

BACKGROUND

Schools of Nursing foster scholarship and enhance research productivity through the support and infrastructure of dedicated Research Offices

Because required resources, including administrator time, are limited and costly, it is vital to examine the return on investment

OBJECTIVES

Highlight a nursing school's efforts to:

- Quantify the impact of its services
- Reflect a culture of scholarly inquiry
- Broadly disseminate outcomes

SERVICES and IMPACT

Intramural Pilot Grants and Internal Review of Grant Proposals, 2012-2016¹

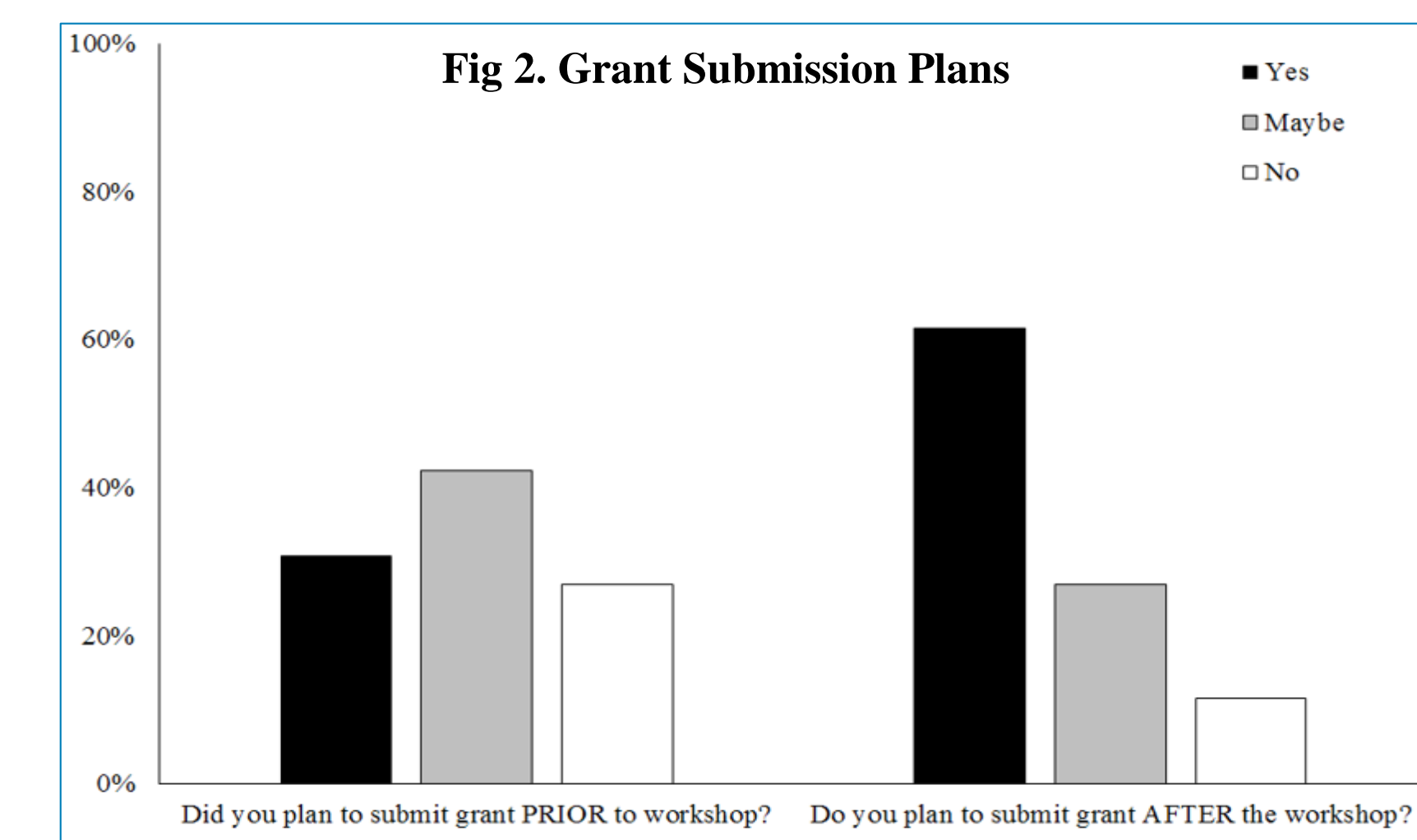
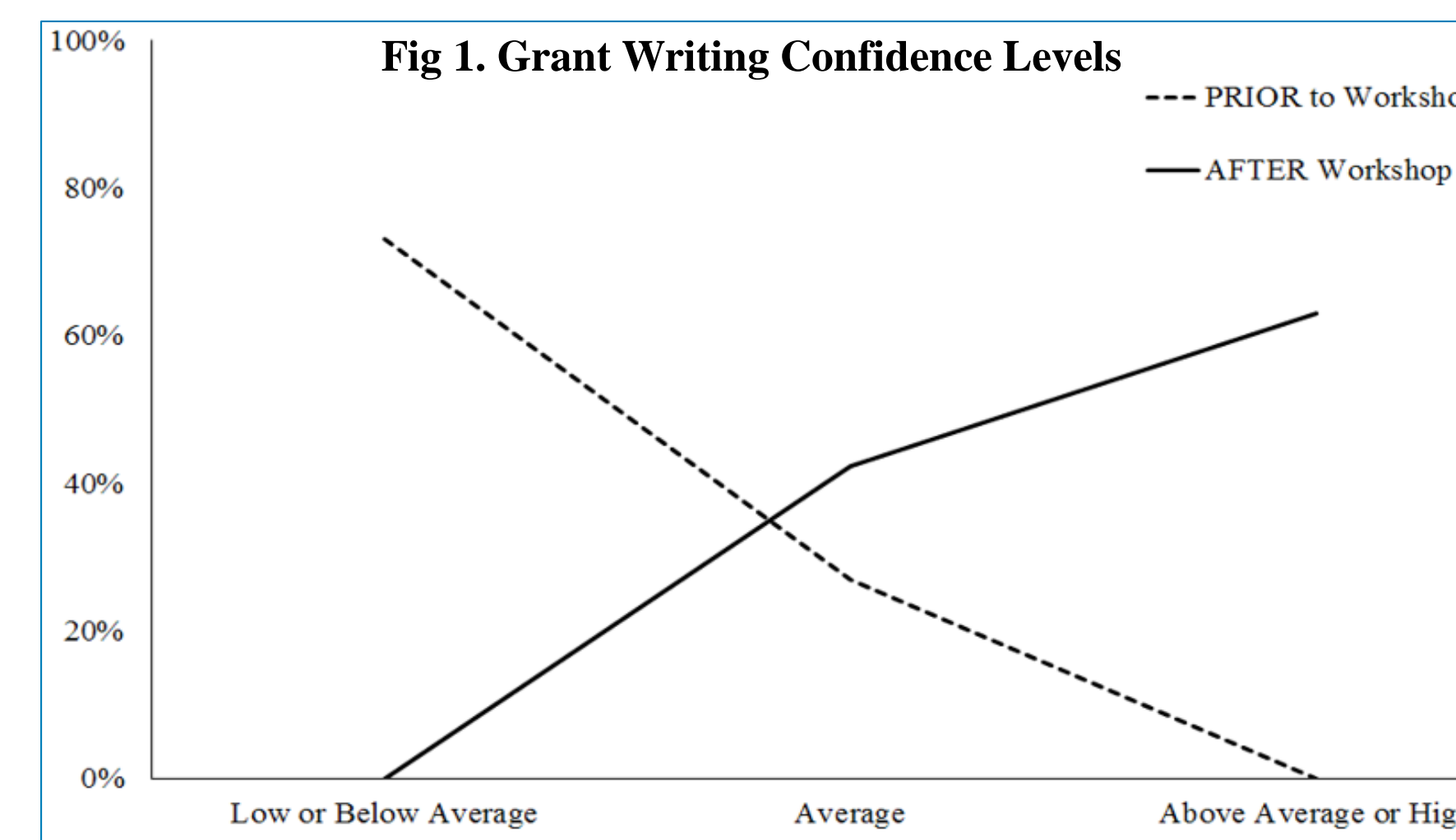
- 14 intramural pilot grants resulted in 16 peer-reviewed articles, 33 presentations, and 11 externally-funded grants
- Of 88 external grant submissions, for those that underwent internal review, 41.7% (20/48) received funding compared with 20% (8/40) that did not participate, $p=0.03$

PhD Program Federal Grant Writing Workshop, 2014-2018²

- 17/29 (58.6%) students submitted 21 applications; 5 (23.8%) were funded
- Writing and submitting grant did not increase time to program completion
- ↑ Grant writing confidence levels (Fig 1.)
- ↑ Plans to write and submit grant (Fig 2.)

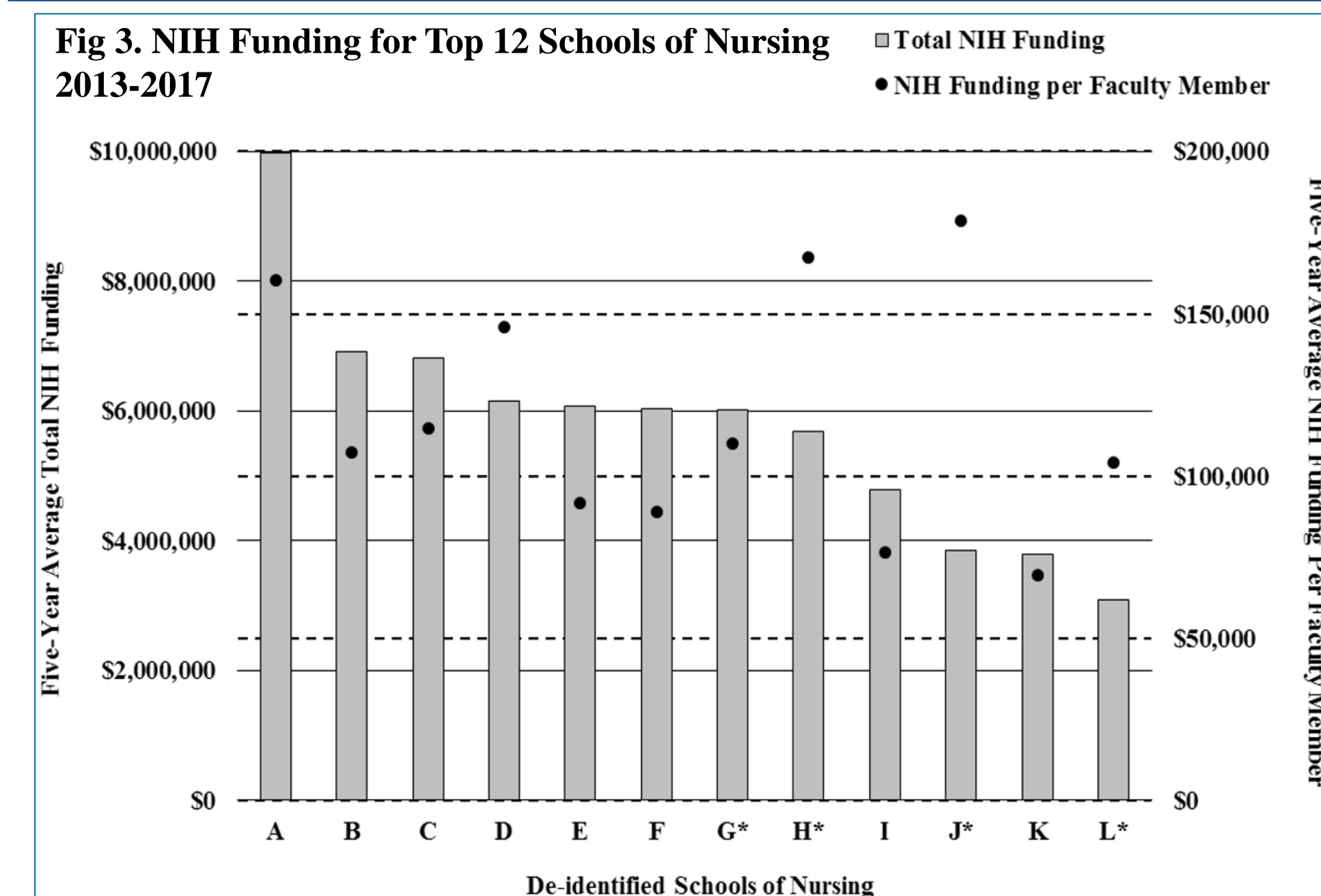
Faculty-Based, Peer Review Manuscript Writing Workshop³

- All participants found workshop useful and would recommend to peers
- Greatest benefit was accountability to complete and submit manuscript
- All but 1 of 17 manuscripts are published, accepted, or under review



SCHOLARLY INQUIRY and FINDINGS

What are alternative methods for assessing research productivity?⁴

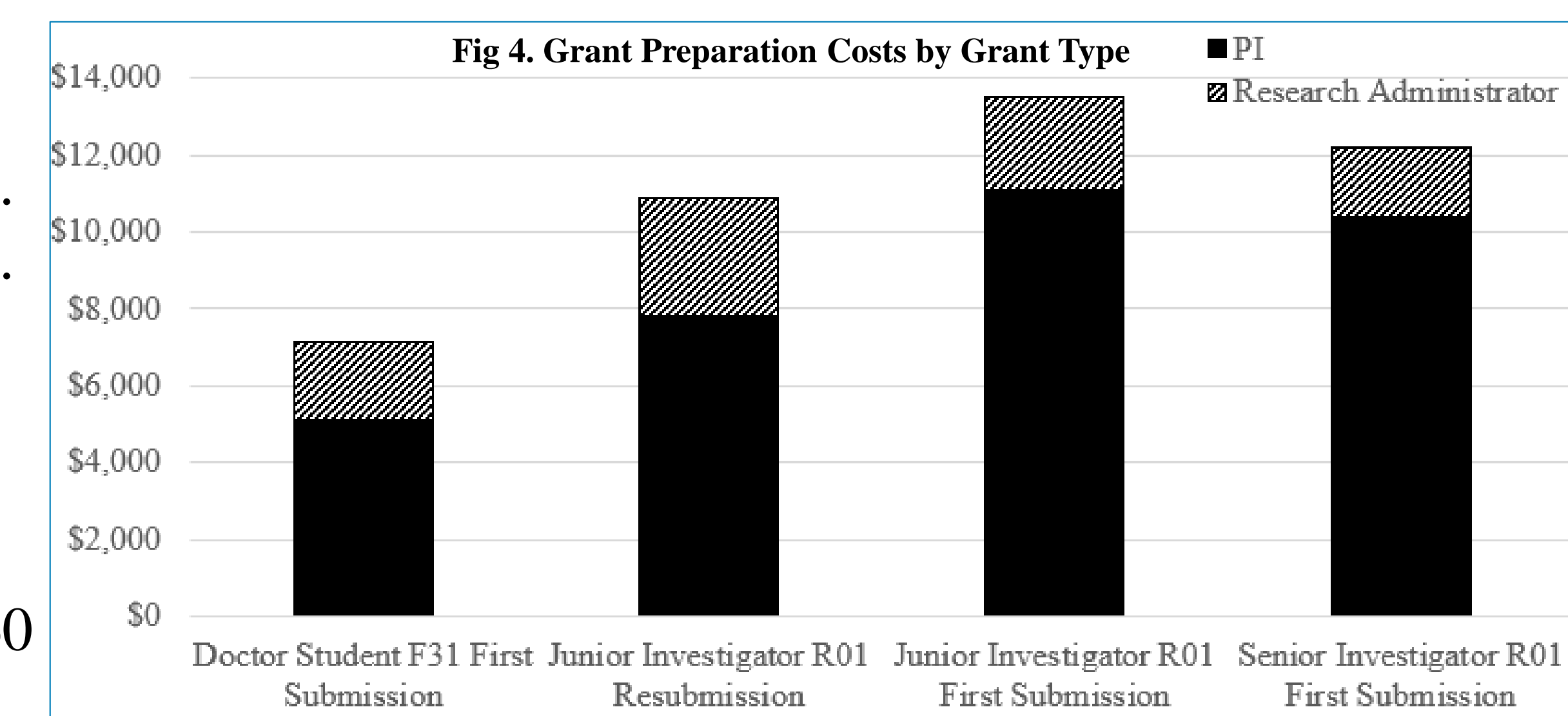


* = Ranked lower in average total funding but higher in average funding per faculty member

- Ordinal NIH rankings of nursing schools by total funding secured does not take into account faculty size differences
- In examining research productivity 'per capita' for 5 years, 4 of 12 (33%) schools that ranked lower in total funding ranked higher in average funding per faculty member (Fig 3.)

What does it cost to prepare and submit a federal grant application?⁵

- We recorded time spent by Principal Investigators (PIs) and Research Administrators (RAs) to prepare 4 NIH grants and calculated costs (Fig 4.)
- Total time spent on 1 grant:
PIs = 70-162 hrs.
RAs = 34-56 hrs.
- With funding rates of 5% to 15%, costs for one funded R01 would be \$72,460 to \$270,240



RECOMMENDATIONS

Research Offices in Schools of Nursing should evaluate the outcomes of their services to:

- Establish effectiveness
- Assess value added
- Inform decisions on services offered and staffing levels required

Dissemination of service outcomes and inquiry findings is essential for improving the overall quality of nursing scholarship and research

PUBLICATIONS

1. Intramural Pilot Funding and Internal Grant Reviews Increase Research Capacity at a School of Nursing. Nurs Outlook, 2018;66(1).
2. Supporting Dissertation Work through a Nursing PhD Program Federal Grant Writing Workshop. J Prof Nurs, In Press.
3. Implementation and Outcomes of a Faculty-Based, Peer Review Manuscript Writing Workshop. J Prof Nurs, 2016;32(4).
4. NIH Funding Ranked "Per Capita": An Alternative Method for Assessing Research Productivity. West J Nurs Res, In Press.
5. Time and Costs of Preparing and Submitting an NIH Grant Application at a School of Nursing. Nurs Outlook, 2015;63(6).