Preferential publication of editorial board members in medical specialty journals

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ABSTRACT
Background: Publication bias and discrimination are increasingly recognised in medicine. A survey was conducted to determine if medical journals were more likely to publish research reports from members of their own than a rival journal’s editorial board.

Methods: A retrospective review was conducted of all research reports published in 2006 in the four competing medical journals within five medical specialties. Only three journals were willing to divulge the authorship of reports that had been rejected.

Results: Overall, 4460 research reports were published in 2006 by the 20 journals from five subspecialties (mean 223 (SD = 164) reports per journal; median 176; interquartile range 108–238). On average, 17.2 (7.7%) reports were from a journal’s own editorial board (SD = 10.7; median 15; interquartile range 10–23; n = 20), and 6.3 (2.8%) reports were from a member of the editorial board of one of the three rival journals within the specialty (SD = 7.3; median 3.5; interquartile range 1–8; n = 60). There was a statistically significant excess of publications from the journal’s own editorial board in 14 of the 20 journals (p < 0.05). Journals were almost three times more likely to publish reports from their own editorial board than from one of the three rivals within their subspecialty (p < 0.001; median difference 11; Mann– Whitney U test; power for 5% significance >99.9%).

Conclusions: There was a significant excess of publications from medical journals’ own editorial boards, although it is not possible to determine whether this is due to bias in the peer review process or selective submission by editors.

One former editor of the BMJ has claimed that “the whole business of medical journals is corrupt” and “prone to bias”. This bias can take several forms. Traditionally, “publication bias” is a widely recognised phenomenon whereby positive results have an increased likelihood of being published and are published in more influential journals. Publication bias distorts conclusions of meta-analysis and leads to a misleading impression of the effectiveness of some treatments. A widely reported example of bias is the tendency for research that is funded by pharmaceutical companies to show the company’s product in a more favourable light than independently funded trials. There is also widespread condemnation of the distortion of published medical research by the tobacco and alcohol industries. Governments have even been implicated in attempts to suppress the results of politically embarrassing medical research or editorials. There are also increasing reports of “ghost” authorship that may conceal conflicting interests.

There are few allegations of favouritism by medical journal editors and editorial boards. Nevertheless, editorial bias against mental health researchers from less developed countries has been reported. At least one report has suggested that general psychiatry journals are selectively under-reporting articles on eating disorders. There are also occasional references to “hostile reviewers”. These criticisms are widely acknowledged in a recent survey of over 3040 academics worldwide, in which 71% supported the use of double-blind peer review.

Anecdotal evidence suggested to us that researchers who were on an editorial board had an increased likelihood of having their research published in their own journal. Such a practice would be grossly unethical, particularly as funding for medical research often depends on the capacity of researchers to publish in “high-impact” journals. Consequently, we conducted a survey to determine whether specialised medical journals were more likely to publish research reports from members of their own editorial board than from the members of a rival journal’s editorial board.

METHODS
A retrospective review was conducted of all database-based original research reports published in 2006 in the four competing medical journals within five medical specialties: surgery, paediatrics, general practice, psychiatry, and obstetrics and gynaecology. Journals were identified using the 2005 ISI impact factors. For convenience, the broadest five medical specialties were used that had at least four based original research reports published in 2006 in the four competing medical journals within five medical specialties: surgery, paediatrics, general practice, psychiatry, and obstetrics and gynaecology. Journals were identified using the 2005 ISI impact factors. For convenience, the broadest five medical specialties were used that had at least four.
RESULTS

The results are shown in table 1. Overall there were 4460 research reports published in 2006 by the 20 journals from the five medical subspecialties (mean 223 (SD = 164) reports per journal; median 176; interquartile range 108–235). On average, 17.2 (7.7%) reports were from each journal’s own editorial board (SD = 10.7; median 15; interquartile range 10–23; n = 20). On average, 6.3 (2.8%) reports were from one of the three rivals within the editorial board. Whether this “selective submission” fully explains the fact that the journals were almost three times more likely to receive an article from a member of their own editorial board than from a member of the editorial board of a rival journal begins to stretch belief. Overall, the editorial board for each of the four journals within each specialty are likely to contain equally competent and productive researchers. Each of the journals had similar impact factors within their field. This raises the possibility that editorial procedures are selectively biased in favour of members of their own editorial board.

DISCUSSION AND CONCLUSIONS

This study shows a statistically significant preference among leading medical journals to publish reports that cite authors from their own (rather than a rival journal’s) editorial board. It is possible that the results were due to a selective tendency for the editors to preferentially submit their research reports to their own journal; this may be due to authors’ sense of loyalty or gratitude to the editors in chief, or to the expectation of a more sympathetic review from their colleagues on the editorial board. Whether this “selective submission” fully explains the fact that the journals were almost three times more likely to receive an article from a member of their own editorial board than from a member of the editorial board of a rival journal begins to stretch belief. Overall, the editorial board for each of the four journals within each specialty are likely to contain equally competent and productive researchers. Each of the journals had similar impact factors within their field. This raises the possibility that editorial procedures are selectively biased in favour of members of their own editorial board.

This report raises a significant ethical question. It is perfectly valid to suggest that the results are due to selective favouritism and bias towards members of a journal’s editorial board. To exclude this possibility, we need access to the authorship of the original papers of all original research reports published in leading medical journals to determine the proportion of reports that cite authors from the journal’s own editorial board.
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reports that were rejected by the various medical journals. The editors of these journals will not release this information. There are two options: first, suppress this report, in which case any abuses of the editorial process will continue; alternatively, publish the report in its current speculative state and challenge the journals to demonstrate that they are keeping a fair and orderly house.

Unfortunately, one of the first responses to bias and discrimination is to deny that it exists at all, and the first step in correcting this is to raise the spectre in public. It is perfectly within the capacity of journal editors to demonstrate that there is no editorial favouritism within their own organisations, although we were unable to persuade them to do this. For example, the editors in chief of all 20 journals were contacted by post on two occasions in spring 2008 by the authors and a Member of Parliament. Only three journals were amenable to releasing the information on the authorship of rejected articles. This obstruction to the attempts to investigate potential favouritism is a major ethical issue and justifies publication of the results in their current, speculative form. The onus is now on the journals to demonstrate the rebuttability of the editorial process.

It is widely held that members of editorial boards are encouraged to submit to their own journal. This raises the obvious question, exactly how are editors ‘encouraged’ to submit to their own boards? Editorial board members are mainly unpaid, and the implication that their articles would have enhanced publication rates would be a major incentive both to submit reports as authors and to act as editorial board members.

One defence against the charge of editorial favouritism involves the argument that if journals were publishing inferior research from their own editorial board, then the impact factor of the journal would fall. In fact, a journal’s impact factor is dependent on a handful of highly cited reports. Most published reports in medical journals have a negligible effect on their citation factors.

Funding for medical research depends on either industrial sponsorship, which has been the subject of increasing concern, or national funding bodies such as the UK Medical Research Council and the Wellcome Trust. Many of these organisations base funding decisions on the publication record of the individual researchers. Research funding is more likely for authors of articles published in ‘high-impact’ journals. A fair and transparent system of peer review is therefore an ethical prerequisite.

Unfortunately, all codes of practice among medical editors are entirely voluntary. Moreover, the guidelines drawn up by the International Committee of Medical Journal Editors and other bodies are often dismissed as ineffective and they lack sufficient endorsement outside the largest journals. The only practical ways of preventing editorial favouritism is open or double-blind peer review, and even these methods may fail or be perverted (eg, by making reference in the text to ‘previous research by the authors’). However, medical journals should make all reasonable efforts to prevent bias and it is hard to justify any valid argument against open or double-blind peer review other than preservation of the status quo.

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