Evolving Education at the Arthroscopy Association of North America Annual Meetings

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AUTHORSHIP DISCLOSURES

Nicholas A. Sgaglione reports a relationship with Arthroscopy Association of North America (AANA) that includes board membership. N.A.S. served as 2012-2013 AANA president and served on the AANA Board of Directors beginning in 2008. N.A.S. serves on the AANA Education Foundation and is the current foundation chair. N.A.S. has served on the *Arthroscopy* Board of Trustees and is the board's current chairperson.

All other authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

OBJECTIVES

- Assess the Future Publication Rate of Abstracts Presented at AANA Annual Meetings

- Determine Abstract Factors Predictive of Future Publication

- Assess the Quality and Impact of Corresponding Future Manuscripts

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MATERIALS AND METHODS

- 2015-2019 AANA Conference Programs were Publicly Accessed Through the *Arthroscopy* website

- Abstract Titles, Author Names, and Keyword(s) were Recorded

- Abstracts were Categorized by Anatomical Location (i.e. Knee, Shoulder, Hip, Foot and/or Ankle, Other)

- Abstracts were Categorized by Level of Evidence (Elsevier Rating System: I-IV)

MATERIALS AND METHODS

- To Identify Associated Full-Text Manuscripts, PubMed and Google Scholar Databases were Queried Using Abstract Title and First Author Name

- If No Manuscript was Identified, A Second Query Was Performed Using the First Author Name and Keywords

- If No Manuscript was Identified, The Names of the Remaining Authors were Searched with the Same Keywords

- Identified Manuscripts that Underwent a Title Change But Retained the Same Focus as the Initial Abstract were Considered Published

MATERIALS AND METHODS

For Identified Manuscripts the Following Variables Were Recorded

- Author(s) Names
- Date of Publication
- Publishing Journal
- Publishing Journal Impact Factor
- Number of Citations

- The 2021 Two-Year Impact Factor from the Journals' Website Were Utilized

- The Time to Publication Was Defined as the Number of Months Between Abstract Presentation and Manuscript Publication
  - Abstracts Published Before Presentation Were Represented as Negative Integers

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MATERIALS AND METHODS

- Statistical Analysis was Performed Using Microsoft Excel and SPSS

- Two Proportion Z Tests and Pearson Chi-Square Tests were Conducted for Bivariate Comparisons

- Statistical Significance was Defined as P-Value Less Than 0.05

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RESULTS

- Overall, 70.5% of All Presented Abstracts went on to Publication (275/390)
- Within 3 Years of Presentation, 63.6% of Presented Abstracts were Published (248/390)
- The Mean Time to Publication was 12.8 months (Range: -7 to 79 Months)

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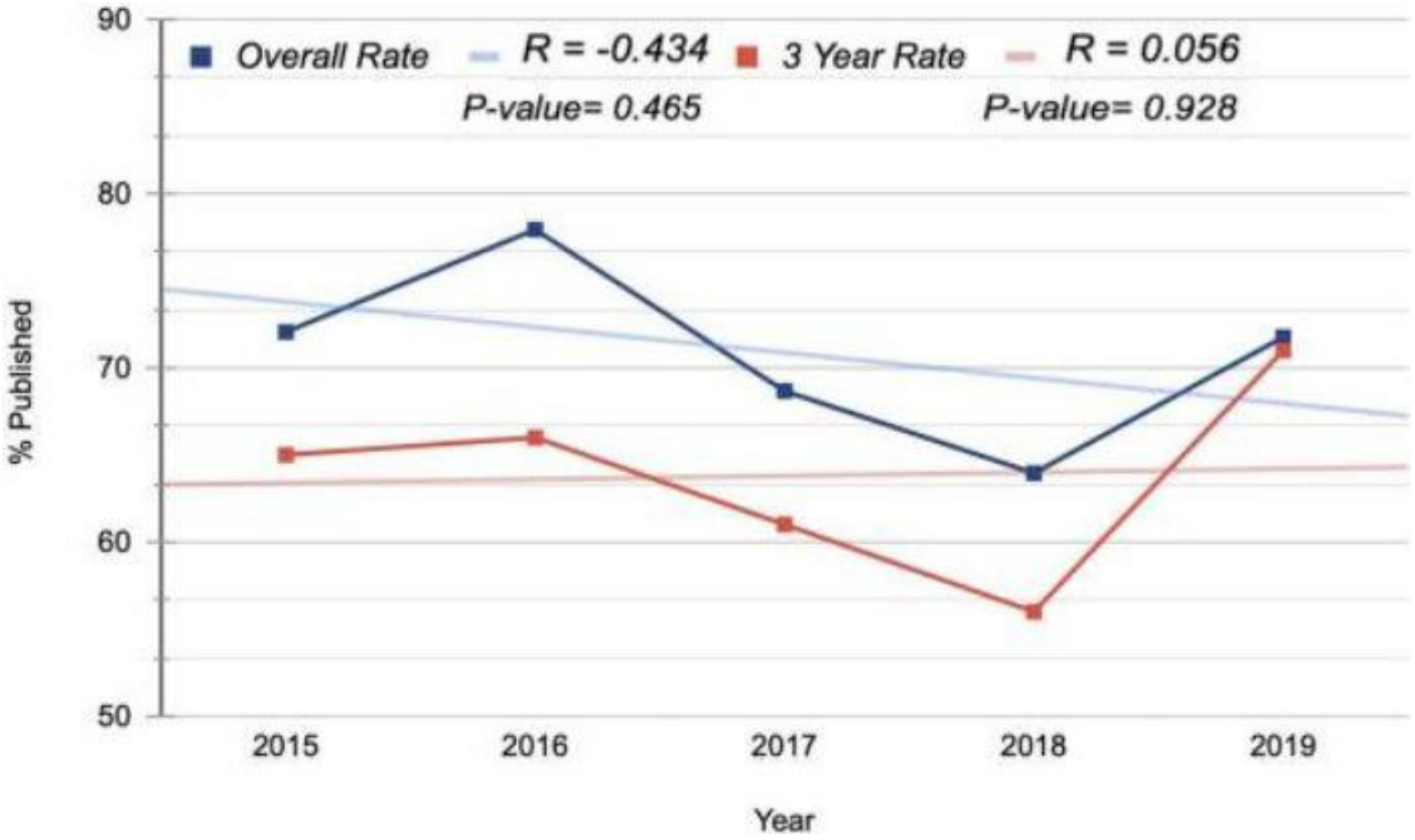
Annual Future Publication Rates of Presented Abstracts



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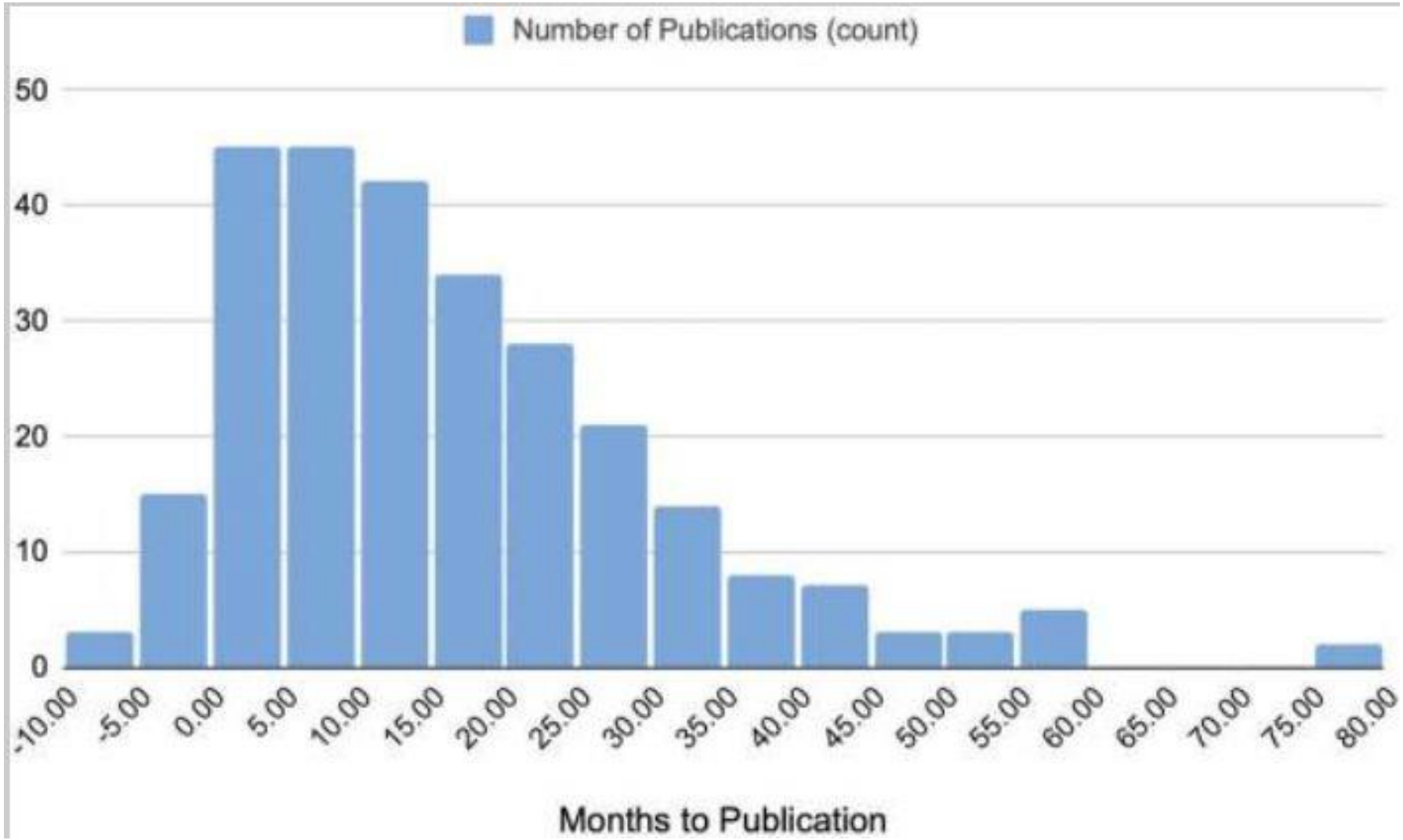
Distribution of Time to Publication from Presentation



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RESULTS

- 41.1% of Published Manuscripts had a Change in the Number of Authors from Abstract Presentation

- The Number of Authors on Published Manuscripts was More Likely to Be Increased from Presentation
    - 86.7% versus 13.3%, P<0.001

- Stronger Level of Evidence was Associated with an Increased Likelihood of Publication (P=0.008)

- Anatomic Location (P=0.649) and Number of Authors (P=0.135) were Not Associated with Increased Likelihood of Publication

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RESULTS

- Corresponding Manuscripts were Published in 39 Unique Journals

- *Arthroscopy* was the Most Common Journal of Publication (29.8%, 82/275)
    - *The American Journal of Sports Medicine* (21.1%)
    - *Orthopaedic Journal of Sports Medicine* (9.5%)

- Mean Impact Factor of Publishing Journals: 4.96 +/- 3.41

- 61.8% of Manuscripts Published in Journals with Impact Factor of at Least 4.00

- Published Manuscripts Received an Average of 36.30 +/- 47.6 Citations per Manuscript (Range: 0-383)

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Most Common Journals Publishing Studies Presented at 2015-2019 AANA Annual Meetings

Journal	Impact Factor	n	% of Total
Arthroscopy	5.973	82	29.82
The American Journal of Sports Medicine	7.01	58	21.10
Orthopaedic Journal of Sports Medicine	3.401	26	9.45
Knee Surgery, Sports Traumatology, Arthroscopy	4.114	17	6.18
Journal of Shoulder and Elbow Surgery	3.507	14	5.09
The Journal of Bone & Joint Surgery	5.284	11	4.00
Arthroscopy, Sports Medicine, and Rehabilitation	1.64	8	2.91
Journal of Knee Surgery	2.501	7	2.55
Journal of Pediatric Orthopaedics	2.537	4	1.45
The American Journal of Orthopaedics	1.159	4	1.45

CONCLUSION

- Pre-Publication Literature Presented at the AANA Annual Meetings Has Continued to be Associated with Stronger Likelihood of Future Publication

- Future Manuscripts of Pre-Publication Literature were Most Likely to be Published in Arthroscopy

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SIGNIFICANCE OF FINDINGS

- Attendees of the AANA Annual Meetings can be Assured that They Are Being Exposed to Relevant Literature

- AANA Annual Meetings Remain an Attractive Venue for the Presentation of Pre-Publication Literature

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