

## Family Medicine

## The Art of Manuscript Writing

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#### **Agenda**

- Starting from a Blank Page
- Journal Selection
- Section by Section
- Editing, Phrasing, and Style
- Other Resources

#### **Learning Objectives**

- In this session, participants will learn:
  - The basics of getting started on a new manuscript
  - How to select the appropriate journal for your manuscript
  - How to structure and write sections such as the Background and Discussion



## Starting from a Blank Page

#### **Headings & Sub-Headings**

- Most common headings & subheadings:
  - Background/Introduction
  - Methods (Design, Setting, Participants, Intervention, Data Collection, Data Analysis, Ethics)
  - Results/Findings (Participants, sub-headings for your results)
  - Discussion (Limitations, Implications for Future Research)
  - Conclusion(s)
- How to figure it out? Think design, methods, journal



#### The Length Question

- Journal dependent!
- But if you're just working on drafting first, some general standards I follow:
  - Intro: ~1.5 pages double spaced
  - Discussion: ~2 pages double spaced
  - Word count (not including references, tables): ~3500
- If you know your journal:
  - You can try breaking down other similar articles (e.g., look at length, and proportion section by section)



# Journal Selection: Planning Where to Submit

#### Journal Fit: Start with the Journal

- Make a list of journals and check them all out \*\*use your own references as a good starting point
- Read the author guidelines will it (or can it) fit for length, design, topics?
- Check out the About section for further fit info
  - Some may have published commentary about what they are seeking
- Look at other articles the journal has published
  - E.g., Clinical vs. community-based, "big" summaries like SRs vs projects, RCTs vs pilots, qualitative vs quantitative, negative results vs only positive

#### Journal Selection & Paper Planning with Teams

- Key authors (e.g., PI, first author, key implementer) should definitely give opinions on journal selection
- Give other authors the opportunity to weigh in
- Things that teams may particularly care about:
  - Fit, as described
  - Impact factor
  - Cost of submission
  - Open-access
- Start early and be transparent a Publication Plan is ideal



# Section by Section



#### Writing the Background & Doing a Lit Review

- Think: problem, gap, hook; end with your objective
- How much is enough literature?
  - It doesn't need to be Systematic Review level for every paper
  - A snapshot of what exists focus on areas you'll be fleshing out
  - Give enough of a picture to identify the gap your research fills
     (hint: directly referencing the gap makes it clear to readers)
- Citing papers? Don't cite from others' referenced Background sections, find the original source
- Consider which lit fits Background vs Discussion



### **Writing a Discussion**

- The basic steps:
  - Go through results and see what stands out "good" or "bad"
  - Make educated assumptions about what might have happened to lead to those results
  - Compare your results to the existing literature
- Include limitations even if it's not a distinct subheading requested – consider also strengths and implications for future research



#### **Putting Things in the Right Places**

- Keep your outcomes and/or data collection methods in the same order at every mention
  - Keep an eye out in Data Collection, Data Analysis, Results
- Don't repeat the same info in the Methods, even if it fits in multiple sub-sections (pick one)
- Results vs Discussion?
  - Watch for inclusion of anything verging on assumptions or interpretation being included in Results... except for some qual
- Doubting what to include? Use a checklist (See EQUATOR Network)



#### **Special Notes for Qualitative Results**

- Your transcription might not actually be "verbatim"
  - If it isn't, you can delete filler words (e.g., "like", "just", "you know"
    - depends on participant age & cultural groups)
  - If it is, use more ellipses…
- Use actual terms from the quotes in your text if possible –
   otherwise meaning can get muddled

#### **Tables & Figures**

- Use them strategically
- Should be able to stand alone use the 'Note' to make sure they do
- Should not be redundant to the text

# Editing, Phrasing, & Style

#### Different Styles of English

- We've got folks from all over so pick only one & stick to it!
- Quick and dirty guide:
  - US = no U's, Z's over S's, -ER over -RE, no added E's, ends at M (Color, randomization, theater, aging, program)
  - UK = added U's, S's over Z's, -RE over –ER, added E's, add -ME
     (Colour, randomisation, theatre, ageing, programme)
  - Canada = added U's, Z's over S's, -RE over –ER, no added E's, ends at M (Colour, randomization, theatre, aging, program)
- But of course, there are exceptions to every rule



#### **Adding Clarity & Accuracy When Editing**

- Short forms aren't always clear if you have space, spell out those acronyms & initialisms
- Make sure the story of your abstract matches the story of your paper
- E.g. = an example of, i.e. = the only examples of
- Read your paper specifically for language use that isn't sensitive to those outside dominant culture or language that is 'out of date'
  - Even if an article you're referencing uses it, you do not have to



#### Make the Paper a Good Read

- Academic papers don't have to be boring and dry
  - Make them as readable as you can from top to bottom (working with what you have in subject matter)
- Academic papers don't have to be pretentious
  - If a smaller word does the job as well or better than a big word, use it (e.g., use vs utilize)
  - It's better to be clear than to sound smart
  - Even experts prefer plain language <sup>1</sup>



## Other Resources



#### Sample Papers

- A clean quantitative program evaluation → Agarwal, G., Angeles, R., Pirrie, M., Marzanek, F., McLeod, B., Parascandalo, J., et al. (2016). Effectiveness of a community paramedic-led health assessment and education initiative in a seniors' residence building: the Community Health Assessment Program through Emergency Medical Services (CHAP-EMS). BMC Emergency Medicine, 17. <a href="https://bmcemergmed.biomedcentral.com/articles/10.1186/s12873-017-0119-4">https://bmcemergmed.biomedcentral.com/articles/10.1186/s12873-017-0119-4</a>
- A thick qualitative evaluation → Gaber, J., Oliver, D., Valaitis, R., Cleghorn, L., Lamarche, L., Avilla, E., et al. (2020). Experiences of integrating community volunteers as extensions of the primary care team to help support older adults at home: a qualitative study. *BMC Fam Pract*, 21, 92. <a href="https://bmcfampract.biomedcentral.com/articles/10.1186/s12875-020-01165-2">https://bmcfampract.biomedcentral.com/articles/10.1186/s12875-020-01165-2</a>



#### Other Resources – Internal to DFM/McMaster

- DFM Guidelines for Authorship, based on ICMJE guidelines: dfmresearch:\Research Projects\Clinic Research Coordinator\Faculty Resources
- May 2018 RKSB on ClinicalTrials.gov and Checklists, in: dfmresearch\Training and Resources\Knowledge and Skills Builder Sessions\Research Methods and Design
- HSL's Getting Started with Literature Searching: <u>https://hslmcmaster.libguides.com/literature\_searching</u>

#### Other Resources - External

- Web of Science Journal Search & Manuscript Matcher: <a href="https://mjl.clarivate.com/home">https://mjl.clarivate.com/home</a>
- UBC Science Writing Resource: <a href="https://wiki.ubc.ca/images/c/cc/Science Writing Resource.pdf">https://wiki.ubc.ca/images/c/cc/Science Writing Resource.pdf</a>
- Tips for Writing an Abstract: <a href="https://www.stfm.org/media/1711/tipstoimproveabstract.pdf">https://www.stfm.org/media/1711/tipstoimproveabstract.pdf</a>
- The EQUATOR Network (checklists and more): <a href="https://www.equator-network.org/">https://www.equator-network.org/</a>
- Academic Writing, from OWL Purdue Online: <a href="https://owl.purdue.edu/owl/general\_writing/academic\_writing/index.html">https://owl.purdue.edu/owl/general\_writing/academic\_writing/index.html</a>
- ICMJE Recommendations for Scholarly Work: <a href="http://www.icmje.org/recommendations/">http://www.icmje.org/recommendations/</a>



### **Wrapping Up**

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**Any Questions?** 





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