BRIEF REPORT

Reporting of academic degrees in high-impact medical journals
[version 1; peer review: 1 approved with reservations, 1 not approved]

Nikola Stankovic¹, Jerry P. Nolan², Lars W. Andersen¹

¹Research Center for Emergency Medicine, Department of Clinical Medicine, Aarhus University and Aarhus University Hospital, Aarhus, Denmark
²Royal United Hospital, Bath, UK

Abstract

Academic degrees following author names are often included in medical research papers. However, it remains unclear how many journals choose to include academic degrees and whether this is more common in certain types of journals. We examined the 100 highest impact medical journals and found that only 24 medical journals reported academic degrees. Moreover, this was substantially more common in journals based in North America compared with Europe. Further research is required to explore the implications of listing academic degrees on the readers' attitude towards research quality.

Keywords

Academic, degree, impact factor, journals, publication, high-impact

This article is included in the Science Policy Research gateway.
Introduction
During submission of research papers to medical journals, authors are often asked to include academic degrees, affiliations, and/or job titles. However, journals differ in how they present this information to readers. While some journals include academic degrees following author names, others choose not to list this information on the title page. It is unclear how many journals choose to include academic degrees and whether this is more common in certain types of journals. Among the most influential medical journals, we examined journal factors associated with the inclusion of academic degrees on the title page.

Methods
We identified the hundred highest impact medical journals based on impact factor reported in the Journal Citation Reports published in 2018. Characteristics of each journal in regard to specialty, impact factor, primary journal focus, continent, and open access policy were obtained. Data were collected on the presence of academic degrees following author names in the title page by assessment of multiple original research articles from each journal. Approximately ten articles published in July 2018 and August 2019 were assessed for each journal. If there was any discrepancy between the print and the online version, the print version was used. There were no discrepancies within journals for the two time periods.

Descriptive statistics were used to characterize the journals. Categorical data were compared with the Fisher’s Exact Test and continuous data were compared with the Wilcoxon Rank-Sum Test. The association between journal characteristics and the reporting of academic degrees were estimated using multivariable logistic regression.

Statistical analyses were performed in SAS (version 9.4). A two-tailed p < 0.05 was considered significant.

Results
Of the 100 highest impact medical journals, 24 journals reported academic degrees on the title page (Table 1). We found that 49% of journals were published in Europe and 51% were published in North America. Only 8% of European journals reported academic degrees while 39% of North American journals reported academic degrees. The median impact factor of journals reporting and not reporting academic degrees was 12 (IQR 11-20) and 15 (IQR 10 – 19), respectfully.

Multivariable analysis showed that North America and a clinical journal focus was associated with increased odds of reporting academic degrees (Table 1). No association was found for the other journal characteristics.

Discussion
Among the 100 highest impact medical journals, only 24 journals reported academic degrees following author names on the title page. Reporting of academic degrees was substantially more common in journals based in North America compared with Europe.

Listing author academic degrees is an editorial policy decision but there is little guidance from the International Committee of Medical Journals Editors (ICMJE) or the American Medical Association (AMA) Manual of Style. Specifically,
the ICMJE states “Each author’s highest academic degrees should be listed, although some journals do not publish these,” and the AMA Manual of Style writes “Journals should establish their own policies on the inclusion of authors’ degrees.”. Neither provides a rationale for providing academic degrees and it remains unclear why some journals do and others do not. The marked difference between journals published in North America compared with Europe cannot be explained by the current study but may be a reflection of cultural differences in attitude towards degrees and titles. Further research is needed to explore the implications of listing academic degrees on the readers’ attitude towards research quality.

Limitations of the current study include that we only evaluated high-impact medical journals. Furthermore, we only assessed some journal characteristics. We evaluated only recent issues of these journals and are therefore unable to comment on trends in the use of author academic degrees.

In conclusion, we found that academic degrees are reported in about one fourth of medical journals and that this practice is more common in North America.

**Data availability**

**Underlying data**

Harvard Dataverse: Replication Data for: Reporting of academic degrees in high-impact medical journals, [https://doi.org/10.7910/DVN/KTWS6C](https://doi.org/10.7910/DVN/KTWS6C)

This project contains the following underlying data:
- CSV file with the titles of the medical journals investigated

Data are available under the terms of the Creative Commons Zero “No rights reserved” data waiver (CC0 1.0 Public domain dedication).

The Journal Citation Report from Clarivate Analytics can only be accessed through an individual or institutional account.

---

1[^1]

[^1]: [http://www.icmje.org/recommendations/browse/manuscript-preparation/preparing-for-submission.html#a](http://www.icmje.org/recommendations/browse/manuscript-preparation/preparing-for-submission.html#a)


[^3]: Stankovic, Nikola, 2019, “Replication Data for: Reporting of academic degrees in high-impact medical journals”, [https://doi.org/10.7910/DVN/KTWS6C](https://doi.org/10.7910/DVN/KTWS6C), Harvard Dataverse, V1
Ana Marusic
Department of Research in Biomedicine and Health, School of Medicine, University of Split, Split, Croatia

This article addresses an interesting and intriguing question in publishing - why author’s academic degrees are published in journals. Editorial guidelines mention this, but do not provide actual guidance. This research showed that journals from North America and from clinical disciplines are more likely to publish the degrees, which is an interesting finding, at least in high-impact journals. The manuscript is written clearly, as a brief report, and follows a logical order, with appropriate statistical analysis.

I have two major issues:
1. There is no literature overview on this problem (or a statement that there is no evidence on this issue in literature).

2. The description of the selection of articles in the set of 100 journals is vague. It is not clear what was the method for sampling "approximately ten articles ..." in the two study years. This needs to be clarified.

Is the work clearly and accurately presented and does it cite the current literature?  
Partly

Is the study design appropriate and is the work technically sound?  
Partly

Are sufficient details of methods and analysis provided to allow replication by others?  
Partly

If applicable, is the statistical analysis and its interpretation appropriate?  
Yes

Are all the source data underlying the results available to ensure full reproducibility?  
Yes
Are the conclusions drawn adequately supported by the results?
Yes

**Competing Interests:** No competing interests were disclosed.

**Reviewer Expertise:** Journal and peer review research

I confirm that I have read this submission and believe that I have an appropriate level of expertise to state that I do not consider it to be of an acceptable scientific standard, for reasons outlined above.

Reviewer Report 08 November 2019

https://doi.org/10.5256/f1000research.23217.r56195

© 2019 AlRyalat S. This is an open access peer review report distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

Saif Aldeen AlRyalat
Department of Ophthalmology, University of Jordan Hospital, The University of Jordan, Amman, Jordan

Stankovic et al assessed the factors associated with mentioning academic degrees on the journal’s title page. The current study is interesting and sheds a light on an important topic, although the authors chose a restricted sample to analyze (i.e. high impact medical journals). I believe that the current report can be improved by clarifying some points within its methods section, as follows.

In the methods section, the authors did not define “academic degrees”. In the data associated with this study, they included columns on “Academic degrees”, “job titles”, and “fellowship designations”. In medicine, reporting of fellowships might be more important than the academic degree, especially if the researcher is a clinician working in a non-academic institution. The authors should clearly define what they mean by “academic degree” that they used in their analysis.

In the methods section, the authors categorized journals according to specialty as general or specific. The authors should detail the basis of this classification. Moreover, the authors categorized open access status into yes, no, or partly, where “partly” is not a common word used to describe the open access status (examples of common, well-defined words include green open access, hybrid access and so on). By going back to the data, I observed several non-open access journals categorized as “partly”, so I would suggest adopting strict criteria for categorization, such as the one suggested by Scopus: “Open Access Journals are indicated as Open Access if the journal is listed in the Directory of Open Access Journals (DOAJ) and/or the Directory of Open Access Scholarly Resources (ROAD)”.

In the discussion section, the authors should include studies that discussed the impact of an academic degree in publishing, which would complement the points raised by the authors in the present report.

**Is the work clearly and accurately presented and does it cite the current literature?**
Partly
Is the study design appropriate and is the work technically sound?
Yes

Are sufficient details of methods and analysis provided to allow replication by others?
Partly

If applicable, is the statistical analysis and its interpretation appropriate?
Yes

Are all the source data underlying the results available to ensure full reproducibility?
Yes

Are the conclusions drawn adequately supported by the results?
Yes

**Competing Interests:** No competing interests were disclosed.

**Reviewer Expertise:** Medicine, bibliometrics, ophthalmology.

I confirm that I have read this submission and believe that I have an appropriate level of expertise to confirm that it is of an acceptable scientific standard, however I have significant reservations, as outlined above.

---

The benefits of publishing with F1000Research:

- Your article is published within days, with no editorial bias
- You can publish traditional articles, null/negative results, case reports, data notes and more
- The peer review process is transparent and collaborative
- Your article is indexed in PubMed after passing peer review
- Dedicated customer support at every stage

For pre-submission enquiries, contact research@f1000.com