Social networks and scientific rigor: A new battle on the horizon?



Redes sociales y rigor científico: ¿una nueva batalla en el horizonte?

The divulgation of scientific research is essential. Peer review by medical journals has become the gold standard in recent decades for ensuring the quality and adequacy of the articles that are published. This process involves the independent and critical evaluation of an article by expert peers.¹

In this context, the impact factor (IF) has been a measure of the importance of a scientific journal, based on the citations received by the articles it publishes. The IF is a tool used to compare journals and assess the relative importance of a given journal with respect to others within the same scientific field. Specifically, the IF of a journal measures the mean number of times the articles published in it have been cited in the course of a given year.² However, entry into

different social networks (SNs) has been made as part of the strategic objectives of many scientific publications. The reason behind this is fundamented on a novel reality: the new role of scientific interactivity in the biomedical field, the influence of the visibility of a journal on the web in order to increase its IF, and the advantages afforded for promoting the internationalization of the publication.³

However, scientific rigor - as measured by the IF of a journal - and repercussion in the SNs (taking Twitter® as an example), do not seem to match very well (Table 1).

Obviating (perhaps needlessly so) payment for publication, do we seek rigor? Divulgation? The combination of both, if possible...?

In the case of researchers, a preference is observed for choosing scientific journals where the editorial product forms part of virtual communities. In other words, SNs represent an important window for divulgation among academics and diffusion between specialists and their audiences.⁴

But we must be careful when "clicking" on "re-send" and "likes": the technique used by Goebbels as head of

Table 1 The main journals in Intensive Care Medicine, ordered by impact factor in 2021, Twitter® account, and number of followers updated on 5 January 2023.

Journal	Impact factor 2021	Twitter account	Followers (January 2023)
Lancet Respir Med	102.6	@LancetRespirMed	23.7 thousand
Intensive Care Med	41.8	@yourlCM	55.3 thousand
Am J Respir Crit Care	30.5	<pre>@ATSBlueEditor</pre>	16.7 thousand
Crit Care	19.3	@crit_care	50.2 thousand
Ann Intensive Care	10 3	@of_aic	1827
Chest	10 3	@accpchest	40 thousand
Crit Care Med	9,3	<pre>@CritCareMed</pre>	47.1 thousand
J Intensive Care	7.5		
Anaesth Crit Care Pain Med	7.0	@AnesthCritCare	14.1 thousand
Resuscitation	6.3	@ResusJournal	3194
Crit Care Resusc	5.7	@CCRJournal	606
J Neurotraum	4.9	@J Neurotrauma	558
J Crit Care	4.3		
Pediatr Crit Care Med	4.0	@PedCritCareMed	14.6 thousand
Semin Resp Crit Care	3.9		
Crit Care Clin	3.9	<pre>@CritCareClinics</pre>	5963
J Trauma Acute Care Surg	3.7	@JTraumAcuteSurg	22.4 thousand
Shock	3.5	@ShockJournal	783
Neurocrit Care	3.5	@NeurocritCareJ	6162
Minerva Anestesiol	3.4		
Curr Opin Crit Care	3.4		
Aust Crit Care	3.3	@AUS_CC	2537
J Cardiothor Vasc Anesth	2.9	@JCVAonline	7025
J Intensive Care Med	2.9		
Med Intensiva	2.8	@intensiva_med	3806
Injury	2.7		
Burns	2.6	@BurnJournalClub	1033
Resp Care	2.3	@respcare	12.5 thousand
Am J Crit Care	2.2	@ajccme	5836
Crit Care Nurse	2.2	@CCNme	2955
J Burn Care Res	1.8		
Anaesth Intensive Care	1.5	@AlCjournal	_
Ther Hypot Temp Manage	1.4	,	
J Trauma Nurs	0.9	@IJOTN	204
Anasth Intensive Notf Anasthes	0.7	-	
Anasth Intensive Med	0.6		

propaganda of the Nazi Party and later of the Third Reich can be summarized in a single phrase attributed to him: "A lie, if repeated a thousand times, becomes the truth...".5

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Conflict of interest

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Alejandro González-Castro $^{\rm a,b,*}$, Raquel Ferrero-Franco $^{\rm c}$, Elena Cuenca Fito $^{\rm a}$

- ^a Servicio de Medicina Intensiva, Hospital Universitario Marqués de Valdecilla, Santander, Spain
- ^b Grupo Internacional de Ventilación Mecánica (WeVent), Hospital Universitario Marqués de Valdecilla, Santander, Spain
- ^c Servicio Cántabro de Salud, Hospital Universitario Marqués de Valdecilla, Santander, Spain
- * Corresponding author. *E-mail address*: e409@humv.es (A. González-Castro).

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