

## **Introduction to Manuscript Writing**

Kris Greiner, Editor



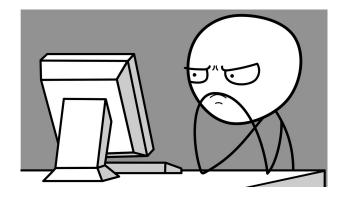
### What does a medical/scientific editor do?

- Spelling, grammar, punctuation, language
- Consistency
- Flow
- Reduce word count
- Formatting
- Figures, tables and all the extras
- Response to reviewers/revisions
- Proofs

## What types of projects?

- Manuscripts: journal articles, book chapters
- Grants
- Abstracts
- Posters and PowerPoints
- Patient education materials
- Personal statements, bios, CVs
- Web text
- Correspondence

### I have to write a ... Where do I start?



# Read. The. Instructions!



## After reading the instructions

- Start with an outline or template
- Fill in the easy parts first the stuff you already know
- When finished, leave it alone for a while, then reread
- Ask a colleague to read
- Last step before submission: editorial help

## **Manuscripts**

Articles
Book chapters

### Where do I submit?

- Find your audience
  - Which journals do *you* read?
  - Online journal finders
    - https://www.ncbi.nlm.nih.gov/nlmcatalog/journals
    - https://journalfinder.elsevier.com/
    - https://journalsuggester.springer.com/
    - https://journalfinder.wiley.com/
    - http://jane.biosemantics.org/
- Impact factors
- Indexed in PubMed
- Open access
  - Worth the cost? Do I have the funds?
  - Reputation of journal

#### Title

- Keep it short and simple
- Use key terms and active voice
- Avoid abbreviations
- Check to see if there is a character limit or word count

#### Authors

- Make sure authors agree on order, corresponding author
- Use full professional names not initials only, and no nicknames
- List highest degrees unless otherwise instructed

#### Affiliations

- Use superscript letters or numbers to denote departments/institutions (again, check instructions)
- Keep affiliations as simple as possible: group all authors from the same institution together
- Affiliations are where each author was when the work was done
- Always list full, precise affiliations

Toll-like receptors (TLR) are key components of the innate immune system that elicit inflammatory responses through the adaptor proteins MyD88 (myeloid differentiation protein 88); and TRIE (toll-interleukin recentor domain-containing adaptor protein-inducing interferon-8).



- Corresponding author
  - Denote as instructed or simply list "Please direct all correspondence to:"
  - List postal address with correct zip code
    - Denote "current address" if corresponding author is no longer at institution where the work was done
  - Phone, fax, email as required by those pesky instructions

### **Affiliations**

Madhu V. Singh¹, Michael Z. Cicha¹, Sarah Nunez¹, David K. Meyerholz², Mark W. Chapleau¹,³,⁴, Francois M. Abboud¹,³

University of Iowa ¹Department of Internal Medicine, Abboud Cardiovascular Research Center, ²Department of Pathology, ³Department of Molecular Physiology and Biophysics, and ⁴Iowa City VA Health Care System

- Any other required info according to author instructions
  - Word, figure, table counts
  - Disclosures
  - Funding sources
  - Abbreviations
  - Running head/title

### **Abstract**

- Word count limit
- Structured?
  - Use subheadings exactly as instructed
- Spell out all abbreviations at first mention
- No references
- Keep it concise!
  - Look for places to remove articles "the," "a/an"
    - "The results demonstrated ..."
  - Include only significant results
  - Look for phrases that can be shortened
    - "We sought to determine whether..." → "We examined..."

## **Key Words**

- Look past the title words
- Check PubMed MeSH Database
  - https://www.ncbi.nlm.nih.gov/mesh
- Separate words and terms with semi-colons so multi-word terms are easily recognized
  - chemotherapy, adjuvant; immunotherapy; quality of life; disease-free survival

### Main Text: Introduction

- Avoid unnecessary, broad background info that your audience already knows, i.e., "Obesity incidence in the U.S. is rising."
- State clearly and concisely what you studied, why it's important
- Use PRIMARY references to support why your study is important

### Main Text: Materials and Methods

- Tell what was done chronologically
- Break into subsections with clear subheadings,
   i.e., Patients, Interventions, Data Analysis
- Use generic names for medications
- List manufacturer, city, state (country) for all lab chemicals, reagents, specific equipment, etc.
- Include software and version for data analyses tools
- Include IRB approval, informed consent, Animal Care and Use approval

### Main Text: Discussion

- This is the most important section of a manuscript - explaining why your study matters
- Keep the focus to why you have proven/disproven your main hypothesis
- Do not repeat Results interpret them
- Acknowledge limitations
- Be humble! State only what you have been able to support; be careful when extrapolating or speculating
- "So now what?"
  - Describe the implications for practice, further research

### Main Text: Conclusions, Summary

- Not all journals include formal Conclusion or Summary sections – check those instructions!
  - But you can still wrap up with a summarizing paragraph
- Keep it SHORT: precise and concise
- Don't restate Results or Discussion
- Finish with a clear sentence or two stating that your findings are important to the reader "because..."
  - -Be a bit humble here
- State your planned expanded/future studies or suggest "future studies should ..."

### References

- Check instructions for format!
  - In the text and in reference list



- Be careful using reference manager software, e.g. EndNote
- Use the most recent sources
- Always use PRIMARY sources
- In the text, always note the reference at the end of the first sentence related to the citation

### References



#### **EndNote**

Norman, P.E., Powell, J.T. (2014) Vitamin D and cardiovascular disease. *Circ Res.* 114(2): 379-393.

#### Journal style

Norman PE, Powell JT. Vitamin D and cardiovascular disease. Circ Res 2014;114:379-93.

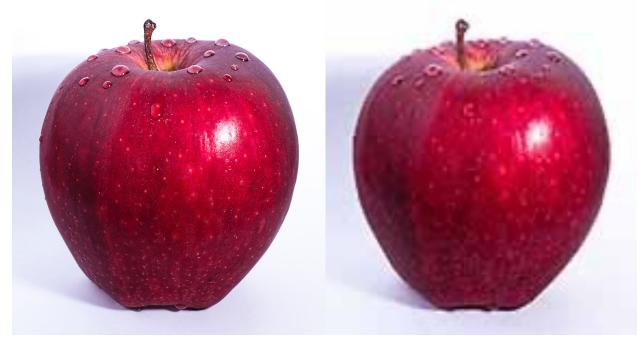
## Acknowledgements, Funding, Disclosures

- Thank those who are not authors but provided substantial assistance:
  - Donated supplies
  - Reviewed article
  - Those who assisted in a clinical trial
  - Your friendly medical editor or illustrator
- Grant funding information
  - Gov't funding usually required to be noted on title page or in specific Funding section
  - NIH and other funded work must be deposited into PubMed Central at publication – not all journals do this; you may need to do it yourself
  - https://publicaccess.nih.gov/policy.htm

## **Figures**

- Do not embed figures into the Word document (usually)
- Most journals require <u>high-resolution</u> images
   Usually TIFF, EPS, PDF
- Do not copy and paste images found online the resolution is not sufficient for printing and you likely don't have permission to use
- Kris or Teresa Ruggle can help with figures

## How do I know an image is hi-res?



300 dpi, 2.1 MB file

72 dpi, 21 KB file

## **Figures**

- Create/use <u>original</u> images as often as possible
- Patient images
  - If using patient imaging studies, redact all patient identifiers – simple black boxes ok
- <u>Modified</u> images/tables/graphs still need permission to reproduce <u>and</u> alter
- Crop the image to show only what is needed;
   crop out large margins around the image

## Figures: Previously Published

 Seek permission if reusing previously published or online images (Kris can help!)



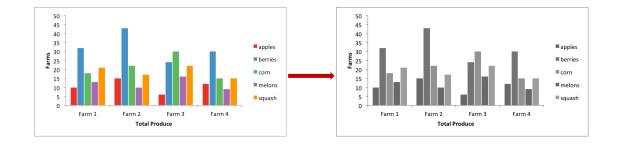
 Make sure you can download a <u>high-</u> <u>resolution</u> version of the image





## **Figures**

- Write clear, simple figure legends
- Make sure all figures are noted in the text, in order
- Check instructions and fees for color images
  - Is image/graph clear if reformatted to B&W?



### **Tables**

- Use in place of Results text
  - Do not duplicate data in text and a table
- Avoid overly complex design elements, such as shading or ornate lines between columns and rows
  - Table design should not upstage the data
- Include a descriptive title of the table
- Make sure all tables are noted in the text, in order
- List footnotes, abbreviations using symbols or letters according to instructions

### Cover Letter

- Include required statements
- If descriptive, start with your main conclusion, then why it fits the journal

Dr. John Smith, Editor-in-Chief Journal of Ophthalmology

Dear Dr. Smith:

We are submitting our manuscript entitled "Taking antioxidants plus zinc reduces the risk of advanced age-related macular degeneration for high-risk patients," for consideration for publication as an Original Article in *Journal of Ophthalmology*.

Results from this large, randomized, controlled trial demonstrate significant improvement in patient symptoms, and is a simple, cost-effective method that readers can implement easily and quickly into routine practice.

[Any required text: disclosures, funding, author participation, IRB/ACUC approval]

Thank you for your consideration of this manuscript.

### Extra Stuff

- Highlights, annotated references, lay summary, précis
- Bulleted references
- Appendices
- Suggested reviewers, editors
  - Take advantage of this: get your paper into the hands of reviewers who appreciate and fully understand your work
  - This will help speed the review process

### **General Advice**

- Use plain language
- Look at recently published articles in your target journal for style and formatting
- Review articles: sometimes by invitation only, so check journal instructions
- Case reports: consider the pros and cons

## Your paper has been submitted!

Now what?

## What happens after submission?

- Editorial office checks general requirements
  - Formatted correctly?
- Editor decides if subject is useful/timely
- Sent for peer-review
  - -6-8 weeks for review, but this varies greatly
  - All comments by reviewers are collected and collated
- Reviewers' comments are sent back to corresponding author with instructions on how to proceed with revision

## The Wait (and usually more waiting)

- Turnaround times vary
- If well past the "promised" time has elapsed, contact the editorial office via email
- Be polite
  - "We submitted our paper assigned manuscript ID 2405 on June 1, 1972. We kindly request an update on the status of this paper."

## The Wait. The Rejection. The ...

• Wait. What?



## The Rejection

- Don't despair!
- (EXI)
- Quick rejection or after review?
  - Quick: guidelines not followed, English not sufficient for review, incomplete components
  - Subject doesn't match the journal
- Consider objectively any reviewer/editor comments you did receive and revise accordingly, even before submitting to a different journal
- Reformat before you submit elsewhere!
  - If the paper is formatted for Journal A, read the instructions for formatting for Journal B!

### Revisions

- Read the instructions carefully
  - Never assume "the journal will take care of that"
- Address each reviewer comment or question directly and specifically – copy and paste these into your response letter
- It's ok to disagree with a suggestion ... politely
- Double-check that changes in the paper are noted in the letter

## Confessions of a science journal editor

https://www.elsevier.com/connect/confessions-ofa-managing-editor-or-6-reasons-im-returning-yourmanuscript (aside from the content)

- Written English needs review
  - Don't rely on Word spell check/grammar check
- References are not in proper format!
  - Don't rely on EndNote
- Abbreviations and acronyms = alphabet soup
- Tracked changes, comments have not been removed prior to submission
- Figures are not formatted as instructed

### Resources

- Hardin Library
  - http://www.lib.uiowa.edu/hardin/
  - Int Med Subject Guide: Heather Healy
  - Open-access journal questions: Janna Lawrence
  - Open workshops: https://www.lib.uiowa.edu/hardin/workshop/
  - https://www.lib.uiowa.edu/hardin/tutorials/
- Graphics and original art, posters
  - Ann Armstrong and Teresa Ruggle, Design Center