

# Landscaping the terminology of accessible language document types

Sarah Griffiths<sup>1</sup>, Ama Appiah<sup>1</sup>,  
Adeline Rosenberg<sup>1</sup>, John Gonzalez<sup>2</sup>,  
Slávka Baróniková<sup>2</sup>

1 Oxford PharmaGenesis Ltd, Oxford, UK  
2 Galápagos NV, Mechelen, Belgium

doi: 10.56012/cbx11493

## Correspondence to:

Sarah Griffiths

sarah.griffiths@pharmagenesis.com

## Abstract

There are three main types of accessible language documents that medical writers and medical publications professionals may work on. These are regulatory lay summaries, publication-associated plain language summaries (PLS), and standalone plain language summaries of publications (PLSPs). Although these document types have different purposes and audiences, they are often confused because of the similar names. Here, we outline the main differences between the three document types and present the different names used to refer to lay summaries across 58 pharmaceutical companies, totalling 22 names. We also show examples of the different literacy levels used in lay summaries and publication-associated PLS. Medical publications professionals need to be aware of the differences between these accessible language document types and the importance of being precise when discussing these. Standardisation of terminology could potentially help to avoid confusion.

## Introduction

Accessible language document types are central to achieving improved transparency in reporting clinical trial data in regulatory documents and publications. Efforts for improved transparency come as the pharmaceutical industry and adjacent industries are increasingly recognising the value of patient and public involvement and non-expert engagement, as well as the role accessible language plays in

enabling dialogue between stakeholders.<sup>1</sup> With this in mind, there are three main types of accessible language documents, among others, that medical writers and medical publication professionals may generally work on. These are:

- Regulatory lay summaries<sup>2</sup>
- Publication-associated plain language summaries (PLS)<sup>3</sup>
- Standalone plain language summaries of publications (PLSPs).<sup>4</sup>

These three different document types each have their own distinct purpose, scope, and audience; however, there is limited clarity regarding the terminology used when referring to these documents.

### Regulatory lay summaries: a deep dive

Accessible disclosure of clinical trial results to trial participants through the regulatory sharing of Lay Summaries – either direct to participants or through posting to online portals – is of great value to participants and those involved in medical decision-making as well as pharmaceutical companies and other research sponsors.<sup>5</sup> Previous work highlights the demand from participants for the timely and accessible communication of clinical trial results.<sup>6-8</sup> This is a move that has the potential to improve health literacy, empower patients, and build public trust, particularly in the pharmaceutical industry.<sup>9,10</sup> Simultaneously, communication with patients in this way may promote participant engagement, recruitment, enrolment, and retention in clinical trials.<sup>11</sup> The development of lay summaries is mandated by Article 37 of the EU Clinical Trials Regulation 2014/536, which indicates that “irrespective of the outcome of a clinical trial, within one year from the end of a clinical trial in all Member States concerned, the sponsor shall submit to the EU database a summary of the results of the clinical trial... accompanied by a

summary written in a manner that is understandable to laypersons.”<sup>2</sup> Although this regulation was released in 2014, it came into effect in January 2022 after the launch of the EMA’s Clinical Trials Information System, an online portal designed to aid the dissemination of such summaries.<sup>12</sup> Official Good Lay Summary Practice (GLSP)<sup>13</sup> was published in 2021, by the GLSP Roadmap Initiative,<sup>14,15</sup> co-led by the European Federation of Pharmaceutical Industries and Associations (EFPIA) and the European Forum for Good Clinical Practice. Despite recognition of the development of lay summaries as best practice, explicit legislation has not yet been introduced beyond the EU. For instance, although the inclusion of lay summaries is not specified in the FDA Amendments Act,<sup>16</sup> which legislates the disclosure of clinical trial results in the USA, the FDA encourages the production of “plain language summaries” of aggregate results and has provided draft guidance for voluntary development.<sup>17</sup> In the UK, the Health Research Authority, a division of the National Health

Service, “asks” research sponsors to submit “plain language summaries” as part of final research reports that are published on the Health Research Authority website.<sup>18</sup> Additionally, the UK’s National Institute of Health and Care Research requires “plain English summaries”, in the style of publication-associated PLS, to be submitted alongside research proposals.<sup>19</sup> Despite legislation and guidance from these regulatory bodies, previous research has indicated that the accessibility of lay summaries to patients is lacking and initial compliance with the EU Clinical Trials Regulation has been low, though this may improve with the legislation now in effect.<sup>7,20</sup> Furthermore, lay summaries have been referred to using varying terminology across the industry, leading to a lack of consistency in official communications and potentially to confusion among lay and non-

Regulatory lay summaries have been referred to using varying terminology across the pharmaceutical industry, leading to a lack of consistency in official communications and potentially to confusion among lay and non-expert readers.

Table 1. Document distinctions

	Regulatory lay summaries	Publication-associated PLS	Standalone PLSPs
<b>Purpose and audience</b>	Mandated summaries of clinical study reports for study participants (typically a target reading age of approximately 9–13 years)	Brief, jargon-free summaries, primarily of peer-reviewed publications and occasionally congress materials, for broad non-specialist readers (typically a target reading age of approximately 14–18 years)	Full-length, standalone secondary manuscripts that “translate” previously published primary manuscripts into plain language with visual formatting, often targeted at a patient audience (typically of variable reading ages)
<b>Scope</b>	Reports on one study only, with a focus on primary endpoints and safety	Summarises the content of the associated manuscript	“Translates” one primary manuscript and may include the patient voice and patient authors for a wider scope
<b>Location</b>	Intended to be hosted on the central CTIS portal, <sup>12</sup> but are currently hosted in a variety of places including sponsor websites and other portals	Hosted with the associated publication, either embedded within the manuscript or in the supplementary materials. Text-based and concise PLS can be indexed on PubMed alongside the abstract when tagged correctly	Currently published only by Future Science Group and Becaris Publishing journals
<b>Guidelines and criteria</b>	Outline mandated in Annex V of the EU CTR 2014/546, <sup>2</sup> with official guidance in the Good Lay Summary Practice <sup>13</sup>	Formats vary with author and journal preferences, but best practice and convention encourage text-based and concise PLS that are peer reviewed alongside the manuscript, at a minimum <sup>3,24–26</sup>	Author guidelines available from Future Science Group <sup>4,27</sup>

Abbreviations: CTIS = Clinical Trials Information System; EU CTR = European Union Clinical Trials Regulation ; PLS = plain language summaries; PLSP = plain language summary of publication

expert readers. In this article, we have chosen to align with the terminology used in the official GLSP guidance.<sup>13</sup>

### Objective

The aim of this landscaping analysis was to outline the variation in terms used specifically to refer to lay summaries across a selection of pharmaceutical companies, with consideration given to geographic region, and to provide clarity on terminology and distinctions between the three accessible language document types.

### Methods

As a sample selection of the pharmaceutical industry, we performed a landscaping analysis by identifying 38 full and affiliate corporate members of EFPIA<sup>21</sup> and 43 pharmaceutical companies that were ranked in the Bioethics International 2021 Good Pharma Scorecard for transparency and data sharing.<sup>22,23</sup> Accounting for overlap of pharmaceutical companies listed in

both sources, this gave a final sample size of 58. We then conducted a manual search of official company websites for mentions of lay summaries and recorded the variations of terminologies in use. This search was performed on August 10, 2022.

To aid in clarifying distinctions between accessible language document types, we used readabilityformulas.com to compare the readability of similar-length excerpts of an example lay summary and an example PLS for comparison. These two examples were selected from within oncology, based on the authors’ involvement in the drafting and development of the documents.

### Results

#### Document distinctions and example readability comparisons

Clarification of document distinctions is provided in Table 1.<sup>2–4,12,13,24–27</sup> As an example of the differences in readability and target reading

ages between lay summaries and PLS, selected excerpts<sup>28,29</sup> showed the readability consensus was 12–14 years old for the lay summaries and 18–19 years old for the PLS (Figure 1,<sup>28</sup> Figure 2<sup>29</sup>).

#### Regulatory lay summary terminology landscaping

The landscaping analysis revealed that among the 58 pharmaceutical companies whose websites were searched, 56.9% (n = 33) had information on lay summaries publicly available on official websites, whereas 43.1% (n = 25) did not. Of those with publicly available information, there were 22 different terms for lay summaries in use, with 15 companies using two or more different terms for the same document type (Table 2). The two most common terms in use were “plain language summary”, with 12 instances of companies using the term to refer to lay summaries, followed by “Lay Summary”, with eight instances of use. Additionally, the terms

PLS and standalone PLSP may be used interchangeably.

When considering the geographic region of each pharmaceutical company’s global headquarters, there appeared to be greater online transparency of lay summary practices among European companies (regardless of EU membership status) and Asian companies, compared with North American companies. There were also differences in terminology preferences, with “plain language summary” being the term most commonly used by North American and Asian companies, “lay summary” by European companies in EU member countries, and “clinical trial results” by European companies in non-EU member countries. European companies in EU member countries exhibited the greatest variation in terms used for lay summaries (Table 3).

**Discussion**

Our results reveal a considerable lack of clarity and precision in terminology relating to communications around lay summaries, demonstrating a need for standardisation. The lack of definition and precise description may be particularly problematic and lead to confusion for patients, participants, and non-expert readers when trying to find lay summaries online. Additionally, many of the individual company websites, portals, and databases for indexing their lay summaries were not user-friendly. Some were not clearly labelled and some took multiple clicks to reach the final documents, creating a long and

“ Researchers are looking for a better way to treat cancer. Before a drug can be approved for patients to take, researchers do clinical studies to find out how safe it is and how it works.

The study drug, AZD4635, is being developed to treat some cancers. In this study, the researchers compared a capsule form of AZD4635 with a liquid form of AZD4635, both taken by mouth. They wanted to learn how the different forms of AZD4635 acted in the blood of healthy participants. The participants also took a drug called lansoprazole. Lansoprazole is a medicine that is normally used to help with acid reflux or heartburn. It changes the acidity of the stomach and may affect how much AZD4635 gets into the blood.

The main questions the researchers wanted to answer in this study were:

- Was the amount of AZD4635 in the participants’ blood similar when given in each form?
- What medical problems did the participants have during the study?

The answers to these questions are important to know before other studies can be done that help find out if AZD4635 improves the health of people with cancer.

”

Figure 1. Visual example and excerpt of a lay summary<sup>28</sup>

Table 2. Terms for lay summary in use

Term for lay summary	Number of pharmaceutical companies using the term	Term for lay summary	Number of pharmaceutical companies using the term
Plain language summary	12	Study results summary	1
Lay summary	8	Plain language summary of trial results	1
Layperson summary	3	Plain language summary of clinical trial results	1
Clinical trial results	3	Plain language summary of results	1
Clinical trials results summaries	2	Plain language study results summary	1
Clinical study results	2	Plain language clinical result summary	1
Trial results summary	2	Lay language summary	1
Lay summary results	2	Clinical trial summary	1
Summary of clinical trial results for laypersons	2	Plain language results	1
Lay readable summary	1	Clinical results summary	1
Trial summaries for patients	1	Summary of clinical study results	1
Summary results in plain language	1	Lay patient summary	1
Summary of clinical trial results	1		



Figure 2. Visual example and excerpt of a PLS<sup>29</sup>

sometimes complicated process to find the relevant information. Although the manual searches of company websites yielded 43.1% (n = 25) with no mention of lay summaries (or related terms) publicly available online, we are

personally aware of at least two of these companies that are distributing lay summaries directly to their clinical trial participants. This indicates unclear online transparency policies that do not necessarily reflect real-life practices;

The official Good Lay Summary Practice guidelines acknowledge this confusion in terminology and advise sponsors to distinguish between these document types, indicating that “plain language summary” refers specifically to publication-associated PLS and not regulatory lay summaries.

it is unknown how many of the other companies with no publicly available information online fall into this same category. With regard to variations by geographic region, we believe some of these may possibly be attributable to cultural differences in the connotations of the words “lay” and “plain” and to potential interpretations of “lay” being considered condescending or patronising; we are anecdotally aware of examples of this.<sup>30</sup> Such variation may also be related to only one geographic region (European, EU member countries) having explicit legislation that requires and outlines Lay Summaries, whereas others have only guidance or even no input from regulatory bodies.

The limitations of our analysis firstly include the manual aspect of the search, which may have introduced human error. Although automation would have systematised the methods, the lack of consistent language referring to Lay Summaries and the different locations across pharmaceutical company websites meant that human interpretation was needed in the search. Secondly, the selection of the methods of the sample cohort likely introduced biases and may not be representative of the wider industry; EFPIA member organisations are known to have improved rates of results reporting compared with the industry as a whole.<sup>31</sup> Further, results reporting of unregistered epidemiological and observational studies and medical devices are also not represented by this cohort. Thirdly, the limited global representation of the sample selection did not allow for robust conclusions to be drawn for geographic regions beyond Europe and North America and focused on English language lay summaries. Future analyses should include a larger sample size with greater

**Table 3. Variation in terminology by geographic region**

Geographic region	Number of pharmaceutical companies	Number of pharmaceutical companies with lay summary information publicly available	Number of different terms for lay summaries in use	Most common term for lay summaries in use (count)
North America	24	10 (41.7%)	11	Plain language summary (4)
Europe (EU member countries)	18	12 (66.7%)	13	Lay summary (5)
Asia	8	6 (75.0%)	6	Plain language summary (4)
Europe (non-EU member countries)	6	4 (66.7%)	7	Clinical trial results (2)
Middle East	1	1 (100%)	1	Plain language summary (1)

representation from outside Europe and North America, as well potentially as broadening the scope of the sponsors to include biotech companies and academic funding bodies.

Overall, due to the sheer range of terminology in current usage, there is likely substantial confusion regarding accessible language document types, leading to overlapping and ambiguous language to refer to different, non-interchangeable documents. The official GLSP guidelines acknowledge this confusion in terminology and advise sponsors to distinguish between these document types, indicating that “plain language summary” refers specifically to publication-associated PLS and not regulatory Lay Summaries. It is also acknowledged that these distinctions only exist in reference to document types, whereas the adjectives “lay” and “plain” as they relate to the level of accessibility of language are considered to be synonymous.<sup>13</sup> Medical writers and medical publications professionals need to be aware of these differences and ensure precision when referring to regulatory lay summaries, publication-associated PLS, and standalone PLSPs to avoid further confusion. The medical writing and medical publications profession – including EMWA and other medical writing and publication professional societies, organisations, regulators, and pharmaceutical trade groups – is in a strong position to educate,

**Medical writers and medical publications professionals need to be aware of these differences and ensure precision when referring to regulatory Lay Summaries, publication-associated PLS, and standalone PLSPs to avoid further confusion.**

explain, and encourage accuracy of terminology. Regulatory bodies such as the EMA could also provide more explicit guidance and communications to streamline terminology. Ultimately, we believe collaborative efforts from across the pharmaceutical industry and adjacent industries, such as medical communications and medical devices, are needed to standardise terminology in order to aid clarity and comprehension and to promote appropriate usage.

#### Acknowledgements

This analysis was originally presented in a poster at the 53rd EMWA Conference, May 3–7, 2022, in Berlin, Germany. It is available online: <https://doi.org/10.6084/m9.figshare.19635312.v4>. These results were also presented at the EMWA MedComms Special Interest Group Meet & Share meeting on October 19, 2022. These slides have been included in the supplementary materials. The authors thank Chris Winchester of Oxford PharmaGenesis; Andrea Rossi, freelance consultant; Ellie Challis of PTENUKI Patient Group; Lisa Chamberlain James of Trilogy Writing & Consulting; Priti Nagda of Taylor & Francis Group; and Art Gertel of MedSciCom for reviewing and providing feedback on a version of this article.

#### Disclaimers

The opinions expressed in this article are the authors’ own and are not necessarily shared by their employers or EMWA.

#### Disclosures and conflicts of interest

The authors declare no conflicts of interest. At the time of data analysis, Ama Appiah was an employee of Oxford PharmaGenesis and has since resumed studies at the University of Oxford.

#### Data availability statement

For inquiries about data and other supplemental information, please contact the corresponding author.

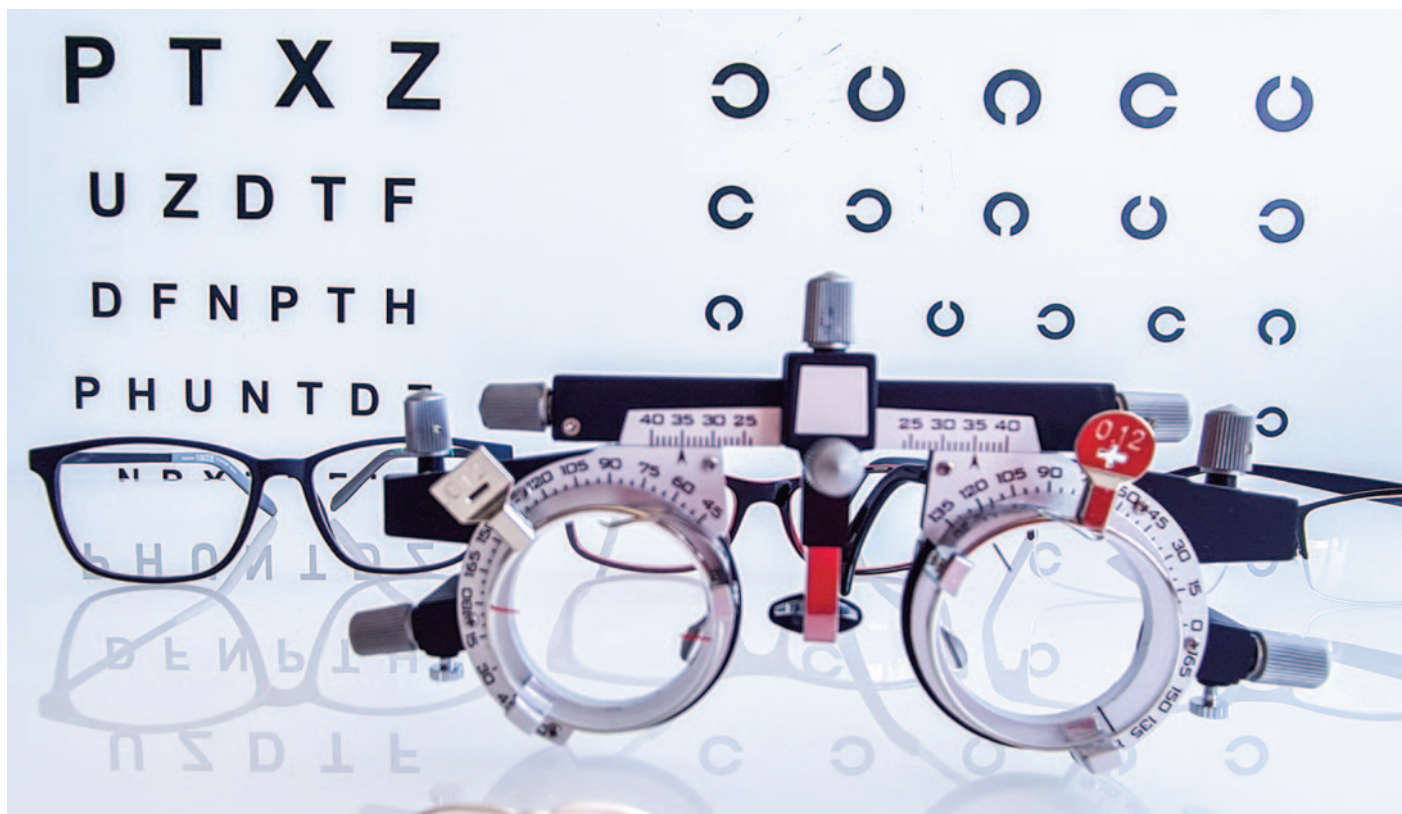
#### References

- Zvonareva O, Cravet C, Richards DP. Practices of patient engagement in drug development: a systematic scoping review. *Res Involv Engagem.* 2022;8(1):29. doi:10.1186/s40900-022-00364-8
- EU CTR 2014/536. Regulation (EU) 2014/536 on clinical trials on medicinal products for human use, and repealing Directive 2011/20/EC. *Official Journal of the European Union* L158/1. April 16, 2014. Available from: [https://health.ec.europa.eu/system/files/2016-11/reg\\_2014\\_536\\_en\\_0.pdf](https://health.ec.europa.eu/system/files/2016-11/reg_2014_536_en_0.pdf)
- Rosenberg A, Baronikova S, Feighery L, et al. Open Pharma recommendations for plain language summaries of peer-reviewed medical journal publications. *Curr Med Res Opin.* 2021;37(11):2015–6. doi:10.1080/03007995.2021.1971185
- Dormer L, Walker J. Plain Language



- Summary of Publication articles: helping disseminate published scientific articles to patients. *Future Oncol.* 2020;16(25): 1873–4. doi:10.2217/fo-2020-0784
5. Barnes A, Patrick S. Lay summaries of clinical study results: an overview. *Pharmaceut Med.* 2019;33(4):261–8. doi:10.1007/s40290-019-00285-0
  6. Anderson A, Borfitz D, Getz K. Global public attitudes about clinical research and patient experiences with clinical trials. *JAMA Netw Open.* 2018;1(6):e182969. doi:10.1001/jamanetworkopen.2018.2969
  7. The Center for Information and Study on Clinical Research Participation. (CISCRP). Perceptions and insights study. 2021. Available from: <https://www.ciscrp.org/services/research-services/perceptions-and-insights-study/>
  8. Shalowitz DJ, Miller FG. Communicating the results of clinical research to participants: attitudes, practices, and future directions. *PLoS Med.* 2008;5(5):e91. doi:10.1371/journal.pmed.0050091
  9. Meister R. Protecting the rights of clinical trial patients through disclosure: the significance of plain language. *Med Writ.* 2018;27(4):57–9.
  10. Singh N. Writing lay summaries: what medical writers need to know. *Med Writ.* 2018;27(2):49–54.
  11. Zimmerman KO, Perry B, Hanlen-Rosado E, et al. Developing lay summaries and thank you notes in paediatric pragmatic clinical trials. *Health Expect.* 2022;25(3): 1029–37. doi:10.1111/hex.13448
  12. European Medicines Agency. CTIS for sponsors. 2022. Available from: <https://euclinicaltrials.eu/ctis-for-sponsors>
  13. GLSP. Good Lay Summary Practice, EudraLex Volume 10, Chapter V. October 4, 2021. Available from: [https://health.ec.europa.eu/system/files/2021-10/glsp\\_en\\_0.pdf](https://health.ec.europa.eu/system/files/2021-10/glsp_en_0.pdf)
  14. Good Lay Summary Practice Roadmap Initiative. The roadmap initiative. 2022 [cited 2022 Sep 06]. Available from <https://glsp.network/about>
  15. Schindler T. The making of Good Lay Summary Practice guidance: a multi-stakeholder document that was adopted into regulation. *AMWAJ.* 2022;37(2): 9–13. doi:10.55752/amwa.2022.156
  16. Public Law 110-85 121 Stat 823. Food and Drug Administration Amendments Act of 2007. September 27, 2007. Available from: <https://www.govinfo.gov/content/pkg/PLAW-110publ85/pdf/PLAW-110publ85.pdf>
  17. Draft FDA guidance on provision of plain language summaries. September 6, 2017. Available from: <https://mrctcenter.org/wp-content/uploads/2017/06/2017-06-13-MRCT-Draft-FDA-Guidance-Return-of-Aggregate-Results.pdf>
  18. NHS Health Research Authority. #MakeItPublic: Transparency and openness in health and social care research. 2020. Available from: [https://s3.eu-west-2.amazonaws.com/www.hra.nhs.uk/media/documents/8828\\_transparency\\_strategy\\_2020\\_V4.pdf](https://s3.eu-west-2.amazonaws.com/www.hra.nhs.uk/media/documents/8828_transparency_strategy_2020_V4.pdf)

19. National Institute of Health and Care Research. Plain English summaries. 2021. Available from: <https://www.nihr.ac.uk/documents/plain-english-summaries/27363>
20. Getz K, Farides-Mitchell J. Assessing the adoption of clinical trial results summary disclosure to patients and the public. *Expert Rev Clin Pharmacol.* 2019;12(7):573–8. doi:10.1080/17512433.2019.1615441
21. European Federation of Pharmaceutical Industries and Associations. EFPIA corporate members. 2016 [cited 2022 Sep 06]. Available from: <https://www.efpia.eu/about-us/membership/>.
22. Bioethics International. Good Pharma Scorecard. 2021. Available from: <https://bioethicsinternational.org/good-pharma-scorecard/>
23. Axson S, Mello M, Lincow D, et al. Clinical trial transparency and data-sharing among bio-pharmaceutical companies and the role of company size, location, and product type: a cross-sectional descriptive analysis. *Dryad.* 2021. doi:10.5061/dryad.r2280gbdb
24. Lobban D, Gardner J, Matheis R, ISMPP PLS Perspectives Working Group. Plain language summaries of publications of company-sponsored medical research: what key questions do we need to address? *Curr Med Res Opin.* 2022;38(2):189–200. doi:10.1080/03007995.2021.1997221
25. Dormer L, Schindler T, Williams LA, et al. A practical ‘How-To’ Guide to plain language summaries (PLS) of peer-reviewed scientific publications: results of a multi-stakeholder initiative utilizing co-creation methodology. *Res Involv Engagem.* 2022;8(1):23. doi:10.1186/s40900-022-00358-6
26. DeTora LM, Toroser D, Sykes A, et al. Good Publication Practice (GPP) guidelines for company-sponsored biomedical research: 2022 update. *Ann Intern Med.* 2022;175(9):1298–304. doi:10.7326/M22-1460
27. Future Science Group. Future Medicine author guidelines. 2022. Available from: <https://www.futuremedicine.com/pb-assets/Future-Medicine-Author-Guidelines-1626446908487.pdf>
28. AstraZeneca. A study to learn how different forms of AZD4635 act in the blood in healthy male participants. 2020. Available from: [https://www.trialssummaries.com/Study/StudyDetails?id=3237&tenant=MT\\_MED\\_9011](https://www.trialssummaries.com/Study/StudyDetails?id=3237&tenant=MT_MED_9011)
29. Kelley RK, Mollon P, Blanc JF, et al. Comparative efficacy of cabozantinib and regorafenib for advanced hepatocellular carcinoma. *Adv Ther.* 2020;37(6):2678–95. doi:10.1007/s12325-020-01378-y
30. National Academies of Sciences, Engineering, and Medicine; Health and Medicine Division; Board on Population Health and Public Health Practice; Roundtable on Health Literacy; French MG, Wojtowicz A, editors. *Health Literacy in Clinical Research: Practice and Impact: Proceedings of a Workshop.* Washington (DC): National Academies Press (US); 2020 May 28. 2, Health Literacy as an Ethical Imperative in Clinical Trials. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK558434/>
31. Baronikova S, Purvis J, Southam E, et al. Commitments by the biopharmaceutical industry to clinical trial transparency: the evolving environment. *BMJ Evid Based Med.* 2019;24(5):177–84. doi:10.1136/bmjebm-2018-111145



### Author information

**Sarah Griffiths** is a Communications Director at Oxford PharmaGenesis and is content lead of the Patient Engagement Team. She develops all three accessible language document types, presenting on them at societies and congresses. She serves on the Future Science Group Advisory Panel for standalone PLSs.



**Ama Appiah** was an intern at Oxford Pharmagenesis in the summer of 2022 where she contributed to research regarding accessible language document types and assisted team members in the process of developing them. Ama has since returned to her studies as a medical student at the University of Oxford.

**Adeline Rosenberg** is a Senior Medical Writer at Oxford PharmaGenesis where she is regularly involved in developing all three accessible language document types. She has co-authored several peer-reviewed publications on publication-associated PLS and presented on the topic at EMWA and the International Society for Medical Publication Professionals (ISMPP).



**John Gonzalez** runs a publications/medical affairs consultancy and is currently on assignment as a Publications Lead with Galapagos NV. Originally trained as a pharmacist, John has worked in the publishing, healthcare agency, and pharmaceutical industry sectors. His work interests include publications policy, strategy, guidelines, ethics, and communication with patients.

**Slávka Baróniková** is a scientific publications leader at Galapagos NV (Belgium), where she established the process for PLS for scientific publications developed by the company. She has also co-authored manuscripts on PLS and presented about PLS at EMWA and the International Congress on Peer Review and Scientific Publication, 9th Congress, Chicago, IL, in 2022.



**Save the date!**

EMWA conferences provide a medium for networking, active discussions and extensive cost-effective professional training. It is also an opportunity to benefit from the experiences of other medical writers.

**EMWA Spring Conference**

May 9–13, 2023

**Prague**

