

Conflict of Interest Policies and Disclosure Requirements among European Society of Cardiology National Cardiovascular Journals

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Abstract

Disclosure of potential conflicts of interest (COI) is used by biomedical journals to guarantee credibility and transparency of the scientific process. COI disclosure, however, is not systematically nor consistently dealt with by journals. Recent joint editorial efforts paved the way towards the implementation of uniform vehicles for COI disclosure. This paper provides a comprehensive editorial perspective on classical COI-related issues. New insights into current COI policies and practices among European Society of Cardiology national cardiovascular journals, as derived from a cross-sectional survey using a standardised questionnaire, are discussed.

Introduction

The scientific process relies on trust and credibility¹⁻⁵. The scientific community demands high ethical standards in biomedical research and the publication of scientific content¹⁻⁵. During the past decade, disclosure of conflicts of interest (COI) (also called competing loyalties, competing interests or dual commitments) has been considered as key to guaranteeing the credibility of the scientific process⁶⁻¹⁰. Biases in design, analysis and interpretation of studies may arise when authors or sponsors have vested interests⁶⁻¹⁰. Therefore, COI should be made clear to the readers to facilitate their own judgement and interpretation of their relevance and potential implications. Authors are responsible for fully disclosing potential COI⁶⁻¹⁰. Failure to do so has shaken the confidence of the public, health professionals and scientists in the peer-reviewed medical literature⁶⁻¹⁰.

According to the International Committee of Medical Journal Editors (ICMJE) COI exist when an author (or the author's institution), reviewer or editor have financial or personal relationships that inappropriately influence (bias) his or her actions^{1,11,12}. The potential for COI exists regardless of

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whether the individual believes that the relationships affect his or her scientific judgement. Aside from financial relationships, COI may emerge from personal relationships, academic competition and intellectual passion. To prevent ambiguity, authors should be explicitly asked to state whether COI exist or do not exist. Editors should publish this information if they believe it is important in judging the manuscript^{1,11,12}.

Traditionally, biomedical journals have followed standard practices to ensure COI disclosure. Further efforts to improve transparency and protect the integrity of research, including specific recommendations and guidelines to disclose COI, have been recently proposed by many organisations¹⁻¹⁰. However, ensuring adequate reporting of all sources of financial support is becoming increasingly challenging for editors as a result of the growing complexity of funding mechanisms. Furthermore, journals have different policies about COI disclosure which can cause confusion as the same author may report different information in different journals which, in turn, might jeopardise the confidence of the readers^{11,12}. To overcome these problems, the ICMJE proposed the use of a common vehicle to report COI and, in October 2009, launched an electronic 'uniform' format for COI disclosure^{11,12}.

The editors' network of the European Society of Cardiology (ESC) is committed to promoting the dissemination and implementation of high-quality editorial standards among ESC National Societies Cardiovascular Journals (NSCJ)¹³⁻¹⁶. This report examines the issue of COI from a global and didactic perspective and provides new insights into current policies and practices among ESC NSCJ.

Conflict of Interest questionnaire and survey

To determine the status of COI and disclosure requirements among ESC NSCJ a web-based, comprehensive, structured and standardised questionnaire was specifically devised. The questionnaire was exhaustive and dealt with all relevant editorial topics related to COI. Previous publications on COI (from year 2005 to 2010) were retrieved from PubMed (Medline search terms: 'conflict of interest', 'competing interest' and 'disclosure') and carefully reviewed to identify issues relevant to COI. Items included in the questionnaire were eventually determined after an internal discussion among the nucleus members of the Editors' Network. For the sake of simplicity some related items and confusing or redundant topics were subsequently removed from the final questionnaire. Eventually, a total of 48 different items were included in the survey. Questions were grouped into three

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main areas of interest: (1) authors; (2) reviewers; (3) editors. Furthermore, additional feedback about the interest generated by the ICMJE 'uniform' COI disclosure initiative was also explicitly requested. Spaces for free text comments were made available for each main area of interest.

In June 2010 the web-based survey was sent from the ESC European Heart House to all editors-in chief of the ESC NSCJ and, in a second wave (July 2010), to the ESC Affiliated Cardiac Societies. A specific claim was made for the editor-in-chief in person to complete the survey. The invitation suggested that a meeting between the editor-in-chief, associated editors and corresponding journal staff should be organised, to discuss the results of the requested information, before returning the questionnaire. A URL link to the web-based survey was provided in the invitation letter to allow editors to enter the survey. When no answer was obtained the corresponding National Cardiac Society was contacted directly. Conventional mailing was also used as required. Up to five separate requests were sent over the year and thereafter missing journals were classified as non-responders.

The final electronic records were carefully analysed by ESC personnel at the European Heart House and by the nucleus members of the ESC Editors' Network. Attention was paid to detecting missing data, major inconsistencies or errors. Additional clarifications were requested from the corresponding editors as needed. Data are presented as global results and anonymised for individual journals.

Conflict of Interest survey results

A total of 46 journals answered the survey. Of these, 35 belong to the ESC NSCJ and 11 to journals of Affiliated Cardiac Societies. This represents a response of 83% (35/42) of known NSCJ and 58% (11/19) for Affiliated Cardiac Societies. ESC NSCJ are highly heterogeneous in objectives, format and in scientific content¹³. Accordingly, some editors declined to answer the survey because they felt that COI policies did not apply to their journals (lack of original articles, small bulletins, contents with just social news, etc) (data not shown).

Table 1 summarises the main data regarding authors' COI. Nearly half of the journals had a specific policy on author COI. In most cases, emphasis was only on financial COI and on COI directly related to the submitted work. Few journals provided definitions or examples of COI. In nearly all cases where COI were requested this policy affected all kinds of submitted articles. Written attestation by the authors was widely requested. However, procedures to verify the accuracy of authors' COI disclosure were rarely implemented, although, under special circumstances, most editors eventually contact authors to clarify COI related issues. Policies to deal with authors who fail to disclose COI were seldom in place. In most journals the editors decided when authors' COI should be published but, in some journals, this information was systematically published (table 1).

Table 2 discloses data related to reviewers ´ COI. Only onequarter of the journals had policies for reviewers ´ COI. In more than half of the journals reviewers were asked to decline the invitation to review if potential COI existed. However, recusal of reviewers due to potential COI was rare. Table 3 displays the status of editors ´ COI among the corresponding journals. In most cases, policies in this regard were not implemented. Furthermore, very few journals had policies for delegating decisions to other editors or to invited guest editors. Only one-third of the editors were familiar with the new 'Uniform Disclosure Form' ICMJE initiative when they received the survey invitation. However, 90% of the editors considered the ICMJE COI proposal of potential value to their particular journals and most of them declared that they were willing to implement it within a relatively short period of time (table 4).

Discussion

Industry-sponsored studies: friend or foe?

Research is becoming progressively complex and quality standards increasingly demanding¹⁷⁻²⁴. As a result, conducting clinical studies is becoming more expensive and the role of sponsors to ensure the viability of research projects is becoming critical. However, funding from different sources may directly affect investigators and COI may inappropriately influence their actions or judgement¹⁷⁻²⁴. Subtle biases in design and interpretation may arise when a sponsor stands to gain from the report¹⁷.

Pharmaceutical and technological companies are responsible for most important advancements in medical knowledge17-24. Patients, doctors and society as a whole benefit from this unique effort and should be grateful for the research commitment by the industry. More than 75% of all clinical trials are funded by drug companies^{25,26}. Likewise, the bulk of research has moved from academic centres to direct contracts between sponsors and private organisations^{27,28}. For-profit, contract research organisations, currently consume more than 60% of research funding from industry²⁵⁻²⁸. This could be a result of their ability to complete trials more rapidly than academic institutions^{8,25}. This phenomenon explains the gradual loss of the academic establishment's influence on the 'research agenda'25-29. Although the most cited articles continue to be generated by authors with academic affiliations, the number of trials financed exclusively by industry has increased exponentially30.

This paradigm shift has major consequences²⁵⁻²⁹. First, many scientifically relevant issues are decreasingly likely to be investigated (orphan studies). Second, many studies^{8,31,32} suggest that, in comparison with non-sponsored research, sponsored trials are published less frequently, raising the concern of publication bias²⁹. Although the industry has been blamed for preferential publication of studies with positive outcomes, this problem also affects government-funded research^{8,31-35}. To reduce the effect of publication bias, trials must be registered in publicly accessible repositories²⁹. Industry-supported research has also been associated with multiple reporting of studies with positive outcomes^{8,36}. This practice might affect results of subsequent reviews, metaanalyses and even clinical practice guidelines. Alternatively, industry sponsorship has been associated with publication delays or restrictions⁸.

Table 1 - Journals policies on authors' conflicts of interest		
1) The journal has a specific policy on authors' COI: 20/45 (44%) If yes:		
a) Described in the instruction for authors: 19/20 (95%)		
b) Described in dedicated forms required for manuscript submission: 12/19 (63%)		
2) The journal provides definition of different types of COI: 6/45 (13%)		
3) The journal provides examples of different COI: 5/45 (11%)		
4) COI are detailed by items and specified according to journal's definition: 9/45 (20%) If Yes:		
a) Financial COI are specifically considered: 8/9 (89%)		
b) Non-financial COI are specifically considered: 2/9 (22%)		
5) Editors recommend an "inclusive" policy where all potential COI (even those minor and vaguely related) should be disclosed: 13 /44 (30%)		
6) Editors favour a "restrictive" policy where only potential COI that are relevant and directly related to the submitted work, should be disclosed: 19/42 (45	%)	
7) Resources from third parties received via the authors' institution are considered: 8/42 (19%)		
8) Financial relationships involving family members are specified: 4/44 (9%)		
9) COI are just disclosed as free text directly by the authors: 29/40 (73%)		
10) Authors must submit a written attestation of potential COI: 18/44 (41%) If yes:		
a) Signature is required only from the corresponding/responsible author:10/18 (55%)		
b) Every author should sign the form: 6/18 (33%)		
11) Authors' COI disclosures apply to "all" submitted articles: 23/44 (52%)		
12) Specific procedures are followed to verify that authors' COI disclosures are accurate: 6/44 (14%)		
13) Under specific circumstances efforts are made to contact authors owing to concerns about disclosed or undisclosed COI (eg, complaint by rev readers): 27/41 (66%)	viewers/	
14) Specific policies to deal with authors who fail to disclose COI of published papers: 11/45 (24%)		
15) Specific policies to "restrict" author publication of articles with a stated COI: 10/44 (23%)		
16) The journal "publishes" all the authors' COI disclosures in all submissions: 13/40 (33%)		
17) The editors decide, on an individual basis, when authors' COI should be "published": 23/43 (53%)		
18) If authors' COI are not published, the information is made available upon request: 21/46 (46%)		

Data from the 46 journals answering the questionnaire (number of journals answering each question is presented). Not all journals responded to all questions. COI, conflicts of interest.

Table 2 - Journals policies on peer-reviewers' conflicts of interest

1) The journal has a specific policy on reviewers' COI: 11/43 (25%)	
2) Reviewers are required to explicitly state whether they have potential COI: 10/43 (23%)	
3) Reviewers must submit a written attestation of potential COI: 7/43 (16%)	
4) Frequency of request to disclose potential COI: only first invitation: 7/46 (15%); always: 10/46 (22%); yearly: 5/46 (11%)	
5) Specific procedures are followed to verify that peer-reviewers' COI disclosures are accurate: 5/44 (11%)	
6) It is suggested to reviewers that they "decline" the invitation if potential COI exists: 21/39 (54%)	
7) There is a policy for "recusal" of reviewers with a declared COI: 6/42 (14%)	
8) Peer-reviewers' COI are always published: 1/44 (2%)	
9) Editors decide, on an individual basis, when reviewers' COI should be published: 20/44 (45%)	
10) If reviewers' COI are not published, the information is made available upon request: 15/46 (33%)	
COI - conflicts of Interest.	

Table 3 - Journals policies on editors' conflicts of interest

1) The journal has a specific policy on editors' COI: 8/45 (18%)

2) Editors must submit a written attestation on potential COI: 6/8

3) Frequency to disclose potential COI: only when appointed: 5/6; yearly: 1/6

4) Specific procedures are followed to verify that editors' COI disclosures are accurate: 3/8

5) There is a policy for "recusal" of editors with a declared COI: 3/8

6) There is a policy for "delegating" handling decision to other (invited) editors: 4/7

7) Editors' COI are always published: 2/7

8) If Editors' COI are not published, the information is made available upon request: 5/6

COI - conflicts of Interest.

Table 4 - Feedback on the ICJME "uniform disclosure form" initiative

1) Editor was familiar with the ICMJE initiative "before" receiving the survey: 15/42 (36%)	
2) The initiative was considered of value to the "particular" journal: 38/42 (90%)	
3) Editors willing to implement the initiative within 3 years: 31/46 (67%)	
4) Main perceived advantages of the initiative (top 5):	
a) Provides a common "uniform" platform for all journals: 42	
b) All relevant information about COI is nicely presented and explained: 18	
c) Allows easy update of the requested information: 12	
d) Facilitates sequential submissions (if the paper is rejected by a journal): 11	
e) Allows archiving of the requested information: 10	
5) Main perceived disadvantages of the initiative (top 5):	
a) Increases the complexity of the submission process: 29	
b) Publishing in the journal all potential COI of every author is not feasible: 17	
c) Verification of the disclosed/undisclosed COI remains impossible: 17	
d) Increases editorial bureaucracy: 15	
e) Too detailed and exhaustive: 14	
f) The meaning of some potential COI (travel grants to meetings, etc) might be perceived differently by American and European authors/journa	als/readers: 14

COI - conflicts of interest; ICMJE - International Committee Medical Journals Editors.

Finally, industry-sponsored trials have a three- to fourfold greater probability of obtaining favourable results than their non-sponsored counterparts^{8,31-33,37,38}. Interestingly, all these differences do not appear to be related to inferior methodology in industry-financed trials. Bekelman et al⁸ performed a systematic review of 1140 original studies demonstrating a statistically significant association between industry sponsorship and pro-industry conclusions. The study showed that financial relationships between industry, scientific investigators and academic institutions were widespread and that COI arising from these ties might significantly influence biomedical research. It was considered possible, however, that given limited resources, industry became selective enough to fund only potentially 'wining treatments'8. More recently, in a provocative study that included 324 cardiovascular trials published in the three medical journals with the highest impact factors, Ridker and Torres³⁹ analysed the probability of positive results according to the source of finance. Industry-financed trials more frequently obtained results favourable to drug or device than those financed by not-for-profit organisations. This was particularly evident in trials using surrogate end points³⁹.

Previous editorial surveys on conflicts of interests

In 1997, Krimsky and Rothenberg found that only 16% of journals across all scientific disciplines had COI policies⁴⁰. In addition, existing editorial policies were often not readily available to submitting authors⁴¹. However, a substantial increase in the prevalence of COI disclosure occurred over time. Initially, most journals only required authors to disclose potential COI. Subsequently, journals encouraged authors to sign COI disclosure statements. If signed statements are not obtained from all authors, it remains possible that only the first author has reviewed the COI policy of the journal, leading to

systematic under-reporting⁶. Interestingly, some journals that theoretically adhere to ICMJE recommendations do not have clear COI policies when critically analysed⁶. However, the journals with highest impact factors are more likely to have published COI policies^{6,41}.

To better characterise COI policies, in 2006, Cooper et al7 performed a cross-sectional web-based survey of a convenience sample of 135 editors of peer-reviewed biomedical journals. The survey included questions about the existence of specific policies for authors, peer reviewers and editors, specific restrictions based on COI and the public availability of these disclosures. Ninety-three per cent of journals reported having an author COI policy but only 82% of these required a written attestation. While 77% reported collecting COI information on all author submissions, only 57% published all author disclosures. Eleven per cent of journals reported restricting author submissions based on COI. A minority of journals reported having a policy on reviewers' COI (46%) or editors' COI (40%); among these, 25% and 31% of journals stated that they require recusal of peer-reviewers and editors if they report a COI. Only 3% of respondents published COI disclosures of peer reviewers and 12% published editors' COI disclosures, while 11% and 24%, respectively, reported that this information was available upon request. In this survey, estimates were directly provided by the corresponding editors but no information was taken directly from the actual publications⁷.

Other studies were more critical and analysed the information available directly from the journals yielding a different perspective. Interestingly, some of these studies focused on COI disclosures in cardiology. Weinfurt et aI^{42} searched in PubMed for English-language articles published in 2006 that provided evidence or guidance about the use of coronary artery stents. As a premise, it was considered reasonable to expect that authors ' COI were disclosed in similar ways in articles on the same topic published around the same time. A total of 746 articles with 2985 authors published in 135 journals, were analysed. Articles were examined to determine whether authors' financial interests were consistently reported. Eighty-three per cent of the articles did not contain disclosure statements for any author, 72% did not identify any funding source and only 6% of authors had an article with a disclosure statement. Additionally, author disclosure statements varied significantly from article to article. Notably, articles published in journals that endorsed the ICMJE guidelines were more likely to have disclosure statements for all authors. Similarly, articles in which all authors had disclosure statements were more likely to appear in journals with higher impact factors (median impact factor 11.6 vs 3.1). These investigators concluded that even rarely disclosed financial interests were not disclosed consistently, suggesting that there are problems with transparency in the cardiac literature with potential implications for patient care. Data suggested that the observed inconsistencies were a result of both journals' policies and authors' behaviour⁴². Many would argue that an inconsistent system of disclosure is more harmful than no disclosure at all.

More recently, Blum *et al*⁶ analysed COI policies of the top 10% of medical journals according to their impact factor. Instructions to authors and manuscript submission documents

were electronically searched for phrases relating to COI using a standardised form. A total of 262 journals were analysed. Of these, 85% requested COI disclosure in the instruction to authors and an additional 4% in other submission documents. Links to specific policies on COI were found within the instruction for authors in only 25% of journals. Although 77% of journals provided definitions on COI, signed disclosure statements were required by only 54% of journals. Travel grant disclosure was requested by 12% of journals. Interestingly, journal category influenced COI disclosure requirements. This request was higher for internal medicine journals than for specialty journals, for journals in the top quartile according to impact factor and for journals endorsing the ICMJE guideline⁶.

Our data on ESC NSCJ COI policies and disclosure requirements suggest that this topic remains controversial and is not uniformly addressed by journals. We relied on selfreporting by journal editors. However, given the anonymous nature of our survey, we do not believe there is any reason to question the accuracy of their reports.

ICMJE Uniform Disclosure Initiative

In October 2009 the ICMJE proposed an electronic 'uniform' format for COI disclosure¹¹. Four main areas were addressed: authors' associations with entities that supported the submitted manuscript (indefinite time frame), associations with commercial entities with potential interest in the general area of the manuscript (time frame 36 months), financial association of their spouse and children and, finally, nonfinancial associations potentially relevant to the submitted manuscript. Each author should disclose resources received directly, or via the corresponding institution, which were used to complete the investigation. Additionally, all sources of revenues relevant to the submitted work paid by any third party before the submission and any relevant long-term relationship, even if ended, should be disclosed. Financial revenues should be disclosed regardless of the amount. A guide for authors and a completed sample was provided in PDF format. The reporting form was made available at www.icmje.org/coi disclosure.pdf to be downloaded, completed and sent to the journal¹¹. The form can be saved and used again-adding updated information-for a new manuscript. Each author should submit a separate form and is responsible for the accuracy and completeness of the submitted information¹¹.

The ICMJE allowed a period of beta-testing until April 2010 when submission of suggestions was encouraged¹². As a result of the feedback comments, the form was modified. Concerns raised were mainly technical and ethical regarding inquiries about non-financial associations. Accordingly, clarity was enhanced for non-native English speakers (including a glossary of terms). Additionally, owing to the difficulties detected in defining non-financial COI, this section was also modified to be less intrusive (currently presented as an open query) while keeping its locus. Finally, queries about COI in family members were removed from the updated form¹².

The idea behind this initiative was to facilitate and standardise uniform disclosure of COI and to make the process easier for authors and less confusing to readers. This uniform 'universal' vehicle allows authors to save the electronic forms that can be updated as needed and eliminates the need for reformatting disclosure information for each new submission. Finally, this will eliminate apparent inconsistencies in the report of COI as a result of different journal policies^{11,12}.

Additional editorial perspectives regarding Conflicts of interests

Concerns about COI are not new. In his play Le Malade Imaginaire Molière satirised the relationship between the doctor and the druggist as they exploited the hypochondriac Argan for their own economic benefit²¹. Biomedical journals are particularly vulnerable to COIrelated problems. As Richard Smith, the former editor-inchief of the British Medical Journal, stated "the quality of the journal will bless the quality of the drug''43. Therefore, it is easy to understand the extra scrutiny of industrysponsored research by reviewers and editors³³. Some editors require that authors of industry-associated research have their data analysis confirmed by a different source and others even ask for the raw data to be analysed by an independent academic statistician^{20,33}. Some editors do not commission editorial or review articles from authors with potential COI as these may blur objectivity^{19,44,45}. These pieces rely especially on interpretation and objectivity. However, assessing the importance of COI in opinion articles may be challenging. The dilemma is obvious: those authors with the greatest expertise are usually those with clearer potential COI⁴⁴. Last, but not least, editors should also avoid the existence of marketing masquerading as education in their journals. Of note, industry support accounts for most of the funding of accredited continuing medical education (CME) programmes¹⁹. Some suggest that CME has become an insidious vehicle for the aggressive promotion of drugs and medical devices (even with offlabel indications). Others consider CME a marketing machine and a lucrative process-with concealed payments to doctors-that undermines the independence of medical societies19,46.

Sometimes medical literature is produced in obscure ways. Professional writers, hired by the industry, may act as 'ghostwriters' to produce papers for which credibility will be subsequently increased by inviting academic physicians to act as a 'guest author'³³. Unfortunately, these guest authors rarely make significant contributions to the design, analysis and data interpretation³³. Conversely, many deserving industry scientists may be removed from the byline directly by the sponsors. Affiliation with a drug company should not be viewed as evidence of wrongdoing because, as previously emphasised, most important medical discoveries are generated by the pharmaceutical industry.

Journals typically use two main weapons to deal with COI: disclosure and exclusion⁴⁴. However, as discussed, policies for COI vary widely among editors. Disclosure should not be considered as a panacea to deal with COI but, from an editorial perspective, casting daylight on the relationship between doctors and pharmaceutical companies represents the best way to untie this Gordian knot⁴⁴. Editors should decide whether to publish the information disclosed by authors about potential COI. Editors have the 'discretion' to decide if the potential COI is important enough to be revealed⁶. However, it is unclear how editors decide whether to publish disclosures. Moreover, the extent to which such "secret disclosure" may affect the integrity of the journal or the published work remains unknown7. Some journals systematically disclose all reported potential COI⁶. However, this strategy consumes major editorial resources and has been blamed for introducing prejudice in the judgement of manuscripts by readers and for tainting the full content of the article. The value of an exhaustive systematic disclosure of all potential COI remains highly controversial. This practice does not guarantee that the readers will be able to determine whether COI are meaningful or not. Indeed, this practice may be misleading because bias may be perceived when not present and overlooked when relevant. Although COI do not imply any improper behaviour, a McCarthyesque reaction to the term would wrongly support the presumption of guilty until proven innocent^{23,33,47}. The pendulum is swinging towards increased oversight, but responsible editors should ensure that their readers enjoy the sweet spot in the middle, at least for the time being.

Editors are very busy and cannot conduct a forensic check on every submitted trial. Our survey is consistent with prior reports⁷ suggesting that almost no journal has a formal policy of 'verification' of COI disclosures⁷. Editors are not policemen but, at the same time, it becomes clear that some action is expected when misconduct is detected. Many times editors behave as a 'toothless watchdog' regarding COI. Alternatively, other editors suggest that allegation of underreported COI should be rigorously investigated⁹. However, editors do not have the resources required to conduct a full investigation to clarify elusive and multifaceted COI-related issues. In most cases their final role is just to raise the issue with the corresponding dean. Notably, formal 'corrections' about COI are rarely published.

All authors of this review support the importance of disclosing potential COI when a scientific paper is submitted for consideration to any ESC NSCJ. Moreover, when in doubt it is better to err on the side of over-disclosure and let the editors make the decision. The ICMJE Uniform Disclosure Initiative represents a milestone in this regard and paves the way for further transparency in biomedical publishing^{11,12}. Therefore, we encourage ESC NSCJ to progressively adapt their policies in order to be able to adhere to this editorial proposal. However, in this journey, some potential caveats should be carefully heeded. First, exhaustive disclosure of multiple, minor and vaguely related potential COI might 'dilute' the relevance of real major COI that most readers would be interested to know. Second, some relevant institutional COI are not openly disclosed to all corresponding researchers and, accordingly, these may be impossible to declare. Third, many major journals frequently allow senior international opinion leaders with clear (definitive and well-known) COI to systematically declare the absence of COI in their papers. Young scientists may perceive this as confusing and disturbing while others will regard this inconsistency as evidence that the

whole process is completely hypocritical. Finally, major sociocultural differences among countries should be also taken into account. Most European doctors (including most editors in the byline of this article) frequently receive occasional travel grants from diverse pharmaceutical companies to attend medical society meetings and, up to now, these have not been systematically disclosed as potential COI. The situation, however, is guite different on the other side of the Atlantic where such practices have been considered inadequate or even misconduct for a number of years. In North America, direct support (including travel) of CME programmes by industry is prohibited while this practice is considered acceptable in most European countries¹⁹. NSCJ editors should be alerted to the need to deal with these vexing problems in their respective journals in line with local policies and practices⁴⁸. Progressive steps should be taken to ensure a systematic approach to these COI-related editorial issues. However, commonsense and reason should prevail in order to achieve a balance between the pragmatic and utopian.

Final Considerations

Consumers of medical scholarship expect a reliable system of disclosure, in which journals and authors make disclosures appropriately and consistently. There is a stigma surrounding the reporting of COI that should be progressively overcome. The ESC has recently defined a general policy for COI⁴⁹. This review provides another framework to better understand COI from an editorial perspective. This survey on ESC NSCJ COI policies and disclosure requirements confirms that this topic is poorly—and not uniformly—dealt with by journals. Further actions are required to increase awareness of the importance of COI disclosure and to promote policies aimed at enhancing transparency in biomedical research.

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