

# BMJ Open Editors' and authors' individual conflicts of interest disclosure and journal transparency. A cross-sectional study of high-impact medical specialty journals

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## ABSTRACT

**Objective** To assess the fulfilment of authors' and editors' individual disclosure of potential conflicts of interest in a group of highly influential medicine journals across a variety of specialties.

**Design** Cross-sectional analysis.

**Setting and participants** Top-ranked five journals as per 2017 Journal Citation Report impact factor of 26 medical, surgery and imaging specialties.

**Interventions** Observational analysis.

**Primary and secondary outcome measures** Percentage of journals requiring disclosure of authors' and editors' individual potential conflicts of interest (Col). Journals that were listed as followers of the International Committee of Medical Journal Editors (ICMJE) Recommendations, members of the Committee on Publication Ethics (COPE) and linked to a third party (ie, college, professional association/society, public institution).

**Results** Although 99% (129/130) of journals required author's Col disclosure, only 12% (16/130) reported individual editors' potential Cols. Forty-five per cent (58/130) of journals were followers of the ICMJE Recommendations, and 73% (95/130) were COPE members. Most (69%; 90/130) were linked to a college, professional society/association or public institution. Only one journal did not have policies on individual authors' and editors' Col disclosure.

**Conclusion** Very few high-impact medical journals disclosed their editorial teams' individual potential Cols—conversely, almost all required disclosure of authors' individual Cols. Journal followers of the ICMJE Recommendations should regularly disclose the editors' individual Cols, as this is the only legitimate way to ask the same transparency of authors.

## INTRODUCTION

Recent highly publicised cases<sup>1 2</sup> illustrated what has been suspected for many years, that many researchers do not appropriately disclose their financial conflicts of interest (CoI), let alone disclose non-financial CoIs, about which there are differing opinions<sup>3</sup> and lack of clear policies in most medical journals.<sup>4</sup>

## Strengths and limitations of this study

- This is the first study comparing authors' and editors' individual disclosure of potential conflicts of interest in 130 leading journals from 26 medical specialties.
- A limitation is that we did not assess a representative sample of the whole population of medical journals. Also, we included only the information available in the public domain (journals' websites).
- The results obtained in this study may be an overestimation of how many journals require and comply with disclosure of authors' and editors' individual potential conflicts of interest.

The implementation of the Sunshine Act in the USA in 2013 reveals all industry payments received by all physicians practising in the USA through the Centers for Medicare & Medicaid Services Open Payments Database (OPD; <https://www.cms.gov/open-payments/>). A study showed that 32% of oncologists working in the USA and authors of clinical trial articles published in six highly influential journals (two general/internal medicine journals and four oncology or haematology journals) failed to completely disclose industry payments from the company that sponsored the trials.<sup>5</sup>

Although authors' failure to disclose potential CoI is of grave concern, matters are worse when it comes to disclosure by editors and editorial teams. The Committee on Publication Ethics (COPE)—a highly respected professional committee providing leadership to editors, publishers and individuals on ethical publishing practices—recommends that 'editorial CoI should be declared, ideally publicly.'<sup>6</sup> The hugely influential International Committee of Medical Journal Editors (ICMJE) Recommendations for the Conduct,

Reporting, Editing, and Publication of Scholarly Work in Medical Journals—which are followed by thousands of scholarly journals—state that editors should publish ‘regular disclosure statements’ about their own potential CoIs and those of their staff, and that guest editors should follow the same standards.<sup>7</sup> This policy, however, is almost never followed. A review of the information in English posted on the websites of the 14 journal members of the ICMJE showed that only two of them (*PLOS Medicine*, *The BMJ*) published individual declarations on editors’ potential CoIs.<sup>8</sup> A third ICMJE member journal (*Annals of Internal Medicine*) published its editorial team members’ potential CoIs in online published original research articles, special articles and reviews as ‘editors’ disclosure’ within the ‘author, article and disclosure information.’

Practising physicians working as journal editors may receive industry payments and, hence, these financial CoIs should be disclosed to readers. Prior studies showed close to 50% of USA clinicians belonging to editorial teams in top-ranked medicine journals have received payments from industry.<sup>9–11</sup>

The aim of this study was to assess the fulfilment of authors’ and editors’ individual disclosure of potential CoI in a group of highly influential medicine journals across a variety of specialties.

## METHODS

In November 2018 we searched the websites of highly influential journals for the policies on authors’ and individual editors’ potential CoI. These were the five top-ranked journals according to their 2017 Journal Citation Report (JCR) impact factor, in each of 26 different JCR categories within medicine, surgery and imaging. The search was conducted by alphabetical order of the JCR categories. If a journal was included in one category and was found to be in the top five of a subsequent category, the next journal of the top list of the latter category was included to avoid duplication. This resulted in the inclusion of 130 different journals.

The following data were retrieved: journal name; 2017 impact factor; journal link to a third party, that is, college, professional association or society or linked to a public institution, since this indicated the responsibility of a non-commercial organisation for a journal; if the journal was included at the ICMJE website as a follower of the ICMJE Recommendations; and if the journal was included on the COPE website as a member. A quality check process is required for COPE membership, but not for ICMJE Recommendations listing. In addition, at each journal website we searched if there was information for author’s individual CoI disclosure at the time of manuscript submission and whether the journal provided individual editorial CoI declarations. This included all usual editorial positions, such as editors in chief, executive editors, deputy editors and associate editors or their equivalent. We presumed that these job positions would be involved in the editorial decision-making process. Data

were retrieved by one of the authors, RDR; all the information from a random sample of 25% of the 130 journals was assessed by another author, AM, to check the consistency of the retrieved data.

## PATIENT AND PUBLIC INVOLVEMENT

Neither patients nor any member of the public was involved in this study.

## RESULTS

As shown in [table 1](#), 99% (129/130) of journals required authors’ CoI disclosure, but only 12% (16/130) reported individual editors’ potential CoIs. There were 10 categories (out of the 26) with one journal reporting individual editors’ potential CoIs, and three other categories (Gastroenterology and Hepatology, Oncology, and Respiratory Medicine) with two journals providing this information. Half of the categories (13/26) had no journal providing public disclosure of individual editors’ CoIs. Only one journal (*World Psychiatry*) did not have policies on both authors’ and editors’ individual CoI disclosure. Out of 130 journals in the sample, 58 (45%) were listed on the ICMJE Recommendations subscription list, and 95 (73%) were COPE members. Thirty-eight (29%) were both ICMJE Recommendations subscribers and COPE members—four of them belonging to Anaesthesia. Six categories had no journals subscribed to both ICMJE Recommendations and COPE. Fifteen journals (11.5%)—belonging to 11 categories—were neither followers of the ICMJE Recommendations nor COPE members. None of the five journals in the Immunology or Oncology categories were followers of the ICMJE Recommendations. None of the five Ophthalmology journals were COPE members.

A majority of journals in the sample (69%; 90/130) were linked to a college, professional society/association or public institution. Seven of the 26 categories had all five journals tied to a third party, whereas only one (Immunology) had five journals with no link to a third party. The two journals that were linked to a public institution were *Emerging Infectious Diseases* (from the USA Centers for Disease Control and Prevention, CDC) and *Eurosurveillance* (that belongs to the European Centre for Disease Prevention and Control, ECDC).

With regard to individual editors’ CoI declarations, journal members of COPE and/or of the ICMJE Recommendations subscribers were not better in disclosures than other journals. Among those 16 journals that declared individual editors’ CoIs, 10 were both followers of the ICMJE Recommendations and COPE members; the *Journal of Clinical Oncology* was neither a follower of the ICMJE Recommendations nor was a member of COPE.

None of the 22 journals listed in [table 1](#) belonging to the *Lancet*, *JAMA* or *Nature Reviews* journal groups reported individual editors’ potential CoI. Two journals belonging to the same group (*Journal of the American College*

**Table 1** Authors' requirements and provision of editors' individual conflicts of interest (Col) disclosures in the websites of the five top-ranked journals of 26 categories as per 2017 JCR impact factor (IF) and their link to a third party. Inclusion of journals in the ICMJE Recommendations list of followers and as COPE members (as of 14 November 2018)

JCR category	Journal	2017 IF	Linked* to a college, professional association/society or public institution	ICMJE Recommendations follower†	COPE member†	Author's Col individual disclosure required	Editor's Col individual declaration provided
Allergy	<i>Journal of Clinical Allergy and Clinical Immunology</i>	13.3	Yes	Yes	Yes	Yes	No
	<i>Journal of Clinical Allergy and Clinical Immunology in Practice</i>	7.0	Yes	No	Yes	Yes	No
	<i>Clinical Reviews in Allergy &amp; Immunology</i>	6.1	No	No	Yes	Yes	No
	<i>Allergy</i>	6.0	Yes	No	Yes	Yes	No
	<i>World Allergy Organization Journal</i>	5.7	Yes	No	Yes	Yes‡	No
Anaesthesiology	<i>Anesthesiology</i>	6.5	Yes	No	Yes	Yes	Yes
	<i>British Journal of Anaesthesia</i>	6.5	Yes	Yes	Yes	Yes	No
	<i>Pain</i>	5.6	Yes	Yes	Yes	Yes	No
	<i>Anaesthesia</i>	5.4	Yes	Yes	Yes	Yes	No
	<i>Regional Anesthesia and Pain Medicine</i>	4.7	Yes	Yes	Yes	Yes§	No
Cardiology and cardiovascular systems	<i>European Heart Journal</i>	23.4	Yes	Yes	Yes	Yes	No
	<i>Circulation</i>	18.9	Yes	Yes	No	Yes	No
	<i>Journal of the American College of Cardiology</i>	16.8	Yes	Yes	Yes	Yes	Yes¶
	<i>Circulation Research</i>	15.2	Yes	No	Yes	Yes	No
	<i>Nature Reviews Cardiology</i>	15.2	No	No	Yes	Yes	No
Clinical neurology	<i>Lancet Neurology</i>	27.1	No	No	Yes	Yes	No
	<i>Nature Reviews Neurology</i>	9.1	No	No	Yes	Yes	No
	<i>Acta Neuropathologica</i>	5.9	No	No	No	Yes	No
	<i>Alzheimer's &amp; Dementia</i>	2.8	Yes	No	Yes	Yes	No
	<i>JAMA Neurology</i>	1.1	Yes	Yes	No	Yes	No

Continued

Table 1 Continued

JCR category	Journal	2017 IF	Linked* to a college, professional association/society or public institution	ICMJE Recommendations follower†	COPE member†	Author's Col individual disclosure required	Editor's Col individual declaration provided	
Critical care medicine	<i>Lancet Respiratory Medicine</i>	21.5	No	No	Yes	Yes	No	
	<i>American Journal of Respiratory and Critical Care Medicine</i>	15.2	No	Yes	Yes	Yes	Yes	
	<i>Intensive Care Medicine</i>	15.0	Yes	No	Yes	Yes	No	
	<i>Chest</i>	7.7	Yes	Yes	Yes	Yes	No	
Dermatology	<i>Critical Care Medicine</i>	6.6	Yes	No	Yes	Yes	No	
	<i>JAMA Dermatology</i>	8.1	Yes	Yes	No	Yes	No	
	<i>Journal of the American Academy of Dermatology</i>	6.9	Yes	Yes	Yes	Yes	No	
	<i>Journal of Investigative Dermatology</i>	6.4	Yes	No	Yes	Yes	No	
	<i>British Journal of Dermatology</i>	6.1	Yes	No	Yes	Yes	No	
	<i>Pigment Cell &amp; Melanoma Research</i>	6.1	Yes	No	Yes	Yes	No	
	Endocrine and metabolism	<i>Cell Metabolism</i>	20.6	No	No	Yes	Yes	No
		<i>Nature Reviews Endocrinology</i>	20.3	No	No	Yes	Yes	No
		<i>Lancet Diabetes &amp; Endocrinology</i>	19.3	No	No	Yes	Yes	No
		<i>Endocrine Reviews</i>	15.6	Yes	No	Yes	Yes†	No
<i>Diabetes Care</i>		13.4	Yes	Yes	Yes	Yes	No	
Gastroenterology and hepatology		<i>Gastroenterology</i>	20.8	Yes	Yes	Yes	Yes	Yes
	<i>Nature Reviews Gastroenterology &amp; Hepatology</i>	17.3	No	No	Yes	Yes	No	
	<i>Gut</i>	17.0	No	Yes	Yes	Yes	Yes**	
	<i>Journal of Hepatology</i>	15.0	Yes	Yes	Yes	Yes	No	
	<i>Hepatology</i>	14.1	Yes	No	No	Yes	No	
	Haematology	<i>Blood††</i>	15.1	Yes	Yes	Yes	Yes	Yes
<i>Lancet Haematology</i>		10.7	No	No	No	Yes	No	
<i>Leukemia</i>		10.0	No	No	Yes	Yes	No	
<i>Haematologica</i>		9.1	Yes	Yes	No	Yes	No	
<i>Journal of Hematology &amp; Oncology</i>		7.3	Yes	No	Yes	Yes†	No	

Continued

Table 1 Continued

JCR category	Journal	2017 IF	Linked* to a college, professional association/society or public institution	ICMJE Recommendations followert	COPE member†	Author's Col individual disclosure required	Editor's Col individual declaration provided
Immunology	<i>Nature Reviews Immunology</i>	42.0	No	No	Yes	Yes	No
	<i>Annual Review of Immunology</i>	22.7	No	No	No	Yes‡	No
	<i>Nature Immunology</i>	21.8	No	No	Yes	Yes‡	No
	<i>Immunity</i>	19.7	No	No	Yes	Yes	No
	<i>Trends in Immunology</i>	14.2	No	No	No	Yes	No
Infectious diseases	<i>Lancet Infectious Diseases</i>	25.1	No	No	Yes	Yes	No
	<i>Lancet HIV</i>	11.4	No	No	No	Yes	No
	<i>Clinical Infectious Diseases</i>	9.1	Yes	Yes	Yes	Yes	No
	<i>Emerging Infectious Diseases</i>	7.4	Yes	Yes	No	Yes	No
	<i>Eurosurveillance</i>	7.1	Yes	Yes	No	Yes	No
Medicine general and internal	<i>New England Journal of Medicine</i>	79.3	Yes	Yes‡‡	Yes	Yes	No
	<i>Lancet</i>	53.3	No	Yes‡‡	Yes	Yes	No
	<i>JAMA</i>	47.7	Yes	Yes‡‡	No	Yes	No
	<i>BMJ</i>	23.6	Yes	Yes‡‡	Yes	Yes	Yes
	<i>JAMA Internal Medicine</i>	20.0	No	Yes	No	Yes	No
Obstetrics and gynaecology	<i>Human Reproduction Update</i>	11.9	Yes	No	Yes	Yes	No
	<i>American Journal of Obstetrics and Gynecology</i>	5.7	Yes	Yes	Yes	Yes	No
	<i>Ultrasound in Obstetrics &amp; Gynecology</i>	5.7	Yes	No	Yes	Yes	No
	<i>Human Reproduction</i>	5.0	Yes	No	Yes	Yes	No
	<i>Obstetrics and Gynecology</i>	5.0	Yes	No	Yes	Yes	No
Oncology	<i>CA-A Cancer Journal for Clinicians</i>	244.6	Yes	No	Yes	Yes	Yes
	<i>Nature Reviews Cancer</i>	82.8	No	No	Yes	Yes	No
	<i>Lancet Oncology</i>	36.4	No	No	Yes	Yes	No
	<i>Journal of Clinical Oncology</i>	26.4	Yes	No	No	Yes	Yes
	<i>Nature Reviews Clinical Oncology</i>	24.7	No	No	Yes	Yes	No

Continued

Table 1 Continued

JCR category	Journal	2017 IF	Linked* to a college, professional association/society or public institution	ICMJE Recommendations followert	COPE member†	Author's Col individual disclosure required	Editor's Col individual declaration provided
Ophthalmology	<i>Progress in Retinal and Eye Research</i>	11.7	No	No	No	Yes	No
	<i>Ophthalmology</i>	7.5	Yes	Yes	No	Yes	No
	<i>JAMA Ophthalmology</i>	6.7	Yes	Yes	No	Yes	No
	<i>Ocular Surface</i>	5.5	No	No	No	Yes	No
	<i>Annual Review of Vision Science</i>	5.1	No	No	No	Yes†	No
Orthopaedics	<i>American Journal of Sports Medicine</i>	6.1	Yes	No	Yes	Yes	No
	<i>Osteoarthritis and Cartilage</i>	5.5	Yes	Yes	Yes	Yes	No
	<i>Journal of Bone and Joint Surgery-American Volume</i>	4.6	No	No	Yes	Yes	Yes
	<i>Journal of Physiotherapy</i>	4.5	Yes	Yes	Yes	Yes	No
	<i>Arthroscopy</i>	4.3	Yes	No	No	Yes	No
Paediatrics	<i>JAMA Pediatrics</i>	10.8	Yes	Yes	No	Yes	No
	<i>Journal of the American Academy of Child and Adolescent Psychiatry</i>	6.2	Yes	Yes	Yes	Yes	No
	<i>Pediatrics</i>	5.5	Yes	Yes	Yes	Yes	No
	<i>Pediatric Allergy and Immunology</i>	4.1	Yes	No	Yes	Yes	No
	<i>Journal of Adolescent Health</i>	4.1	Yes	No	Yes	Yes	No
Peripheral vascular diseases	<i>Hypertension</i> §§	6.8	Yes	Yes	Yes	Yes	No
	<i>Stroke</i>	6.2	Yes	Yes	Yes	Yes	No
	<i>Arteriosclerosis, Thrombosis, and Vascular Biology</i>	6.1	Yes	No	Yes	Yes	No
	<i>Thrombosis and Haemostasis</i>	5.0	Yes	Yes	No	Yes	No
	<i>Journal of Thrombosis and Haemostasis</i>	4.9	Yes	Yes	Yes	Yes	No

Continued



Table 1 Continued

JCR category	Journal	2017 IF	Linked* to a college, professional association/society or public institution	ICMJE Recommendations followert	COPE member†	Author's Col individual disclosure required	Editor's Col individual declaration provided
Primary healthcare	<i>Annals of Family Medicine</i>	4.5	Yes	Yes	No	Yes	No
	<i>British Journal of General Practice</i>	3.3	Yes	No	Yes	Yes	No
	<i>Journal of the American Board of Family Medicine</i>	2.5	Yes	Yes	No	Yes	No
	<i>npj Primary Care Respiratory Medicine</i>	2.5	Yes	No	Yes	Yes	No
Psychiatry	<i>BMC Family Practice</i>	2.0	No	No	Yes	Yes‡	No
	<i>World Psychiatry</i>	30.0	Yes	No	No	No	No
	<i>JAMA Psychiatry</i>	16.6	Yes	Yes	No	Yes	No
	<i>Lancet Psychiatry</i>	15.2	No	No	Yes	Yes	No
	<i>American Journal of Psychiatry</i>	13.4	Yes	Yes	No	Yes	No
	<i>Psychotherapy and Psychosomatics</i>	13.1	No	Yes	No	Yes	No
	<i>Lancet Global Health</i>	18.7	No	No	Yes	Yes	No
	<i>MMWR- Morbidity and Mortality Weekly Report</i>	12.9	Yes	No	No	Yes	No
	<i>Annual Review of Public Health</i>	9.4	No	No	No	Yes‡	No
	<i>Environmental Health Perspectives</i>	8.4	Yes	Yes	Yes	Yes	No
Public, environmental and occupational health	<i>International Journal of Epidemiology</i>	8.4	Yes	Yes	Yes	Yes	No
	<i>JACC-Cardiovascular Imaging</i>	10.2	Yes	No	Yes	Yes	Yes¶
	<i>European Heart Journal-Cardiovascular Imaging</i>	8.3	Yes	No	Yes	Yes	No
	<i>European Journal of Nuclear Medicine and Molecular Imaging</i>	7.7	Yes	No	Yes	Yes	No
	<i>Radiology</i>	7.5	Yes	Yes	No	Yes	No
	<i>Journal of Nuclear Medicine</i>	7.4	Yes	Yes	No	Yes	No

Continued

Table 1 Continued

JCR category	Journal	2017 IF	Linked* to a college, professional association/society or public institution	ICMJE Recommendations follower†	COPE member†	Author's Col individual disclosure required	Editor's Col individual declaration provided
Respiratory system	<i>European Respiratory Journal</i> <sup>¶¶</sup>	12.2	Yes	Yes	Yes	Yes	Yes
	<i>Journal of Thoracic Oncology Thorax</i>	10.3	Yes	No	Yes	Yes†	No
	<i>Journal of Heart and Lung Transplantation</i>	9.7	Yes	Yes	Yes	Yes	Yes***
	<i>Journal of Thoracic and Cardiovascular Surgery</i>	8.0	Yes	No	Yes	Yes	No
Rheumatology	<i>Nature Reviews Rheumatology</i>	4.9	Yes	Yes	Yes	Yes	No
	<i>Annals of the Rheumatic Diseases</i>	15.7	No	No	Yes	Yes	No
	<i>Arthritis &amp; Rheumatology</i>	12.4	Yes	Yes	Yes	Yes	Yes**
	<i>Rheumatology</i> <sup>†††</sup>	7.8	Yes	No	Yes	Yes	No
Surgery	<i>Seminars in Arthritis and Rheumatism</i>	5.2	Yes	Yes	Yes	Yes	No
	<i>Annals of Surgery</i>	4.4	No	No	Yes	Yes	No
	<i>JAMA Surgery</i>	9.2	Yes	Yes	Yes	Yes	No
	<i>Journal of Neurology, Neurosurgery and Psychiatry</i> <sup>‡‡‡</sup>	8.5	Yes	Yes	No	Yes	No
Urology and nephrology	<i>Endoscopy</i>	7.1	No	Yes	Yes	Yes	Yes**
	<i>American Journal of Transplantation</i>	6.6	No	Yes	No	Yes	No
	<i>European Urology</i>	6.5	Yes	Yes	Yes	Yes	No
	<i>Nature Reviews Nephrology</i>	17.6	Yes	Yes	Yes	Yes	Yes
Nephrology	<i>Journal of the American Society of Nephrology</i>	14.1	No	No	Yes	Yes	No
	<i>Kidney International</i>	8.7	Yes	Yes	Yes	Yes	No
	<i>Nature Reviews Urology</i>	8.4	Yes	No	Yes	Yes	No
		8.1	No	No	Yes	Yes	No

Continued



Table 1 Continued

JCR category	Journal	2017 IF	Linked* to a college, professional association/society or public institution	ICMJJE Recommendations follower†	COPE member‡	Author's Col individual disclosure required	Editor's Col individual declaration provided
			*Official journal, or affiliated to or published by or on behalf of.				
			†Website information.				
			‡Available through the editorial group websites (eg, Annual Review author resource centre; BMC editorial policies; Endocrine society; Nature authors and editors policies).				
			§Available through the submission service site.				
			¶Including amount of USA\$ (modest up to less than USA\$5000, or significant USA\$ 5000 or more).				
			**Only that of the editor(s) but no information is provided regarding deputy editors and associate editors.				
			††The journal ranked as No 1 is <i>Circulation Research</i> which is included in Cardiology and Cardiovascular Systems.				
			‡‡ICMJJE member journal.				
			§§Journals ranked as No 1 and No 2 are <i>Circulation</i> and <i>Circulation Research</i> which are included in Cardiology and Cardiovascular Systems.				
			¶¶The journals ranked as No 1 and No 2 are <i>Lancet Respiratory Medicine</i> and <i>American Journal of Respiratory and Critical Care Medicine</i> , which are included in Critical Care Medicine.				
			***Only of some editors but not from all members of the editorial team.				
			†††The journal ranked as No 4 is <i>Osteoarthritis and Cartilage</i> , which is included in Orthopaedics.				
			‡‡‡The journal ranked as No 3 is <i>Journal of Heart and Lung Transplantation</i> which is included in Respiratory System.				
			§§§The journal ranked as No 3 is <i>Journal of Heart and Lung Transplantation</i> which is included in Respiratory System.				
			COPE, Committee on Publication Ethics; Col, conflict of interest; ICMJE, International Committee of Medical Journal Editors; JCR, Journal Citation Report.				

of Cardiology and JACC: Cardiovascular Imaging) were the only ones reporting the dollar amount received (modest or significant; threshold: \$5000) by each member of the editorial team. Finally, four journals belonging to the BMJ Group reported CoIs for one (*Annals of the Rheumatic Diseases, Gut, and Journal of Neurology Neurosurgery*) or three (*Thorax*) editors—but not all of them—whereas *The BMJ* reported individual potential CoIs for all members of its editorial team.

DISCUSSION

This study conducted on 130 high-impact medical journals from 26 medical JCR categories showed that although almost all (99%) required authors to disclose potential CoIs at the time of manuscript submission, only 12% reported individual editors' potential CoIs. Editors' disclosure rarely happened among journals that, in 88.5% of cases, were followers of the ICMJE Recommendations and/or COPE members, which recommend regular disclosure of editorial Col.

The situation in the rest of the thousands of journals that are included in the list of followers of the ICMJE Recommendations is even worse. We have shown previously that in a random sample of 350 journals only 1% (2/350) of the journal websites had declarations on individual editors' potential CoIs, whereas 82% (287/350) required disclosure of authors' CoIs.<sup>12</sup>

The USA OPD has shed light on editors' CoI by providing data on the payments by industry to journal editors also working as clinicians in the USA. In 2014, 51% and 20% of 713 of clinicians working as editors in 52 top medicine journals in 25 different specialties received general payments (eg, consultancy, honorariums, meals, travel) and research payments from industry, respectively.<sup>9</sup> Although the monetary values varied substantially across specialties and journals, there were five editors that received general payments between US\$325 000 and US\$11 million in 1 year.<sup>9</sup> In 2015, 46% (320/703) of editors from 60 influential USA journals in six medical specialties received general payments from industry, of whom 48% (152/320) received payments of more than US\$5000—the threshold considered significant by the National Institutes of Health.<sup>10</sup> In 2013–2016, 42% (141/333) of USA-based physician-editors working in 35 journals with the highest number of citations in 2015 in seven medical specialties received industry payments within any given year.<sup>11</sup> Median general payments to editors were mostly higher compared with all physicians within the same specialty.<sup>11</sup> Close to half of the editors of well-respected USA journals received industry payments, but very few disclosed them. However, the use of the USA OPD does not provide a complete picture since this database does not include payments to physician members of company corporate boards or payments from companies whose products have not been marketed.<sup>13</sup>

The situation in the European Union (EU) is unknown. France, Latvia and Portugal have regulations mandating

the transparent reporting of payments by industry to healthcare professionals.<sup>14</sup> In other EU countries, including Germany, Italy, Spain, Sweden, the Netherlands and the UK, industry self-regulations are in place.<sup>14</sup>

It has been observed that physicians accepting inexpensive meals from pharma companies prescribe more brand name medicines,<sup>15</sup> and that greater payments were associated with greater proportion of branded prescriptions.<sup>16</sup> What might be expected from editors who receive industry payments and could be involved in assessing manuscripts of industry-sponsored trials? The ICMJE Recommendations state that editors should recuse themselves from editorial decisions when they have potential CoIs.<sup>7</sup> Thus, authors and readers have to presume that this happens if this is a journal's policy. Unfortunately, only 57% (34/60) of influential USA journals<sup>10</sup> and 18% of journals listed as followers of the ICMJE Recommendations<sup>12</sup> have a publicly available editor's CoI policy. So, in the best-case scenario, where all journals with editors' CoI policy have a recusal statement that is always followed, there is still a risk that editors of many journals with industry ties could engage in editorial decisions with manuscripts for which they have a conflict.

While many journals have addressed the disclosure of authors' potential CoI disclosure, few have had a similar approach to editors' CoIs. The decision taken by the editors of 18 orthopaedic journals to agree to use the ICMJE form for disclosing authors' CoIs from 2011 onwards is laudable,<sup>17</sup> but as of January 2019 there has not been any such an agreement regarding editors' individual potential CoI disclosure. Similarly, *Nature Research* journals<sup>18</sup> and *JAMA Network* journals<sup>19</sup> have recently read-dressed their authors' potential CoI disclosure requirements but have not done the same regarding editors' individual disclosures.

The limitations of this study are that all information was retrieved from journals that lead their respective medical specialties and logically the number was relatively small. However, and as mentioned above with respect to the percentage of ICMJE Recommendations followers that declared the individual authors' and editors' CoI, we should foresee that among all medical journals the percentage that requires disclosure of these CoIs will be much smaller.

It is paradoxical that many journals ask for full authors' CoI disclosure, whereas almost all of them provide no publicly available information on their editors' potential CoIs. The 14 ICMJE member journals should lead the way in adhering to their own policies. Journals that belong to professional societies/associations should also disclose their editorial teams' individual potential CoI. Finally, all journals that are listed as followers of the ICMJE Recommendations should behave accordingly and report their editors' individual potential CoI.

The publication process—as a critical part of the scientific enterprise—should be based on the transparent behaviour of all agents involved. Journal editorial teams are a key player that should apply to themselves the

transparency they demand from their authors, by at least regularly updating their individual CoI declarations in an easily accessible place at the journal's website.

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