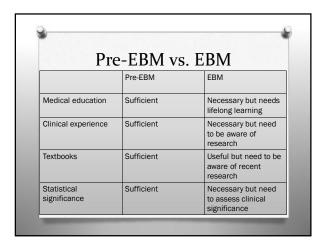
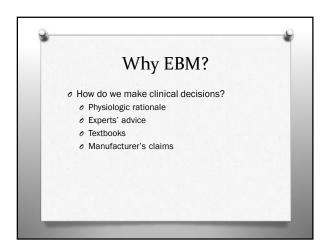


Evidence-based clinical practice (EBCP) o is an approach to health-care practice that explicitly acknowledges the evidence that bears on each patient management decision, the strength of that evidence, the benefits and risk of alternative management strategies, and the role of patients' values and preferences in trading off those benefits and risks.

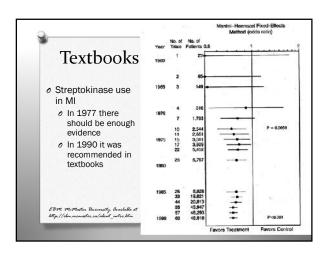




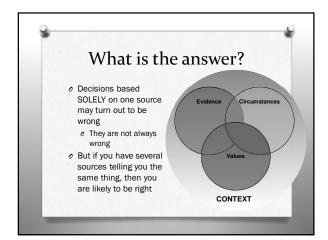


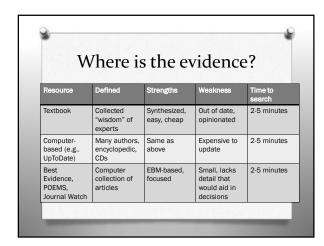
Physiologic rationale— Ischemic Stroke example be External carotid-internal carotid bypass surgery be Many had done until someone questioned it line NIH study proved it ineffective and that it delayed recovery Streptokinase (a thrombolytic used in treating MI) line 3 clinical trials stopped prematurely because of increased patient death in the treatment group line Tissue plasminogen activator (t-PA) works well SEPH THE MERGER The invalidate of Milly (1 february 10 february 10 february 10 february 11 february 11 february 11 february 11 february 11 february 11 february 12 february 12 february 12 february 13 february 14 february 14 february 14 february 15 february 16 february 1

Experts' Advice—Eclampsia o In 1992 for control of convulsions in eclampsia e Experts recommended: diazepam e Studies showed magnesium sulphate to be better (more effective with less mortality)

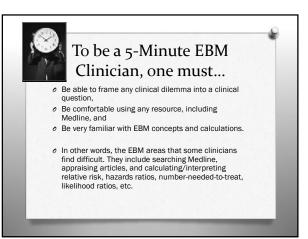


Manufacturers' claims o May be misleading o Is there an alternative motive? o Can you truly trust it without researching it yourself?





Where is the evidence? (continued)								
Resource	Defined	Strengths	Weakness	Time to searc				
Cochrane Library	Systematic Reviews, RTCs,	Rigorous, committed, comprehensive	Incomplete topics, too academic	2-5 minutes				
Medline	Citations from 4000+ journals	Comprehensiv e, free, updated	Time consuming difficult	30 minutes				
Internet	Should I even try?	Clearing house for everything, will always find something	Difficult, content uncertain	10+ minutes				

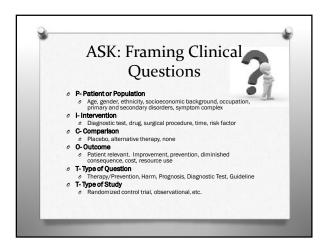


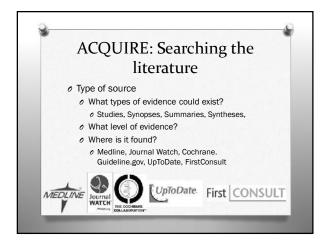
Choosing to Answer a Clinical Question Is the question important to the patient's health? Can you answer the question in the time you have available? Will you encounter the question repeatedly in your practice? Are you interested in the topic?

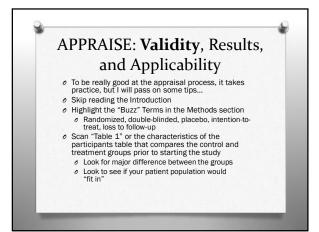
What do you do if the answer is not in Up To Date or First Consult?

- σ I just said that it can take 30 minutes to search Medline
- And to truly read and appraise an article from Medline would likely take an hour (for some) and days (for others)
- σ Let's not even mention the calculations!
- So here are some tips to make this possible...

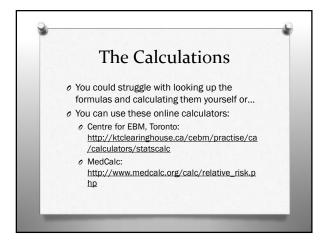
The Four Steps Ask Acquire (find) Everyone should have a librarian in the family Appraise Apply

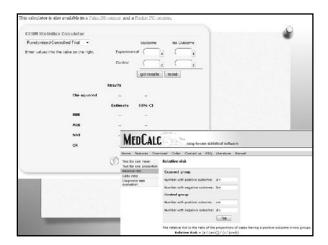


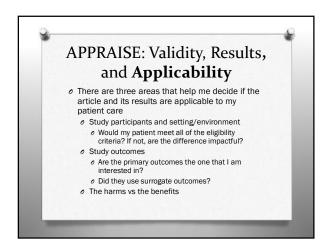




APPRAISE: Validity, Results, and Applicability Figuring out which results matter can be tricky, and changing them into something meaningful is even worse... Remind yourself what outcomes are most meaningful to the situation, to your population, to you. Look at the tables and figures first for the percentage or number of each group that had the outcome Note: if you see things like mean score or mean change these numbers are useful but require no further calculations If you can't find them in a table/figure, then you might have to read the Results section







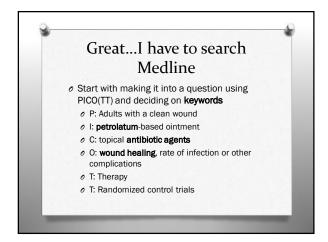
A quick note about outcomes $\sigma\,$ Primary outcomes are those that have the primary focus of the researchers A study's methodology is dictated by the outcomes of interest $\boldsymbol{\sigma}$ Surrogate outcomes are NOT patient important Examples of surrogate: HBA1C, Blood Sugar levels, VLDL, Blood Pressure, etc. Tend to be blood test, biochemical markers Examples of patient important: Death, Loss of limbs, Loss of sight, Length of Hospital stay More difficult and costly to measure

An Example: a conversation with a surgeon

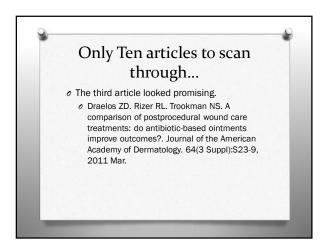
- A couple years ago, I had what started as a casual conversation with a surgeon that turned into a flat out scolding: "I wish you primary care people would stop using Bactroban (mupirocin) to treat simple impetigo, because now you have added to the resistance making it difficult for me to treat my patient's clean wounds with it!!"
- σ I searched MDConsult, not helpful
 - FirstConsult, not helpful
 - σ UpToDate, not helpful

Great...I have to search Medline σ Start with making it into a question using PICO(TT) o P: Adults with a clean wound o I: petrolatum-based ointment

- o C: topical antibiotic agents
- $\boldsymbol{\sigma}$ O: wound healing, rate of infection or other complications
- o T: Therapy
- o T: Randomized control trials







Excerpt from the study: Objective

We sought to compare the efficacy and safety of a nonantibiotic, petrolatum-based ointment (Aquaphor Healing Ointment [AHO], Beiersdorf Inc, Wilton, CT) and an antibiotic-based first-aid ointment (Polysporin [Poly/Bac], Johnson & Johnson, New Brunswick, NJ) for the treatment of wounds created by removal of seborrheic keratoses.

Excerpt from the study: Methods

In this double-blind randomized controlled study, 30 subjects (aged 50-83 yo, Fitzpatrick skin types I, II, or III, with no known allergies or health conditions that would interfere with the study) each had two seborrheic keratoses removed from their trunk or abdomen; one wound was treated with AHO and one with Poly/Bac twice daily. Clinical grading of wound healing and subjective irritation was assessed at days 7, 14, and 28 postwounding. Adverse events were recorded.

Excerpt from the study: Results

O Clinical grading assessment showed no differences between wounds treated with AHO versus Poly/Bac for erythema, edema, epithelial confluence, crusting, and scabbing at any time point. Subjective irritation assessment showed wounds treated with Poly/Bac had a significant increase in burning at week 1, whereas no differences were seen between treatments for stinging, itching, tightness, tingling, or pain. One case of allergic contact dermatitis was reported after Poly/Bac treatment.

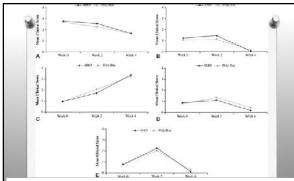


Fig 1. Mean clinical grading scores for AHO and Poly/Bac. A, Erythema. B, Edema. C, Re-epithelialization. D, Crusting. E, Scabbing. Erythema and edema grading scale: 0 = none, 1 = mild, 2 = moderate, 3 = marked, 4 = severe. Re-epithelialization, crusting, and scabbing grading scale: 0 = none, 1 = slight (up to 30%), 2 = moderate (31%-60%), 3 = extensive (61%-90%), 4 = almost complete or complete (91%-100%).

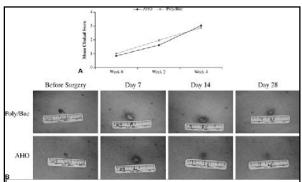


Fig 2. Wound-healing appearance. A, Investigator-graded wound appearance for all participants. General wound appearance grading scale: 1 = poor, 2 = good, 3 = very good, 4 = excellent. B, Healing after seborrheic keratoses removal in individual patient. Wounds treated with Poly/Bac (top) and AHO (bottom) at days 7, 14, and 28.

Could we do this on my smart phone? Not as easily There are the paid subscriptions of course ACP - PIER - via Skyscape Downloads to iOS, Android, BB for \$79/year UptoDate - Web only access for iOS and Android \$195/year students \$495/year Providers Essential Evidence Plus - Web only access for iOS and Android \$79/year Dynamed - via Skyscape downloads to iOS, Android, BB \$99/year Students, \$395/year Providers PEPID - Downloads to iOS and Android for \$255 year Epocrates Essentials - Downloads to iOS and Android \$159/ year

