Henry Ford HEALTH SYSTEM	
	nding landscape for Women in APM: Trends and Outlook
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all for you	CANCER INSTITUTE

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all for you

Learning objectives
To share my own journey toward grant funding
 To review three decades of federal funding for female AAPM members and highlight overall trends
 To learn about the barriers and opportunities in increasing research funding support for female medical physicists
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1	st (2013) and 2 nd (2015) NIH Ro1 grant I submitted: Both "Not Discussed"
	Several key areas were missing: • My publication record was not in the area that I was proposing • I was seen as too junior for the proposed work
	The Discount to have an authorities accord on MDI
	The PI seems to have no publication record on MRI.
ŀ	While the list of collaborators is long (see above) and is a strength of the proposal, it seems that many of the co-investigators were listed for symbolic reasons to boost the PIs reputation for this
	While the list of collaborators is long (see above) and is a strength of the proposal, it seems that



After eating a gallon of chocolate ice cream in one sitting, I got to work...

I took 1.5 years off from grant writing to:

- Study grant writing, attend seminars (RSNA), watch webinars
- Build outside collaborations with others who would later become coinvestigators
- Hire a talented Research Scientist (Weili Zheng, PhD) who was instrumental in my productivity and data analysis
- Produce manuscripts to prove my expertise: Published three 1st author, three co-author, & three senior author during this timeframe
- Submitted June 5, 2015 and <u>importantly</u>, continued working toward the specific aims

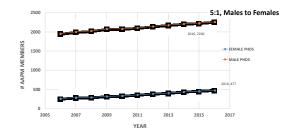
Principal Investigator	
GLIDE-HURST, CARRI KAYE PHD	
Applicant Organization: HENRY FOR	ID HEALTH SYSTEM
	57) ntific Review Special Emphasis Panel ademic Industrial Partnership
Meeting Date: 10/15/2015	RFA/PA: PAR15-075
Council: JAN 2016	PCC: 5PDI
Requested Start: 04/01/2016	Dual IC(s): EB
Project Title: Development of	f Anatomical Patient Models to Facilitate MR-only Treatment
Human Subjects: 30-Human subje Animal Subjects: 10-No live verte Gender: 1A-Both gender Minority: 1A-Minorities ar Children: 3A-No children	44 Percentile: 37 # s.mm.gov/prams/seps.kim s.mm.gov/prams/seps.kim s.mm.gov/prams/seps.kim s.mm.gov/prams/seps.kim s.mm.gov/prams/seps.kim s.scientifically acceptable included, scientifically acceptable included, scientifically acceptable h-ne httl-defined-Phase ill Trial

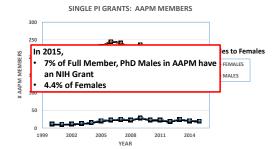


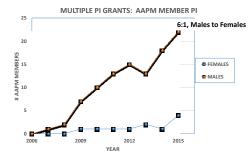


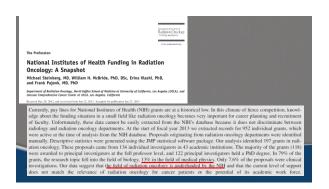
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Full Members w/PhD Degrees









National NIH Statistics
■ ~90,000 NIH applications per year
 ~30% of submitted NIH applications are from females, 30% of awarded to females
■ 30% of all CSR reviewers are females
■ 38% of only chartered study section members are females
■ Success rates for men and women track similarly
all for you Henry Ford Cancer Institute
Data courtesy of Maryellen Giger, PhD

What about within the AAPM?

- 2017 Research Seed Funding Grant: \$25,000, 1-year grants
- "To provide funds to develop exciting investigator-initiated concepts, which will hopefully lead to successful longer term project funding from the NIH or equivalent funding sources."
- •Junior investigators <5 years from PhD Degree
- Since 2005, AAPM has awarded \$550,000 to 22 Junior Investigators through this mechanism
- Only 3 of the 22 have been to female members
- Caveat: need to mine data to determine the number of women who have applied

Career advice from one of the highest funded women in the AAPM: Maryellen Giger, PhD

- Start early: Apply for predoctoral grants, student grants, etc. to get grant writing practice
- 2. Use rejections/critiques to improve your work
- Bring your children into your career. Her 4 children grew up attending AAPM meetings and it helped them gain an appreciation for her career.
- 4. Find mentors at each stage of your career





What can we do as Medical Physicists?

- Learn the art (and science) of grant writing
- AAPM: Commit resources to train grant writing skills
- Share our grant writing experiences and knowledge to help others
- Find a mentor, be a mentor









rin Chetty, PhD Stephen Brown, PhD Geoffrey Hugo, PhD Amit Sawant,

