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Elements of a Manuscript continued Methods: Overview of design Use valid and reliable Study subjects/participant: measurement instruments. Only previously tested and Gender, demographic published measurement tools are variables of importance to the valid and reliable. studv Design for sampling How subjects were recruited Statistical issues: Hypotheses, sample size, and power - not relevant for qualitative studies Measurements: Define how you measured your phenomenon or how you collected your data.

Elements of a Manuscript continued

<u>Analyses</u> – either statistical or how you analyzed qualitative data – When reporting means, always include an associated measure of

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 when reporting means, always include an associated measure or variability, such as standard deviations, variances, or mean square errors (Harris & Taylor, 2008)

Results: Promote speedy comprehension by summarizing findings in a table Discussion

- Include limitations

- Conclusion: Make sure your findings support your conclusion
 Paragraphs and headings
- Break up text so paragraphs are not longer than one page
- Do the levels of headings accurately reflect the organization of the paper? Headings are a good way to guide the reader

References

- Are references cited both in the text and in the reference list? (American Psychological Association [APA], 1995)

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Slide 7

dwd5 This is a repeat of a previous slide - do we need to delete one? Dawn Wendy Dowding, 10/19/2009



Use Consistent Terminology

- Avoids confusion
 Makes it easier for the reader to follow and comprehend what you have written
- For example, if you are writing about 'electronic medical records', use the full term or acronym (e.g., EMR)
 Do not change to another term such as, *monitor*, *screen*, *display* and *system*



- abbreviations Explain necessary abbreviations

Eliminate unnecessary









Instructions to authors can be found inside the cover of most journals as well as online at the journal or publisher's web site. • Various journals utilize slightly different formats and/or writing styles. • Therefore, following directions is important. • Browse the scientific journals and find an article you think is well organized. • Use it as a template: You don't have to 'reinvent the whee!' • Ideally, choose an article from the journal to which you plan to submit • Copying another author's layout is not plagjarism—it is well within the norms of scientific integrity for authors.

Journal Editor Responsibilities

 Journal editors serve a gatekeeping function in that they determine what manuscripts, letters, corrections, or retractions are published.

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- Editorial policies provide for highquality reviewers and assure prompt, fair and collegial feedback with authors, with appropriate explanations for declining manuscripts.
- Most journal editors refer new manuscripts to an expert panel of reviewers for a *peer review*
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Slide 14

dwd6 I wouldn't specify how long the background/significance should be - as it varies so much between journals. Dawn Wendy Dowding, 10/19/2009





A Word about Editing

- If you are an inexperienced author, find an editor or ask a friend read your paper
 - Your paper should be easy to read and comprehend, even for consumers with a non-medical background
 - Is it clearly written?
 - IS It clearly written?
 - Grammar and spelling count—use spell check!
 - Is it well organized or are there confusing parts?
 "Transition sentences" at the end of each paragraph can help bridge an abrupt change in the focus of your writing
 - Is the conclusion based on your findings?
- American Psychological Association (APA) format (APA, 1998)
 Commonly used for health care publications, including nursing

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Authorship continued

- More and more, editors expect multidisciplinary authors
- Seek collaborators that with strengths to complement your weaknesses—we all have weaknesses and strengths!
- Collaborators frequently might not carry out the tasks they agreed to, (e.g., fail to carry out data analyses or prepare a first draft)
- Changes in authorship should be negotiated when decisions are made to shift responsibilities for the work
- There are resources with detailed suggestions about how to carry out such negotiations diplomatically
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Strategies to Improve Writing Style

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- Authors use various strategies in putting their thoughts on paper.
- The fit between author and strategy is more important than the particular strategy used.
- Three approaches to achieving professional and effective communication are:
 - Writing from an outline
 - Putting aside the first draft, then rereading it after a delay
 - Asking a colleague to critique the draft for you
- · Let's examine these three strategies more closely.

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- Put your work aside and do something completely different.
- It is difficult to judge your own work and RNs do not normally receive the support they need to publish like medical students and "learning curve"—don't be too hard on yourself—In the end it's well worth the effort!
- Rereading your first draft after setting it aside for a few days will give you a fresh perspective.
- Reading the paper aloud enables you to "see" problems you did not notice before.

- Writing Strategy #2: Putting Aside the First Draft

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- After all could's failed been made, give a draft to a colleague or friend to review—preferably a person who has published within the last ten years but who is not too familiar with your work.
- Out of respect for other researchers and to avoid wasting their time, make sure all abbreviations are defined and only use them when absolutely necessary.
- Also, explain clinical procedures with which other clinicians or the public may not be familiar
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Ready to Submit Your Article?

- Almost all journals require electronic submission of all articles, including tables, figures and photographs.
- Allow enough time to become familiar with this process—it will become much easier each time you submit an article!
 The journal will require all

authors to sign a "conflict of interest" form, attesting they do



- not have anything to gain from the publication of your article • The next few slides will examine conflicts of interest more closely
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Conflicts of Interest: Patient Care versus Research Role

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- Dual Roles for Clinician
 Investigators:
 - Patient may fear that their future care will be jeopardized if they decline to participate
 - They may not distinguish between standard care and research
 - What is best for the patient may differ from what is best for the research project
 - Welfare of the participant is paramount
 - To maintain scientific integrity, clinicians must do what is best for the participant
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How to Minimize Conflict continued: Institutional Review Board (IRB)

- In institutional review, a study is examined for ethical concerns, including potential author conflicts of interest
- Publisher's often require IRB approval in writing
- Must obtain IRB approval or obtain a letter from your IRB stating the study was reviewed and it was determined an IRB review was not necessary—it is essential to obtain *before you begin* your project!
- Levels of IRB Review
 - Exempt from IRB review: Studies that carry no risk, including QI projects if you plan to publish
 - Expedited IRB review: Studies that carry minimal risks, minor changes to in previously approved research, only takes a few days
 - Complete or Full IRB review: Studies that carry greater than minimal risk (Burns & Grove, 2007, p. 222-225)
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Additional Tips

- If at first you don't succeed, try again
 - A journal somewhere will publish your study
- Be prepared to accept constructive criticism and realize that you don't have to agree with a reviewer
- Find a mentor who has published in the last ten years to help you respond to the reviewer's critique-reviewer's require a thoughtful and purposeful response
- No paper is ever perfect! Once it is good enough, submit it for peer review

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In Conclusion

Kev concepts reviewed in this presentation:

- The main elements of a published article:
- Title and abstract, background and significance, methods, analyses, results, discussion, paragraphs and headings, and references
- The peer review process Peer reviewers maintain confidentiality, avoid conflicts of interest and provide constructive comments
- Responsibilities for scientific integrity associated with authorship
- Three strategies to improve your writing style Use an outline to organize and logically order your ideas
- Put aside the first draft for a few days before you read it again - Ask a friend to critique your draft
- Common author conflicts of interest and how to minimize them

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Wikipedia, Randomized Controlled Trial.
<u>http://en.wikipedia.org/wiki/Randomized controlled trial</u>. Retrieved
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