



### What is scholarly activity? New knowledge is generated (\*research\*) Direct patient experience → case reports or case series Review of charts or databases → new knowledge about outcomes Surveys → new information about trainee or patient or MD perceptions Prospective trials Ol projects - if properly constructed Educational initiatives - if properly designed Library review can be synthesized into lectures, review articles or metaanalysis The knowledge is disseminated to others (presentation and/or publication) Presentation should not be enough. You have already done most of the work, so why not publish it?



## Designing the study Retrospective chart review vs retrospective database review vs. prospective database w retrospective review vs. prospective series vs. historical controls w prospective series vs. prospective randomized Inclusion and exclusion criteria (even for retrospective studies) Estimate record incompletion or patient dropout or survey non-return rates Now revisit the sample sizel You should be able to get this done in a year from the time you start Be sure you have defined your variables clearly Design a data collection form Do a beta test and then revise the form and redefine your variables

## Lots of people want to help you. They just don't know it yet! Med students need to do research to distinguish residency agrips & want to work with you to get letters of recommendation. They are also fun! Nurses may be going back to school for Masters/PhD and need projects. If it's clinically relevant, nurses and colleagues can help identify or recruit. Hospitals need quality improvement done and have staffs to doit. UND scientists need your samples and your insights for collaboration. UND needs educational innovation and has professional educators who can help you design education projects. UND campus librarians can help with literature review and (later) editing. Statistical help is available from UND faculty. If in doubt, ask an experienced colleague, your campus dean, your chair, or me.

### IRB's All projects must be approved by UND IRB. Some may be \*exempt\* and others \*expedited\*, but only the IRB can make this determination. You will likely also need IRB approval by your local hospital IRB unless it's a national database study or non-patient survey. Most of the same stuff goes on both sets of forms but in different places. Find a previous successful IRB for a similarly structured study as a model Allow enough time for review and necessary changes. A sense of humor can be an asset.

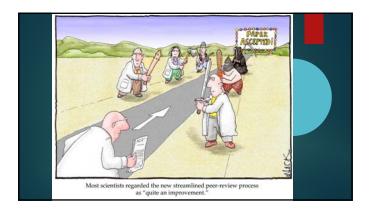






# Manuscript writing step by step Abstract - meeting abstract Introduction: 3 paragraphs. First sets up the problem or question. Second elaborates your hypothesis. Third explains how you tested it. Methods: IRB approval. Study design. Patients (inclusion/exclusion) or Database description. Stats paragraph. Results. Narrate the figures. Discussion: 5-6 paragraphs 1. Two sentence background. This study shows A, B, and C. 2. A Is your topic sentence. How is this credible/not credible/different from the literature/novel/important/problematic? Limitations of this conclusion? 3.4. Same for B and C. 5. 1-2 sentences summarize your conclusions. 1-2 sentences describe larger implications for clinical care or science or education or whatever.





#### Rejection ► If not, you may have shot too low! Would you really want to publish in a journal that would accept your work? Is it really a rejection or an opportunity for resubmission? If resubmission, do what they ask you to do and write a detailed point by point cover letter. If rejection, consider the reviews to see if there are things that can be corrected or criticisms that you can immunize yourself against by raising them yourself and dismissing them. ▶ Then move down the impact factor scale and submit somewhere else. Do so rapidly. Do not let papers sit or you will lose momentum.

#### Some examples

- ▶ National survey of resident vs. faculty perceptions of teaching in residency progra

- Case series on effect of latent claustrophobia on patients with hat
   Review article on short gut syndrome and intestinal adaptation
- Whipple in HIV+ patient (surgeon exposure from IVC Greenfield filter)
- Wound healing above or below the level of paraplegia (chart review)
   Case series and classification for Amyand hernias (appendix in inguinal hernia)

- ▶ Survey of patients' understanding of the medical hierarchy in a teaching program