Presented at 2025 European Meeting of ISMPP; Presenting author: January 27–29 2025; London, United Kingdom. Emmanuel Ogunnowo, emmanuel.ogunnowo@hcg-int.com

Being seen: using journal-reported metrics to highlight utilisation of supplementary materials in oncology journals

Emmanuel Ogunnowo,¹ Kymberleigh Frankovich,² Tabasum Mughal,³ Michael Hobert,² Sam Cavana⁴ HCG, Manchester, UK; ²HCG, New York, USA; ³HCG, London, UK; ⁴Taylor & Francis Group, London, Uk



> Introduction

- Supplementary materials are intended to provide a reader additional information which complements the data presented within the main text of an article, particularly in journals which have strict limits on the number of display items permitted; their use is nearly ubiquitous in biomedical articles, including those reporting on clinical trial data¹
- Although utilisation of supplementary materials has been reported as high based on surveys of authors, peer reviewers and readers,² there remains concerns regarding their overuse/misuse as a repository for 'data dumping'³

> **Objective**

 To explore real-world utilisation of supplementary materials using journal-reported metrics

> Methods

- Using Sylogent Journal Selector (an Anju Software) Company), 12 oncology-focused journals across a range of impact factors were selected
- Metrics regarding main article and supplementary file views were collected from journal websites for 'Primary' or 'Clinical Trial Research' articles published between 1 January 2022 and 8 October 2024
- Articles without supplemental files, or those without supplemental view metrics available, were discarded from the analysis

> **Results**

Availability of supplementary file metrics by journal impact factor



*We originally sought to explore oncology-focused journals, but given the limited availability of metrics, we investigated additional journals from publishers whose journals provided metrics. Hence, Annals of Medicine was added to our analysis, even though it is not strictly oncology focused.

metrics available

Number of articles with supplementary files and

[†]Potential outlier: one article was published on 30 September 2024 and at the time of data collection only had accumulated 20 views; if excluded, mean data for Future Oncology is 4.8% with a range of 0.4–12.4%. As of 9 January 2025, the article had accumulated 465 views with 76 supplementary material views (16.3%).

[‡]Potential outlier: one article supplementary file was reported as having more views (1863) than the main article (1069); if excluded, mean data for Annals of Medicine is 8.3% with a range of 2.6–19.1%. As of 9 January 2025, the article had accumulated 1263 views with 1881 supplementary material views (148.9%).



References

1. Pop, M, Salzberg, SL. Use and mis-use of supplementary material in science publications. BMC Bioinformatics 2015; 16: 237. doi: 10.1186/s12859-015-0668-z

2. Price A, et al. Role of supplementary material in biomedical journal articles: surveys of authors, reviewers and readers. *BMJ Open.* 2018; 8(9): e021753. doi:

10.1136/bmjopen-2018-021753

3. Borowski C. Enough is enough. J Exp Med 2011; 208(7): 1337. doi: https://doi.org/10.1084/jem.20111061

Acknowledgements

The authors wish to thank Steven Graybow of HCG, New York, USA, for their editorial support; Dan Cragg, Evan Oto, Jennifer Park and Paulo Estriga of HCG for their creative support, and Maxine Cauton of HCG, Manila, for providing medical writing support.

Disclosures

E Ogunnowo, K Frankovich, T Mughal and M Hobert are employees of HCG; S Cavana is an employee of Taylor & Francis Group.

Date of preparation January 2025.

> Conclusion

 Our analysis highlights the low utilisation of supplementary data in select oncology journals where the metrics are available

• Furthermore, our data underscore the need for broader access to journal-reported metrics to better understand the utilisation of publication components, such as supplementary materials, to support strategic publication planning

> Recommendations

Publications professionals should encourage stakeholders to consider standalone secondary manuscripts, to avoid important data being overlooked when presented in the supplementary appendix

Publishers should provide information on where the supplementary files will be hosted, whether other display options are available, and metrics on utilisation to further guide these discussions