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# Turkish Journal of Emergency Medicine

journal homepage: <http://www.elsevier.com/locate/TJEM>

## How can emergency physicians protect their work in the era of pseudo publishing?

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### ARTICLE INFO

#### Article history:

Received 26 September 2017

Accepted 8 November 2017

Available online xxx

#### Keywords:

Fake journal

Hijacked journal

Open access

Predatory journal

Predatory publishing

Pseudo publishing

### ABSTRACT

Recently scientists have been targets of pseudo journals (fake, hijacked or predatory journals). These journals provide a low barrier to publication and quick publication times compared to high quality journals and exploit the pay-to-publish system in order to charge publication fees but they provide no formal peer-review. We aim to increase awareness among emergency physicians about pseudo journals.

Trying to list all of fake, hijacked or predatory journals is not the solution because new journals are launched almost everyday and the fast proliferation of journals makes it difficult to identify and list all of them. Only an understanding of the practices and markers of legitimate and predatory publishers will allow the researcher to keep pace with danger because fraud is an ever-changing field.

In this review we offer basic information (our top list of strategies and potential red flags) to recognize these journals to avoid submission and suggest some solutions if a paper has already been submitted or published in these journals.

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## 1. Introduction

Recently scientists have been targets of pseudo journals (fake, hijacked or predatory journals). Pseudo journals have thrived because academicians feel pressure to publish for promotion, pay rise, reputation etc. and this is forcing researchers to publish more papers in a shorter time. These journals provide a low barrier to publication and quick publication times compared to high quality journals that mostly have high rejection rates.

Authors who publish in pseudo journals tend to be younger researchers from developing countries who have less experience.<sup>1</sup> Many researchers in developing countries who submit their work to predatory journals do not have enough information about pseudo publishing.<sup>2</sup> Contrary to the traditional model where librarians and readers were the customers of journals, individual authors are customers of journals now and sometimes they are unable to distinguish between legitimate and fake, hijacked or

predatory journals.<sup>3</sup>

Our stance is certainly not against open access (OA) publishing since it has its advantages of ensuring rapid and widespread dissemination of scientific research and we are aware that most of OA journals are legitimate. We know that just because a journal is from a given publisher does not automatically make it legitimate or high quality and ignoring the predatory and/or unscholarly behavior of some of the larger mainstream publishers – is clearly biased.<sup>4</sup>

We only aim to increase awareness among especially young emergency physicians about pseudo journals and to offer basic information to recognize these journals to avoid submission and to suggest some strategies if their work has already been submitted or published in these journals.

## 2. Hijacked journals

This term refers to the creation of a fake website that simulates the website of a legitimate journal to fool authors who believe they are sending to their work to the legitimate journal and to charge article fees. There is actually no journal where the work is being published in.<sup>5</sup>

If the authentic journal has a website, hijackers may duplicate it.

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Peer review under responsibility of The Emergency Medicine Association of Turkey.

<https://doi.org/10.1016/j.tjem.2017.11.001>

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If the journal is a print only one, hijackers create a website and claim that it is the real journal's website. If the journal's website is not in English, then they create a website that is in English and claim that it is the English webpage for the authentic journal.<sup>5</sup>

### 3. Fake journals

A fake journal is different from a hijacked journal in that a person or organization has never registered it. The so-called journal simply does not exist. They have fake ISSN numbers that never have been assigned to any journal by ISSN organization.<sup>6</sup>

### 4. Predatory journals

Predatory publishing is a relatively recent phenomenon defined by University of Colorado Denver librarian Jeffrey Beall who came up with the term.<sup>7</sup> These journals exploit the gold OA model where the author pays for article processing charges. Since their motivation is financial gain they charge publication fees without providing services they pretend to give like editorial or peer review or digital archiving and maintain a low to nonexistent standard of quality control.<sup>3,8,9</sup> Predatory journals try to find articles through spam emails, promising very quick review and OA publication for a publication fee. There is virtually no transparency about processes and fees.<sup>3</sup> The publishers make profit and the authors enhance their curriculum vitae (CV).<sup>9</sup>

Even indexed journals may have predatory practices. Some publishers buy a reputable journal that has been indexed previously and instantly change the frequency of publishing to receive more articles and make more money until their practice is recognized.<sup>10</sup>

Each week, academic authors receive several email requests to publish in these journals, become a reviewer or and editor for them.<sup>9</sup> Most researchers will delete these emails, but some are deceived.<sup>3</sup> A recent analysis of the authors of articles in predatory journals found that authors are more likely to be junior and from developing countries.<sup>8</sup> These journals and their authors are mostly located in developing countries such as India, Pakistan, Iran, Turkey, Nigeria, Malaysia.<sup>1,8,9</sup> There is also a recent article that argues that more than half of the corresponding authors in these journals are hailed from high- and upper-middle-income countries as defined by the World Bank.<sup>11</sup>

### 5. Why not to submit in predatory journals

Some of these journals only appear for weeks and then disappear causing the articles to vanish and your work to get lost.<sup>8</sup> If the publishing company goes out of business the manuscripts may be no longer available because they have no digital content preservation. Since the articles are not indexed in reputable library systems, they are not visible to other researchers.<sup>3</sup>

People with bogus scientific credentials may fill up universities and this may damage the quality of scientific environment. It creates an advantage in favor of dishonest ones against honest researchers especially if the academic evaluation system relies too much on one's number of publications rather than quality of them.<sup>7</sup> While publishing your work may seem an easy way to boost your CV, having these journals on your CV may raise questions about the credibility of authors and integrity of your work. A negative stigma may be attached to a scientist who constantly choose to publish in pseudo journals, even if their work is perfectly valid, and academically sound. These are some of the consequences of publishing in pseudo journals as a result of honest mistake.<sup>9</sup>

The metric values and other indexing measures developed by scientific indexing databases are affected because of citations of

articles that are published in hijacked and fake journals.<sup>6</sup>

Most importantly in the long run predatory publishing undermines public trust in the validity of scientific publication and is a waste of resources.<sup>9,11</sup> These journals are destructive on the validity and reliability of medical research.<sup>6</sup>

### 6. How to recognize these journals

Trying to list all of fake, hijacked or predatory journals is not the solution because new journals are launched almost everyday and the fast proliferation of journals makes it difficult to identify and list all of them. Some of these journals exist for a short time and disappear before they can be listed anywhere.<sup>3</sup> Some of them look so real that they can even fool Thomson Reuters.<sup>5</sup> Some authors would suggest to stick with widely known journals or strict lists but we disagree with that practice because that would be unfair to newly established legitimate journals and would ease monopolizing.<sup>3,7</sup> It would also be hard for junior researchers to get their work published in those top journals thus causing a disadvantage against them.

Determining whether a journal is truly predatory is difficult. A legitimate journal may be mistaken for a predatory one especially in the beginning of its establishment. One might easily mislabel small or nascent OA publishers lacking societal support or financial infrastructure as predatory because of their fees.<sup>12</sup> In the early stages of their development journals cannot offer wider discovery in established search services.<sup>12</sup>

Only an understanding of the practices and markers of legitimate and predatory OA publishers will allow the researcher to keep pace with danger because methods of fraud is changing fast.<sup>12</sup>

There are some suggested methods to protect your work by different authors; we have listed our top 10 for emergency physicians below and summarized a top 5 list in [Table 1](#). Below is also a detailed explanation of the items in [Table 1](#).

1. Ignore emails requesting article submissions or offering editorial board memberships from questionable publishers.<sup>13</sup>
2. Do an internet search about the journal to see if there is any information about fraud.<sup>14</sup>
3. Check Beall's list: Beall's website is closed on Jan 15, 2017, but is still available in web archives.<sup>11,15</sup> Beall's list included 1294 journals which he believed was predatory. He unfortunately put some legitimate journals and publishers that are from low and middle income countries to his black list by mistake.<sup>16</sup> Thus WAME advises against the use of Beall's lists as a single method to define if a journal is predatory.
4. Check DOAJ list: DOAJ indexes high quality peer reviewed OA journals and this list can serve as a white list. However not all legitimate journals are on DOAJ's list so there is still a chance a journal is not predatory even if it is not listed.<sup>16</sup>
5. Check the papers published in the journal in the past, read a few of the articles in the journal to assess the quality of science before submitting your work.<sup>14,17</sup> Choose to submit your research to journals that you would normally find interesting and relevant.<sup>12</sup>

**Table 1**

How to avoid sending your work to a predatory journal.

Our top 5 list before submission
Look for the journal in an internet search engine
Use Think. Check. Submit approach
Check Bealls list
Check DOAJ list
When in doubt, ask a more experienced colleague to help you

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