

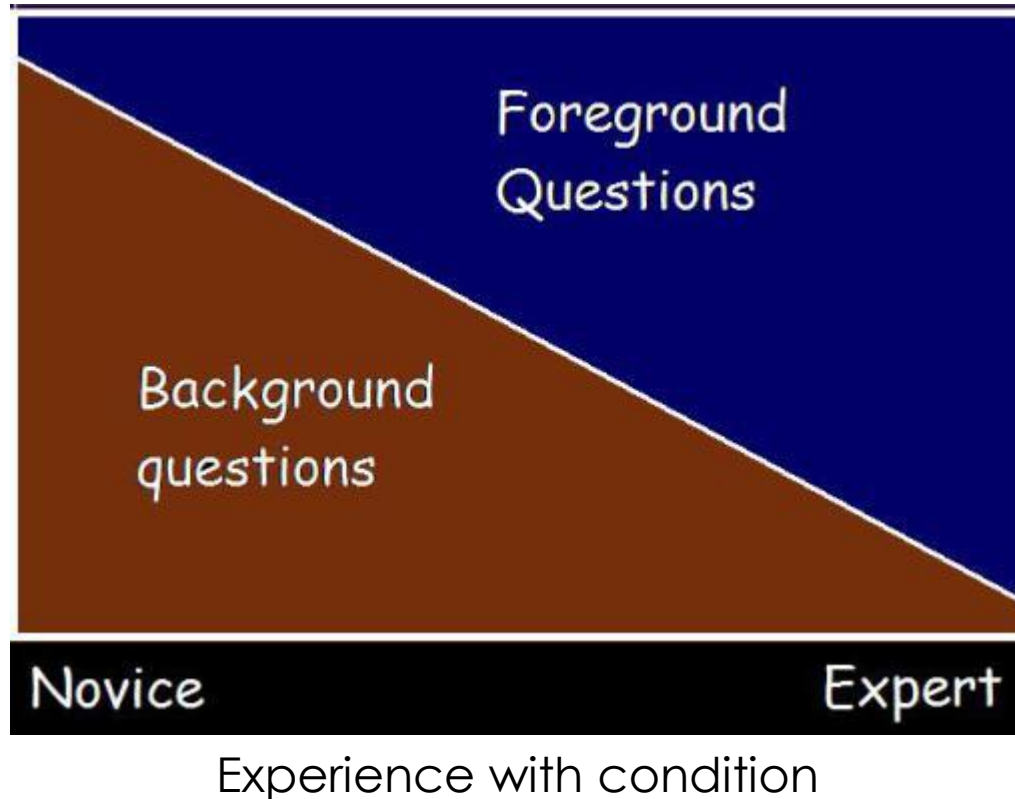
M1 Orientation – Critical Thinking & Library Resources

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undmedlibrary.org

The screenshot shows the homepage of the UND Health Sciences Library. At the top left is the UND logo and the text "HEALTH SCIENCES LIBRARY". To the right is a search bar with "Search UND.edu" and a "SEARCH" button, along with links for "UND A - Z", "DIRECTORIES", and "MY UND". Further right are "Live Chat" and "Apply Now" buttons. Below this is a navigation bar with "Find Resources", "Selected Resources", "Quick Links", "Library Information", and "Ask a Librarian". The main content area includes a breadcrumb trail: "UND Home > School of Medicine & Health Sciences > Health Sciences Library". Below this is "Today's Hours: 8:00am-6:00pm (more)" and a login section with fields for "User name: [username]" and "Password: []", a "Login" button, and links for "Apply", "Help Logging In", "Forgot Password", and a "Remember" checkbox. The central feature is a "Search Resources" section with a search box containing "Library Resources" and "Search for...", a "Search" button, and radio button options for "Title Keyword" (selected), "Keyword Anywhere", and "Exact Title Match". Below these are links for "Advanced Search" and "A-Z List". At the bottom, there are three columns: "Selected Resources" listing "AccessMedicine", "CINAHL", "ClinicalKey", "DynaMed", "PsycInfo", and "PubMed" with a "(More Selected Resources)" link; "Find Resources" listing "Find Articles", "Find Journals", "Find Books", "Find Other Resources", "Browse by Subject", "How-to Guides", "Order Materials (Interlibrary Loan)", and "Get Help"; and "Clinical Campus Libraries" listing "NW Campus (Minot)", "SE Campus (Fargo)", and "SW Campus (Bismarck)".

There's a distinction between **background** and **foreground** questions.



Guyatt G, Rennie D, Meade MO, Cook DJ, editors. Users' guides to the medical literature: a manual for evidence-based clinical practice. 2nd ed. New York: McGraw-Hill Medical; c2002. Figure 3-1, Background and Foreground Questions; p. 19.

Background

- A *background question* asks for general knowledge about a condition or thing (e.g. test, treatment, etc.)
- Start with question root: **who, what, when, why, which, or how.**

- Examples:
 - “What is type 2 diabetes mellitus?”
 - “How can one diagnose appendicitis?”
 - “Which treatments are available for advanced prostate cancer?”

Answers often found in...

- *These questions can be best answered by **medical textbooks** and good quality websites.*
 - AccessMedicine
 - ClinicalKey

Foreground

- *Foreground questions ask for specific knowledge to inform **clinical decisions or actions**. They are generally very **detailed questions** that can best be answered with the information contained in **published research studies (primary lit) or syntheses** thereof.*

Evidence for Foreground Questions often found in...

- Article databases, such as:
 - PubMed & Cochrane
- Evidence summaries, such as:
 - DynaMed
- Note: We will return to this discussion in a later block.

Sample Case*

- Your patient, a 75 yr old man, comes to see you after being discharged from the hospital 2 wks before. While at the hospital he underwent carotid endarterectomy after suffering a transient ischemic attack (TIA) and being diagnosed with significant carotid stenosis. His hospital stay was uncomplicated and his discharge medications included metoprolol 50 mg twice daily for hypertension and aspirin 81 mg daily.

* Case adapted from Straus SE, Richardson WS, Glasziou P, Haynes RB. Evidence-based medicine: how to practice and teach EBM. 3rd ed. Edinburgh: Elsevier Churchill Livingstone; c2005. Chapter 5 Therapy; p. 115-176.

Continued

- Today, he has brought you an article that he found on the internet that describes the benefits of statins for stroke prevention and he wonders what this medication is and if he should take it. Notes from his previous visit with you showed that his total cholesterol was 193 mg/dL, HDL-cholesterol was 77 mg/dL, and LDL-cholesterol was 77 mg/dL. His examination was unremarkable.

Activity

- Identify 3 background questions that you have about this case vignette (4 minutes).
- 1 of your background questions should be on a drug
- Now pass your questions to your left.
- Choose 2 questions and pretend they're your LOs. Find:
 - 1 book chapter in either AccessMed or ClinicalKey
 - 1 relevant figure or image from AccessMed, ClinicalKey or another resource on the "M1-M2 Students" How-To Guide
 - Remember to cite
 - 10-15 minutes

Sample Case - Foreground Question

- Remember: the information will help you make your clinical decision
- *Can adding a statin to my patient's treatment plan reduce his risk of further strokes?*

Activity

- Find 1 article (primary literature) to answer our foreground question in PubMed
- Cite

- 10-15 minutes

PubMed

- Search terms (keywords)
- Filters
- Finding full-text

Activity

- Pass paper to the left.
- Pick one source that your neighbor cited and pull it up using the information they gave you. (4 minutes)



Citing your sources

Best Practices

- Properly citing is both an issue of professionalism AND it helps you too.
 - Easier to relocate later, e.g. when studying or if defending your answer.
- Give credit to all sources, whether you're writing a paper or giving a presentation.
- Slide with *complete* references at end of PPT presentation

Which style should you use?

- I recommend NLM Style aka Vancouver Style aka ICMJE Uniform Requirements.
- Other styles used in biomedical & health sciences include AMA and APA.
- Refer to <http://libguides.und.edu/citations> and <http://libguides.und.edu/medical-students> for more help.

Note:

- Some library resources will provide *suggested* citations for you
- However, sometimes their recommendations *don't actually make sense*. Always keep to your citation style guidelines. Ask a librarian if unsure.

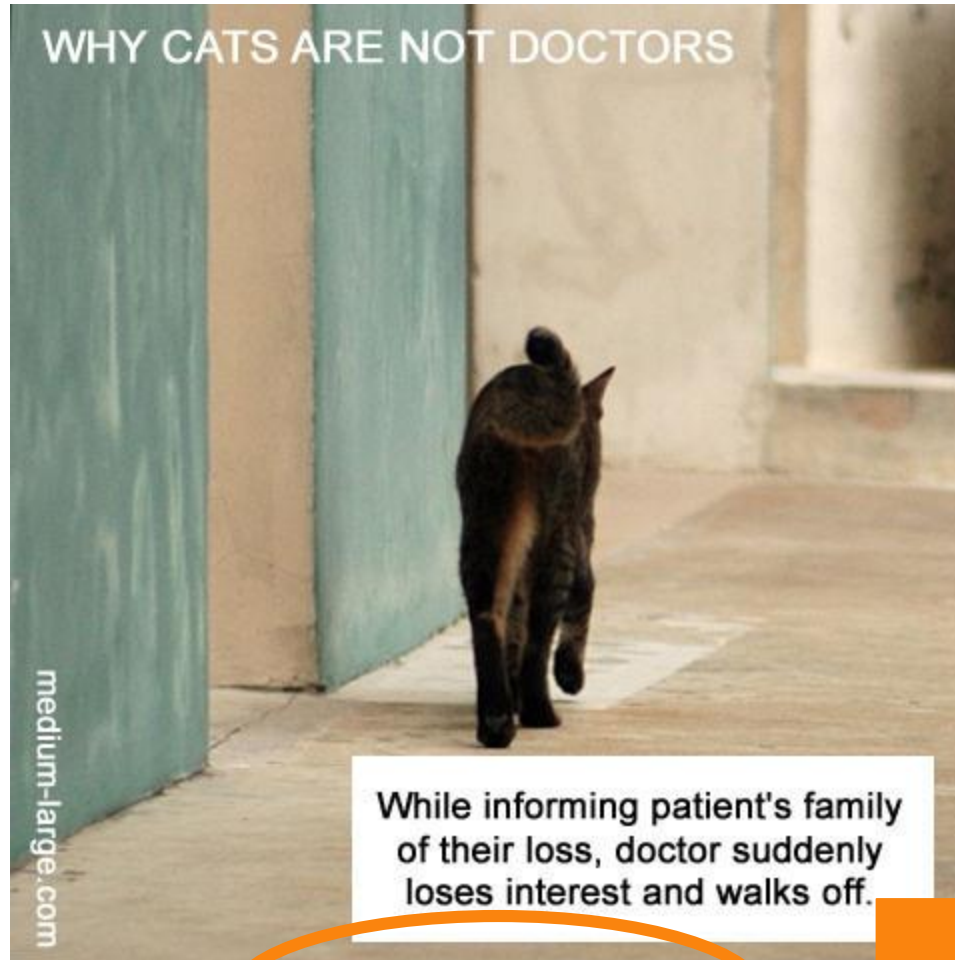
Common Mistakes

- Citing the wrong format
 - Always give citation for version that you've used. Example: for E-Book versus print editions
- Incomplete citations
 - Example: citing the container (e.g. ClinicalKey), but not the content (e.g. a specific book chapter that you accessed via ClinicalKey)
- Incorrect or missing attributions (especially with images)
 - Examples on next slides



Images used in a
presentation

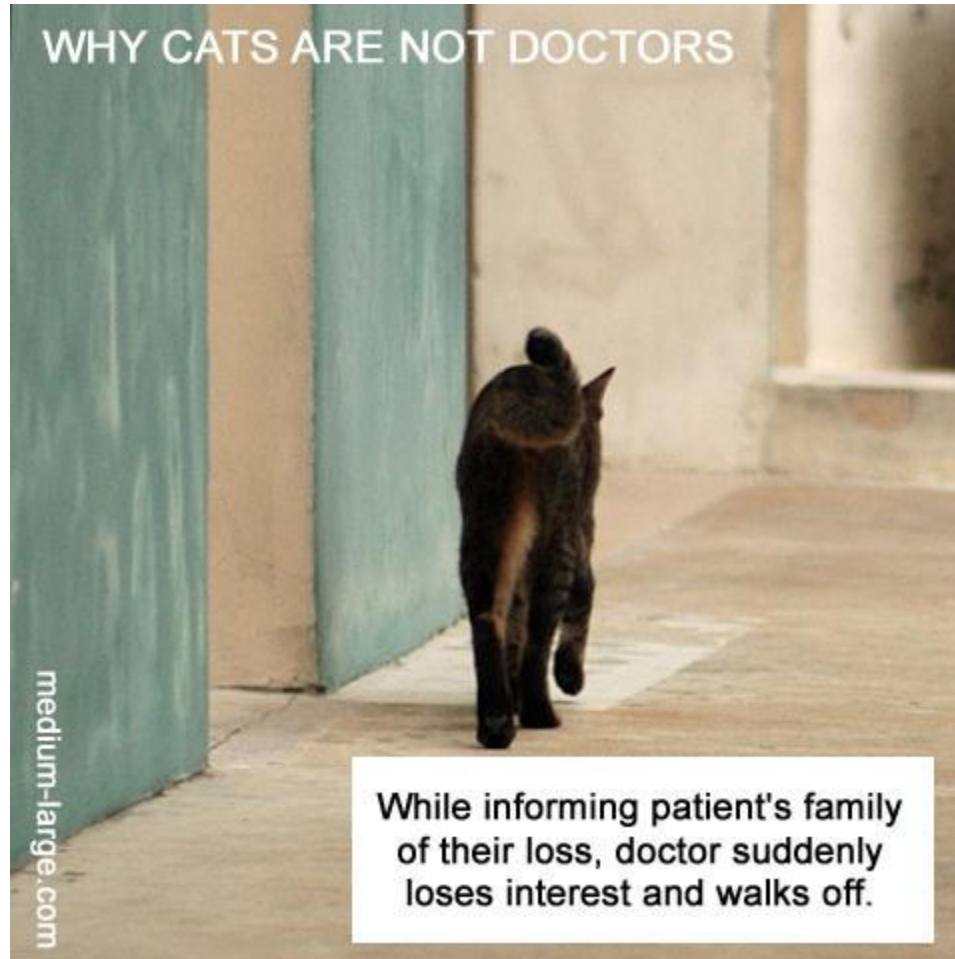
Is this a good citation?



Google Images

no

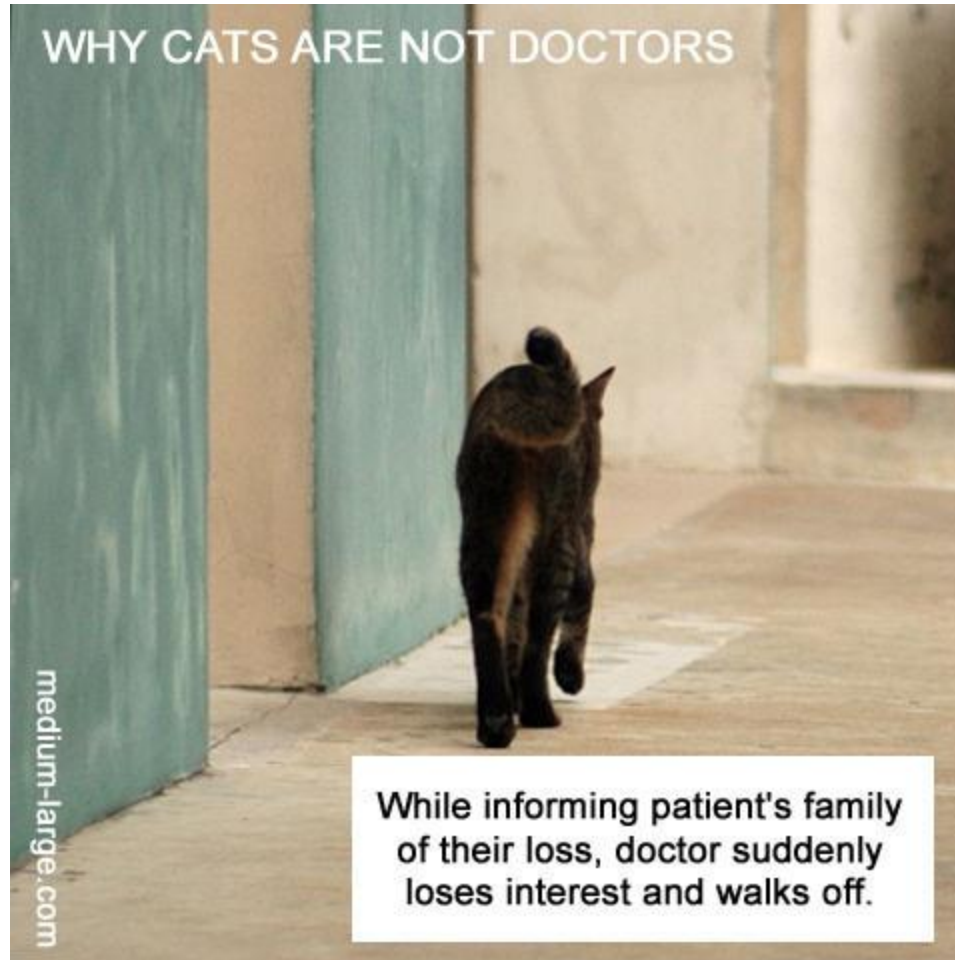
Better?



Source: Medium-Large.com, 2011 ¹

w/ full citation
at end of
presentation

Best



Source: cesco7. Why cats are not doctors. 29 Mar 2011 [cited 5 Aug 2015]. In: Medium Large [Internet]. [Place unknown]: cesco7. c2008- . Available from: <https://mediumlarge.wordpress.com/2011/03/29/why-cats-are-not-doctors/>.

Questions? Comments?
Recommendations?
Sarcastic side notes?
Thoughts? Pet pictures to
share?

REMINDER

- 800am tomorrow in W203, presentation on “Policies and Procedures”
- Come prepared with your questions for the M2 panel

Need More Help?

Dawn Hackman, M.S., AHIP
Research & Education Librarian
Office: 438A (in the Education
Resources Suite)

[Email](#)

Phone: 701-777-4792

Or Library Information Desk

Phone: 701-777-3993

Email:

<http://undmedlibrary.org/Help>

