

University of Nebraska Medical Center

DigitalCommons@UNMC

Posters and Presentations: Physical Therapy

Physical Therapy

2019

Valuation of Scholarly Activities for Physical Therapy Faculty

Tony Rost University of Nebraska Medical Center

Mitchell Thompson University of Nebraska Medical Center

Harlan Sayles University of Nebraska Medical Center, hsayles@unmc.edu

Gilbert M. Willett Creighton University

Betsy J. Becker University of Nebraska Medical Center, betsyj.becker@unmc.edu

Tell us how you used this information in this short survey. Follow this and additional works at: https://digitalcommons.unmc.edu/cahp_pt_pres



Part of the Physical Therapy Commons

Recommended Citation

Rost, Tony; Thompson, Mitchell; Sayles, Harlan; Willett, Gilbert M.; and Becker, Betsy J., "Valuation of Scholarly Activities for Physical Therapy Faculty" (2019). Posters and Presentations: Physical Therapy. 37.

https://digitalcommons.unmc.edu/cahp_pt_pres/37

This Poster is brought to you for free and open access by the Physical Therapy at DigitalCommons@UNMC. It has been accepted for inclusion in Posters and Presentations: Physical Therapy by an authorized administrator of DigitalCommons@UNMC. For more information, please contact digitalcommons@unmc.edu.



Valuation of Scholarly Activities for Physical Therapy Faculty

Tony Rost, SPT,¹ Mitchell Thompson, SPT,¹ Harlan Sayles, MS,² Gilbert Willett, PT, PhD,³ Betsy J. Becker, PT, DPT, PhD¹

- 1. Division of Physical Therapy Education, College of Allied Health Professions, University of Nebraska Medical Center (UNMC);
- 2. Department of Biostatistics, College of Public Health, UNMC; 3. Department of Dentistry, Creighton University

Introduction

- Physical therapy faculty are required to participate in scholarly endeavors.
 Scholarly productivity is frequently evaluated based on quantity of production.^{1,3,6}
- This approach fails to account for quality such as authorship order, presentation audience or funding agency.⁵

Aims of this study:

- 1. Compare physical therapy education program scholarly productivity valuations between programs of varying Carnegie Classifications
- 2. Establish a scholarly activity measure which accounts for quality
- 3. Provide an applied example of the new measure

Methods

- Online surveys were sent to 226 Physical Therapy Education Program Directors at CAPTE accredited institutions utilizing Dillman's Survey Protocol.²
- Institution Basic Carnegie Classifications⁴ were determined.
- Respondents were asked to value 30 scholarly activities (e.g. grants, publications, presenations and patents) on a 0-20 scale (Figure 1). Nine additional questions asked about bonus value (0-100%) for impact factor, authorship order, role on a grant, and grant competetiveness (Figure 2)
- The mean for each scholarly component was the value that component contributed to the Scholar Score.
- Comparisons were performed via ANOVA models

Figure 1. Example question

This question asks you to place a value on EXTERNAL grant funding. Please assign a value between 0 and 20 for each of the five options. For this question, consider grants to be competitive in nature and include the total grant amount (direct + indirect). Later in the survey you'll be asked about non-competitive grant funding. These values should reflect the importance of each type of grant activity for physical therapy faculty.

As a reminder, a peer reviewed journal article (value of 10) is the

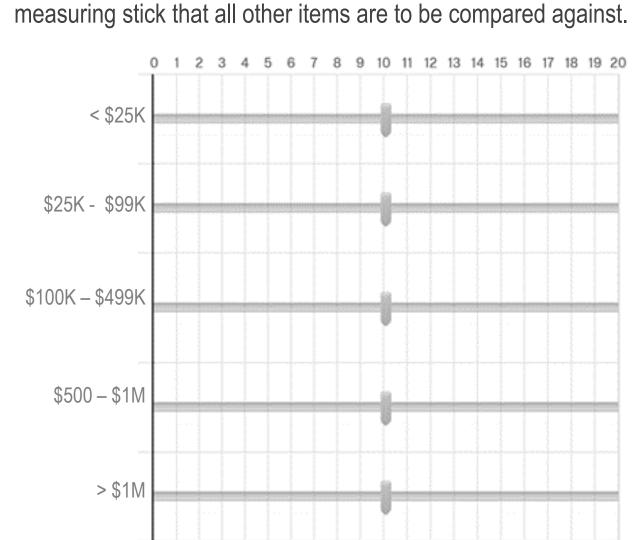
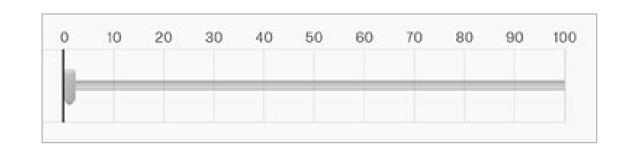


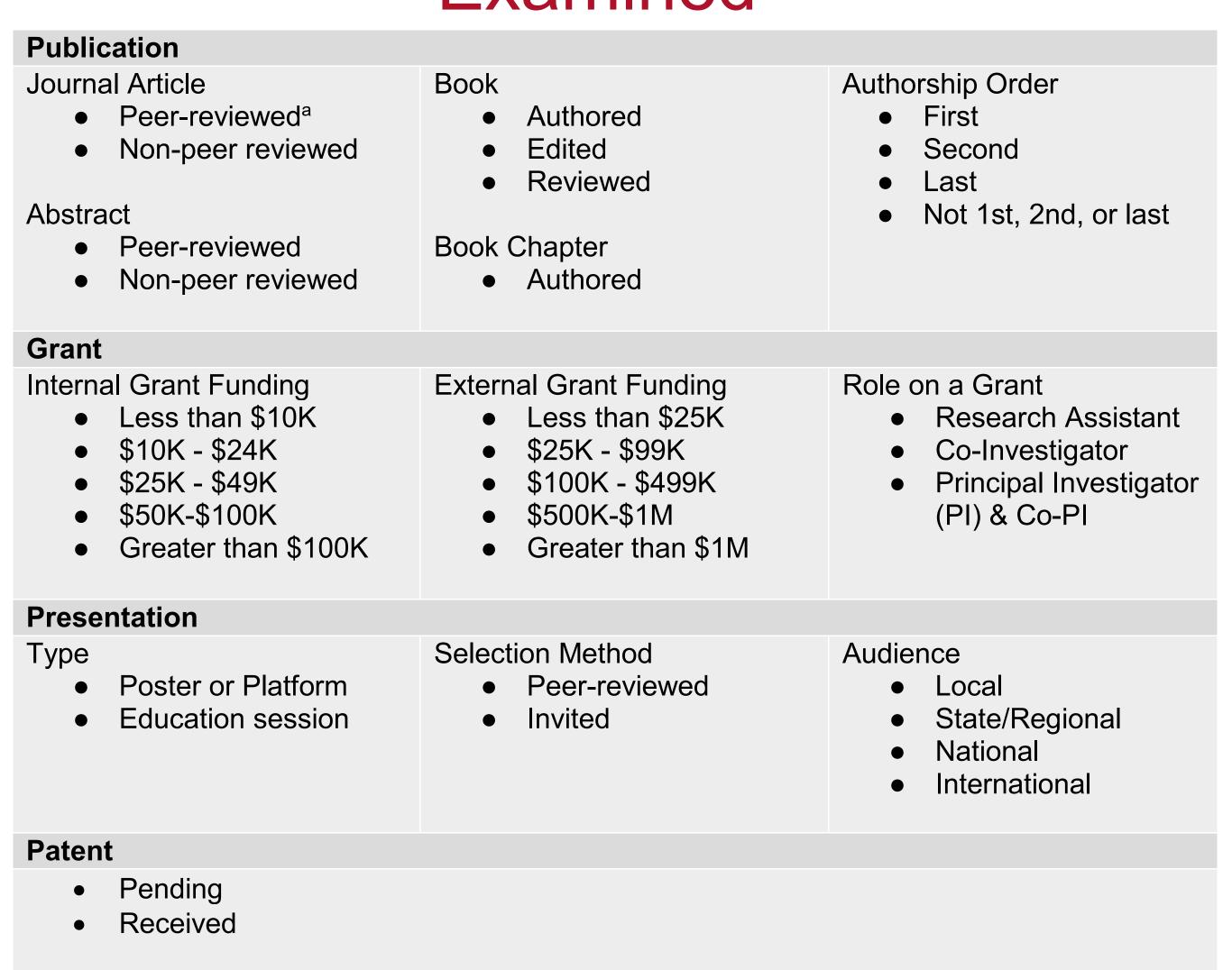
Figure 2. Example question showing a bonus value.

This question asks you to place a value on the IMPACT FACTOR of journals. Move the slider to a percentage value between 0% - 100% that reflects the added bonus you assign to the impact factor of the journal in which a physical therapy faculty member is published.

Choosing 0% would indicate the Impact Factor of a journal is unimportant and carriers no weight while a score of 100% indicates that impact factor carries significant weight and has great value.



Components of Scholarly Activity Examined



Results

• Potential respondent pool = 222 because 4 of 226 e-mails were undeliverable

^a Publication type that all other items were compared against.

- Response Rate = 27% (59/222)
- Academic rank of respondents: Professors (n=28), Associate Professors (n=28) and Assistant Professors (n=3)
- Carnegie Classifications⁴ of respondents' institutions are shown in Figure 3
- Significant effects of Classification were observed for two bonus items. Post hoc comparisons using the Bonferroni correction are shown in Figure 4

Figure 3. Basic Carnegie Classifications⁴ of respondent's institutions

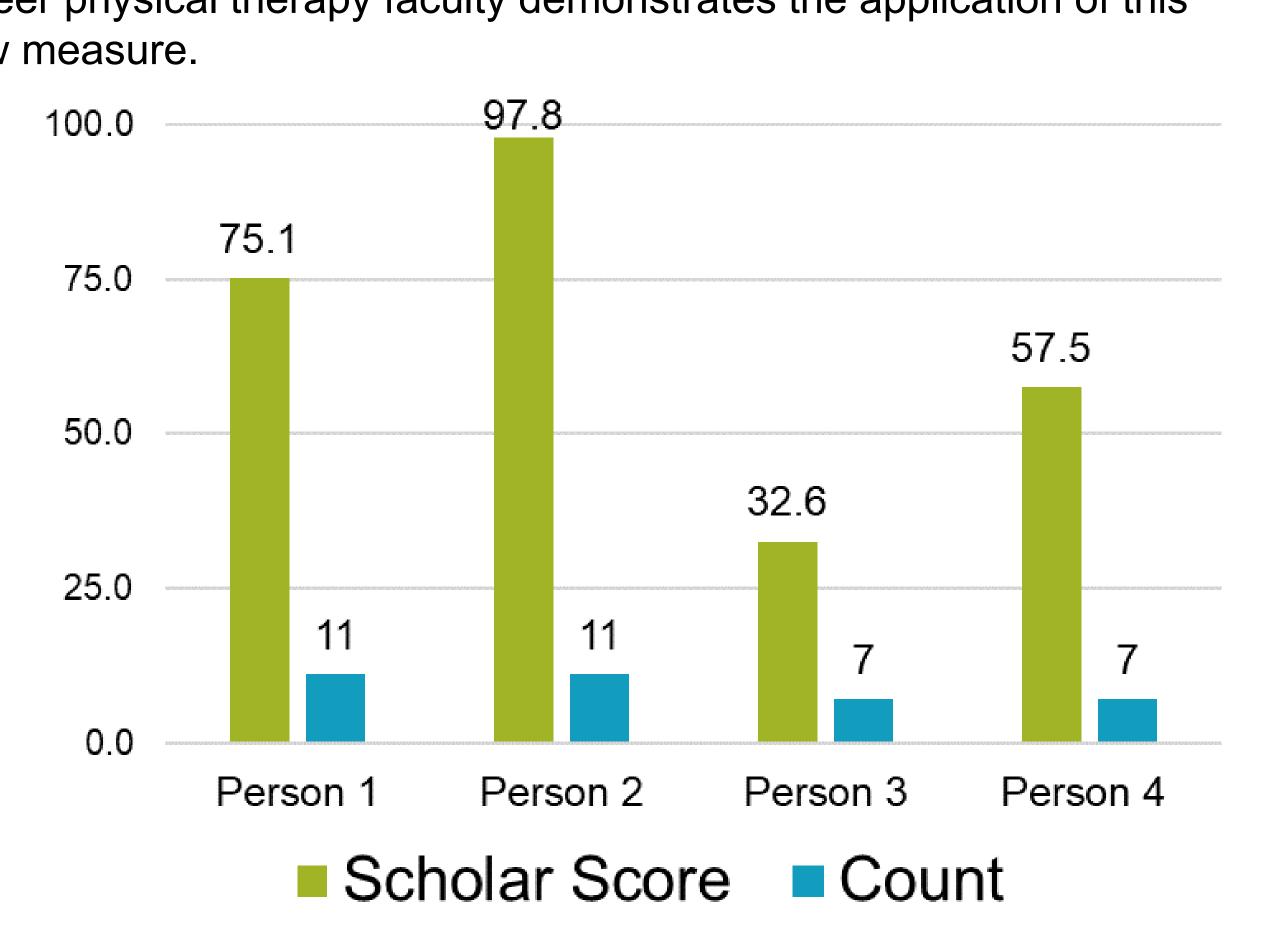
Carnegie Classification ⁴	Surveys Sent	Surveys Received	Response Rate (%)	
Doctoral	93	26	44%	
Special Focus	36	11	19%	
Masters	93	22	37%	
Baccalaureate	4	0	0%	
Total	222	59	27%	

Figure 4. Differences of scholarly activity components

Scholarly Activity Component	Carnegie Classification ⁴	Mean % Bonus	SD	p-value
Authorship Order: Last	Doctoral Masters	53.5 25.9	±34.4 ±28.7	0.015
Grant Role: PI/Co-PI	Doctoral Masters	77.3 49.0	±36.7 ±32.5	0.030

Applied Example of the Scholar Score

Responses were used to develop a Scholar Score based on perceived quality. Scholarly achievements from curriculum vitae of four early-career physical therapy faculty demonstrates the application of this new measure.



Conclusions

- The Scholar Score was developed from Physical Therapy Program Director input. Directors from different Carnegie Classified institutions reported similar values for most components.
- This indicates the Scholar Score may be generalizable to PT faculty across all Carnegie Classifications. Our application example demonstrates how quantity and quality-based descriptions differ.

A Scholar Score offers a clear and uniform, peer-validated approach to the valuation of scholarly activities for PT educators.

References

- Snyder-Mackler. 46th Mary McMillan lecture: Not eureka. *Phys Ther*. 2015;95(10):1446.
 Dillman DA. *Mail and internet surveys: The tailored design method*. Hoboken, NJ: John Wiley & Sons; 2000.
- 3. Tscharntke T. Author sequence and credit for contributions in multiauthored publications. *PLoS biology*. 01;5(1):e18.
- 4. The Carnegie Classification of Institutions of Higher Education. Basic classification methodology. http://carnegieclassifications.iu.edu/methodology/basic.php. Updated 2017. Accessed 03/29/18.
- 5. Emerick T, Metro D, Patel R, Sakai T. Scholarly activity points: a new tool to evaluate resident scholarly productivity. British Journal of Anaesthesia. 2013;111(3):468-476.
 6. Hinman MR, Brown T. Changing profile of the physical therapy professoriate—Are we meeting
- 6. Hinman MR, Brown T. Changing profile of the physical therapy professoriate—Are we meeting CAPTE's expectations? *J Phys Ther Educ*. 2017;31(4):95-104.

Funding

University of Nebraska Medical Center College of Allied Health Professions Student Research and Education Innovation Grant

