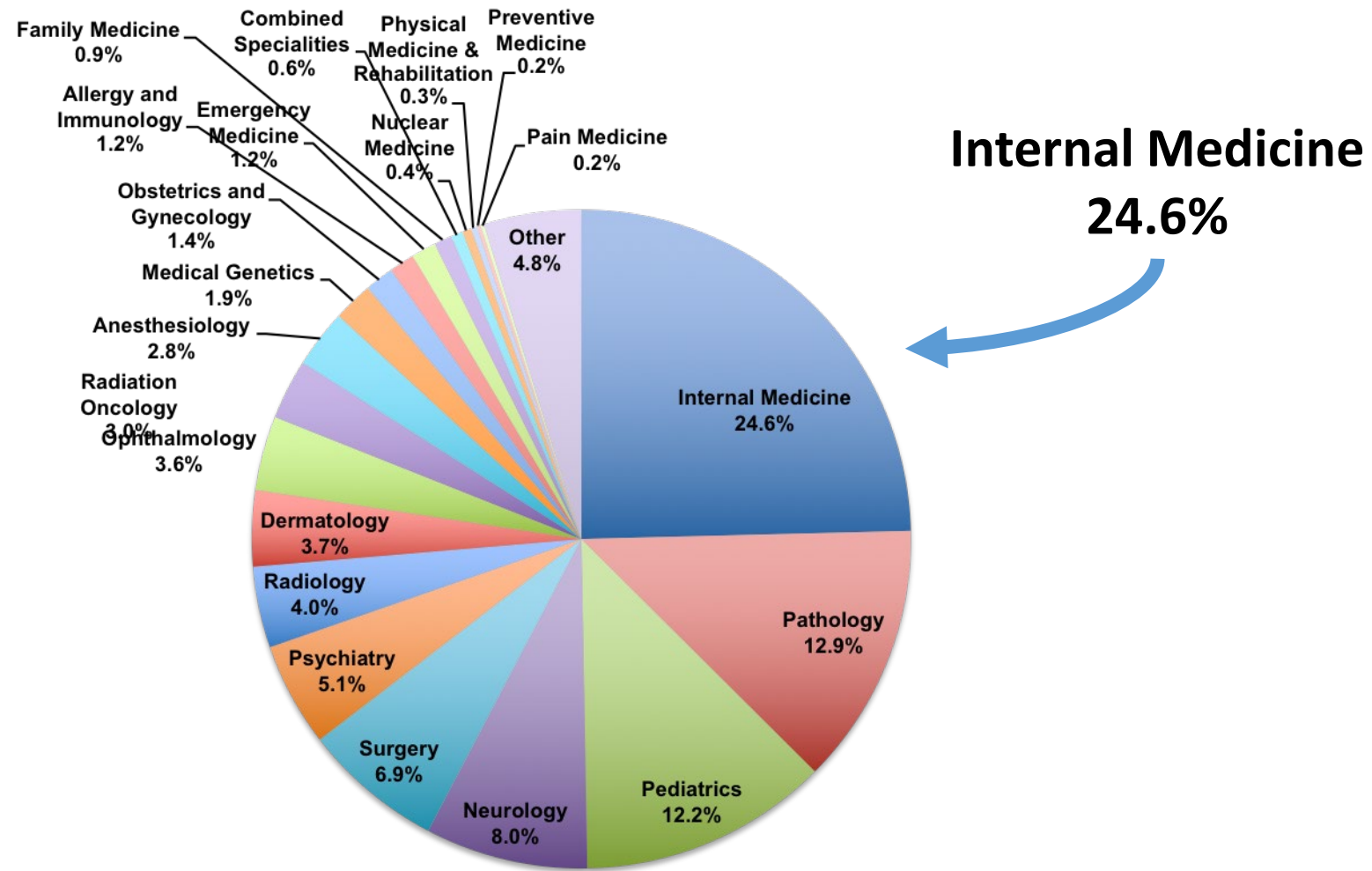
Note: the ones in red are the 2 programs that said they were neither RiR nor PSTP

Approximately how many residents entered your department's PSTP in each of the past three academic years and what did they do in medical school?

N=36 internal medicine programs that are either PSTP or PSTP/RiR



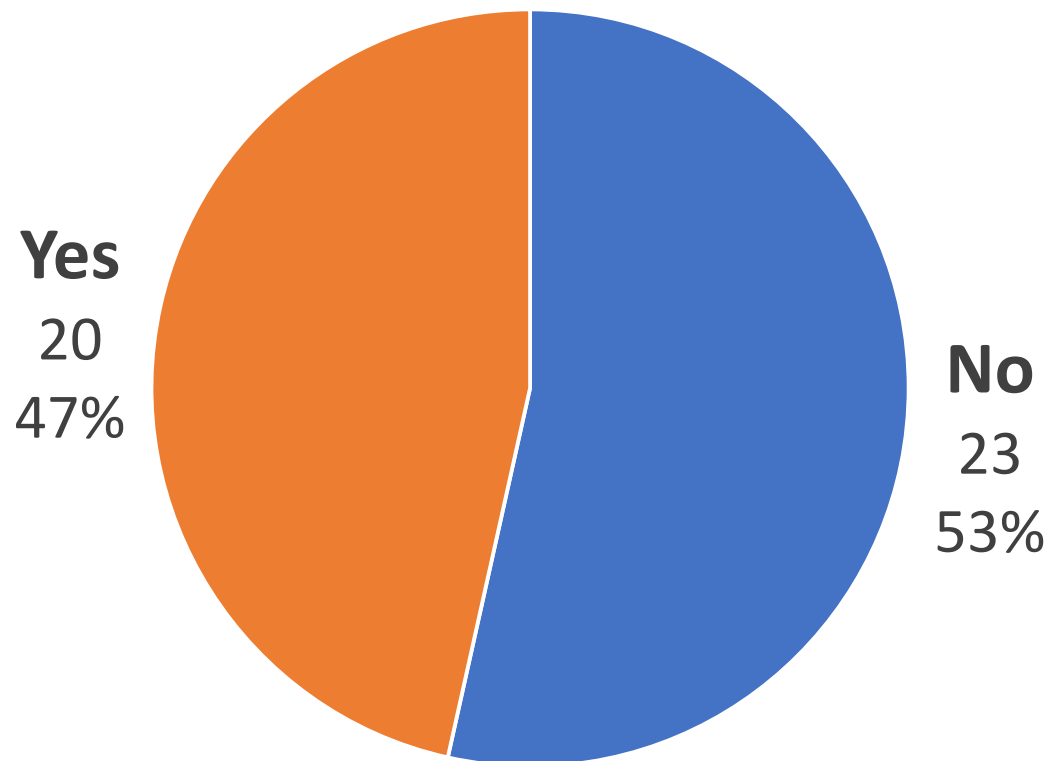
Number of MD/PhD program grads per year entering internal medicine $\approx 25\% \times 550 \approx 150$



N=4299 survey respondents who had completed a residency

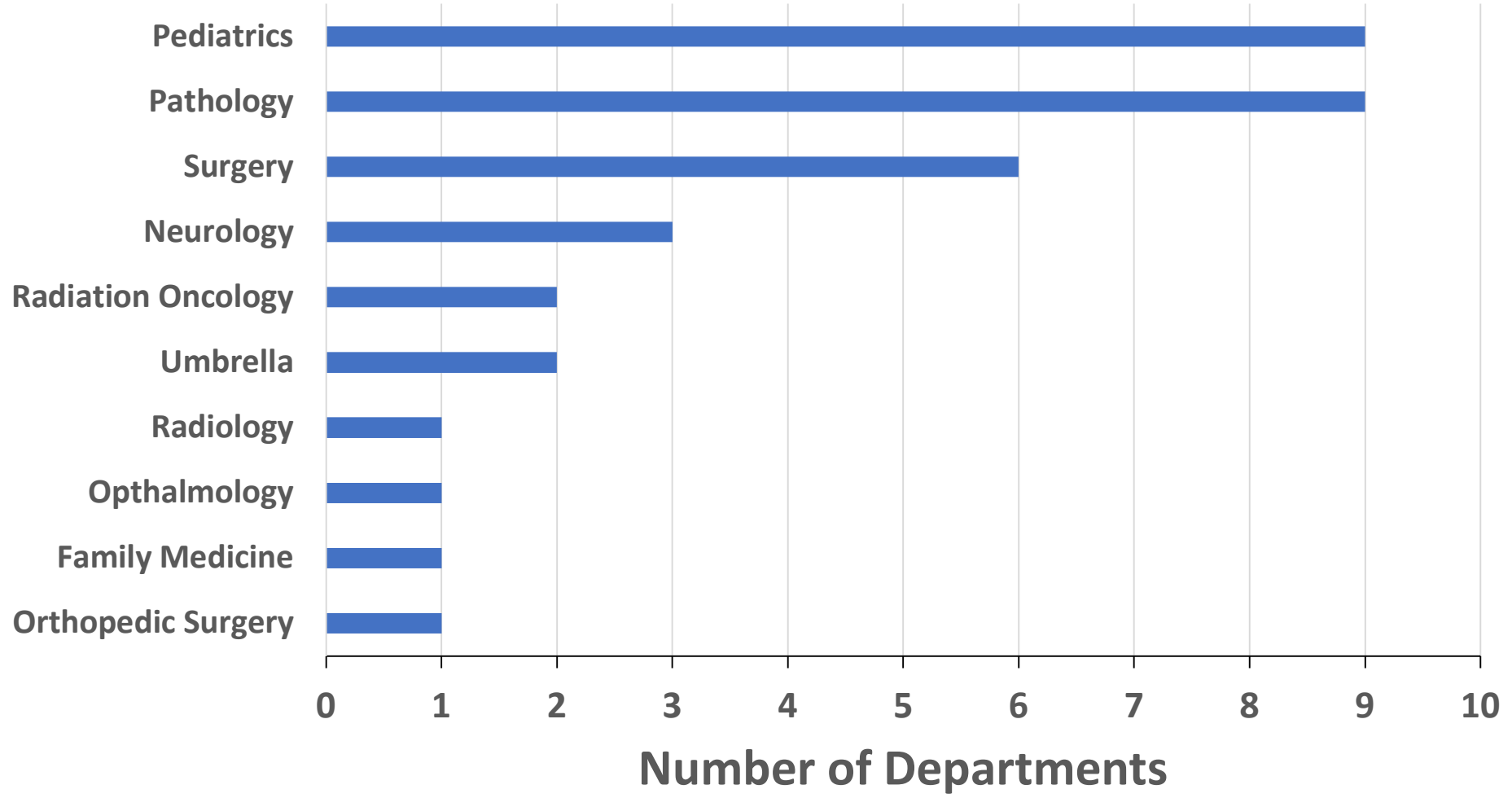
Source: The National MD/PhD Outcomes Study (2018)

Are there other clinical departments with specific training programs supporting physician- scientists at your institution?



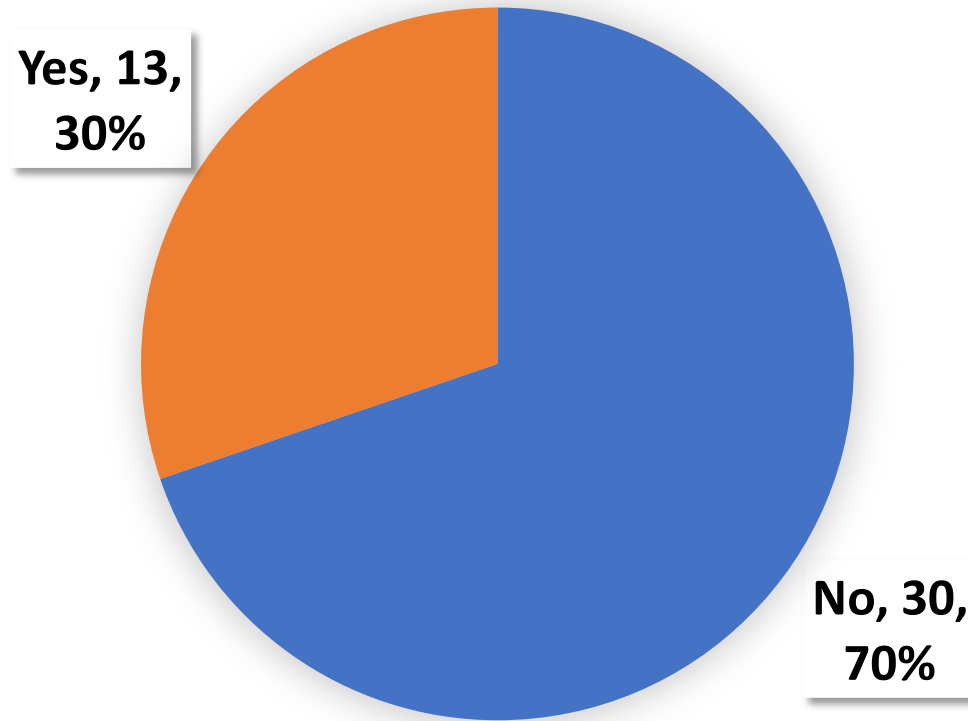
Which other departments?

N = 19 respondents



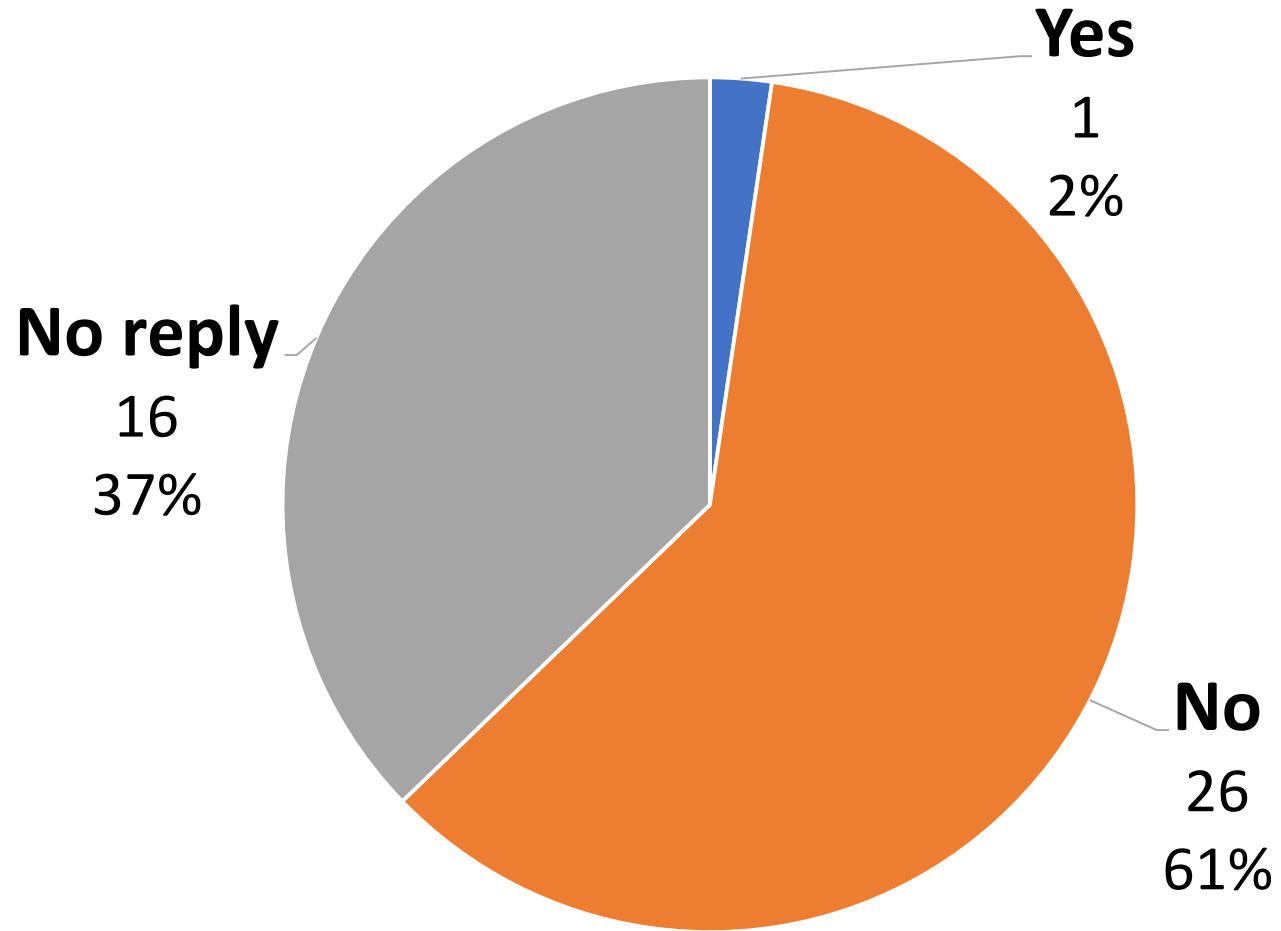
Do you have formal meetings with other faculty who train physician-scientists?

Q19



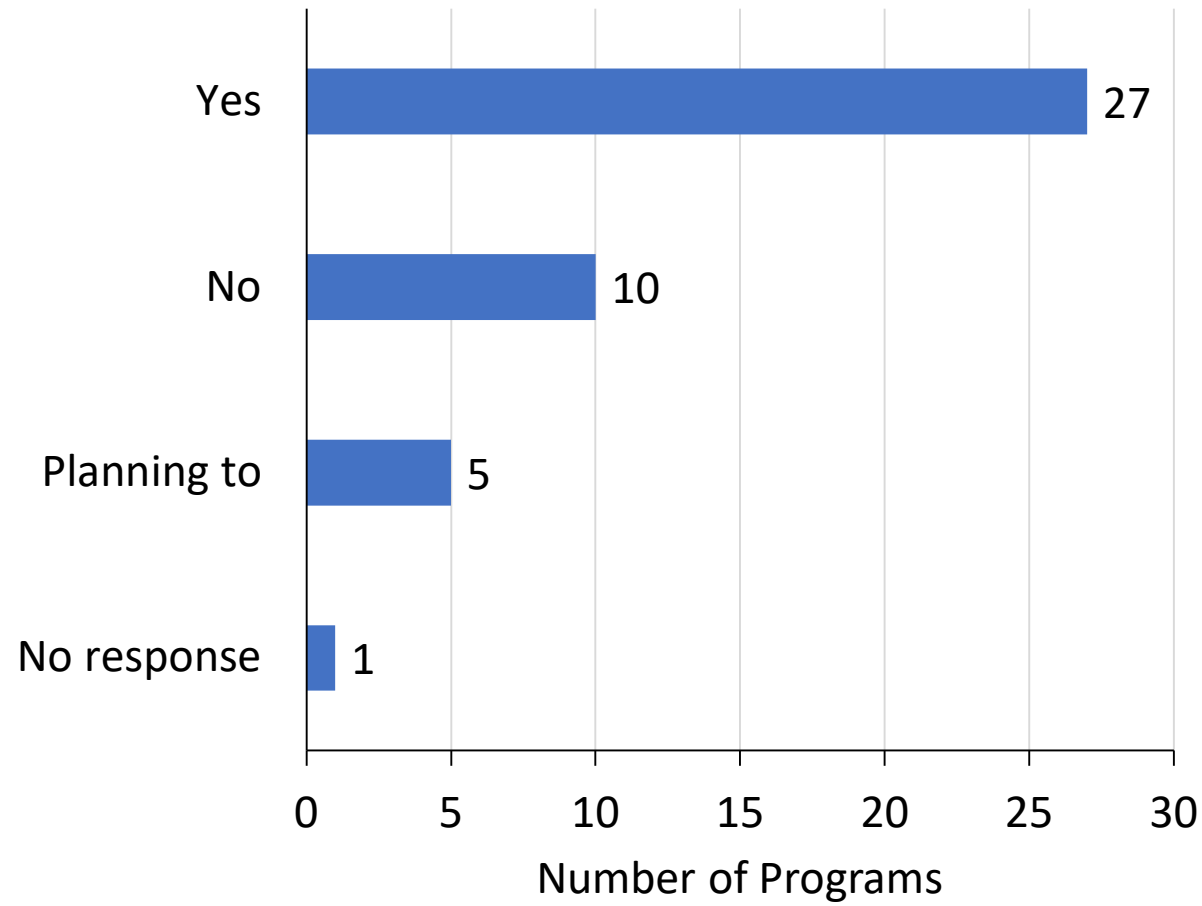
Are research mentors incentivized in any way, such as financially or by other means?

n = 43 internal medicine program



Does your institution offer mentor education programs?

n = 43 internal medicine program

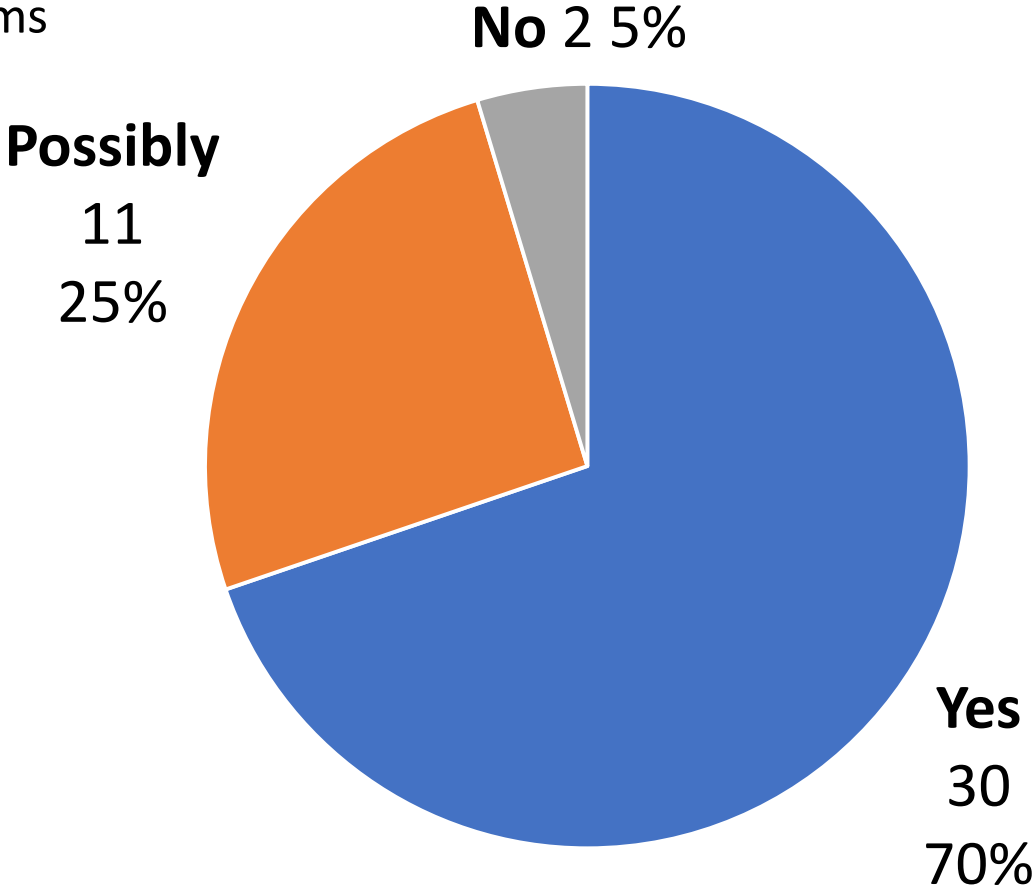


Does your institution offer mentor education programs?

- **Through CTSA programming “Mentoring Academy” (N=8)**
- **IM Departmental Mentoring Programs (N=3)**
- **Leadership education programs**
- **Mentoring workshops (U Wisconsin CIMER)**
- **Center for Faculty Advancement, Mentoring, and Engagement (FAME)**
- **Office of Mentoring**
- **Teachers of Tomorrow Junior Faculty Development Program**

Are you interested in joining a nationwide effort to facilitate interactions between predoctoral (MSTP, MD/PhD) and postdoctoral (RiR, PSTP, and other) directors

N = 43 internal medicine programs



Conclusions

- Most internal medicine departments that answered the survey have post-graduate training programs that support physician-scientist careers.
However, there is as yet no consensus definition of PSTP and RiR.
 - Most span residency and fellowship.
 - Research time in residency varies from 2 month to 2 years.
- Most trainees are graduates of MD/PhD programs.
- At least half of the institutions that support PSTP/RiR in IM also support it in other fields.
- Support for the research mentor hardly ever happens.
- 75% of programs provide some form of mentor training.

Goals

- An annual census of residencies committed to training physician-scientists.
 - Expanding beyond internal medicine.
- Development of a widely-accessible central listing of training programs for the assistance of applicants that will summarize key features.
- Tracking outcomes. Developing best practices. Building a national consensus on goals appropriate for different clinical specialties.

The End